MAIL BIDS TO: STAMFORD PUBLIC SCHOOLS
888 WASHINGTON BLVD.
PURCHASING DEPT. 3rd FLOOR
STAMFORD, CT 06901

BID NUMBER: B-4038
REQUESTING DEPT: PURCHASING

TITLE OF BID: PRE FAB METAL BUILDING
AT STAMFORD HIGH SCHOOL
FOR STAMFORD PUBLIC SCHOOLS

BID OPENING: DATE: THURSDAY APRIL 21, 2022
TIME: 2:30 P.M.
PLACE: PURCHASING, 3rd FLOOR
888 Washington Boulevard
Stamford, CT 06901

MANDATORY:
PRE-BID WALK THRU: DATE: MONDAY APRIL 11, 2022
TIME: 10:00 A.M.
PLACE: 57 HOLCOMB AVE
STAMFORD, CT 06903

4 COPIES OF RESPONSE REQUIRED

This Bid Specification was prepared to solicit sealed bids on behalf of the Stamford Public School Facilities Department from qualified responsible contractors for the installation of a Pre Fab metal building. Contractor shall be fully licensed and insured. The scope of work is delineated in the attached drawings provided for this project. All terms and conditions, construction drawings, specifications, and bid forms are attached hereto. The lowest responsible bidder may be required to attend a meeting with District officials prior to the awarding of the bid contract.
Stamford Public Schools (SPS) is soliciting sealed bids from qualified responsible contractors for the installation of a Pre Fab metal building at Stamford High School. The district is looking for a General Contractor to oversee all aspects of construction and are anticipating foundation work to begin in the summer of 2022. Examples of these specific works are outlined in more detail in “Scope of Work” in section C and in “Exhibit A & Exhibit B.”

- Bids/Requests for proposals will be available at the purchasing department section of the Stamford Public Schools (SPS) website: https://www.stamfordpublicschools.org/district/finance-purchasing/pages/ rfps-and-bids starting Friday April 1, 2022.

- Contracts shall be awarded to the individual, contractor (s), or organization whose proposal best meets all criteria listed in the bid. The lowest responsible bidder may be required to attend a meeting with District officials prior to the awarding of the bid contract.

- Proposals must be sealed and received by Thursday April 21, 2022 at 2:30 P.M.

- Upon successful selection of a vendor, an award notification will be posted online at: https://www.stamfordpublicschools.org/district/finance-purchasing/pages/ rfp-contract-award-notification

- Insurance Requirements: The selected proposer, upon the signing of the formal contract, will be required to deliver an insurance certificate in amounts, companies, and terms acceptable to the Risk Manager of the City of Stamford. Also, the District reserves the right to modify the insurance coverage amounts as well as policy types prior to the development of a contract. (See section A.5 for further info)

- Rejection of Proposals
Stamford Public Schools reserves the right to reject for any reason deemed to be in the District’s best interest any and/or all proposals submitted under this Bid.

- Negotiated Changes
In the event negotiated changes occur after the awarding of the contract, the same pricing policies called for in the original contract will remain in effect.

- Selection Committee
For requests for proposals for services anticipated to exceed $100,000, a selection committee shall be formed to review all proposals. The selection committee shall, if possible, interview the most qualified proposers. Bids over $100,000 will require SPS Board of Education approval.
A. General Contract Information

1. Awarding the Contract (s)
The contract/s shall be awarded to the proposer whose proposal is deemed by the department head and/or selection committee to best provide the services desired, taking into account the requirements, terms and conditions contained in the bid proposals and the criteria for evaluating proposals. The SPS reserves the right to award this contract to one or multiple vendors provided that one vendor is financially beneficial to the district.

2. Contract Agreement
The successful bidder will be required to enter into an Agreement with Stamford Public Schools for the completion of the contract. If so, a sample copy of the Agreement is available at the following website:
The specifications of the proposal and the purchase order issued to the proposer shall serve as a contract where no formal written contract is required.

3. Terms of Agreement
The Agreement and pricing shall remain in effect for the fiscal year of 2022-2023 beginning July 1, 2022 until the project is completed. Thereafter, the Agreement shall remain in effect until such time that either party gives sixty (60) business days prior written notice of its intent to either extend or terminate the Agreement.

4. Cancellation of the Contract
The Stamford Public Schools (SPS) reserves the right to cancel this contract, at any time, with sixty (60) days prior written notice to the consultant or organization, should any of the following conditions exist:

- Funds are not appropriated by the City of Stamford for the continuation of this contract
- The Stamford Public Schools (SPS), through changes in its requirements, method of operation, or program operation no longer has a need for the commodity or service.
• If the Contractor fails to fulfill its obligations under this contract properly and on time, or otherwise violates any provision of the contract, Stamford Public Schools may terminate the contract by written notice to the Contractor.

• As indicated in “sample contract on page 3” the SPS reserves the right to cancel for either cause or convenience.

5. **Provision for Required Insurance**

The Vendor shall maintain insurance, which complies with the insurance requirements contained in this Contract between the Stamford Public Schools, Stamford, Connecticut and the vendor. Such insurance required to be maintained by the vendor shall include:

1. General liability, which contains limits of liability of $1,000,000/$2,000,000 combined single limit per occurrence and aggregate for property damage and bodily injury. Such insurance shall contain operations liability, contractual liability, which covers any indemnities contained in this Contract, personal injury and advertising liability and completed operations and products liability.

2. If working with children, sexual abuse and molestation coverage, which may be included in the general liability policy or be a standalone policy, with a minimum limit of liability of $1,000,000.

3. Workers’ compensation and employers liability, which covers the employees of the Vendor, if applicable. Employer’s liability insurance, which contains limits of liability of not less than $100,000 each accident, $100,000 disease policy limit and $100,000 disease – each employee.

4. Professional liability, which covers the professional services of the Vendor - $1,000,000.

The Stamford Public Schools, the City of Stamford and their employees, agents and officers shall be designated as additional insureds under the general liability policy. All insurance maintained by the Vendor shall be primary insurance, not excess or concurrent, with any insurance maintained by or on behalf of the Stamford Public Schools or City of Stamford. The Vendor agrees to hold the Stamford Public Schools, the City of Stamford, and their employees, agents, and officers, safe and harmless from liability during the performance of this contract, and provide a waiver of subrogation in favor of the Stamford Public Schools, the City of Stamford, and their employees, agents and officers. The Vendor shall provide the Stamford Public Schools with evidence of insurance, which complies with the insurance requirements hereunder.

6.1 **Non-Discrimination**

(a) The contractor agrees and warrants that in the performance of the contract, it will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religious creed, age, marital status, national origin, ancestry, sex, sexual orientation, mental retardation or physical disability, including, but not limited to, blindness, unless it is shown by such contractor that such disability prevents performance of
the work involved, in any manner prohibited by the laws of the United States or of the state of Connecticut. If the contract is for a public works project, the contractor agrees and warrants that it will make good faith efforts to employ minority business enterprises as subcontractors and suppliers of materials on such project. The contractor further agrees to take affirmative action to ensure that applicants with job-related qualifications are employed and that employees are treated when employed without regard to their race, color, religious creed, age, marital status, national origin, ancestry, sex, sexual orientation, mental retardation, or physical disability, including, but not limited to, blindness, unless it is shown by such contractor that such disability prevents performance of the work involved;

(b) The contractor agrees, in all solicitations or advertisements for employees placed by or on behalf of the contractor, to state that it is an "Affirmative Action-Equal Opportunity Employer" in accordance with regulations adopted by the Connecticut Commission on Human Rights and Opportunities ("CCHRO");

(c) The contractor agrees to provide each labor union or representative of workers with which such contractor has a collective bargaining agreement or other contract or understanding and each vendor with which such contractor has a contract or understanding, a copy of these provisions, advising the labor union or worker's representative of the contractor's commitments under these provisions and to post copies of the notice in conspicuous places available to employees and applicants for employment;

(d) The contractor agrees to comply with each provision of this section and Conn. Gen. Stat. Sections 4a-62, 32-9e, 46a-56 and 46a-68b to 46a-68k, inclusive, and with each regulation or relevant order issued by said CCHRO;

(e) The contractor agrees to provide the SPS with such information requested by the SPS, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the contractor.

6.2 Prime Contractor Responsibility

Vendors submitting proposals to this Bid may utilize the services of subcontractors. If subcontractors are planned to be used, this should be clearly explained in the proposal. The prime Proposer will be responsible for the entire contract performance whether or not a subcontractor is to perform.

All corporate information in this Bid must be included for each proposed subcontractor. The Bid must also include copies of any agreements to be executed between the prime Proposer and any subcontractors in the event of contract award. Under this Bid, the Stamford Public Schools retains the right to approve all subcontractors.

6.3 Subcontractors

The contractor shall include the provisions of subsection (6 and 6.1) in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the SPS and such provisions shall be binding on a subcontractor, vendor or manufacturer unless exempted by regulations or orders of the CCHRO. The contractor shall take such action with respect to
any such subcontract or purchase order as the SPS may direct as a means of enforcing such provisions.

The contractor agrees to comply with the CCHRO’s requirements as they exist on the date of this contract and as they may be adopted or amended from time to time during the term of this contract and any amendments thereto.

6.4 Ambiguity in the Bid Specification

Prior to submitting the Bid, the contractor is responsible to bring to the SPS’ attention any ambiguity in this Bid. Failure to do so shall result in the contractor forfeiting any claim for adjustment based on such ambiguity as should have been noted by a prudent contractor.

In the event of any ambiguity between the SPS’ Bid and the proposer’s Bid, then whatever shall be more favorable to the Stamford Public Schools as determined in the sole discretion of the SPS shall prevail and take precedence.

6.5 Ownership Information

The Stamford Public Schools shall have unlimited rights to use, disclose, or duplicate, for any purpose whatsoever, all information developed, derived, documented or furnished by the contractor under any contract resulting from this Bid.

In the event of contract award, all data collected and other documentation procured as part of the contract will become the exclusive property of the Stamford Public Schools and may not be copied or removed by any employee of the contractor without written permission of the Stamford Public Schools.

