ADDENDUM #1

Rye City School District

Osborn Elementary School

10 Osborn Road Rye, NY 10580 SED Number: #66-18-00-01-0-001-022 & #66-18-00-01-0-001-023

Midland Elementary School

312 Midland Avenue Rve. NY 10580 SED Number: #66-18-00-01-0-003-024 & #66-18-00-01-0-003-025

Milton Elementary School

10 Hewlett St Rye, NY 10580 SED Number: #66-18-00-01-0-002-015

Rye High School/Middle School

1 Parsons Street Rve, NY 10580 SED Number: #66-18-00-01-0-005-031 & #66-18-00-01-0-005-032

Issued for Bid: 2021-01-29

PROJECT TEAM

<u>Architects</u> **Geddis Architects**

71 Old Post Road, Suite 101 P.O. Box 1020 Southport, CT 06890 Phone: (203) 256-8700

Fielding International

259 Water Street, Suite 1L Warren, RI 02885 Phone: (401) 289-2789

Construction Manager

Savin Engineers, PC 3 Campus Drive Pleasantville, NY 10570 Phone: (914) 769-3200

Structural Engineer

Odeh Engineers 1223 Mineral Spring Ave North Providence, RI 02904 Phone: (401) 724-1771

Civil Engineer Weston & Sampson, PE, LS, LA, PC 1 Winners Circle, Suite 130 Albany, NY 12205 Phone: (516) 463-4400

MEP Engineer Barile Gallagher & Associates Consulting Engineers 39 Marble Avenue, 2nd Floor Pleasantville, NY 10570 Phone: (914) 328-6060

Acoustic Consultant

DP Design Providence, RI 401-861-3218

AV Consultant CAVANAUGH TOCCI 12 Cold Spring Street 327 F Boston Post Road Sudbury, MA 01776 978-443-7871

Environmental **Quest Environmental Solutions &** Technologies, Inc. 1376 Route 9 Wappingers Falls, NY 12590 845-298-6031

The work shall be carried out in accordance with the following supplemental instructions and in accordance with the Contract Documents.

DRAWINGS:

OSBORN:

Electrical

- 1. Refer to Revised drawing: E2-001 Legend Abbreviations and Notes
- 2. Refer to Revised drawing: E2-103 Part First Floor Demolition Plan-Project 1, 1A & 1B.
- 3. Refer to Revised drawing: E2-203 Part First Floor Lighting Plan-Project 1, 1A & 1B.
- 4. Refer to Revised drawing: E2-302 Part First Floor Power Plan-Project 1 & 2.
- 5. Refer to Revised drawing: E2-501 Electrical Riser.

MIDLAND:

<u>HVAC</u>

- 1. Drawing H2-302 Schedules
 - a. Schedule of VRF Ductless Heat Recovery Multi-Split Systems
 - i. HP-3 Part Model number shall be changed from V5 to VS.

<u>Electrical</u>

- 1. Refer to Revised drawing: E2-104 Grey Box Electrical Removals, Lighting, Power, And Fire Alarm Plan-Project 1B.
- 2. Refer to Revised drawing: E2-202 Partial First Floor Lighting Plan-Project 1A, 2.
- 3. Refer to Revised drawing: E2-203 Partial First Floor Lighting Plan-Project 1B.
- 4. Refer to Revised drawing: E2-303 Partial First Floor Power and Fire Alarm Plan-Project 1C.
- 5. Refer to Revised drawing: E2-304 Roof Power and Fire Alarm Plan-Project 1D.

MILTON:

Electrical

1. Refer to Revised drawing: E2-201 New Electrical Lighting Plan -Project 2, 2C.

- Refer to Revised drawing: E2-301 New Electrical Power and Fire alarm Plan -Project 2,2A2B,2C.
- 3. Refer to Revised drawing: E2-501 Electrical Riser.

HIGH SCHOOL & MIDDLE SCHOOL:

1. T2-100:

a. Drawing C2-005 added.

- 2. C2-001:
 - a. Site plan revised to show added scope as part of Project 2.
- 3. C2-002:
 - a. SED number corrected.
- C2-003:
 a. SED number corrected.
- 5. C2-004:
 - a. SED number corrected.
- 6. C2-005:
 - a. New sheet to show added stairs and landing at existing exterior door as part of project 2.
- 7. HSMS-ASB-101:
 - a. Add Removal identification numbers 7 & 8, with associated notes. Changes are bubbled on drawing.
- 8. D2-101:
 - a. Ceiling work for conduit routing removed in area indicated. Electrical Conduit routing moved to tunnel. See revised Electrical Drawings.
- 9. A2-400:
 - a. Updated finish of fixture WM1; Update fixture WM4.
- 10.A2-511:
 - a. Detail 1: Refinish existing historic lobby desk.
 - b. Detail 2: Revise extent of demolition of existing wall finishes as shown.
- 11.A2-512:
 - a. Detail 2: Add Power and data at location shown.
 - b. Detail 3: Revise extent of layout of hidden cove light in Lobby at trim as shown; Refurbish and reinstall existing historic chandelier in Lobby; add light at new door to vestibule 104B.

12.A2-517:

a. Add outlets as shown and coordinate with owner's casework vendor for installation.

13.A2-730:

a. Project numbers added.

14.A2-926:

- a. Drawings updated for coordination with owner's casework vendor.
- 15.A2-928:
 - a. Drawings updated for coordination with owner's casework vendor.

<u>HVAC</u>

- 1. Drawing H2-301 Schedules
 - a. Schedule of indoor VRF Ductless Heat Pump Units
 - 1. Add note 7 to include Expansion Valve Kit and Communication control kit with each AHU/ERU unit getting a DX Coils (One for each DX coil).

