TOWN OF GLASTONBURY PROCUREMENT NOTICE REQUEST FOR PROPOSAL PROVIDE AND INSTALL VARIABLE FREQUENCY DRIVES AT VARIOUS SCHOOLS TOWN OF GLASTONBURY RPGL-2010- 28

The Town of Glastonbury will be accepting proposals from qualified individuals or firms to provide and install Variable Frequency Drives and appropriate enclosures on existing roof top units at Smith Middle located at 216 Addison Road, Glastonbury, CT and Glastonbury High School, 330 Hubbard St, Glastonbury, CT. This includes providing 5 units and installing 11 units currently owned by the Glastonbury Board of Education. The purpose of the project is to better control the RTUs and support retro commissioning activities. Proposals shall provide technical data for components to be provided, pricing proposals, and other data necessary in order to determine the best value.

There will be a **MANDATORY PRE-PROPOSAL MEETING** held at SMITH MIDDLE SCHOOL, GLASTONBURY, CT. 06033 on **December 30, 2009 at 9:00 AM**. Attendance is mandatory.

Proposals must be submitted to the Purchasing Agent no later than <u>January 13, 2010 at 11:00 AM.</u>

LATE PROPOSALS WILL NOT BE CONSIDERED. COPIES OF THE PROPOSAL ARE AVAILABLE ON THE TOWN'S WEBSITE AT www.glastonbury-ct.gov.

Mary F. Visone Purchasing Agent

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- Attachment A Selected Plan Pages
- Attachment B Town of Glastonbury Response Page
- Attachment C Statement of Non-Collusion

SECTION I - GENERAL INFORMATION

Background – The Smith Middle School was constructed in approximately 2000. The building is served by numerous Roof Top Units for heating and air conditioning. As part of a retro commissioning project, various units will require the installation of variable frequency drives. The Board of Education has recently purchased a selection of Honeywell drives of various sizes. The project will require the vendor to provide and install 5 additional units of various sizes. Some VFDs may require NEMA enclosures rated for exterior applications. The proposer will identify units that require enclosures. Glastonbury High School was constructed in various stages, most recently being renovated in 2005.

General Intent - It is the general intent to install the on hand units and provide and install the remainder. The installation shall include all required electrical work and enclosures. Control wiring and programming are not part of this work and will be completed by the Town's control system integrator. The Proposers will be required to become familiar with the features of the Retro Commissioning project to ensure compatibility with the overall project

Existing Facility –Building plans are provided as Attachment A.

SECTION II - CONSIDERATIONS AND RESTRICTIONS

- The selected vendor will be required to obtain a building permit for the work awarded.
 The fee for the building permit will be \$0.18 per \$1000 due the State. Local building permit fees will not be required.
- The successful respondent shall ensure the system will comply with all applicable codes. The building will be available for work immediately however, work schedules and locations will need to be coordinated on a daily basis with the School Administration and Facilities Department. Hours available for work will be from 7:00 AM to 5:00 PM, Monday through Friday, holidays excepted. Work on weekends and evenings may be scheduled, as necessary. After hours or weekend/holiday work may be necessary to complete the work in order to minimize disruption to educational and community use programs.
- The proposed system shall take into account ease of maintenance of the units and subsequent control work.
- Vendors may propose more than one alternative to satisfy the Town's requirement. For each alternative proposed the following information shall be provided, at a minimum:
 - o Proposal to perform the work.
 - Technical data for each of the components proposed for installation including layout, configuration, wiring size and type, make, model, HP rating, size, and quantities of components to be provided, enclosures, if necessary, and any other data necessary to evaluate the applicability of the system.
 - Complete scope of work included in the proposal and any work not included in the proposal but required to make the system fully functional in conjunction with the control work.
 - A schedule indicating major milestones for installation of the VFDs and enclosures, if required, removal of existing components, operational testing, and operations and maintenance training of Town staff.

- Warranties provided.
- Any premium costs associated with work outside of normal work hours that is not included in the basic price proposal.
- o Copies of applicable contractor's licenses.
- o Names and phone numbers of references for similar work performed.
- All drawings, reports, data, and other documents prepared by the Vendor according to this Agreement shall be submitted to the Town for its review and approval. Resulting work products of the Vendor pursuant to this solicitation shall become property of the Town of Glastonbury.
- No such approval shall in any way be construed to relieve the Vendor of responsibility
 for technical adequacy or operate as a waiver of any of the Town's rights under this
 Agreement. The Vendor shall remain liable to the Town according to applicable laws
 and practices for all damages to the Town caused by the Vendor's negligent
 performance of any of the services furnished under this Agreement.
- The Vendor shall conduct regular meetings with the Town, and other appropriate parties, at a location established by the Town to review progress. The Vendor will provide written notes of each meeting to all attending parties before the next meeting.
- Consideration will be given to the ability to install the units and enclosures where necessary, the associated cost, and the time required to provide and install the units.
- Units proposed shall also be able to be serviced by a third party vendor without any proprietary restrictions.
- The Town shall not be obligated to accept any proposal and the Town shall reserve the sole right to determine the appropriateness of any proposal for this work.

SECTION III - SUBMISSION OF PROPOSAL

MINIMUM REQUIREMENTS

- Vendor shall be licensed by the State of Connecticut to perform the work required and involved.
- Vendor shall have an assigned project manager to oversee this work and act as liaison to the Town.
- Vendor shall demonstrate sufficient staff resources to perform the work.
- Vendor shall have demonstrated experience designing and installing similar systems within the past five (5) years.

TERM OF SERVICE

The selected firm will be expected to commence services within 15 days of contract execution or on such other schedule as may be agreed to with the Town. The Town anticipates allocating up to 2 months of overall time for the project described herein including data collection,

meetings, consultant preparation, etc. The Town of Glastonbury reserves the right to cancel this proposal process at any time should any of the following conditions exist:

- Funds are not appropriated to allow continuance of this contract.
- The Town, through changes in its requirements or method of operation, no longer has a need for this service.
- The Town is not satisfied with the level of services provided under the contract or the contractor fails to comply with any of the terms and conditions outlined in the contract.

SITE INSPECTION

A mandatory site inspection is scheduled for December 30, 2009 at 9:00 AM at the site at 216 Addison Road, Glastonbury, CT 06033.

PROPOSAL INSTRUCTIONS

- By submitting a proposal, you represent that you have thoroughly examined and become familiar with the Scope of Services outlined in this RFP and you are capable of performing the work to achieve the Town's objectives.
- All firms are required to submit a <u>clearly marked</u> original and seven (7) copies of their proposal to Mary F. Visone, Purchasing Agent, 2155 Main Street, Glastonbury, CT by the date and time listed in the proposal response page. All proposals will be opened publicly and recorded as received. Respondents may be present at the opening; however, there will be no public reading of Proposals. Proposals received later than the time and date specified will not be considered. The proposal must be submitted in a sealed envelope or package and the outside shall be clearly marked as follows:

SEALED REQUEST FOR PROPOSAL PROCUREMENT NOTICE PROVIDE AND INSTALL VARIABLE FREQUENCY DRIVES-VARIOUS SCHOOLS RPGL-2010-28 JANUARY 13, 2010 11:00 AM

- All respondents are required to submit the information detailed below. Responses shall
 be organized and presented in the order listed below to assist the Town in
 reviewing and rating proposals. Responses should be presented in appropriate detail
 to thoroughly respond to the requirements and expected services described herein.
 - 1. Table of Contents, to include clear identification of the material provided by section and number.
 - 2. A letter of transmittal indicating the firm's interest in providing the service and any other information that would assist the Town in making a selection. This letter must be signed by a person legally authorized to bind the firm to a contract.
 - 3. Name and telephone number of person(s) to be contacted for further information or clarification.

- 4. Copy of State of Connecticut license to perform the work required and involved.
- 5. Name and qualifications of assigned project manager and a list of staff members who would be involved with the project, including their assigned roles and a description of their background and experience.
- 6. A background statement including a description of relevant experience of the firm/individual submitting the proposal.
- 7. For each alternative proposed the following information:
 - a. Price to perform the work.
 - b. Technical data for each of the system(s) and components proposed for installation including layout, configuration, make, model, HP rating, size, and quantities of components to be provided, and any other data necessary to evaluate the applicability of the system. Proposer shall determine where enclosures for the VFD units will be necessary and provide in proposal.
 - c. Complete scope of work included in the proposal and any work not included in the proposal but required to make the units fully functional.
 - d. A schedule indicating major milestones for installation of new system, removal of existing components, operational testing, and operations and maintenance training of Town staff.
 - e. Warranties provided.
 - f. Any premium costs associated with work outside of normal work hours that is not included in the basic price proposal.
 - g. Copies of applicable contractor's licenses.
 - h. Names and phone numbers of references for similar work performed.
- 8. Respondent shall provide a list of 3-5 references and examples of previous similar projects successfully completed within the last five years with the contact name, address and telephone number of the owners' representative in each project.
- 9. A concluding statement as to why the respondent is best qualified to meet the needs of the Town.
- 10. Proposal Response Form completed including labor and material cost for each item.
- 11. Description of any exceptions taken to this RFP. If any proposal involves any exception from the stated requirements and specifications, they must be clearly noted as exceptions and attached to the proposal.
- 12. Respondent is required to review the Town of Glastonbury Code of Ethics adopted July 8, 2003 and effective August 1, 2003. Respondent shall acknowledge that they have reviewed the document in the area provided on the attached Ethics Acknowledgement form included on **ATTACHMENT B.** The selected respondent will also be required to complete and sign a Consultant Acknowledgement Form prior to award. The Code of Ethics and the Consultant Acknowledgment Form can be accessed at the Town of Glastonbury website at www.glastonbury-ct.gov. Upon entering the website click on "Business," then "Doing Business with the Town," then "Bids and Quotes" which will bring you to the links for the Code of Ethics and the

Consultant Acknowledgement Form. If the respondent does not have access to the internet, a copy of these documents can be obtained through the Purchasing Department at the address listed within this proposal.

13. Statement of Non-Collusion (ATTACHMENT C).

14. Non Resident Contractors (IF APPLICABLE)

The Town is required to report names of nonresident (out of state) Contractors to the State of Connecticut, Department of Revenue Services (DRS) to ensure that Employment Taxes and other applicable taxes are being paid by Contractors. **Upon award, all nonresident contractors must furnish a five percent (5%) sales tax guarantee bond (state form AU-766), or a cash bond for 5% of the total contract price (state form AU-72) to DRS even though this project is exempt from most sales and use taxes.**

See State Notice to Nonresident Contractors SN 2005(12). If the above bond is not provided the Town is required to withhold 5% from Contractor's payments and forward it to the State DRS.

Contractor must promptly furnish to the Town a copy of the <u>Certificate of Compliance</u> issued by the State DRS.

15. Any technical questions regarding this RFP shall be made in writing and directed to Mr. David Sacchitella, Building Superintendent, at (860) 652-7706 or via e-mail at Dave.Sacchitella@glastonbury-ct.gov. Administrative questions should be directed to Mary F. Visone, Purchasing Agent at (860) 652-7588. All questions, answers, and/or addenda, as applicable, will be posted on the Town's website at www.glastonbury-ct.gov (Upon entering the website click on Bids & RFPs). It is the respondent's responsibility to check the website for addenda prior to submission of any proposal.