6.6 Proprietary Information

The Stamford Public Schools will not disclose any portion of the Bids except to members of the Bid evaluation team prior to contract award. The Stamford Public Schools retains the right to disclose the name of the successful proposer, the amount of contract, and any other information in the proposal that is pertinent to the selection of the contractor.

6.7 Independent Project Cost Determination and Gratuities

By submission of an offer, the proposer certifies, that in connection with this Bid:

• The costs in this offer have been arrived at independently, without consultation, communication or agreement, for the purposes of restricting competition, as to any matter relating to such prices with any other proposer or competitor.
• The prices quoted in this offer will not change for a period of one hundred and twenty (120) days after the receipt date at the Stamford Public Schools of this offer.
• Unless otherwise required by law, the costs which have been quoted in this offer have not been knowingly disclosed by proposer and will not knowingly be disclosed by the proposer prior to award, directly or indirectly to any other proposer or to any competitor.
• No attempt has been made or will be made by the proposer to induce any other person or firm to submit or not to submit an offer for the purpose of restrictive competition.
• No elected official or appointed official or employee of the Stamford Public Schools or the City of Stamford shall benefit financially or materially from any contract awarded pursuant to this Bid.

6.8 Gifts

During the term of this contract, including any extensions, the Contractor shall refrain from making gifts of money, goods, real or personal property or services to any appointed or elected official or employee of the City of Stamford or the Stamford Board of Education (“BOE”) or any appointed or elected official or employee of their Boards, Commissions, Departments, Agencies or Authorities. All references to the Contractor shall include its officers, directors, employees, and owners of more than 5% equity in the contractor. Violation of this provision shall constitute a material breach of this Agreement, for which this Agreement may be summarily terminated.

6.9 Incurring Cost

The Stamford Public Schools will not be held responsible for any costs incurred by the proposer for work performed in preparation and production of a Bid or for any work performed prior to the issuance of a contract.

6.10 Student Data Privacy

To effect the transfer of data subject to FERPA, the Contractor agrees and acknowledges as follows:

A. The Contractor shall ensure compliance in all respects with the provisions of the Family Educational Rights and Privacy Act of 1974, 20 U.S.C. 1232g, (“FERPA”) including any amendments or other relevant provisions of federal law, as well as all requirements of Chapter 99 of Title 34 of the Code of Federal Regulations. Nothing in this Agreement may be construed to allow either party to maintain, use, disclose or share student information in a manner not allowed by federal or state law or regulation.

B. Student information, student records and student-generated content, as those terms are defined pursuant to Connecticut General Statutes §10-234aa (collectively “student data”), are not the property or under the control of the Contractor;

C. The Board shall have access to and may request the deletion of student data in the possession of the Contractor except when such data is (A) otherwise prohibited from deletion or required to be retained under state or federal law, or (B) stored as a copy as part of a disaster recovery storage system and that is (i) inaccessible to the public, and (ii) unable to be used in the normal course of business by the Contractor, provided the Board may request the deletion of any such student data if such copy has been used by the operator to repopulate accessible data following a disaster recovery; at any time by notifying Contractor, in writing, of such request and identifying the information to be deleted;
D. The Contractor shall not use student data for any purposes other than those authorized pursuant to this Agreement with the Board;

E. The procedures by which a student, parent or legal guardian of a student may review personally identifiable information contained in student data and correct erroneous information, if any, in such student record is set forth in Board Policy, with specific reference to Policy 5115 (as may be amended from time to time) and its associated Regulation(s), a copy of which may be found at http://www.stamfordpublicschools.org/district/board-education/pages/policy-handbook.

F. The Contractor shall take actions designed to ensure the security and confidentiality of student data;

G. The Contractor shall adhere to the following procedures to notify the Board in the event that there has been an unauthorized release, disclosure or acquisition of student data:
   a. Upon the discovery of a breach of security that results in the unauthorized release, disclosure or acquisition of student information, excluding any directory information contained in such student information, the Contractor shall notify, without unreasonable delay, but not more than thirty days after such discovery, the Board in writing through the Superintendent of Schools of such breach of security. During such thirty-day period, the Contractor may (A) conduct an investigation to determine the nature and scope of such unauthorized release, disclosure or acquisition, and the identity of the students whose student information is involved in such unauthorized release, disclosure or acquisition, or (B) restore the reasonable integrity of the Contractor's data system.

   b. Upon the discovery of a breach of security that results in the unauthorized release, disclosure or acquisition of directory information, student records or student-generated content, the Contractor shall notify, without unreasonable delay, but not more than sixty days after such discovery, the Board of such breach of security. During such sixty-day period, the Contractor may (A) conduct an investigation to determine the nature and scope of such unauthorized release, disclosure or acquisition, and the identity of the students whose directory information, student records or student-generated content is involved in such unauthorized release, disclosure or acquisition, or (B) restore the reasonable integrity of the Contractor's data system.

H. Student data shall not be retained or available to the Contractor upon expiration of the Agreement between the Contractor and the Board, except a student, parent or legal guardian of a student may choose to independently establish or maintain an electronic account with the Contractor after the expiration of such Agreement for the purpose of storing student-generated content.

I. All student-generated content shall be the property of the student or the parent or legal guardian of the student.

J. The Contractor shall implement and maintain security procedures and practices designed to protect student information, student records and student-generated content from
unauthorized access, destruction, use, modification or disclosure that, based on the sensitivity of the data and the risk from unauthorized access, (1) use technologies and methodologies that are consistent with the guidance issued pursuant to section 13402(h)(2) of Public Law 111-5, as amended from time to time, (2) maintain technical safeguards as it relates to the possession of student records in a manner consistent with the provisions of 45 CFR 164.312, as amended from time to time and (3) otherwise meet or exceed industry standards.

K. The Contractor shall not use (1) student data for any purposes other than those authorized pursuant to this Agreement, or (2) personally identifiable information contained in student data to engage in targeted advertising.

L. The parties agree that this Agreement controls over any inconsistent terms of conditions contained within any other agreement entered into by the parties concerning student data.

M. If a court of competent jurisdiction finds that any provision of this Agreement is invalid, illegal or unenforceable, in any respect, then such invalidity, illegality or unenforceability shall not affect or impair any other remaining provisions of this Agreement, which shall remain in full force and effect. Moreover, if a court of competent jurisdiction finds that any provision of this Agreement is excessively broad, then such provision shall be construed by limiting it so as to be enforceable to the extent compatible with applicable law.

N. If a court of competent jurisdiction finds that any provision of this Agreement is invalid, illegal or unenforceable, in any respect, then such invalidity, illegality or unenforceability shall not affect or impair any other remaining provisions of this Agreement, which shall remain in full force and effect. Moreover, if a court of competent jurisdiction finds that any provision of this Agreement is excessively broad, then such provision shall be construed by limiting it so as to be enforceable to the extent compatible with applicable law.

6.11 Code of Ethics

Vendor shall comply with the Stamford Municipal Code of Ethics as codified in Chapter 19 of the City of Stamford Code of Ordinances and shall be considered an “employee”, as defined in that Chapter, strictly for the purpose of compliance thereto. Vendor is prohibited from using its status as a vendor to derive any interest(s) or benefit(s) from other individuals or organizations.

6.12 Off Contract Purchase

The District reserves the right to purchase items and/or products covered by this agreement from alternate sources, should, during the term of this agreement, the District obtain more favorable pricing from those alternate sources or determine that it is in its best interest to purchase an item from an alternate source. This Contract is not an exclusive Contract.

6.13 Information on Bidders’ Background

In addition to the specific information required to be submitted in direct response to this procurement, the Stamford Public Schools reserves the right to request certain additional
information from any/all bidders, such as Dunn & Bradstreet reports, certified financial statements, lists and details on equipment and other important and necessary information and documents that will serve the best interest of the City, in the opinion of Superintendent of Schools and/or of the Purchasing Agent, in determining the capabilities of a contractor.

6.14 Independent Contractor Status

It is the intent of this Bid that the successful bidder is an independent contractor, and not an employee or agent. Nothing in this Bid or the contract to be signed shall be interpreted or construed as creating or establishing the relationship of employer and employee between the Stamford Public Schools and the Agency, or any employee or agent of the Agency, or between the Agency and any agent or employee of the Board. Both parties acknowledge that the Agency will not be an employee for federal or state tax purposes.

B. BACKGROUND

SPS serves some 17,000 students in 22 schools, grades Pre K – 12. The district, which encompasses 2,850,000 square feet of space, contains 13 elementary schools. Of the existing 13 elementary schools, 11 include grades K-5, the new school is K-3 and one includes grades K-8; five middle schools with grades 6-8, and three high schools. Included in this mix are five magnet elementary schools, one magnet middle school, two large comprehensive high schools, a magnet technology and engineering high school, and two alternative high school programs.

C. SCOPE OF WORK

The proposed building will be a single story building with no basement. The proposed building will be erected east of the existing storage building. The structure of the building, the fasteners and the insulation has already been purchased by Stamford Public Schools, and is currently in storage in Connecticut. The building will be L-shaped and will have a footprint of approximately 2,460 square feet. See Exhibits A & B for a complete scope of the project.

D. PLACE OF WORK

Boyle Stadium, 57 Holcomb Ave., Stamford, CT 06902.

E. SUBMISSION OF QUESTIONS

Questions relating to this bid proposal must be submitted in writing (E-MAIL ONLY) to the following address no later than Friday April 15, 2022:

Stamford Public Schools
Andrew Glassman
Facility Manager
aglassman@stamfordct.gov
F. **BID SUBMISSION**

Four (4) complete sets of the proposal along with one (1) electronic copy (USB Drive) are to be submitted in a sealed envelope and received by the Purchasing Department, 3rd Floor, by Thursday April 21, 2022 at 2:30 pm, and listing the following information on the outside of the envelope: B-4038 | Bidder’s name and address | Proposal Due date. No telephone, electronic, or facsimile Bids will be considered. No Bids will be accepted after this time.

- Send your Bid to the attention of:

  Stamford Public Schools  
  Attn: 3rd Floor, Purchasing | B-4038 Pre Fab Metal Building  
  888 Washington Blvd.  
  Stamford, CT 06901

**Due Date:** Bids must be received by 2:30 pm on Thursday April 21, 2022. 
*Any bid received after the date and time specified shall not be accepted and shall be returned unopened.*

The Bid should include:

1. **Tax Exempt**
   The Stamford Public Schools is exempt from the payment of taxes imposed by the Federal Government and/or State of Connecticut. Such taxes must not be included in the bid price.

2. The **“Official Response Form/Bid Form”** attached must be completed.

3. The **“Non-Collusion Affidavit”** attached must be completed.

4. The **“Contractor’s Statement”** attached must be completed.

5. The **“Contractor’s Verification”** attached must be completed.

6. The **“Notice To Bidders”**

7. All material submitted in response to this bid will become public record and will be subject to inspection after Intent to Award notice is issued. Any material requested to be treated as proprietary or confidential must be clearly identified and easily separable from the rest of the Bid.

8. A Bid submitted in response to the bid shall constitute a binding offer. The autographic signature of the proposer shall indicate acknowledgement of this condition, or an officer legally authorized to execute contractual obligations. A submission in response to the bid acknowledges acceptance by the Proposer of all terms and conditions including compensation, as set forth herein. An Offeror shall identify clearly and thoroughly any variations between its Bid and the SPS’s bid. Failure to do so shall be deemed a waiver of any rights to subsequently modify the terms of performance, except as outlined in the bid.

*Failure to comply with all submission requirements may result in reduction of 5-10 points off the “Matrix of Qualifications” score. For instance, not submitting an electronic copy (USB Drive).*
G. OFFICIAL RESPONSE FORM/BID FORM

Name of Consultant/Vendor _______________________________________________

Name/Title of Primary contact person ________________________________________

Address of Vendor _______________________________________________________

Phone Number of Vendor __________________________________________________

Contact Person e-mail for follow-up _________________________________________

Number of Years’ providing similar work: ___________ years

List of School/City based references for contracts of a similar nature, including contact names, school district and phone numbers (Contract size can be either # students served or annual dollar amount)

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<th>Reference District</th>
<th>Contact Name</th>
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<th>E-mail</th>
<th>Contract Size</th>
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PRICING STRUCTURE

The undersigned, having familiarized himself with the existing conditions affecting the work and with the Drawings and Addenda, if any thereto, hereby propose to construct and complete the Project listed above, all in accordance therewith for the Lump Sum listed of:

Lump Sum: $ __________________________________________________________ (Total Lump Sum)

Estimated time of completion after receiving purchasing order:

____________________________________________________________________________

____________________________________________________________________________

Acknowledged receipt of Addenda number (s) and date #_______ Date: _____/_____/______
H. 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 Bid 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 Bid, 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 Bid for the purpose of restricting competition.

Name of Proposer: ________________________________

By: ________________________________

Print Name: ________________________________

Title: ________________________________
STATE OF CONNECTICUT
Contractor Verification
(in accordance with Public Act 16-67)

Directions to Contractor: Connecticut law requires that any contractor applying or bidding for a contract (including individuals who are independent contractors) with a local or regional board of education, a governing council of a state or local charter school, or inter-district magnet school operator require any employee with the contractor who would be in a position involving direct student contact to supply the contractor with the information provided in this form. Information may be collected either through a written communication or telephonically.

In addition, pursuant to Connecticut General Statutes (C.G.S.) § 10-222c, the contractor is required to contact – either telephonically or through written communication – any current or former employer of an employee if such employer was a local or regional board of education, a governing council of a state or local charter school, or inter-district magnet school operator or if the employment caused the employee to have contact with children, to request any information concerning whether there was a finding of abuse or neglect or sexual misconduct against the employee. If the contractor receives any information indicating such a finding, or otherwise has knowledge of such a condition, the contractor must immediately forward such information to any local or regional board of education with which the contractor is under contract.

Directions to Employee of Contractor: Pursuant to Connecticut state law, employees of a contractor who would be in a position involving direct student contact must supply all of the information provided in Section 2 of this form.

Section 1 – To be completed by Contractor

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<th>Name</th>
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<tr>
<td>Street address</td>
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<tr>
<td>City, State, Zip Code</td>
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<tr>
<td>Contact person</td>
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<td>Telephone number/email address</td>
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Section 2 – To be completed by Employee of Contractor

Part A. On a separate sheet of paper, please list the name, address and telephone number of each current or former employer, if such current or former employer was a local or regional board of education, a governing council of a state or local charter school, or inter-district magnet school operator, or if such employment otherwise caused you to have contact with children.

Part B. Please complete the questions below in their entirety.

Have you ever:

Y  N  Been the subject of an abuse or neglect or sexual misconduct investigation by any employer, state agency or municipal police department (answer “no” if the investigation resulted in a finding that all allegations were unsubstantiated)?

Y  N  Been disciplined or asked to resign from employment or resigned from or otherwise separated from any employment while an allegation of abuse or neglect was pending or under investigation by the Department of Children and Families (the “department”), or an
allegation of sexual misconduct was pending or under investigation or due to an allegation substantiated pursuant to section 17a-101g of abuse or neglect, or of sexual misconduct or a conviction for abuse or neglect or sexual misconduct?

Y  N

Had a professional or occupational license or certificate suspended or revoked or ever surrendered such a license or certificate while an allegation of abuse or neglect was pending or under investigation by the department or an investigation of sexual misconduct was pending or under investigation, or due to an allegation substantiated by the department of abuse or neglect or of sexual misconduct or a conviction for abuse or neglect or sexual misconduct?

Part C – Written Consent and Disclosure Authorization. I hereby authorize the entities I have listed in Section 2 of this form to release to the entity listed in Section 1 of this form the information required to be released by my previous employer pursuant to (C.G.S.) § 10-222c along with any related records. I hereby consent to and authorize disclosure by the State Department of Education of the information requested pursuant to C.G.S. § 10-222c, as amended by Public Act 16-67, and I hereby authorize the release by the State Department of Education of any related records. I further hereby release the above-named employer(s) and the State Department of Education from any and all liability of any kind that may arise from the disclosure or release of records requested pursuant to C.G.S. § 10-222c, as amended by Public Act 16-67.

________________________________________  __________________________________
Signature of Applicant      Date

NOTES:
The terms provided below are currently defined in state law as follows. Please note that statutes may be amended from time to time.

Sexual Misconduct means – “any verbal, nonverbal, written or electronic communication, or any other act directed toward or with a student that is designed to establish a sexual relationship with the student, including a sexual invitation, dating or soliciting a date, engaging in sexual dialog, making sexually suggestive comments, self-disclosure or physical exposure of a sexual or erotic nature and any other sexual, indecent or erotic contact with a student.” Connecticut General Statutes § 10-222c(k).

Abuse or neglect means – “abuse or neglect as described in Section 46b-120, and includes any violation of Sections 53a-70, 53a-70a, 53a-71, 53a-72a, 53a-72b or 53a-73a.” Connecticut General Statutes § 10-222c(k).

The Connecticut State Department of Education is an affirmative action/equal opportunity employer and does not discriminate on the basis of race, color, religion, sex, gender identity or expression, sexual orientation, marital status, national origin, ancestry, age, criminal record, political beliefs, genetic information, intellectual disability, past or present history of mental disability, learning disability, or physical disability, including, but not limited to, blindness or any other basis prohibited by Connecticut state and/or federal nondiscrimination laws.
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 venturers, 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 stock. If any of said stockholders is a holding corporation, the names and addresses of all persons owning a beneficial interest in over 10% of the common or preferred stock of said holding company.

______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________

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

______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________

Name of
Bidder/Proposer: ________________________________

Signature of Bidder/Proposer: ________________________________

Title: __________________________________________

Company Name: ______________________________________

Address: ____________________________________________
NOTICE TO BIDDERS

1. All bids will be opened promptly at the advertised time of opening. There can and will be no delays or postponements which are not publicly advertised. Any bid received after the advertised time of opening cannot be accepted.

2. Obligation of bidders:
   At the time of opening bids, each bidder shall be presumed to have inspected the site, and to have read and made himself thoroughly familiar with the plans and contract documents including all addenda. The failure or omission of any bidder to receive or examine any form, instrument or document shall in no way relieve any bidder from any obligation in respect to his bid.

   Each bidder must fully inform himself of the construction and labor conditions relating to the work which is now or will be performed. Failure to do so will not relieve the successful bidder of his obligation to furnish all labor and materials necessary to carry out the provision of the contract documents and to complete the contemplated work. Inasmuch as possible, the contractor must, in carrying out his work, employ such methods or means as will not cause any interruptions or interference with the work of any other contractor.

SAMPLE

CORPORATE

RESOLUTION

NEXT PAGE
CORPORATE RESOLUTION

DATE: ________________________________

We, the undersigned, being all the Directors of ____________________________, organized and

(Name of company)

existing under the laws of ____________________________, and having its principal place of business at

(State)

(Company’s Address)

hereby certify that the following individuals are representatives of the company who can execute
documents.

<table>
<thead>
<tr>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

CLEAR FORM

Hover over text boxes above to know what to input

PRINT
EXHIBIT A
1. The Contractor is required to obtain all necessary permits and clearances prior to commencing work. The Contractor shall comply with all laws, codes, and ordinances applicable to the work.

2. The Contractor shall arrange for testing of all materials and work as required by the City of Stamford. All materials and work shall be in compliance with the latest edition of the CT DOT Form 818.

3. Refer to drawings by Thomas A. Torrenti, P.C. for information regarding the Building Foundation Design.

4. Dust control to be achieved with watering down disturbed areas as required.

5. Additional sediment and erosion control measures may be installed during the construction period if found necessary.

6. The Contractor is responsible for coordinating with a licensed surveyor to prepare an Improvement Location Survey.

7. Areas of asphalt pavement that are disturbed by the construction of this project shall be replaced in accordance with Sections 8.15 and M.04 of the CT DOT Form 818.