<u>Note</u>: Responses to requests for more specific contract information than is contained in the RFQ shall be limited to information that is available to all offerors and that is necessary to complete this process. The request must be received at least five (5) business days prior to the advertised response deadline.

- 16. The Town of Glastonbury is dedicated to waste reduction and the practice of using and promoting the use of recycled and environmentally preferable products. Respondents are encouraged to submit RFP responses that are printed double-sided (except for the signed proposal page) on recycled paper, and to use paper dividers to organize the RFP for review. All proposal pages should be secured with a binder clip, staple or elastic band, and shall not be submitted in plastic binders or covers, nor shall the proposal contain any plastic inserts or pages. We appreciate your efforts towards a greener environment.
- Failure to include any of the above-referenced items in the submitted PROPOSAL may be grounds for disqualifying said proposal.

EVALUATION CRITERIA

- The Town of Glastonbury shall select the responsible and responsive Proposal which is determined by the Town to be the best suited, most advantageous, and provides the best value to the Town on the basis of the criteria and evaluation factors included in this Request for Proposal. Initial cost is one factor in the award decision. The Town expressly reserves the right to negotiate with the selected Proposer prior to an award of any contract pursuant to this RFP. Best value shall be determined by consideration of some or all of the following factors as deemed appropriate by the Town.
 - The qualifications and experience of the vendor and its designated account representative. Successful performance of similar work on other accounts including applicable license to perform the work.
 - Completeness of the proposal and adequacy of the information provided.
 - Scope of Work/Technical Solution/Approach to Project: Types, capabilities, efficiency, applicability, ease of operation and maintenance, warranties, etc. of system and components proposed.
 - Schedule.
 - Total Cost/Overall Value: Initial price to provide and install including any premium costs not included in base proposal
 - The number, scope, and significance of conditions or exceptions attached or contained in the proposal.
 - Satisfactory reference evaluations.

SELECTION PROCESS

- This request for proposals does not commit the Town of Glastonbury to award a contract or to pay any costs incurred in the preparation of a proposal to this request. All proposals submitted in response to this request become the property of the Town of Glastonbury. The Town of Glastonbury reserves the right to accept or reject any or all proposals received as a result of this request, to negotiate with the selected respondents, the right to extend the contract for additional services, or to cancel in part or in its entirety the request for proposals, if it is in the best interests of the Town to do so.
- An Evaluation Committee, appointed by the Town Manager, will evaluate all proposals received for completeness and the respondent's ability to meet all requirements as outlined in this RFP.
- Following review and evaluation of proposals, the Town reserves the right to request certain additional information. Based on review and rating of proposals, if determined to be necessary, a short list of respondents may be invited to interview with the Town Selection Committee.
- Additional technical and/or cost information may be requested from any respondent by the evaluation committee prior to, during, or after the interview for clarification purposes, but in no way changes the original proposal submitted. Interviews are at the option of the evaluation committee and may or may not be conducted.
- Based on the results of the interview process, the Town will review the Scope of Services, proposed price, and other factors with the top-rated firm(s) and negotiate a specific agreement based on these discussions.
- The selected respondent will be issued a purchase order to perform the work.

TIMELINE

The Town intends to adhere to the schedule listed below as closely as possible, but reserves the right to modify the schedule in the best interest of the Town as required.

Publicize RFP	December 21, 2009
Mandatory Pre-proposal Meeting	December 30, 2009 9:00A.M.
RFP Due Date	January 13 by 11:00 A.M.
Shortlist of Submittals Received	TBD, if necessary
Interviews with Top Respondents	TBD, if necessary
Contract Effective Date	TBD

INSURANCE

The Consultant shall, at its own expense and cost, obtain and keep in force during the entire duration of the Project or Work the following insurance coverage covering the Consultant and all of its agents, employees and sub-contractors and other providers of services and shall name the Town and BOE, its employees and agents as an Additional Insured on a primary and non-contributory basis to the Consultant's Commercial General Liability and Automobile Liability policies. These requirements shall be clearly stated in the remarks section on the Consultant's Certificate of Insurance. Insurance shall be written with insurance carriers approved in the State of Connecticut and with a minimum Best's Rating of A-. In addition, all carriers are subject to approval by the Town. Minimum limits and requirements are stated below:

1) Worker's Compensation Insurance:

- Statutory Coverage
- Employer's Liability
- \$100,000 each accident/\$500,000 disease-policy limit/\$100,000 disease each employee

2) Commercial General Liability:

- Including Premises & Operations, Products and Completed Operations, Personal and Advertising Injury, Contractual Liability and Independent Contractors.
- Limits of Liability for Bodily Injury and Building Damage Each Occurrence \$1,000,000
 - Aggregate \$2,000,000 (The Aggregate Limit shall apply separately to each job.)
- A Waiver of Subrogation shall be provided

3) Automobile Insurance:

- Including all owned, hired, borrowed and non-owned vehicles
- Limit of Liability for Bodily Injury and Property Damage: Per Accident \$1,000,000

4) <u>Errors and Omissions Liability or Professional Services Liability Policy</u>: \$1,000,000

- Provide Errors and Omissions Liability or Professional Services Liability Policy for a minimum Limit of Liability \$1,000,000 each occurrence or per claim. The Town, its employees and agents shall be named Additional Insured for this specific Project. The certificate shall specify that the Town and Board of Education shall receive 30 days advance written notice of cancellation or non-renewal specific to this Project.
- The Consultant agrees to maintain continuous professional liability coverage for the entire duration of this Project, and shall provide for an Extended Reporting Period in which to report claims for seven (7) years following the conclusion of the Project.

The Consultant shall provide a Certificate of Insurance as "evidence" of General Liability, Auto Liability including all owned, hired, borrowed and non-owned vehicles, statutory Worker's Compensation and Employer's Liability and Professional Services Liability coverage.

The Consultant shall direct its Insurer to provide a Certificate of Insurance to the Town before any work is performed. The Certificate shall specify that the Town shall receive 30 days advance written notice of cancellation or non-renewal. The Certificate shall evidence all required coverage including the Additional Insured and Waiver of Subrogation. The Consultant shall provide the Town copies of any such policies upon request.

INDEMNIFICATION

To the fullest extent permitted by law, the Consultant shall indemnify and hold harmless the Town and the Board of Education and their respective consultants, agents, and employees from and against all claims, damages, losses and expenses, direct, indirect or consequential (including but not limited to fees and charges of engineers, attorneys and other professionals and court and arbitration costs) to the extent arising out of or resulting from the performance of the Consultant's work, provided that such claim, damage, loss or expense is caused in whole or in part by any negligent act or omission by the Consultant, or breach of its obligations herein or by any person or organization directly or indirectly employed or engaged by the Consultant to perform or furnish either of the services, or anyone for whose acts the Consultant may be liable.

As to any and all claims against the Town or any of its consultants, agents or employees by any employee of Consultant, by any person or organization directly or indirectly employed by Consultant to perform or furnish any of the work, or by anyone for whose acts Consultant may be liable, the indemnification obligation stated herein shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for Consultant under worker's or workman's compensation acts, disability benefit acts or other employee benefit acts.

The above insurance requirements are the Town's general requirements. Insurance requirements with the awarded respondent are subject to final negotiations.

ATTACHMENT A

See attached plans/sketches:

- Division 16 Electrical Scope w/ pictures
 - Sketches of Smith Middle School
- Sketches of Glastonbury High School
- List of VFD by required by location and type
 School Year Calendar

 - BoE Contractor Compliance Form
 - Product information on Honeywell VFDs

Glastonbury Schools

VFD Installation For Middle & High School

ELECTRICAL SCOPE OF WORK - DIVISION # 16 POWER WIRING

Provide all material, labor and equipment to perform the work described below and make complete, safe, and functional systems.

Complete the pricing breakout schedule (attached), for all portions of the work.

General Specifications

- 1. Provide all material, labor, tools and equipment required to perform the work described below and make complete, safe, and functional systems. This work shall include, but not be limited to core drilling, cutting, fire-stopping, patching, and painting to match existing conditions. All Honeywell VFDs will be provided by Glastonbury Schools. The Electrical Contractor will be mounting, installing and wiring the (480V) drives only. VFD start-up shall be by Honeywell. All VFDs are assumed to have internal fused main power connections and bypass contactors.
- 2. If VFDs are to be installed in the main electrical compartment of the RTU (in place of the existing fan fuses, contactors and heater over-loads) then the Electrical Contractor shall remove the unused components and mount VFDs. The existing main electrical disconnect switch on the RTU shall feed both drives.
- 3. If VFDs are to be installed in a weather-proof NEMA 3R enclosure and mounted outside on the RTU next to the main electrical disconnect switch, the Electrical Contractor shall furnish the enclosures and provide material and labor to mount them. A 1/2" conduit hole shall be installed inside the enclosure allowing supply air from the RTU to bleed into the panel and holes on the bottom shall vent out. This will help to condition the air inside of the enclosure for the VFDs.
- 4. The Electrical Contractor shall pay for all permits and inspections required by controlling authority if applicable and all work shall be installed in accordance with state, local and national codes.
- 5. The Electrical Contractor shall warrant their workmanship and materials for a period of one year from the date of acceptance by Glastonbury Schools. Manufacturer's VFD warrantees shall be turned over to the Glastonbury Schools upon completion of the project.

VFD Installation and Wiring for the Middle School for all Rooftop Units

RTU-2 & RTU-3 Large & Small Gymnasium (5 HP VFDs / Supply & Return Fan)

Electrical Contractor shall investigate the feasibility of mounting the VFDs in the main electrical compartment of the RTU in place of the existing fan fuses, contactors and heater over-loads. If there is not enough space in the compartment then the VFDs shall be installed in a weather-proof NEMA 3R enclosure and mounted outside on the RTU next to the main electrical disconnect switch. Main 480V power from the RTU disconnect shall feed both drives for the supply and return fans. This will be typical for RTU-2 & RTU-3.

RTU-7 & RTU-8 Auditorium Units (10 HP Supply VFD / 5 HP Return VFD)

Electrical Contractor shall investigate the feasibility of mounting the VFDs in the main electrical compartment of the RTU in place of the existing fan fuses, contactors and heater over-loads. If there is not enough space in the compartment then the VFDs shall be installed in a weather-proof NEMA 3R enclosure and mounted outside on the RTU next to the main electrical disconnect switch. Main 480V power from the RTU disconnect shall feed both drives for the supply and return fans. This will be typical for RTU-7 & RTU-8.

RTU-6 Cafeteria Unit (15 HP Supply VFD / 7.5 HP Return VFD)

Electrical Contractor shall install the VFDs inside the existing main electrical enclosure mounted on the outside of the RTU. The existing fan fuses, contactors and heater over-loads for the supply and return fans shall be removed and the VFDs will be installed in-place. A 1/2" conduit hole shall be installed inside the enclosure allowing supply air from the RTU to bleed into the panel and holes on the bottom shall vent out. This will help to condition the air inside of the enclosure for the VFDs.

RTU-1 Media Center Unit (20 HP VFD / 10 HP Return VFD)

Electrical Contractor shall install the VFDs in a new weather-proof NEMA 3R enclosure and mounted outside on the RTU next to the main electrical disconnect switch. Main 480V power from the RTU disconnect shall feed both drives for the supply and return fans. Also provide venting for the panel as described above.