8. Saw cut perimeter of area to be excavated. Saw cut shall be straight and vertical.

9. The Contractor shall arrange for testing of all materials and work as required by the City of Stamford. All materials and work shall be in compliance with the latest edition of the CT DOT Form 818.

10. Proper cutting is required to obtain all necessary permits and clearances prior to commencing work. The Contractor shall comply with all laws, codes, and ordinances applicable to the work.

11. The Contractor shall arrange for testing of all materials and work as required by the City of Stamford. All materials and work shall be in compliance with the latest edition of the CT DOT Form 818.

12. The Contractor is responsible for coordinating with a licensed surveyor to prepare an Improvement Location Survey.

13. Areas of asphalt pavement that are disturbed by the construction of this project shall be replaced in accordance with Sections 8.15 and M.04 of the CT DOT Form 818.

14. Saw cut perimeter of area to be excavated. Saw cut shall be straight and vertical.

15. The Contractor shall arrange for testing of all materials and work as required by the City of Stamford. All materials and work shall be in compliance with the latest edition of the CT DOT Form 818.

16. The Contractor is responsible for coordinating with a licensed surveyor to prepare an Improvement Location Survey.

17. Areas of asphalt pavement that are disturbed by the construction of this project shall be replaced in accordance with Sections 8.15 and M.04 of the CT DOT Form 818.

18. Saw cut perimeter of area to be excavated. Saw cut shall be straight and vertical.

19. The Contractor shall arrange for testing of all materials and work as required by the City of Stamford. All materials and work shall be in compliance with the latest edition of the CT DOT Form 818.

20. The Contractor is responsible for coordinating with a licensed surveyor to prepare an Improvement Location Survey.

21. Areas of asphalt pavement that are disturbed by the construction of this project shall be replaced in accordance with Sections 8.15 and M.04 of the CT DOT Form 818.

22. Saw cut perimeter of area to be excavated. Saw cut shall be straight and vertical.

23. The Contractor shall arrange for testing of all materials and work as required by the City of Stamford. All materials and work shall be in compliance with the latest edition of the CT DOT Form 818.

24. The Contractor is responsible for coordinating with a licensed surveyor to prepare an Improvement Location Survey.

25. Areas of asphalt pavement that are disturbed by the construction of this project shall be replaced in accordance with Sections 8.15 and M.04 of the CT DOT Form 818.

26. Saw cut perimeter of area to be excavated. Saw cut shall be straight and vertical.

27. The Contractor shall arrange for testing of all materials and work as required by the City of Stamford. All materials and work shall be in compliance with the latest edition of the CT DOT Form 818.

28. The Contractor is responsible for coordinating with a licensed surveyor to prepare an Improvement Location Survey.

29. Areas of asphalt pavement that are disturbed by the construction of this project shall be replaced in accordance with Sections 8.15 and M.04 of the CT DOT Form 818.
STABILIZED CONSTRUCTION ENTRANCE
(STOCKPILE PAD)

INLET SEDIMENT CONTROL DEVICE
(SILT BAG)

ASPHALT PAVEMENT DETAIL

BITUMINOUS CONCRETE LIP CURBING

FABRIC & POST SEDIMENTATION BARRIER
(SILT FENCE)

SEDIMENT FILTER FOR STOCK PILE ON PAVEMENT

SEDIMENT FILTER FOR CATCH BASINS AT CURB

CONDUIT TRENCH DETAIL
(SAND BEDDING)

NOTES:
1. IF 24" OF COVER CANNOT BE OBTAINED OVER THE CONDUIT, CONDUIT SHALL BE CONCRETE ENCASED.
2. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
3. DESIGNED IN ACCORDANCE WITH SECTION 15.B OF THE STAMFORD ZONING REGULATIONS ("FLOOD PRONE AREA REGULATIONS OF THE CITY OF STAMFORD") AND CAPABLE OF WITHSTANDING THE FLOOD DEPTHS, PRESSURES, VELOCITIES, IMPACT AND UPLIFT FORCES AND OTHER FACTORS ASSOCIATED WITH THE BASE FLOOD.
## PIPE AND FITTING SCHEDULE

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Type</th>
<th>Material</th>
<th>Size</th>
<th>Description</th>
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</thead>
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<td>1</td>
<td>Unspecified</td>
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## VALVE SCHEDULE

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<th>Material</th>
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</tr>
<tr>
<td>2</td>
<td>2</td>
<td>Unspecified</td>
<td>3&quot;</td>
<td>Schedule 40, SCH 40, SCH 80, SCH 160, SCH XXS, SCH XS, SCH STD, SCH MM, SCH XS, SCH STD, SCH MM, SCH XXS</td>
</tr>
</tbody>
</table>

## PLUMBING JOINT TYPE LEGEND

- A: threaded joint
- B: flanged joint
- C: socket weld joint
- D: expansion joint
- E: union joint
- F: soldered joint
- G: compression joint
- H: grooved joint
- I: spool joint
- J: reducing joint
- K: reducing union joint
- L: reducing reduced joint
- M: reducing reduced union joint
- N: reducing reducing joint
- O: reducing reducing union joint
- P: reducing reducing reduced joint
- Q: reducing reducing reducing joint
- R: reducing reducing reducing reducing joint
- S: reducing reducing reducing reducing reducing joint
- T: reducing reducing reducing reducing reducing reducing joint
- U: reducing reducing reducing reducing reducing reducing reducing joint
- V: reducing reducing reducing reducing reducing reducing reducing reducing joint
- W: reducing reducing reducing reducing reducing reducing reducing reducing reducing joint
- X: reducing reducing reducing reducing reducing reducing reducing reducing reducing reducing joint
- Y: reducing reducing reducing reducing reducing reducing reducing reducing reducing reducing reducing joint
- Z: reducing reducing reducing reducing reducing reducing reducing reducing reducing reducing reducing reducing joint

---

SILVER / PETRICELLI + ASSOCIATES
55 Strawberry Hill Avenue
Stamford, Connecticut 06902

Stamford Public Schools
Stamford High School Storage Building
15 Strawberry Hill Avenue
Stamford, Connecticut 06902

Plumbing Schedules & Notes

Date: [Date]

[Signatures]

[Stamp]
EXHAUST FAN SCHEDULE

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>TYPE</th>
<th>LN</th>
<th>volts</th>
<th>hp</th>
<th>rpm</th>
<th>MEASUREMENTS</th>
<th>INSTALLATION</th>
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<tbody>
<tr>
<td>EF-1</td>
<td>LOUVER COVE</td>
<td>105520</td>
<td>1922</td>
<td>1325</td>
<td>120</td>
<td>1</td>
<td>1/8</td>
<td>50</td>
<td>1,2,3,4,5</td>
</tr>
<tr>
<td>EF-2</td>
<td>LOUVER COVE</td>
<td>105520</td>
<td>1496</td>
<td>720</td>
<td>1500</td>
<td>1</td>
<td>1/8</td>
<td>50</td>
<td>1,2,3,4,5</td>
</tr>
</tbody>
</table>

REMARKS:
1. OFFSET FROM STRUCTURE, FRAME WITH MINIMUM CLEARANCE AND GENERALLY SUPPORT
2. EXHAUSTED SIDE FOR THE LOCAL AIR EXHAUST
3. INSTALL IN ACCORDANCE WITH MANUFACTURER'S DOCUMENTATION
4. PROVIDE VENTILATION CLOTH
5. PROVIDE AERIAL CONNECTION ON OUTSIDE CONNECTION TO ALL PANS.

ELECTRIC UNIT HEATER SCHEDULE

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>MANUFACTURER</th>
<th>MODEL #</th>
<th>INPUT</th>
<th>HP</th>
<th>VOLT</th>
<th>AMP</th>
<th>HEAT</th>
<th>TEMPERATURE</th>
<th>INSTALLATION</th>
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<tbody>
<tr>
<td>H-1</td>
<td>MODINE</td>
<td>M-101</td>
<td>240V</td>
<td>1</td>
<td>413</td>
<td>0.85</td>
<td>1275</td>
<td>150°F</td>
<td>1,2,3,4,5</td>
</tr>
<tr>
<td>H-2</td>
<td>MODINE</td>
<td>M-101</td>
<td>240V</td>
<td>1</td>
<td>413</td>
<td>0.85</td>
<td>1275</td>
<td>150°F</td>
<td>1,2,3,4,5</td>
</tr>
<tr>
<td>H-3</td>
<td>MODINE</td>
<td>M-101</td>
<td>240V</td>
<td>1</td>
<td>413</td>
<td>0.85</td>
<td>1275</td>
<td>150°F</td>
<td>1,2,3,4,5</td>
</tr>
<tr>
<td>H-4</td>
<td>MODINE</td>
<td>M-101</td>
<td>240V</td>
<td>1</td>
<td>413</td>
<td>0.85</td>
<td>1275</td>
<td>150°F</td>
<td>1,2,3,4,5</td>
</tr>
</tbody>
</table>

REMARKS:
1. INSTALL UNIT INSIDE ROOF OR WALL OF MANUFACTURER
2. PROVIDE VENTILATION CLOTH
3. PROVIDE CD DUCTS FOR ALL CONTROLS
4. PROVIDE ELECTRIC CONNECTION FOR ALL CONTROLS

LOUVER SCHEDULE

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>MANUFACTURER</th>
<th>SQUARE</th>
<th>MODEL</th>
<th>探</th>
<th>LENGTH</th>
<th>INSTALLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-1</td>
<td>MODINE</td>
<td>1,926</td>
<td>M-101</td>
<td>50</td>
<td>2</td>
<td>36, 18</td>
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<tr>
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<td>MODINE</td>
<td>1,926</td>
<td>M-101</td>
<td>50</td>
<td>2</td>
<td>36, 18</td>
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<tr>
<td>L-3</td>
<td>MODINE</td>
<td>999</td>
<td>M-101</td>
<td>50</td>
<td>1.5</td>
<td>24, 18</td>
</tr>
<tr>
<td>L-4</td>
<td>MODINE</td>
<td>999</td>
<td>M-101</td>
<td>50</td>
<td>1.5</td>
<td>24, 18</td>
</tr>
</tbody>
</table>

REMARKS:
1. PROVIDE VENTILATION CLOTH
2. ALL LOUVERS SHALL BE ENGINEERED IN TWO PIECE
3. PROVIDE AERIAL CONNECTION FOR ALL CONTROLS
1. Specification sections, General Conditions, Supplemental General Conditions and drawings are integral parts of contract documents.

2. All work and action depicted and described in contract documents to be performed by the contractor unless specifically noted otherwise.

3. Reference to specific subcontractors such as "electrical", etc. are intended to suggest possible division of responsibility.

Prime contractor to be responsible for coordination and execution of all work.

4. Obtain and pay for all required permits and inspections.

5. All equipment, materials and related system components to be new unless otherwise noted.

6. Repair and replace at no cost to owner all equipment and materials damaged during construction.

7. Study the project manual & drawings of other disciplines including civil.

8. Access to and clearances around electrical equipment must conform to N.E.C. Articles 110 and 384. Electrical contractor must consult engineer where space appears inadequate due to architectural changes, equipment layout changes or field conditions. Do not cover, obscure or block access to equipment, data plates, access plates or maintenance areas with the electrical work.

9. Unles noted otherwise, all wiring of circuit must maintain homerun wiring of circuit. Minimum power wiring to be 2#12 & #12G in 3/4" conduit. Minimum control wiring shall be 2#14, 3/4" conduit.

10. Wiring shown on plan is diagrammatic in nature and is not intended to indicate exact wiring conditions. Exact wiring requirements for new circuits shall be determined/verified in field. Refer to riser and details for all required power and control wiring. Coordinate conduit route in field with other trades, equipment and owner. Verify all mounting heights with owner and architect prior to installation.

11. Contractor shall determine the quantity of conductors required for proper operation of all switching schemes.

12. Acceptance testing of the emergency lighting system shall be conducted prior to CO PER IFC 1008.3.4 and 1008.3.5. Refer to drawing E102 for exact locations and additional information.

13. Exit signs and emergency lights are to be wired to the non-switched leg of the local lighting circuit.

14. Coordinate exact location of light fixtures with architectural reflected ceiling plans.

15. Electrical conduits & boxes shall be concealed in walls or above ceilings wherever possible.

16. Contractor shall coordinate the location and quantity of all mechanical equipment with the mechanical contractor. Provide power wiring to all new equipment. Refer to drawing E102 for exact locations and additional information.

17. It is not the intention to show every fitting, hanger, wire or device. All such items shall be furnished and installed as reflected on the drawings.

18. All receptacles located in the six feet of sinks or a water source shall be GFI type.

19. Any duplex outlet or data outlet marked with an "a" shall be mounted at 42" AFF or 6" above the countertop.
E300

Electrical One-Line Power Riser Diagram

Panel: SB1

- Existing Att Pole #4646 located on Holcomb Avenue with Single Phase Power Overhead.
- New Overhead Utility Company Primary Service to Storage Building.
- Provide New 320A Meter Socket on outside of New Storage Building.
- Provide Mast and Weatherhead from Meter Socket for Primary Wiring.
- New 400A, 240/120V, 1Ø, 3W, 42 Circuit Panel "SB1" mounted on inside wall of Storage Building. Panel shall be mounted on 4'x4'x3/4" plywood backboard with two coats of gray paint.
- Provide 3#600MCM & 1#3GND from Meter Socket to Panel "SB1".

Conductor and Conduit Sizing Table, 1Ø

<table>
<thead>
<tr>
<th>Circuit Breaker</th>
<th>Conductor Size</th>
<th>Cu MCM</th>
<th>AL MCM</th>
</tr>
</thead>
<tbody>
<tr>
<td>200A</td>
<td>2.000</td>
<td>1.800</td>
<td>1.400</td>
</tr>
<tr>
<td>150A</td>
<td>1.600</td>
<td>1.380</td>
<td>1.070</td>
</tr>
<tr>
<td>100A</td>
<td>1.250</td>
<td>1.040</td>
<td>0.730</td>
</tr>
<tr>
<td>50A</td>
<td>0.750</td>
<td>0.620</td>
<td>0.410</td>
</tr>
<tr>
<td>25A</td>
<td>0.420</td>
<td>0.330</td>
<td>0.210</td>
</tr>
<tr>
<td>15A</td>
<td>0.280</td>
<td>0.210</td>
<td>0.130</td>
</tr>
<tr>
<td>10A</td>
<td>0.200</td>
<td>0.150</td>
<td>0.090</td>
</tr>
</tbody>
</table>

Notes:
1. All wire sizes are in Copper Conductors.
2. All panels are to be mounted in accordance with the NEC.
3. Provide all necessary conduit for overhead wiring.
4. Provide all necessary conduit for underground wiring.
## Electrical Specifications

### General
- **Circuit Breaker Panel:**
  - Location: [Specify location]
  - Type: [Specify type]
  - Capacity: [Specify capacity]
- **Service Entrance:**
  - Size: [Specify size]
  - Location: [Specify location]
- **Service Entrance Cable:**
  - Type: [Specify type]
  - Size: [Specify size]

### Lighting
- **General Lighting:**
  - Type: [Specify type]
  - Wattage: [Specify wattage]
- **Emergency Lighting:**
  - Location: [Specify location]
  - Type: [Specify type]
  - Battery Backup: [Specify backup]
- **Signage Lighting:**
  - Location: [Specify location]
  - Type: [Specify type]

### Power Distribution
- **Distributed Power:**
  - Type: [Specify type]
  - Capacity: [Specify capacity]
- **Distribution Panels:**
  - Location: [Specify location]
  - Type: [Specify type]
  - Capacity: [Specify capacity]

### Control and Monitoring
- **Control System:**
  - Type: [Specify type]
  - Manufacturer: [Specify manufacturer]
- **Monitoring System:**
  - Type: [Specify type]
  - Manufacturer: [Specify manufacturer]

### Security
- **Intrusion Detection:**
  - Type: [Specify type]
  - Location: [Specify location]
- **Surveillance System:**
  - Type: [Specify type]
  - Location: [Specify location]

### Access Control
- **Access Points:**
  - Number: [Specify number]
  - Type: [Specify type]
- **Access Control System:**
  - Type: [Specify type]
  - Manufacturer: [Specify manufacturer]

### Special Systems
- **Specialty Systems:**
  - Description: [Specify description]
  - Location: [Specify location]

### Conduit and Fittings
- **Conduit:**
  - Type: [Specify type]
  - Size: [Specify size]
  - Material: [Specify material]
- **Fittings:**
  - Type: [Specify type]
  - Size: [Specify size]
  - Material: [Specify material]

### Grounding
- **Grounding System:**
  - Type: [Specify type]
  - Grounding Method: [Specify method]

### Wiring
- **Wiring Methods:**
  - Type: [Specify type]
  - Conduit: [Specify conduit]
  - Cable: [Specify cable]
  - Junction Boxes: [Specify junction boxes]

### Additional Notes:
- [Include any additional comments or notes]

---

**Technical Specifications:**
- **Electrical Load:** [Specify load]
- **Voltage:** [Specify voltage]
- **Frequency:** [Specify frequency]
- **Service Entrance:** [Specify entrance details]

---

**Contact Information:**
- **SILVER / PETRUCELLI + ASSOCIATES**
  - Address: [Specify address]
  - Tel.: [Specify telephone]
  - Fax.: [Specify fax]

---

**Prepared by:** [Name]
**Date:** [Date]

**Reviewed by:** [Name]
**Date:** [Date]
EXHIBIT B
Geotechnical Engineering Report

PROPOSED POLE BARN BUILDING
55 HOLCOMB AVENUE
STAMFORD, CONNECTICUT

March 24, 2017
05.0045994.00

PREPARED FOR:
Board of Education Facilities Department
Stamford, Connecticut

GZA GeoEnvironmental, Inc.
35 Nutmeg Drive, Suite 325 | Trumbull, CT 06611
203-380-8188

28 Offices Nationwide
www.gza.com

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   1.4 SCOPE OF STUDY ........................................................................... 1  

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   2.2 WATER LEVEL READINGS ............................................................... 2  

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# FIGURES

- FIGURE 1 EXPLORATION LOCATION PLAN  
- FIGURE 2 PROPOSED BUILDING FOOTPRINT PLAN  

# APPENDICES

- APPENDIX A LIMITATIONS  
- APPENDIX B TEST BORING LOGS
1.0 INTRODUCTION

1.1 GENERAL

This report presents the results of GZA GeoEnvironmental, Inc.‘s (GZA) subsurface investigation for the proposed pole barn building at 55 Holcomb Avenue in Stamford, Connecticut. GZA’s services were conducted in accordance with our contract for services dated February 23, 2017. This report is subject to the Limitations presented in Appendix A.

1.2 SITE

The site is bordered by Holcomb Avenue to the north, a residential property to the east, the Stamford High School track and football field to the south, and a parking lot to the west. Currently, the site is developed as a paved asphalt parking lot that is used for maintenance vehicles and equipment for the facilities department. A small storage building is located at the northwest corner of the project area. A chain link fence surrounds a portion of the project area that separates the maintenance parking area from other parking areas.

1.3 PROPOSED DEVELOPMENT

The proposed building will be a single story building with no basement. It is our understanding that the proposed building will be erected east of the existing storage building. The proposed building will be L-shaped and will have a footprint of approximately 2,460 square feet. We understand that the building orientation has not been decided. The building footprint plan provided by you is attached as Figure 2.

1.4 SCOPE OF STUDY

This study was conducted in general accordance with our proposal dated February 23, 2016. This study analyzes subsurface information to determine the physical properties and characteristics of subsurface materials and evaluates this information for the purpose of establishing geotechnical design criteria.

Specifically, conclusions and recommendations are presented regarding the following:

1. Foundation type, including allowable bearing pressure.
2. Slabs-on-grade.
4. Lateral earth pressure for design of walls below grade.
5. Site Class and potential for soil liquefaction.
6. Other subsurface conditions that may affect design or construction of the structure.