VFD Installation and Wiring for the High School

Cafeteria Unit (20 HP VFD / 7.5 HP Return VFD) RTU D-4 on Alerton System

Electrical Contractor shall investigate the feasibility of mounting the VFDs in the main electrical compartment of the RTU in place of the existing fan fuses, contactors and heater over-loads. If there is not enough space in the electrical compartment then the Electrical Contractor and Glastonbury Schools shall determine where best to mount the drives. If the VFDs are installed in a weather-proof NEMA 3R enclosure and mounted outside on the RTU then adequate ventilation and tempering shall be considered.

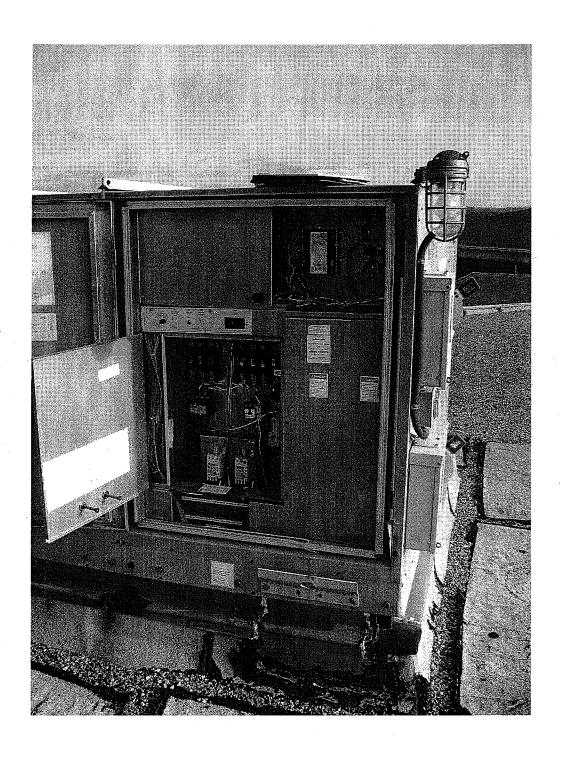
AHU E-1 Auditorium (20 HP VFD) & AHU E-2 Band / Choral (10 HP VFD)

Electrical Contractor shall mount and install the VFDs next to the existing AHU starters located on the wall of the mechanical room. Main 480V power from the existing starters shall feed the drives. The Electrical Contractor shall remove the existing starters and provide a new disconnect switch in place.

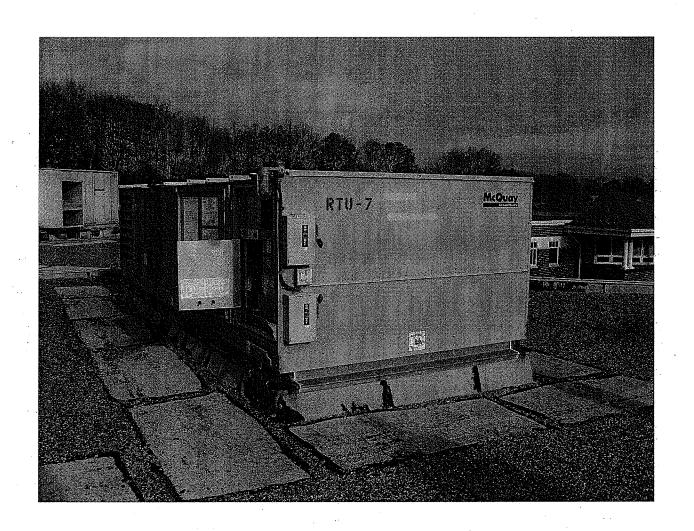
12/2/2009

Typical RTU VFD Installations For Glastonbury Schools

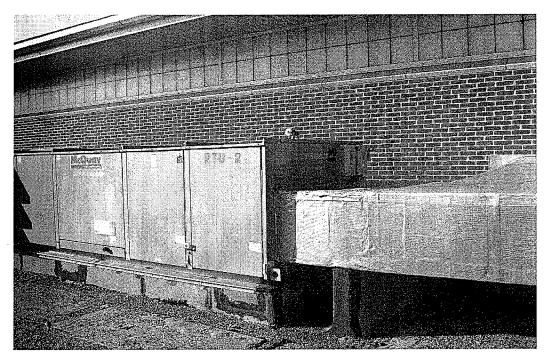
Typical RTU Electrical Compartment (RTU-7 Auditorium)

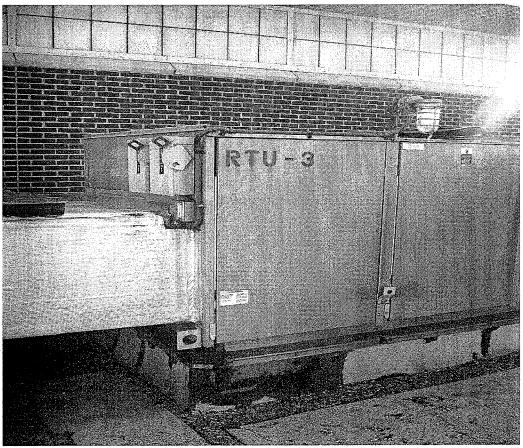


Typical RTU with Disconnect Switch Location Top Disconnect is the Main Feed. One below is For HW Pump in RTU.

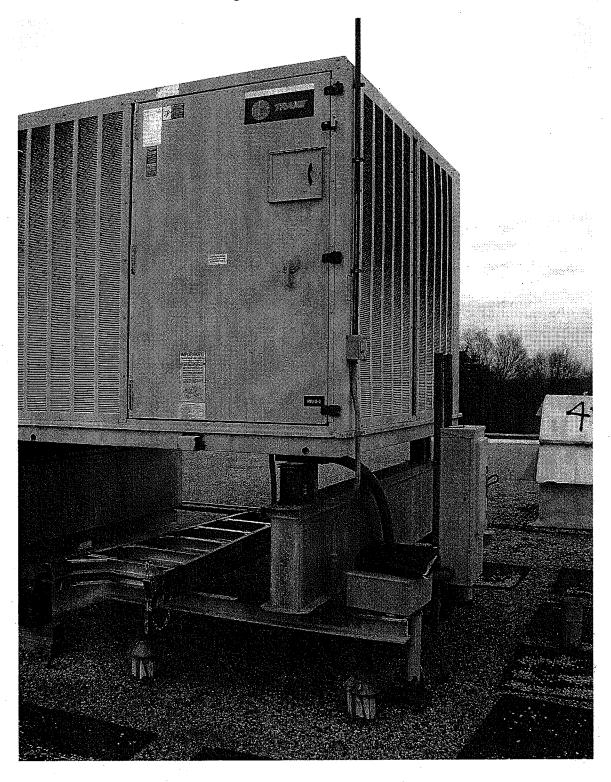


Gymnasium Units Middle School

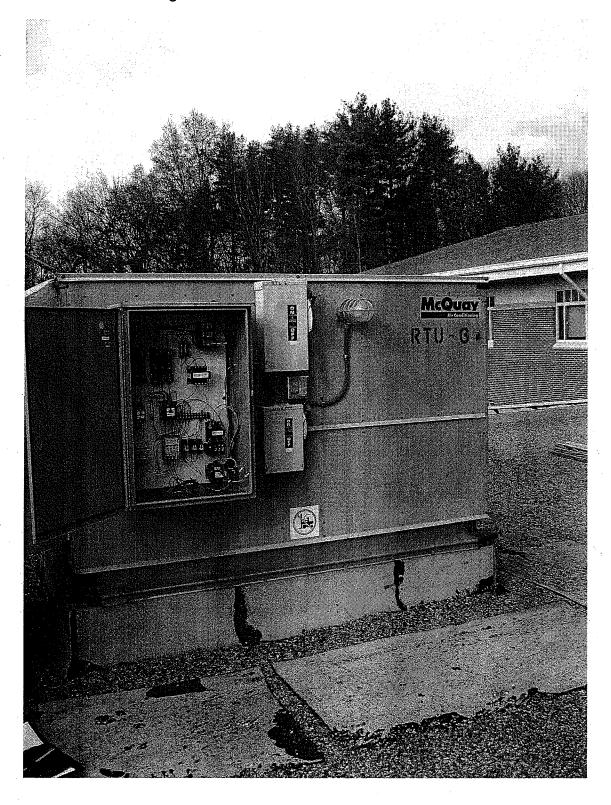


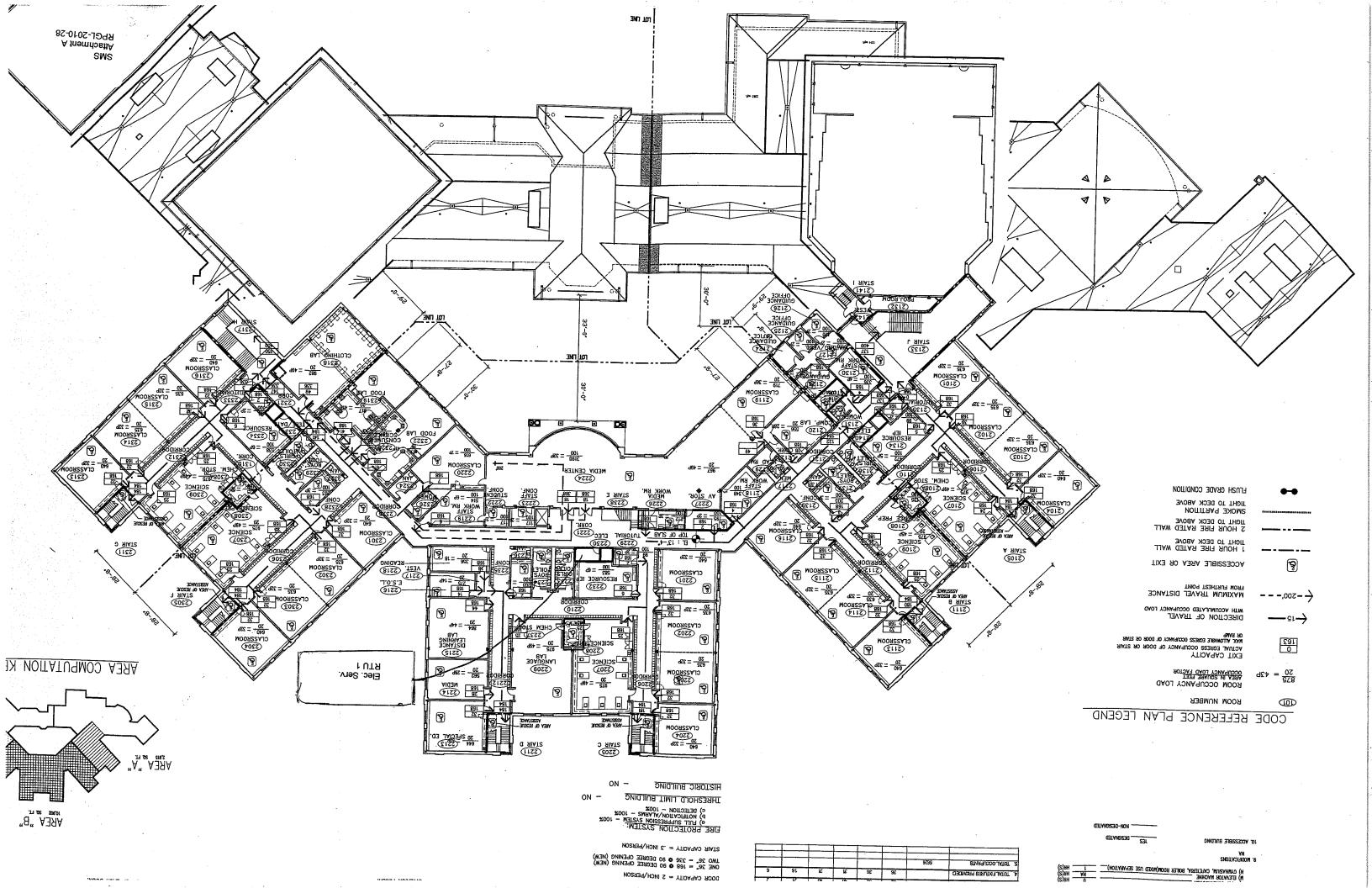


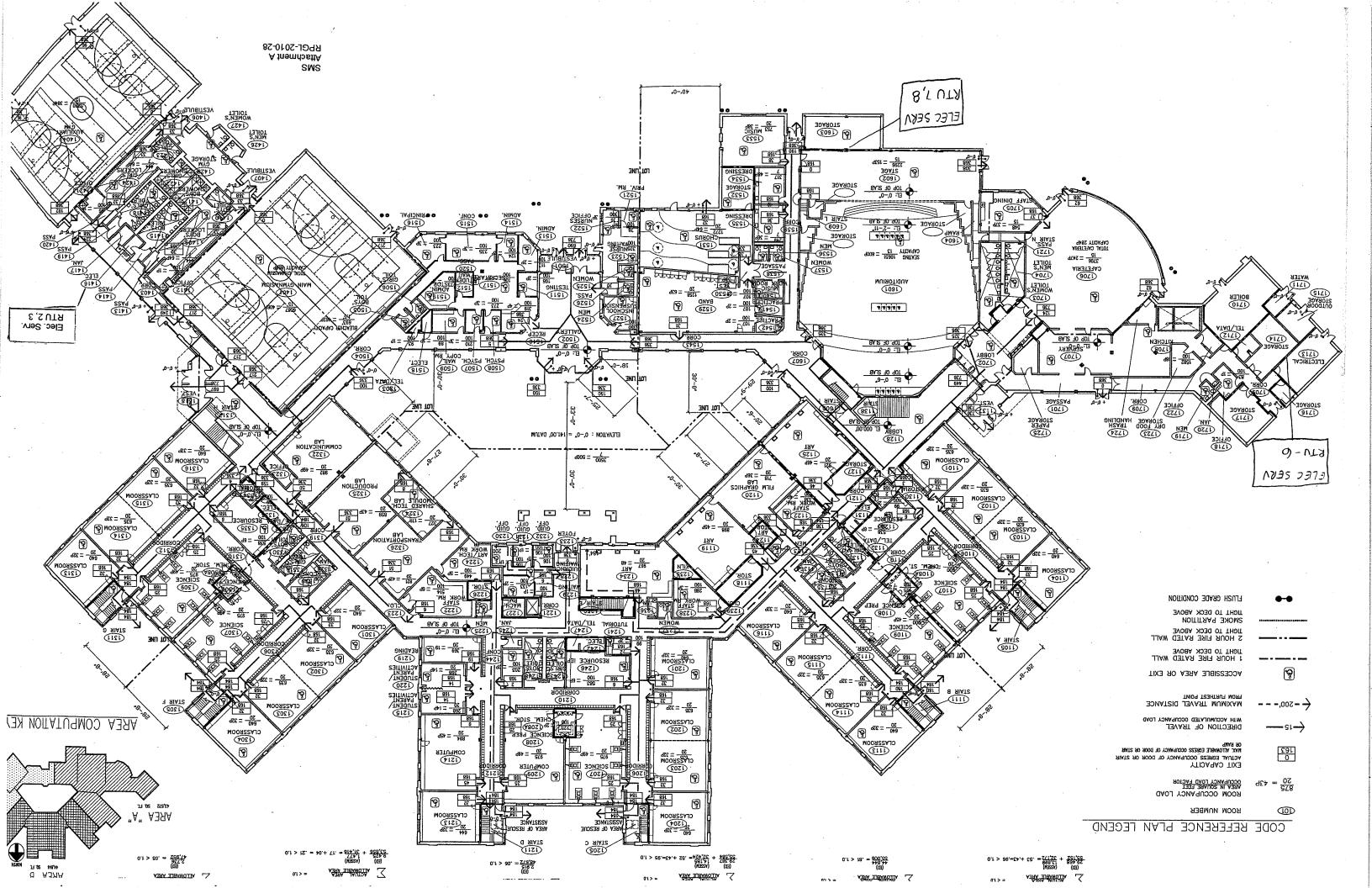
High School Cafeteria Unit

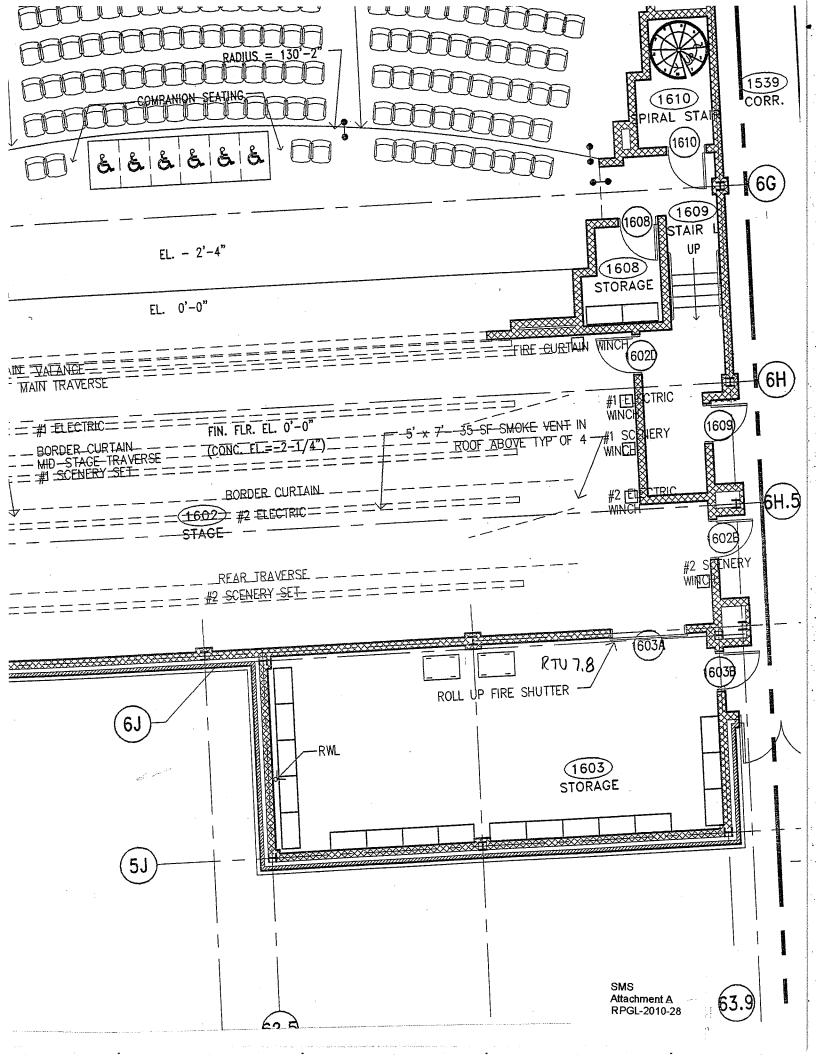


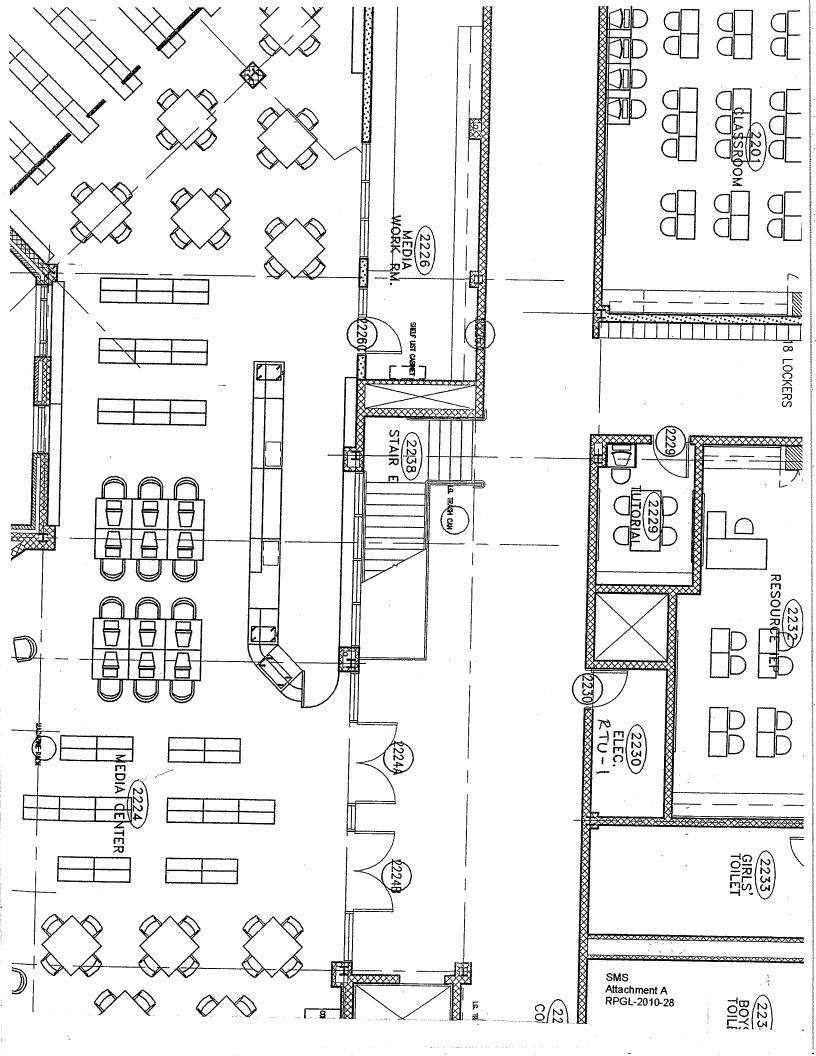
Existing RTU Enclosure for Cafeteria Unit Middle School