This report has been prepared for the exclusive use of Board of Education Facilities Department for specific application to the proposed pole barn building at 55 Holcomb Avenue in Stamford, Connecticut, in accordance with generally accepted geotechnical engineering practices in this area. In the event that the nature, design or location of the proposed construction changes, the conclusions and recommendations in this report may no longer be valid.
2.0 GEOTECHNICAL INVESTIGATION

2.1 TEST BORINGS

On March 6, 2017, four test borings (B-1 through B-4) were drilled by Hardiman Company & Associates, Inc., Shelton, Connecticut at the locations shown on the attached Figure 1. The explorations were monitored and logged by GZA personnel. The test boring logs are provided in Appendix A.

The test borings were advanced with 2 1/4 inch I.D. hollow-stem augers that provided cased holes from which samples could be extracted. Samples were taken with a 1 3/8 inch I.D. split-spoon sampler driven (normally) 24 inches into the ground with a 140 lb. hammer falling 30 inches. Blows per 6 inches on the sampler were recorded. The foregoing constitutes a standard penetration test from which relative density and other soil characteristics can be estimated.

The explorations were located by taping from existing site features. Surface elevations were obtained with a survey level. A catch basin located on Holcomb Avenue was used as a benchmark. It is shown on Figure 1. The site datum was not provided and the benchmark location was set to elevation 0 feet. Surface elevations are listed on the logs.

2.2 WATER LEVEL READINGS

Water level readings were taken at the times indicated on the boring logs located in Appendix B. The water level readings were taken when water was encountered or after the test boring was completed. It should be noted that future water levels will vary due to seasonal and climatic fluctuations, changes caused by construction and stabilization time.

3.0 SUBSURFACE CONDITIONS

The explorations provide a generalized subsurface profile consisting, in descending order, of: asphalt, fill with organic inclusions, naturally deposited granular soils, and bedrock. Glacial till was encountered in one of the testing borings. Asphalt was encountered to approximately 3 inches below existing grades. Fill was encountered below the asphalt and extended to depths between 6 and 11.5 feet below existing grades, or elevation between -6 feet and -13.1 feet. The fill generally consisted of sand with varying amounts of silt and gravel. Varying amounts of debris consisting of wood, ash, and organic soils were also encountered in the fill. The relative density of the fill ranged from loose to dense.

Naturally deposited granular soil was encountered below the fill to depths between 15.5 and 20.8 feet below existing grades, or elevations between -16.3 feet and -23.1 feet. A two-inch thick organic silt layer was encountered in test boring B-3 in the naturally deposited granular soils at a depth from 10.5 feet to 10.7 feet below existing grades. The naturally deposited granular soil consisted of medium dense to very dense sand and silt, sand and gravel, and sand. Test boring B-4 encountered auger refusal in the sand and gravel at a depth of 20 feet below existing grades, or elevation -21.3 feet.

Glacial till was encountered in test boring B-1 below the naturally deposited granular soil to a split-spoon refusal depth of 19 feet below existing grade, or elevation -19.8 feet. The till consisted of very dense silty sand with gravel. Decomposed rock was encountered in test borings B-2 and B-3 to split-spoon refusal depths between 20.9 feet and 22 feet, or elevations between -22 and -23.5 feet. Auger or split-spoon refusal was encountered in all test borings. Refusal is likely on bedrock, but may be on boulders. The subsurface conditions are only known at the boring locations and may vary between borings.
3.1 GROUNDWATER

At the time test borings were performed, groundwater was encountered in all test boring at depths between 4 and 5.5 feet below existing grades, or elevations between -4.8 feet and El. -8.1 feet.

4.0 EVALUATION

4.1 GENERAL

The existing fill is not suitable for support of foundations or slabs-on-grade. Construction debris from demolition activities is also considered unsuitable material. These unsuitable materials must be removed and replaced below the building with controlled fill or crushed stone. Alternatively, helical piles could be installed to support the building and slabs.

Controlled fill is herein defined as an inorganic, well-graded granular material with a maximum size of 4", 25% to 70% passing the #4 sieve and less than 10% by weight passing the #200 sieve. Free draining fill is the same as controlled fill except that it should have less than 5% passing the #200 sieve. Controlled and free draining fill is placed and compacted in 8- to 10-inch-thick lifts, with each lift tested to verify that densities of at least 95% of the maximum density, as determined by ASTM D 1557, have been achieved.

4.2 FOUNDATIONS

Remove unsuitable soils from the entire footprint of the proposed building and replace with controlled fill. The removal of these unsuitable materials must extend laterally beyond the outside edge of exterior footings for a distance equal to the thickness of fill to be placed under the footing. Strategically placed sumps should be able to control the groundwater. In areas where the excavation extends below groundwater, a layer of filter fabric and crushed stone should be placed before placing crushed stone or controlled fill.

Spread footings bearing on controlled fill or crushed stone underlain by naturally deposited granular soil can be proportioned on the basis of an allowable bearing pressure of 4,000 psf. The minimum footing width is 2.5 feet for rectangular footings and 2 feet for continuous footings. All footings exposed to frost must be embedded at least 3.5 feet.

As an alternate, the proposed pole barn building could be supported on helical pile foundations that bear in the dense sand below the organic silt. A suitable helical pile is the Type SS Pile manufactured by A. B. Chance Co. or equivalent. The lead section should consist of a Type SS175 square shaft with a triple helix configuration of 8/10/12. All Type SS materials should be hot-dipped galvanized in accordance with ASTM A 153. The working load on the Type SS175 should not exceed 25 kips. Include an allowance of 3 kips for downdrag in the working pile load. Final design should include lateral load and uplift capacity, if present. The loading conditions were not provided. All pile caps exposed to frost must be embedded a minimum of 3.5 feet below existing grade.

4.3 FLOOR SLABS

Suitable subgrades for slabs-on-grade include controlled fill and naturally deposited inorganic soils. In areas where it is not economical to remove all existing fill, grade slabs should be designed as structural slabs supported by grade beams and piles. A vapor barrier and a minimum of 6 inches of base course (¾" crushed stone) should be placed beneath all interior slabs-on-grade.
Controlled fill is defined as inorganic, well-graded granular soil with a maximum size of 4”, 25% to 70% passing the #4 sieve and less than 10% by weight passing the #200 sieve. It should be placed and compacted in 8- to 10-inch-thick lifts, with each lift tested to verify that densities of at least 95% of the maximum density, as determined by ASTM D 1557, have been achieved.

4.4 LATERAL EARTH PRESSURES

Restrained foundation walls should be designed on the basis of lateral soil pressures equivalent to a fluid pressure of 55 psf per foot of depth plus a uniform pressure equal to one half of any surcharge. Unrestrained retaining walls may be designed on the basis of lateral soil pressures equivalent to a fluid pressure of 35 psf per foot of depth plus a uniform pressure equal to one third of any surcharge. These values of lateral earth pressure are based on a free draining backfill being used and footing drains installed. Free draining fill is the same as controlled fill except that it should have less than 5% passing the #200 sieve. The on-site soils are not suitable for reuse as free draining backfill. For cast in place concrete and masonry walls, a friction factor of 0.3 can be used to determine the sliding resistance at the base.

4.5 SEISMIC

The on-site soils are not susceptible to liquefaction during the IBC design earthquake. In accordance with IBC 2012, the site may be classified at Site Class D. The 2016 Connecticut State Building Code indicates the site’s design response spectra be constructed using the following coefficients:

\[ S_5 = 0.249g \quad S_1 = 0.069g \]

where:

- \( S_5 \) is the spectral acceleration coefficient at 0.2-sec period
- \( S_1 \) is the spectral acceleration coefficient at 1.0-sec period

5.0 CONSTRUCTION TESTING AND OBSERVATION

GZA should observe and document key geotechnical components of construction, and provide ongoing geotechnical consulting during construction. We recommend that GZA be retained to provide observation and services during these operations in order to mitigate potential delays to the project schedule. Our involvement during construction will: 1) allow evaluation of actual conditions exposed during excavation; and 2) allow for a prompt response should unanticipated conditions be encountered.

6.0 STANDARD OF CARE

GZA prepared this report on behalf of, and for the exclusive use of the Board of Education Facilities Department for the stated purpose and location identified in Section 1.0. GZA acknowledges and agrees that the Report may be conveyed to the design team associated with the proximate development, design and construction of the Site to the extent set forth in our proposal. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use. Further, reliance by any party not identified in the agreement, for any use, without our prior written permission, shall be at that party’s sole risk, and without any liability to GZA.
Our findings and conclusions are based on the work conducted as part of the Scope of Services set forth in Section 1.0, and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Limitations which may affect our opinions and findings are included in Appendix A.

Our services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. This Standard of Care and the Limitations set forth in Appendix A apply to both this Report and associated work products. No warranty, express or implied, is made.
**Legend**
- Indicates borings performed by Hardiman Co. & Associates GZ-1 on March 6, 2017 and observed by GZA personnel.

**General Notes**
1. Base map developed from google maps.
2. The location of the explorations were approximately determined by tape measurements from existing site features, by GZA personnel.
3. See exploration logs in Appendix B for additional information.
Appendix A – Limitations
USE OF REPORT

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the contract documents, for any use, without our prior written permission, shall be at that party’s sole risk, and without any liability to GZA.

STANDARD OF CARE

2. GZA’s findings and conclusions are based on the work conducted as part of the Scope of Services set forth in Proposal for Services and/or Report, and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. If conditions other than those described in this report are found at the subject location(s), or the design has been altered in any way, GZA shall be so notified and afforded the opportunity to revise the report, as appropriate, to reflect the unanticipated changed conditions.

3. GZA’s services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made.

4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

SUBSURFACE CONDITIONS

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

6. In preparing this report, GZA relied on certain information provided by the Client, state and local officials, and other parties referenced therein which were made available to GZA at the time of our evaluation. GZA did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this evaluation.

7. Water level readings have been made in test holes (as described in this Report) and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this Report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The water table encountered in the course of the work may differ from that indicated in the Report.