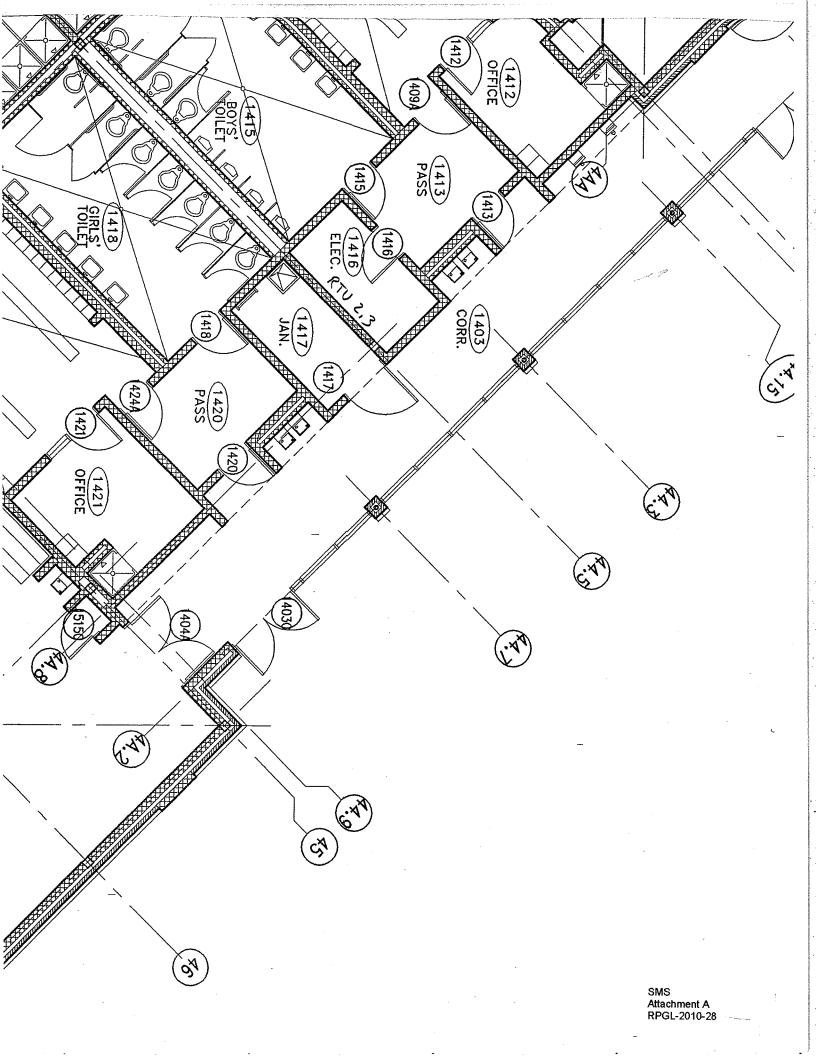


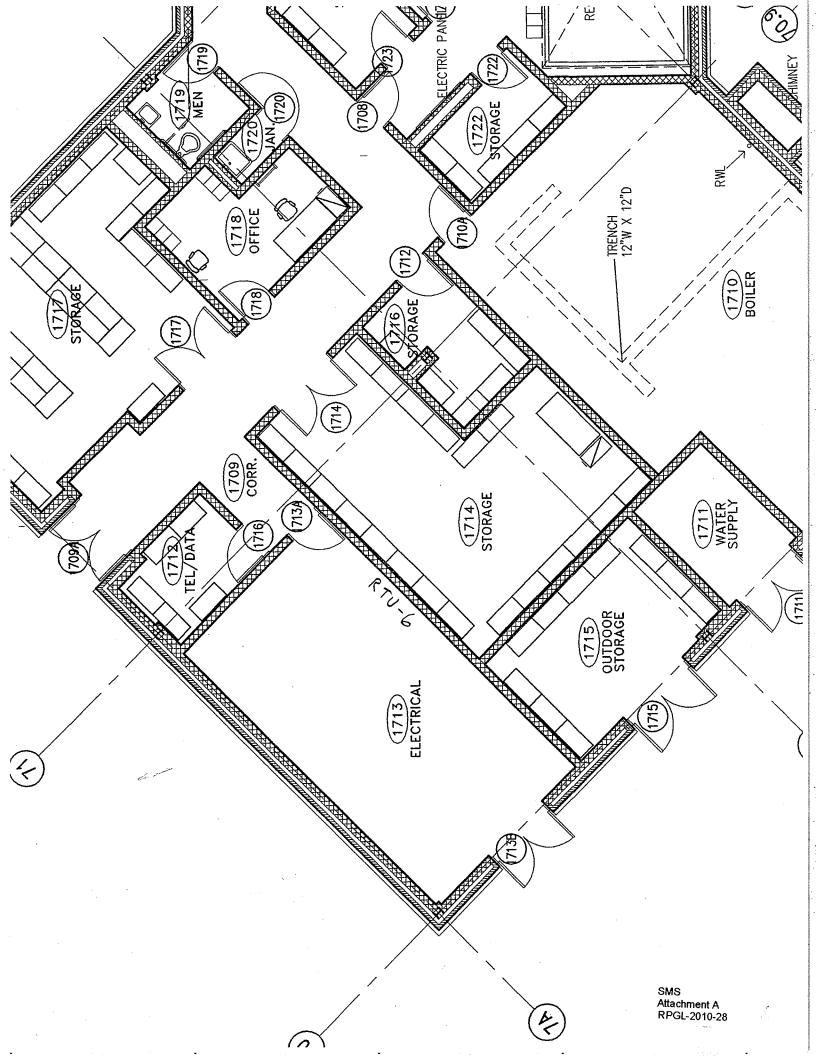


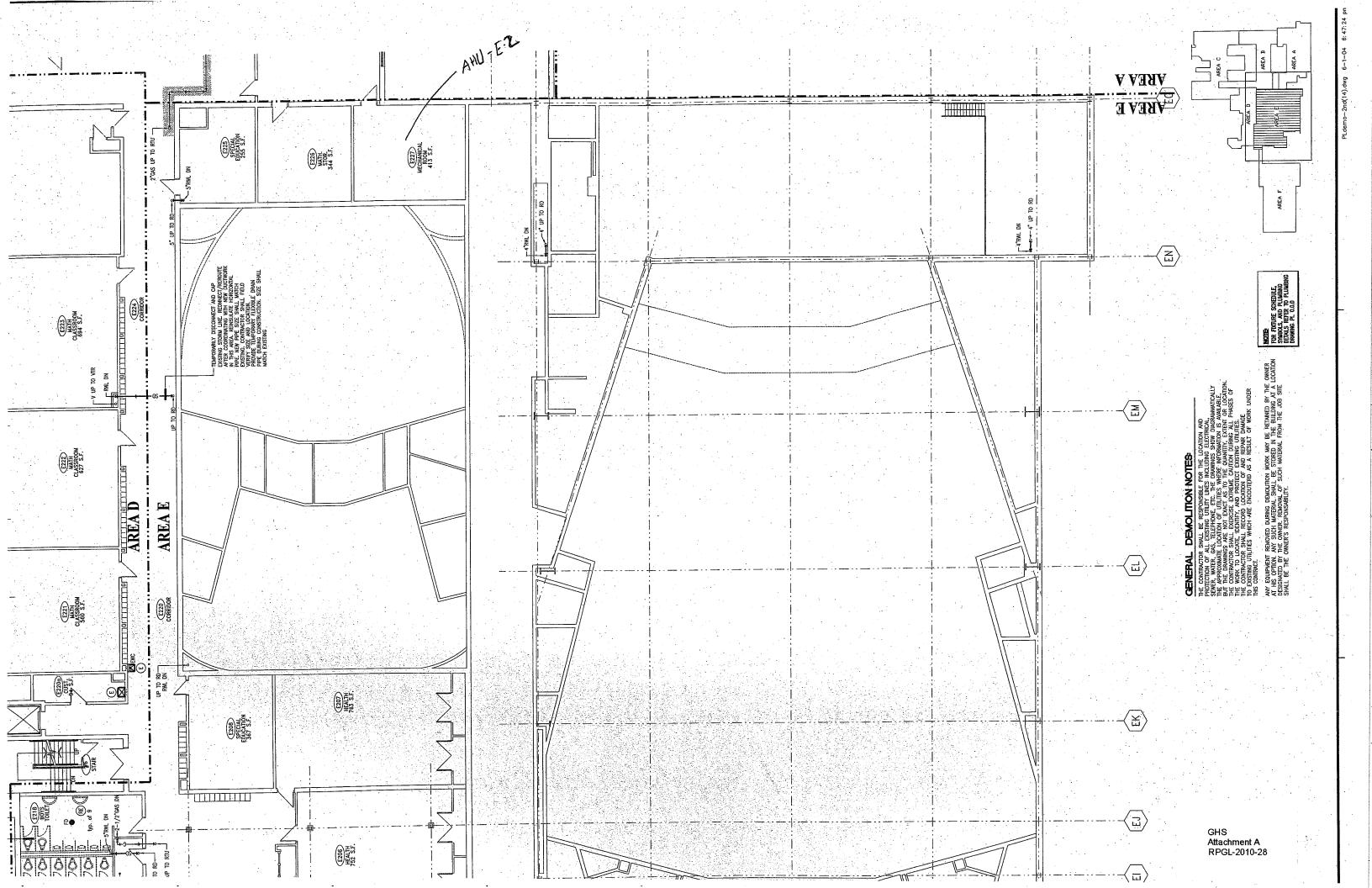












& CONDENSATE PIPING ÆS, PIPE HANGERS AHU.

JR DUCT UP TO JF DECK.

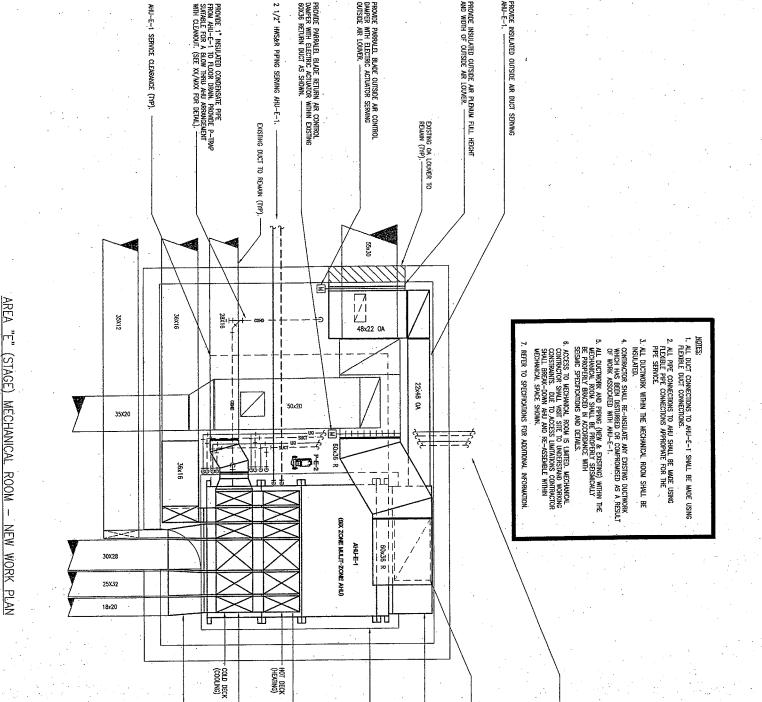
35X20 TO BE REMOVED EXISTING TO REMAIN 30X28 25X32 18x20 - REMOVE AIR HANDLING UNIT IN ALL ASSOCIATED HARDWARE, SU AND CONTROLS. REMOVE ALL STEAM & CONDENSINCLUDING ALL VALVES, PIPE H AND TRIM SERVING AHU.

REMOVE SECTION OF DUCT TO INSTALL AND CONNECTION TO I (TYP).