8. GZA’s services did not include an assessment of the presence of oil or hazardous materials at the property. Consequently, we did not consider the potential impacts (if any) that contaminants in soil or groundwater may have on construction activities, or the use of structures on the property.
9. Recommendations for foundation drainage, waterproofing, and moisture control address the conventional geotechnical engineering aspects of seepage control. These recommendations may not preclude an environment that allows the infestation of mold or other biological pollutants.

COMPLIANCE WITH CODES AND REGULATIONS

10. We used reasonable care in identifying and interpreting applicable codes and regulations. These codes and regulations are subject to various, and possibly contradictory, interpretations. Compliance with codes and regulations by other parties is beyond our control.

COST ESTIMATES

11. Unless otherwise stated, our cost estimates are only for comparative and general planning purposes. These estimates may involve approximate quantity evaluations. Note that these quantity estimates are not intended to be sufficiently accurate to develop construction bids, or to predict the actual cost of work addressed in this Report. Further, since we have no control over either when the work will take place or the labor and material costs required to plan and execute the anticipated work, our cost estimates were made by relying on our experience, the experience of others, and other sources of readily available information. Actual costs may vary over time and could be significantly more, or less, than stated in the Report.

ADDITIONAL SERVICES

12. GZA recommends that we be retained to provide services during any future: site observations, design, implementation activities, construction and/or property development/redevelopment. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.
Appendix B – Test Boring Logs
### LOG KEY

**BURMISTER SOIL CLASSIFICATION**

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>NAME</th>
<th>PROPORTIONAL PERCENT BY TERM</th>
<th>IDENTIFICATION OF FINES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MAJOR</strong></td>
<td>GRAVEL, SAND, FINES*</td>
<td>&gt;50</td>
<td>SILT</td>
</tr>
<tr>
<td>Minor</td>
<td>Gravel, Sand, Fines*</td>
<td>and 35-50</td>
<td>Clayey SILT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>some 20-35</td>
<td>Silt &amp; CLAY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>little 10-20</td>
<td>CLAY &amp; SILT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>trace 0-10</td>
<td>Silty CLAY</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CLAY</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt;40</td>
</tr>
</tbody>
</table>

*See identification of fines table.

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passing #200</td>
<td>Silts &amp; Clays</td>
</tr>
<tr>
<td>#200 - #40</td>
<td>Fine Sand</td>
</tr>
<tr>
<td>#40 - #10</td>
<td>Medium Sand</td>
</tr>
<tr>
<td>#10 - #4</td>
<td>Coarse Sand</td>
</tr>
<tr>
<td>#4 - ½&quot;</td>
<td>Fine Gravel</td>
</tr>
<tr>
<td>½&quot; - 3&quot;</td>
<td>Coarse Gravel</td>
</tr>
<tr>
<td>3&quot; - 6&quot;</td>
<td>Cobbles</td>
</tr>
<tr>
<td>&gt;6&quot;</td>
<td>Boulders</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GRADATION DESIGNATION</th>
<th>PROPORTION OF COMPONENT</th>
<th>PLASTIC SOILS</th>
<th>GRAVEL &amp; SAND</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Consistency</td>
<td>Blows/Ft.</td>
<td>SPT N-Value</td>
</tr>
<tr>
<td>Fine to coarse</td>
<td>All fractions &gt; 10%</td>
<td>Very Soft</td>
<td>&lt; 2</td>
</tr>
<tr>
<td>Medium to coarse</td>
<td>&lt;10% fine</td>
<td>Soft</td>
<td>2 - 4</td>
</tr>
<tr>
<td>Fine to medium</td>
<td>&lt;10% coarse</td>
<td>Medium Stiff</td>
<td>4 - 8</td>
</tr>
<tr>
<td>Coarse</td>
<td>&lt;10% fine and medium</td>
<td>Stiff</td>
<td>8 - 15</td>
</tr>
<tr>
<td>Medium</td>
<td>&lt;10% coarse and fine</td>
<td>Very Stiff</td>
<td>15 - 30</td>
</tr>
<tr>
<td>Fine</td>
<td>&lt;10% coarse and medium</td>
<td>Hard</td>
<td>&gt;30</td>
</tr>
</tbody>
</table>

**UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) (ASTM D 2487)**

<table>
<thead>
<tr>
<th>MAJOR DIVISIONS</th>
<th>Group Symbols</th>
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</thead>
<tbody>
<tr>
<td>Coarse Grained Soils</td>
<td>Gravel (Little or no fines)</td>
</tr>
<tr>
<td></td>
<td>Clean Gravels</td>
</tr>
<tr>
<td></td>
<td>GP</td>
</tr>
<tr>
<td>Gravels with Fines</td>
<td>More than 50%</td>
</tr>
<tr>
<td></td>
<td>larger than No. 4 sieve.</td>
</tr>
<tr>
<td></td>
<td>GM</td>
</tr>
<tr>
<td>Gravels with Fines (Appreciable amount of fines)</td>
<td>Sand</td>
</tr>
<tr>
<td></td>
<td>Clean Sands</td>
</tr>
<tr>
<td></td>
<td>SW</td>
</tr>
<tr>
<td>Sands with Fines</td>
<td>More than 50%</td>
</tr>
<tr>
<td></td>
<td>smaller than No. 4 sieve.</td>
</tr>
<tr>
<td></td>
<td>SM</td>
</tr>
<tr>
<td>Sands with Fines (Appreciable amount of fines)</td>
<td>Silts and Clays Liquid Limit &lt;50</td>
</tr>
<tr>
<td></td>
<td>CL</td>
</tr>
<tr>
<td>Fine Grained Soils</td>
<td>Silts and Clays Liquid Limit &gt;50</td>
</tr>
<tr>
<td></td>
<td>OL</td>
</tr>
<tr>
<td>Organic Clay Soils</td>
<td>CH</td>
</tr>
<tr>
<td></td>
<td>OH</td>
</tr>
<tr>
<td>Highly Organic Soils</td>
<td>Pt</td>
</tr>
</tbody>
</table>

**ORGANIC SOIL CLASSIFICATION**

- Fibrous PEAT (Pt) - Lightweight, spongy, mostly visible organic matter, water squeezes readily from sample. Typically near top of deposit. Fine Grained PEAT (Pf) - Lightweight, spongy, little visible organic matter, water squeezes readily from sample. Typically below fibrous peat. Organic SILT (OL) - Typically gray to dark gray, often has strong H2S odor. Typically contains shells or shell fragments. Lightweight. Usually found near coastal regions. May contain wide range of sand fractions.需有机土含量测试进行进一步识别。

**ABBREVIATIONS**

- MR = Mud Rotary
- HSA = Hollow Stem Auger
- SSA = Split Spoon Sampler
- U = Undisturbed Sample (Shelby Tube)
- MC = Modified California Sampler
- V = Vibrocore
- M = Macrocore
- USCS = Unified Soil Classification System (ASTM D2487)
- NYCIC = New York City Building Code
- WOR = Weight of Rods
- WOH = Weight of Hammer
- SPT = Standard Penetration Test (ASTM D1586)
- N-Value = Cumulative number of uncorrected blows for the middle two six-inch intervals (blows/foot).

Tv = Field Vane Shear Test (Torvane) Shear Strength
PP = Pocket Penetrometer Shear Strength
PI = Plasticity Index
Wn = Moisture Content
CO = Consolidation
UC = Unconfined Compression Test
Uu = Unconsolidated Undrained (Triaxial) Test
SI = Sieve Analysis
DS = Direct Shear
PID = Photolonizer Detector
ppm = Parts Per Million
REC = Recovery
RQD = Rock Quality Designation
SPT = Standard Penetration Test (ASTM D1586)
N-Value = Cumulative number of uncorrected blows for the middle two six-inch intervals (blows/foot).
## TEST BORING LOG

**GZA GeoEnvironmental, Inc.**

**55 Holcomb Avenue**

**Stamford, Connecticut**

**EXPLORATION NO.:** B-1

**SHEET:** 1 of 1

**PROJECT NO.:** 05.0045994.01

**REVIEWED BY:** P. Waters

**Logged By:** J. Bedoya

**Drilling Co.:** Hardiman Co. & Associates, Inc.

**Foreman:** T. Hardiman

**Type of Rig:** Mobile

**Rig Model:** B-50

**Drilling Method:** HSA

**Boring Location:** See Plan

**Ground Surface Elev. (ft.):** -0.8

**Final Boring Depth (ft.):** 19

**Date Start - Finish:** 3/9/2017 - 3/6/2017

**H. Datum:** Project

**V. Datum:** Project

### Hammer Type:
- **Cathead and Safety Rope**

### Hammer Weight (lb.):
- **140**

### Hammer Fall (in.):
- **30**

### Auger or Casing O.D./I.D. Dia. (in.):
- **2 1/4**

### Sampler Type:
- **SS**

### Sampler O.D. (in.):
- **2.0**

### Sampler Length (in.):
- **30**

### Core Barrel Size:
- **N/A**

<table>
<thead>
<tr>
<th>Depth (ft.)</th>
<th>Casing/ Core Rate</th>
<th>No.</th>
<th>Depth (in.)</th>
<th>Pen. Blows</th>
<th>Rec. Blows</th>
<th>SPT Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>SS-1</td>
<td>24</td>
<td>4</td>
<td>6</td>
<td>14</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-5</td>
<td>SS-2</td>
<td>24</td>
<td>15</td>
<td>3</td>
<td>2</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5-7</td>
<td>SS-3</td>
<td>24</td>
<td>22</td>
<td>2</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7-9</td>
<td>SS-4</td>
<td>24</td>
<td>18</td>
<td>8</td>
<td>14</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>10-12</td>
<td>SS-5</td>
<td>24</td>
<td>18</td>
<td>6</td>
<td>9</td>
<td>26</td>
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<td>15-17</td>
<td>SS-6</td>
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<td>16</td>
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<tr>
<td>19-19</td>
<td>SS-7</td>
<td>0</td>
<td>0</td>
<td>0/50°</td>
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<td></td>
</tr>
</tbody>
</table>

### Sample Description and Identification (Modified Burmister Procedure)
- **SS-1:** Dense, brown, fine to coarse SAND, some Gravel, some Silt (Fill)
- **SS-2:** Loose, brown, fine to coarse SAND and SILT, some Ash (Fill)
- **SS-3:** Top 10°: Brown, fine to coarse SAND and SILT (Organics)
- **SS-4:** Medium dense, brown, grey, fine to coarse SAND and SILT, trace fine Gravel
- **SS-5:** Medium dense, brown, fine to coarse SAND and SILT, little fine to coarse Gravel (Wet)
- **SS-6:** Very dense, olive brown, fine to coarse SAND, some Silt, little fine Gravel (Till)
- **SS-7:** No Penetration

### Groundwater Depth (ft.)

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Water Depth</th>
<th>Stab. Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/6/17</td>
<td>1022</td>
<td>8.5</td>
<td>10 min</td>
</tr>
<tr>
<td>3/6/17</td>
<td>1145</td>
<td>4.0</td>
<td>93 min</td>
</tr>
</tbody>
</table>

### Remarks

- **1:** Auger and Split Spoon refusal at 19 feet below ground surface

Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual.

**Exploration No.:** B-1
### TEST BORING LOG

**GZA GeoEnvironmental, Inc.**  
**55 Holcomb Avenue**  
**Stamford, Connecticut**  
**EXPLORATION NO.:** B-2  
**PROJECT NO.:** 05.0045994.01  
**REVIEWED BY:** P. Waters  

**Logged By:** J. Bedoya  
**Drilling Co.:** Hardiman Co. & Associates, Inc.  
**Foreman:** T. Hardiman  
**Type of Rig:** Mobile  
**Rig Model:** B-50  
**Drilling Method:** HSA  
**Boring Location:** See Plan  
**Ground Surface Elev. (ft.):** -2.6  
**Final Boring Depth (ft.):** 20.9  
**Date Start - Finish:** 3/6/2017 - 3/8/2017  
**H. Datum:** Project  
**V. Datum:** Project  

**Hammer Type:** Cathead and Safety Rope  
**Hammer Weight (lb):** 140  
**Hammer Fall (in.):** 30  
**Auger or Casing O.D./I.D Dia. (in.):** 2 1/4"  
**Sampler Type:** SS  
**Sampler O.D. (in.):** 2.0  
**Sampler Length (in.):** 30  
**Core Barrel Size:** N/A  

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Casing</th>
<th>Blow/ Core Date</th>
<th>Sample No.</th>
<th>Depth (ft.)</th>
<th>Pen. (in.)</th>
<th>Rec. (in.)</th>
<th>Blows (per 6 in.)</th>
<th>SPT Value</th>
<th>Sample Description and Identification (Modified Burnister Procedure)</th>
<th>Remark</th>
<th>Field Test Data</th>
<th>STRATUM Description</th>
<th>Depth (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5-</td>
<td>SS-1</td>
<td>24</td>
<td>14</td>
<td>3 5</td>
<td>2.5</td>
<td>5 6</td>
<td></td>
<td></td>
<td>SS-1 : Medium dense, black, brown, fine to coarse SAND and SILT, little fine Gravel (Fill) (Organic)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.5</td>
<td>SS-2</td>
<td>24</td>
<td>16</td>
<td>3 5</td>
<td>4.5</td>
<td>7 4</td>
<td></td>
<td></td>
<td>SS-2 : Medium dense, brown, fine to coarse SAND and SILT, trace fine Gravel, trace Wood (Fill)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5-7</td>
<td>SS-3</td>
<td>24</td>
<td>12</td>
<td>5 5</td>
<td>8 7</td>
<td></td>
<td></td>
<td></td>
<td>SS-3 : Medium dense, grey, fine SAND and ORGANIC SILT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7-9</td>
<td>SS-4</td>
<td>24</td>
<td>12</td>
<td>6 6</td>
<td>5 8</td>
<td></td>
<td></td>
<td></td>
<td>SS-4 : Medium dense, Brown, fine SAND and SILT, trace Roots (Organic)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 10-12      | SS-5   | 24              | 14         | 2 10        | 11 14      |            |                  |           | SS-5 : Top 9": Brown, fine SAND and SILT, trace Roots (Organic)  
Bottom 5": Brown, fine to coarse SAND and ORGANIC SILT, little fine to coarse Gravel |        |                 |                     |            |
| 15-17      | SS-6   | 24              | 20         | 27 79       | 22 19      |            |                  |           | SS-6 : Very dense, brown, fine SAND and SILT, little fine Gravel (Wet) |        |                 |                     |            |
| 20-20.9    | SS-7   | 11              | 11         | 48 100/5"   | 20.9       |            |                  |           | SS-7 : Top 5": Brown, fine SAND and SILT (Wet)  
Bottom 6": Grey, fine SAND and GRAVEL, little Silt (Possible Decomposed Rock) |        |                 |                     |            |

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**Remarks:**
1. Auger refusal at 20.9 feet below ground surface

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Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual.
## TEST BORING LOG

**GZA GeoEnvironmental, Inc.**

**55 Holcomb Avenue**
**Stamford, Connecticut**

**Type of Rig:** Mobile
**Rig Model:** B-50
**Drilling Method:** HSA

**Boring Location:** See Plan
**Ground Surface Elev. (ft.):** 0
**Final Boring Depth (ft.):** 22

**Date Start - Finish:** 3/6/2017 - 3/8/2017

**Hammer Type:** Cathead and Safety Rope
**Hammer Weight (lb.):** 140
**Hammer Fall (in.):** 30
**Auger or Casing O.D./I.D Dia (in.):** 2 1/4"

**Sampler Type:** SS
**Sampler O.D. (in.):** 2.0
**Sampler Length (in.):** 30
**Core Barrel Size:** N/A

**Groundwater Depth (ft.):**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Water Depth</th>
<th>Stab. Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/6/17</td>
<td>1445</td>
<td>4.9</td>
<td>55 min</td>
</tr>
</tbody>
</table>

**REMARKS**

1. Gravel/Cobbles at 9 feet
2. Cobble at 19 feet
3. Auger refusal at 22 feet below ground surface

Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual.
# TEST BORING LOG

**GZA GeoEnvironmental, Inc.**  
**Type of Rig:** Mobile  
**Drilling Method:** HSA

** Logged By:** J. Bedoya  
**Drilling Co.:** Hardiman Co. & Associates, Inc.  
**Foreman:** T. Hardiman  

**Boring Location:** See Plan  
**Ground Surface Elev. (ft.):** -1.3  
**Final Boring Depth (ft.):** 20

**Hammer Type:** Cathead and Safety Rope  
**Hammer Weight (lb.):** 140  
**Hammer Fall (in.):** 30  
**Auger or Casing O.D./I.D Dia (in.):** 2 1/4”

**Sampler Type:** SS  
**Sampler O.D. (in.):** 2.0  
**Sampler Length (in.):** 30  
**Core Barrel Size:** N/A

**EXPLORATION NO.:** B-4  
**SHEET:** 1 of 1  
**PROJECT NO.:** 05.0045994.01  
**REVIEWED BY:** P. Waters  

## Groundwater Depth (ft.)

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Water Depth</th>
<th>Stab. Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/6/17</td>
<td>1515</td>
<td>5.8</td>
<td>27 min</td>
</tr>
</tbody>
</table>

## Sample

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>No.</th>
<th>Depth (ft)</th>
<th>Pen. (in)</th>
<th>Rec. (in)</th>
<th>Blows (per 6 in.)</th>
<th>SPT Value</th>
<th>Sample Description and Identification (Modified Burmister Procedure)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>SS-1</td>
<td>24</td>
<td>10</td>
<td>6</td>
<td>4</td>
<td>6</td>
<td>SS-1: Loose, brown, black, fine to coarse SAND and SILT, little fine to coarse Gravel (Fill) (Organics in TIP)</td>
</tr>
<tr>
<td>2.5</td>
<td>SS-2</td>
<td>24</td>
<td>11</td>
<td>2</td>
<td>2</td>
<td>6</td>
<td>SS-2: Loose, black, fine to coarse SAND and SILT, little Wood (Organic)</td>
</tr>
<tr>
<td>4.5</td>
<td>SS-3</td>
<td>24</td>
<td>15</td>
<td>16</td>
<td>9</td>
<td>14</td>
<td>SS-3: Top 6&quot;: Black, brown, fine to coarse SAND and SILT, trace fine to coarse Gravel (Organic) Bottom 9&quot;: Olive brown, mottled, fine SAND and SILT</td>
</tr>
<tr>
<td>5.7</td>
<td>SS-4</td>
<td>24</td>
<td>18</td>
<td>8</td>
<td>6</td>
<td>14</td>
<td>SS-4: Medium dense, grey, brown, fine SAND and SILT, trace Fibers</td>
</tr>
<tr>
<td>7.9</td>
<td>SS-5</td>
<td>24</td>
<td>12</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>SS-5: Very loose, grey, brown, fine SAND and SILT, trace Roots (light brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt in tip)</td>
</tr>
<tr>
<td>10-12</td>
<td>SS-6</td>
<td>24</td>
<td>12</td>
<td>10</td>
<td>22</td>
<td>51</td>
<td>SS-6: Very dense, brown, fine to coarse SAND, little fine Gravel, little Silt</td>
</tr>
<tr>
<td>15-17</td>
<td>SS-7</td>
<td>24</td>
<td>12</td>
<td>10</td>
<td>22</td>
<td>29</td>
<td>SS-7: No Penetration End of exploration at 20 feet below grade.</td>
</tr>
</tbody>
</table>

**Remark:** 

- **Field Test Data:**  
  - **Stratum Description:**  
  - **Depth:**  
    - **1:** ASPHALT  
    - **2:** FILL WITH ORGANIC INCLUSIONS  
    - **3:** SAND AND GRAVEL  
    - **4:** SAND  
    - **5:** SAND  

**Remarks:**  

- 1: Auger and Split Spoon refusal at 20 feet below ground surface

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**Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual.**  
**Exploration No.:** B-4