LINETYPE LEGEND

GHS Attachment A RPGL-2010-28

AREA "E" (STAGE) MECHANICAL ROOM --SCALE: 1/4"=1,-0" DEMOLITION PLAN



TAL RETURN AIR NUM DIMENTIONS SHALL F 138"L x14"Wx60"H.

PAD USING VIBRATION ISOLATORS UBERS AND RESTRAINTS IN ACCORDUS AND DETAILS.

SUCTION AND HOT GAS IN ACCORDANCE WITH GO UNIT MANUFACTURER'S ENDATIONS.

entionms plus 6" (all sides) 2. Pad dimentions shall 1. Pousekeeping pad

VARIFY EXACT PIPING ROUTE
H WITH EQUIPMENT MANUFACTURER
LING REFRIGERATION PIPING.
ALL FOLLOW MANUFACTURER'S COIL
NOATIONS AND REFRIGERATION

INNECTION AND TRANSITION 5x25 OA DUCT TO OA JF AHU-E-2.

L BLADE OUTSIDE AIR CONTROL CTRIC ACTUATOR FOR SERVING AHU-E-3.

AREA "E" (STAGE) MECHANICAL ROOM — SCALE: 1/4"=1,-0"

FOR SYMBOL LIST AND ABREWATIONS REFER TO SHIEFT M 0.0.0

IN SUCH A WAY THAT WILL ALLOW EASY ACCESS TO VALVES.
PES SHALL RUN BELOW DUCTS.
INNECTIONS SHALL BE MADE FROM THE BOTTOM OR
THE BOTTOM OF MAINS.
ALL HIGH PORTS AND AT RETURN SIDE OF RADIATION.
VALVES WITH HOSE CONNECTION AT ALL LOW POINTS.

WALL TO WALL AND AROUND COLUMNS. THERE SHALL BE NO

1. ALL DUCT CONNECTIONS TO EQUIPMENT SHALL BE FLEX CONNECTION TYPE.

1. ALL DUCT CONNECTIONS TO EQUIPMENT SHALL BE FLEX CONNECTION TYPE.

2. INSTALL HOTS WITH CLEANAGE FOR SERVICE.

2. INSTALL HOTS WITH CLEANAGE FOR SERVICE.

3. REFER TO SOURCE TO AS SHEET IN CO.O.O.

4. PROVIDE VOLUME DAMPERS WITH COCKING COURDINATS AT ALL TWEE-OFFS.

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5. DAMPINGS ARE DUKROMANIATIC AND SHONE GENERAL INTERT OF WORK, NOT

5. DAMPINGS ARE DUKROMANIATIC AND SHONE BEAUNS.

5. THE LOCATION OF ALL DEPLUSERS, RECISTERS AND GRULES SHALL BE CORDINATED

WITH THE ARCHITECTURAL BEAUTED CRUME PLANS.

6. THE SURPLY ARE STEEDLE SHALL BE FLUENDED AND SHALLES SHALL BE CORDINATED

WITH THE ARCHITECTURAL BEAUTED CRUME PLANS.

6. ALL DUCTHORN ELEDONS ARE TO BE FULL ROURS OR SOURCED WITH TURNING WARES.

6. ALL LOUTHORN ELEDONS ARE TO BE FULL ROURS OR SOURCED WITH TURNING WARES.

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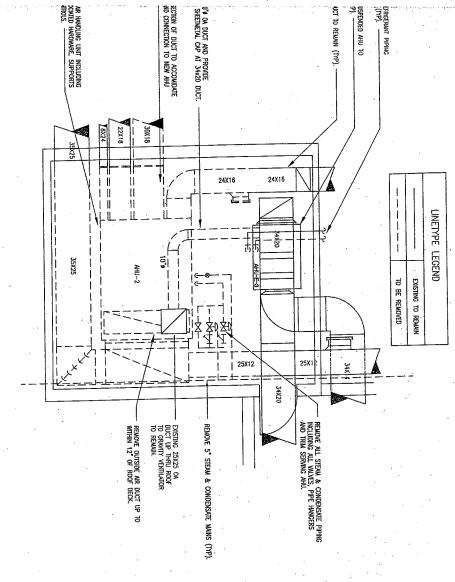
6. ALL LOUTHORN ELEDONS ARE TO BE FULL ROURS OF SOURCED WITH TURNING WARES.

6. ALL LOUTHORN ELEDONS ARE TO BE FULL ROURS OR SOURCED WITH TURNING WARES.

6. ALL LOUTHORN ELEDONS ARE TO BE FULL ROURS OR SOURCED WITH TURNING WARES.

6. ALL LOUTHORN ELEDONS ARE TO BE FULL ROURS OR SOURCED WITH TURNING WARES.

6. ALL LOUTHORN ELEDONS ARE TO BE FULL ROURS FOR ALL RETURN RECISIERS OPENED TO THE PLENUM GELING.

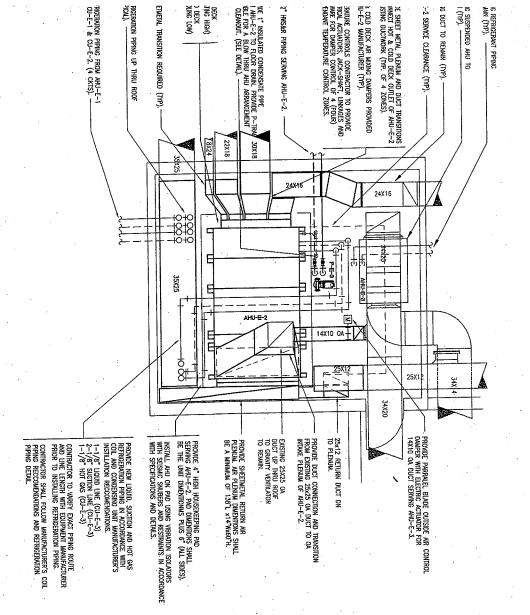


GHS Attachment A RPGL-2010-28

MECHANICAL ROOM E227
SCALE: 1/4"=1,-0" - DEMOLITION PLAN

- ALL DUCT CONNECTIONS TO AHU-E-2 SHALL BE MADE USING TEXNEL DUCT CONNECTIONS.

 ALL PIPE CONNECTIONS TO AHU SHALL BE MADE USING FLEXIBLE PIPE CONNECTIONS APPROPRIATE FOR THE PIPE SERVICE.
- ALL DUCTWORK WITHIN THE MECHINSULATED.
- CONTRACTOR SHALL RE-INSULATE ANY EXISTING DUCTWORK WHICH HAS BEEN DISTURBED OR COMPROMISED AS A RESULI OF WORK ASSOCATED WITH AHU-E-2.



MECHANICAL ROOM E227
SCALE: 1/4"=1,-0" NEW WORK PLAN

- PIPING ABOVE FLOOR SHALL RUN UNDER THE RADIATION COVER. UN WALL TO WALL AND AROUND COLUMNS. THERE SHALL BE NO 3.

- I, N. SUCH A WAY THAT WILL ALLOW EASY ACCESS TO VALVES. PPES SHALL RUN BELOW DUCTS.

 CONNECTIONS SHALL BE MADE: FROM THE BOTTOM OR A THE BOTTOM OF MANS.

 I YALVES WITH HOSE CONNECTION AT ALL LOW POINTS.

- ACCHICL/PROWNELS.

 CONTRACTOR SMALL PROVIDE RETRIGERANT PIPMS AND PITCH BOXES.

 CONDENSATE PIPMS SHALL BE COPPER

 CONDENSATE PIPMS SHALL BE COPPER

 CONTRACTORS AND SHOW GENERAL WITCH OF WORK

 ALL CONTRACTORS AND SHOW GENERAL WITCH OF WORK BEGINS.

 THERE SHALL BE NO EVOSED PIPMS PIPES SHALL RUN CONCRALED ABOVE CELLING

 THERE SHALL BE NO EVOSED PIPMS PIPES SHALL RUN CONTRACTORS FAMLT PROVIDE PIPE

 TAKES AND THERE WOT POSSED FIPMS PIPES SHALL RUN ON WARM SIDE OF THE INSULATION

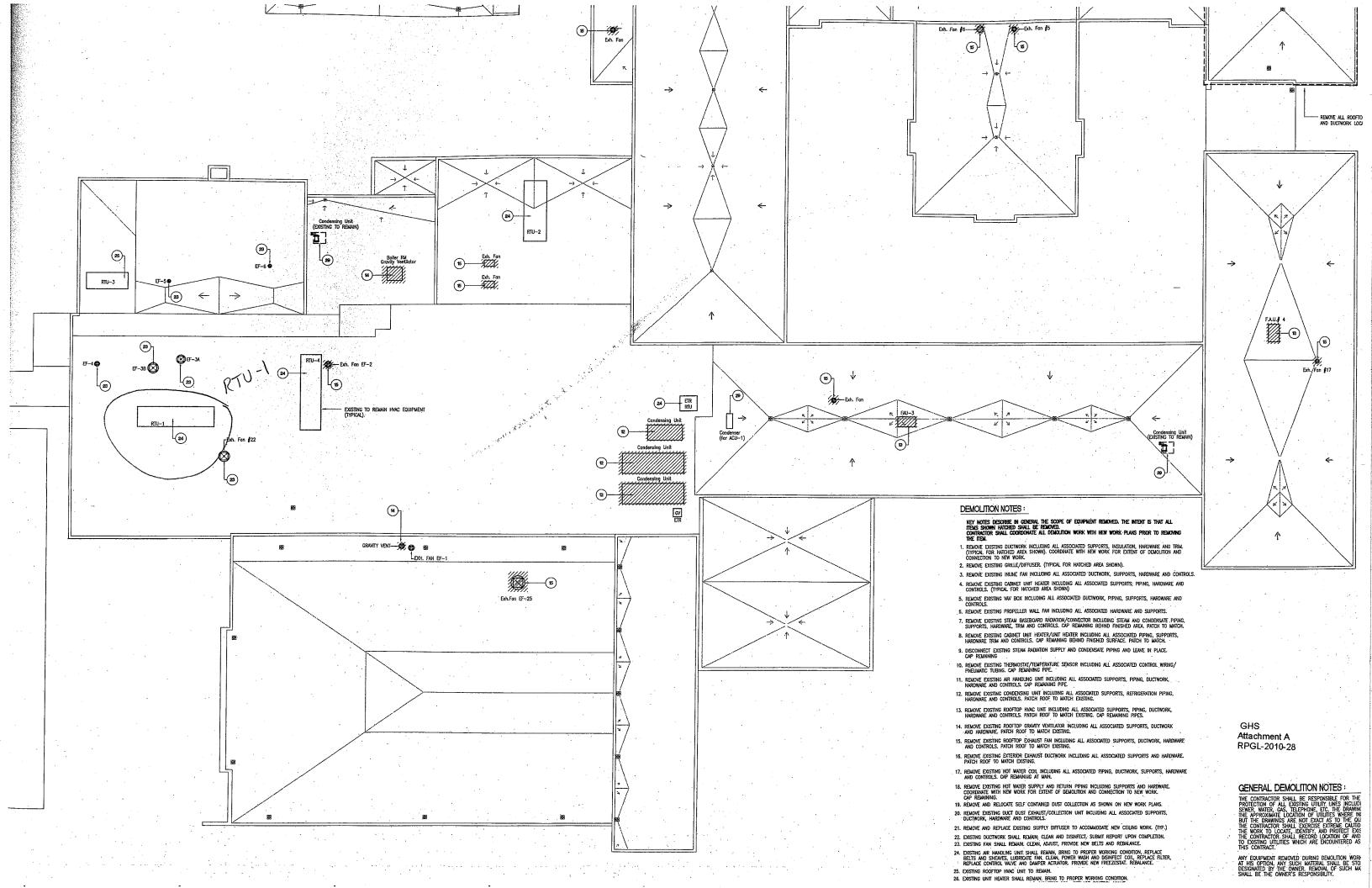
PROVIDE INSULATED OUTSIDE AIR PLENUM FULL HEIGHT PROVIDE PARRALEL BLADE OUTSIDE AIR CONDAMPER WITH ELECTRIC ACTUATOR SERVING OUTSIDE AIR LOUVER. PROVIDE PARRALEL BLADE RETURN AIR CONTROL DAMPER WITH ELECTRIC ACTUATOR WITHIN EXISTI 60X36 RETURN DUCT AS SHOWN. PROVIDE 1" INSULATED CONDENSATE PIPE FROM AHU-E-1 TO FLOOR DRAIN, PROVIDE P-TRA SUITABLE FOR A BLOW THRU AHU ARRANGEMENT WITH CLEANOUT. (SEE XX/MXX FOR DETAIL). 2 1/2" HWS&R PIPING SERVING EXISTING OA LOUVER TO

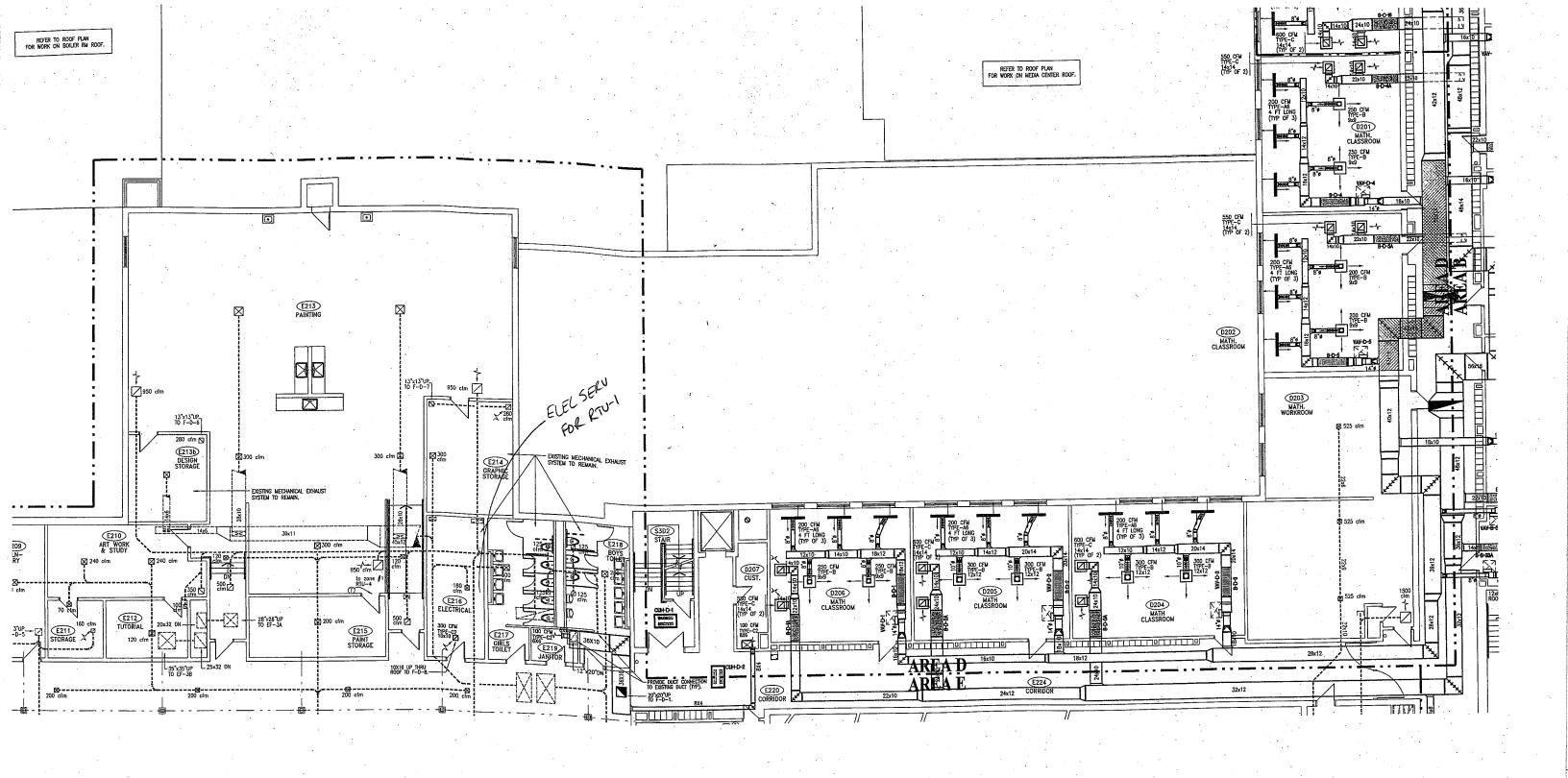
- NTS AT ALL TAKE-OFFS
 INDIADE TYPE
 INTENT OF WORK, NOT
 COURT COORDINATE EQUIPMENT
 COURT
- ALL DICHMORE LEBOWS ARE TO BE FULL RADIUS OR SOUNED WITH TO PROVIDE SHORE ABOVE COLUMN SHALL BE PLENUM BASTT.

 10. PROVIDE SHEET HEIZH, BOX PANHTED.

 10. PROVIDE SHEET HEIZH, BOX PANHTED.







GHS Attachment A RPGL-2010-28

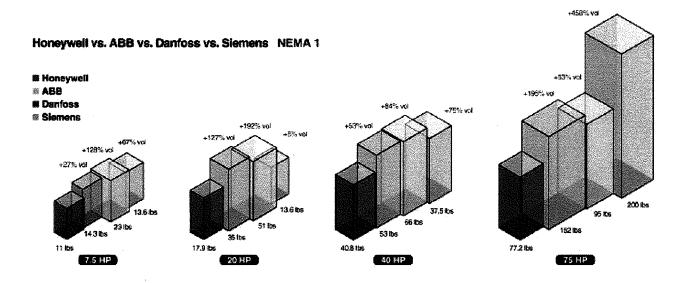
GENERAL NOTES

- 1. ALL DUCT CONNECTIONS TO EQUIPMENT SHALL BE FLEX CONNECTION TYPE. CONTRACTOR SHALL USE MAX. 5'-0' FLEX DUCT.
 2. INSTALL UNITS WITH CLEARANCE FOR SERVICE.
 3. REFER TO SYMBOL UST ON SHEET M 0.0.0
 4. PROVIDE VOLUME DAMPERS WITH LOCKING QUADRANTS AT ALL TAKE-OFFS DAMPERS IN DUCTS 12'AND MORE SHALL BE MULTIBLUDE TYPE.

VFD Competitive Comparisons

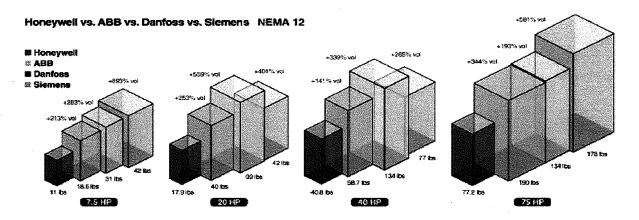
Honeywell's VFDs are dramatically smaller than competitive brands. In the images below, we have compared Honeywell's VFD size against ABB, Danfoss and Siemens in both NEMA 1 and NEMA 12.

Critical Note: Both Danfoss and Siemens require an additional enclosure and/or bypass for AC Choke. This WILL further increase the size and weight discrepancy. Honeywell Drives have integrated AC Chokes!



NEMA I	но	NEYW	ELL									ANFOS	s				SIEMEN		
HP	W H	D	*	WT.	w	н	D	٧	WT.	W	н	D	Y	WIT.	W	Н	D	V	WT.
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20	57 154	8,4	737	17.9		23	9.1	1674	35	9.5	22.1	10.2	2152	51	7.3	13.8	7.7	778	13.6
40	7.7 20.4	9.3	1461	40.B	8	27.1	10.3	2233	53	9.5	27.6	10.2	2593	56	10.8	24.6	9.6	2551	37.5
75	9.3 23.3	10.1	2189	77.2	118	346	15.8	8451	152	12.1	31.5	11.7	4451	95	16	54.5	14	12208	200

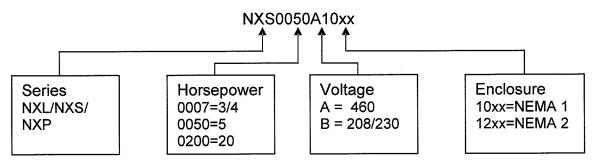
(1 horsepower = 0.745699872 kilowatts)



NEMA 12	HONEYWE	LL				Aleib				į	ANFOS	5				SIEMEN	5	
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7.5 5.4 20 5.7	11.5 7.5 15.4 8.4	466 737	17.9	8.7 10.5	18.2 24.8	9.2	1457	18.6 40	11.1 13.6	31.9	7,7	1786 4842	31	13.8	23,9 23,9	112	3694 3694	42 42
40 7.7	20.4 9.3	3461	40.8	10.5	29.9	11.2	3516	58.7	15.8	37	11	5410	134	14.2	27	13.9	5329	77
75 9.3	23.3 10.1	2189	77.2	16.1	36.4	16.6	9728	190	15.8	37	11	6410	134	17.7	45,3	18.6	14914	17A

(1 horsepower = 0.745699872 kilowatts)

PRODUCT IDENTIFICATION SYSTEM



(1 horsepower = 0.745699872 kilowatts)

Note: When selecting by Hp - and the drive is to be used with a motor with 8 poles or more verify the current capacity of the drives is sufficient. The NX drives are suitable for multi-motor application. The NX drives are suitable for multi-motor applications. The total value of the rated motor currents must then be less than the rated drive current. If the motors are required to start on a running drive, the starting current of the largest motor must be added to the total value of the running currents.

http://customer.honeywell.com/NR/rdonlyres/8C990CE6-BE95-45E5-86C7-FE60EC2D966F/1734/63 9251VFDQuickSelectionGuide LoRez.pdf

Model Number & Transfer Price

Please refer to you Regional Marketing for more information.

PRODUCT AVAILABILITY

Jul. 1, 2006

CONTACT INFORMATION

Regional Marketing

CHN/HK Xu, Hua(CH04) Chen, Jason(TW01) TWN SEA Choong, Eleanor(SN01) Rao, Sanjeev(IE03x) India Morita, Kazuteru(JA25) JPN Kim, KP(KO06) KOR

Littleton, Bronwen(AS01) **PAC**

Customer Care support

CHN/HK Yu, Jie(CH01) Chou, Sunny(TW01) TWN Tan, Christina(SN01) SEA Setty, Roy(IE03x) India

Yamazaki, Yasuhiro(JA25) JPN

Kim, WD(KO06) KOR

Murray, Elizabeth(AS01) PAC

LITERETURE

♦ Slimline VFD Bypass Assembly sell sheet

http://customer.honeywell.com/NR/rdonlyres/13A96B5D-9919-4DBA-B77A-5BB7E8F7111D/1736/63 9468VFDSlimlineBypassAssemblySellSheet LoRez.pdf

♦ Cool Blue Bypass Assembly brochure

http://customer.honeywell.com/NR/rdonlyres/80764249-1E42-4000-86B9-FD6652E11E2E/1735/63 9463CoolBlueVFDBypassAssemblyBrochure LoRez.pdf

♦ VFD Product line brochure

http://customer.honeywell.com/NR/rdonlyres/05A531AF-5615-49FA-98B4-485211B25A6B/1733/63 9464VFDProductLineBrochure LoRez.pdf

♦ NXL Series – Guide Specification

C \ Documents and Set t i ngs\ e332029\

Training Presentation

D\ Cl ndy\ Honeywel I XL5000\

CHOOL YEAR AT A 2009 2016

SCHOOL BEGINS: Sept 1 Grs. 7-12



Professional Development Early Dismissal Gideon Welles, SMS, & GHS October 8, 2009 February 4, 2010 March 11, 2010

*SCHOOL ENDS: JUNE 16

SCHO	OOL BE	GINS:	Sept 2	2 Grs.	K-6	
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JANU	ARY 2	010	Gr 7	-12 18	DAYS	

Gr. K<u>-6</u> 19 DAYS 1

8

15

22

29

12

19

APPROVED:02.26.07 REVISED 09.22.08

18

13

14

21

AUG 31	Teacher Work Day
SEPT 1	FIRST DAY OF SCHOOL, GRADES 7-12 Teacher Work Day, Grades K-6
SEPT 2	FIRST DAY OF SCHOOL, GRADES K-6 FULL DAY
SEP 7	Labor Day
SEP 28	Yom Kippur
OCT 8	Early Dismissal GW, SMS, GHS Only
OCT 12	Columbus Day
NOV 3	Election Day - No School for Students
NOV 25 NOV 26-27	Early Dismissal Thanksgiving Recess
DEC 24- JAN 1	Holiday Recess (Includes Christmas and New Year's Day)
JAN 18	Martin Luther King Day
JAN 21-26	Grades 7-12: Mid-Term Exams (Early Dismissal Grades 9-12)
△JAN 27	Gr. 7-12 No School for Students Teacher Work Day, Grades 7-12
FEB 4	Early Dismissal GW, SMS, GHS Only
FEB 15-19	Winter Recess (Includes Presidents' Day)
MAR 11	Early Dismissal GW, SMS, GHS Only
APR 2	Good Friday
APR 19-23	Spring Recess
MAY 31	Memorial Day
Last 4 Days	Final Exams, Grades 7-12 (Early Dismissal Grades 7-12)
Last Day	Projected Last Day – June 16 Early Dismissal Grades 1-12 (PM K will attend AM Session)
	Projected Teacher Work Day – June 17 Teacher Work Day will be the first work day following the last day for students.
	SCHOOL CLOSED

	*SCF	IOOL I	ENDS:	JUNE	16	
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made up by extending the school year in June up to 9 days.

If additional days are needed, they will be taken from the Spring Recess, beginning April 19.

TTENTION CONTRACTOR APPROVED FORM FOR YOUR FILES-NOTE ANY COMMENTS BOTTOM OF PAGE 2 - APPROVAL REQUIREMENTS \square APPLICATION DENIED-SEE BOTTOM PAGE 2 GLASTONBURY PUBLIC SCHOOLS OFFICE OF DISTRICT SAFETY OFFICER Dr. Kenneth R. Roy Telephone: (860) 652-7200 Ext. 2002 Director of Environmental Health & Safety Fax: (860) 652-7275 330 Hubbard St. E-mail: royk@glastonburyus.org Glastonbury, CT 06033-3099 CONTRACTOR COMPLIANCE FORM Notice to Contractors: In concert with, but not limited to, all OSHA General Industry and Construction standards, EPA, NFPA, AHERA, and building codes, contractors conducting work activities at/on any Glastonbury Public School District property are required to provide the following information: THIS FORM MUST BE COMPLETED AND APPROVED **NOTICE:** 3 DAYS PRIOR TO COMMENCING ANY OPERATIONS Once approved, the form will be returned to the originator. Approval is conditional relative to noted specifications by GPS Safety Officer/Director of Environmental Health and Safety. 1. Project Information: **Project Description:** Location: **Start Date: Completion Date: Contractor Safety Officer** Phone: Fax:

Permit Prepared By:

Date Prepared:

Project Scope	Yes	No	Comments
Confined Spaces*			
Electrical Work			
Forklift			
Hazardous Materials			
Ladders/Scaffolds			
Respirators			
Rigging/Lifting			
Welding**			
Asbestos Management***			
Other			

Hot permits are required from GPS Safety Compliance Officer prior to "hot" work.

Contractors need to secure "Confined Space Program" form and seek approval from GPS Safety Compliance Officer 3 days prior to working in permit confined spaces.

Contractors need to secure Asbestos Management plan from Glastonbury Public Schools prior to all construction/demolition work.

2. Provide district safety officer with Materia	al Safety Data Sheets (MSDS	f) for all materials used on-site.
LIST EITHER CHEMICAL OR TRA	DE NAME OF EACH ATTA	ACHED MSD SHEET BELOW
 In cases of hazardous waste production, a District Safety Director, 5 days prior to in 4. All contractors and/or their personnel are OSHA and other appropriate safety state project supervisor). All on-site activities carried out by contract maintain a safe working environment for visitors. Contractor employees found to be in non-District Safety Officer. Contractors found to be in non-compliance termination. The district reserves the right to inspect the positive of a contractor of the district may require review of a contractor. 	itiation of work for those materequired to be in compliance indards when working on site extors, and/or their employees, or all Glastonbury Public Schemon compliance may be removed the will be subject to forfeiture worksite at any time for safactors OSHA 200/300 log for	terials disposed of on site. e with all EPA, NFPA, AHERA and e (under the direction of a contractor's , must be done in such a manner as to tools' employees, students and d from the District worksite by the e of payment and/or contract afety compliance.
Please type company name and address be	RETURN TO:	
	Dr. Kenneth Roy,	Safety Compliance Officer
	E-mail: roy	k@glastonburyus.org
By signature, the contractor agrees to adhere	to all components and the sp	pirit of this document.
Signature of Contractor	Tiţle	Date
t		
INTERNAL USE ONLY APPROVAL STATUS: NO	NOTE TO CONTRA THE FOLLOWING	CTOR: APPROVAL CONTINGENT ON ITEMS:
GPS Safety Officer: Date:		
c: Maintenance Office File		
Contractor		
Safety Officer Roy		
Building Principal/Supervisor		•
Other)		
(Other)		

ATTACHMENT B PROPOSAL RESPONSE PAGE

TOWN OF GLASTONBURY		DDOI #	0040 00							
PROPOSAL DATE ADVERTISED		RPGL # DATE / TIME DUE	2010-28 January 13, 2010 @ 11:00 a.m.							
NAME OF PROPOSAL	P	Provide and Install Variable Frequency Drives REQUEST FOR PROPOSAL								
Pricing proposal	s shall be f	ormatted as shown	on the next page							
CODE OF ETHICS: I / We have reviewed a copy of Consultant Acknowledgement										
*Respondent is advised that ef any proposal where the respon										
The Respondent acknowledg	ges receipt of tl	ne following Addendums:								
Addendum #1	Date:									
Addendum #2Addendum #3	Date:									
Type or Print Name of Individu	al	Doing Business as (Trade Name)								
Signature of Individual		Street Address								
Title		City, State, Zip Code								
Date		Telephone Number / Fax Number								
E-Mail Address		SS # or TIN#								
(Seal – If proposal is by a Corpor	ration)	A444								
		Attest								

VFD REQUIREMENTS FOR RCX

SMITH MIDDLE SCHOOL

		ı				:	
Unit	Area Served	Measure	Type	Contractor to Provide VFD	Install	Proposed Pricing Labor Material	l Pricing Material
RTU-1	Media Center	EO	1 x 20 HP	N _o	Yes		
RTU-1	Media Center	E O	1 x 10 HP	1 x 10 HP	Yes		
RTU-2	Gym	OCC-1	1 x 5 HP	No	Yes		
RTU-2	Gym	OCC-1	1 x 5 HP	No	Yes		
RTU-3	Gym	OCC-1	1×5HP	1x 5 HP	Yes		
RTU-3	Gym	OCC-1	1×5HP	1x 5 HP	Yes		
RTU-4	Administration	HV-1					
RTU-5	Administration HV-1	HV-1					
RTU-6	Cafeteria	E0	1 x 15 HP	No	Yes		
RTU-6	Cafeteria	<u>B</u>	1 x 7.5 HP	No	Yes		
RTU-7	Auditorium	SCC-3	1 x 10 HP	No	Yes		
RTU-7	Auditorium	0CC-3	1×5HP	No	Yes		
RTU-8	Auditorium	0CC-3	1 x 10 HP	No	Yes		
RTU-8	Auditorium	S-220	1 x 5 HP	No	Yes		
GLASTO	GLASTONBURY HIGH SCHOOL	CHOOL					
Unit	Area Served	Measure	Туре	Provide	Install		
RTU-1	Cafeteria	EO	1 x 20 HP	No	Yes		
RTU-1	Cafeteria	E0	1 x 7.5 HP	No	Yes		
AHU-E-1	Auditorium	OCC-3	1 x 20 HP	1 x 20 HP	Yes		
AHU-E-2	Band/Choral	HV-5	1 x 10 HP	1 x 10 HP	Yes		
				Subtotal (Labor & Material)	r & Material)		
			Total Price (S	Total Price (Sum of Labor and Material Subtotals)	rial Subtotals		
Provide t	Provide the below listed additional pricing data:	additional pi	ricing data:				
	A. Premium r	ate for after l	A. Premium rate for after hours/holiday work				
	B. Unit price	mark-up for	B. Unit price mark-up for additional equipment and material	ıt and material		-	
	C. Hourly labor rates	or rates					
Mate: Mates		o openion; private	(/		-	Γ

ancillary materials. The need for enclosures for the VFDs may be dependent on the contractor's proposed solution, therefore, the contractor's technical proposal shall include which units are to be provided an enclosure and the material cost listed here shall include the enclosure, where appropriate. Note: Material price should include all VFDs (where necessary), enclosures (as necessary), and

ATTACHMENT C

TOWN OF GLASTONBURY PROCUREMENT NOTICE REQUEST FOR PROPOSAL Provide and Install VFDs at Various Schools RPGL-2010-28

NON-COLLUSION STATEMENT

The company submitting this proposal certifies that it is being submitted without any collusion, communication or agreement as to any matter relating to it with any other respondent or competitor. We understand that this proposal must be signed by an authorized agent of our company to constitute a valid proposal.

Date:	
Name of Company:	
Name and Title of Agent:	
By (SIGNATURE):	
Address:	
Telephone Number:	