2. Drawing H2-302 Schedules

- a. Schedule of Unit Ventilators
 - 1. Revised unit manufacturer from Tempspec inc. to SystemAir/ChangeAir System.

<u>Electrical</u>

- 1. Refer to Revised drawing: E2-101 High School Middle School Part First floor Removal Plan-Project 1.
- 2. Refer to Revised drawing: E2-201 High School Middle School Part First Floor Lighting Plan -Project 1.
- 3. Refer to Revised drawing: E2-203 High School Middle School Part First Floor Lighting Plan -Project 1.
- 4. Refer to Revised drawing: E2-204 High School Middle School Part First Floor Lighting Plan -Project 1 & 2.
- 5. Refer to Revised drawing: E2-206 High School Middle School Part Third Floor Lighting Plan -Project 3.
- 6. Refer to Revised drawing: E2-302 High School Middle School Part First Floor Power and FA Plan-Project 1 & 3.
- 7. Refer to Revised drawing: E2-304 High School Middle School Part First Floor Power and FA Plan-Project 1 & 2.
- 8. Refer to Revised drawing: E2-306 High School Middle School Part Second Floor Power and FA Plan-Project 1.

- 9. Refer to Revised drawing: E2-309 High School Middle School Part Third Floor and Basement Power and FA Plan-Project 1 & 3.
- 10.Refer to Revised drawing: E2-311 High School Middle School Electrical Conduit Routing.
- 11. Refer to Revised drawing: E2-501 High School Middle School Part Electrical Riser.
- 12. Refer to Revised drawing: E2-601 High School Middle School Electrical Schedules.

SPECIFICATIONS:

VOLUME 1:

1. Table of Contents Section 000001

a. Table of Contents Section 000001 for Volume 1 missing from specification, See attached.

2. Milestone Schedule Section 011100

a. In Specification Section 011100, subparagraph 1.02.C, please adjust the following dates:

Osborn School

| Phase 2 | |
|------------------------|-----------------------------|
| Commence Construction | 06/27/ 2021 2022 |
| Substantial Completion | 08/19/ 2021 2022 |
| Midland Cabaal | |

Midland School

| Phase 2 | |
|------------------------|-----------------------------|
| Commence Construction | 06/27/ 2021 2022 |
| Substantial Completion | 08/19/ 2021 2022 |

Rye High School/Middle School

| Phase 2 | |
|------------------------|-----------------------------|
| Commence Construction | 06/27/ 2021 2022 |
| Substantial Completion | 08/19/ 2021 2022 |

VOLUME 2 OSBORN:

- 1. Specification Section 23 0266 Variable Refrigerant Flow Indoor Units
 - a. Add the Following Paragraph:
 - "2.3 BMS Integration:

a. The VRF system shall be able to integrate with Building Management Systems via BACnet[™] IP gateway. This gateway converts between BACnet[™] IP or Modbus TCP protocol, and RS-485 LGAP (LG Aircon protocol) allowing third party control and monitoring of the LG A/C system, or LonWorks[™] gateways. See controls specification for points list."

2. Specification Section 23 0460 Automatic Temperature Controls

- a. 3.7 Sequences of Operation, Add the following:
 - A. VRF Ductless Split Ceiling, ducted Units, and Coils
 - 1. Point List
 - a. Space Temperature
 - b. VRF Space Temperature Setpoint
 - c. Occupied/Unoccupied
 - d. VRF Indoor Mode (Heating/Cooling)
 - e. VRF Indoor Unit fan speed
 - g. VRF Outdoor Mode/status

(Provide all required hardware and software to interface the BMS with the VRF system.)

- 2. Sequence of Operation
 - a. <u>Unoccupied Mode:</u> Cooling shall not operate. Heat pump shall operate as required to satisfy space temperature setback setpoint.
 - b. <u>Occupied Mode:</u> Cooling shall operate as required based upon its own packaged controls to maintain thermostat setpoint. Radiation (if applicable) shall operate as Stage 1 heating. Heating heat pump operation shall operate as Stage 2 to maintain space thermostat setpoint.

3. Specification Section 23 0265 VRF Outdoor Units

- a. Add the Following Paragraphs:
 - "2.2 EEV Kit
 - A. General
 - 1. Unit shall be manufactured by LG.
 - 2. Unit shall be factory assembled and wired unit shall be designed to be installed indoors only.
 - 3. Unit shall be capable to be installed with heat pump or heat recovery VRF system.

- 4. Unit requires one communication kit to provide power and control signals.
- 5. Connects liquid line piping from outdoor unit to any AHU coil.
- B. Electrical

1. Six conductor, 18 GA shielded and stranded field supplied wiring for 12 volt (low voltage) power and control signal from communication kit.

2.3 AHU COMMUNICATION KIT PAHCMR00 (RETURN AIR CONTROL)

A. General

- 1. Unit shall be manufactured by LG.
- 2. Unit shall be factory assembled and wired.
- 3. Unit shall be designed to be installed for indoor or outdoor.
- 4. Unit shall be capable to be installed with heat pump or heat recovery VRF system.
- Allows communication between third party air handling unit (AHU) and LG Multi V air-source or water-source outdoor units with combination ratio between 50% to 100%.
- 6. Requires one EEV kit to control the flow of refrigerant from Multi V outdoor unit to AHU coil.
- B. Electrical:
 - 1. The unit electrical power shall be 208-230/1/60 (V/Ph/Hz)."

VOLUME 3 MIDLAND:

1. Specification Section 23 0460 Automatic Temperature Controls

- a. 3.7 Sequences of Operation, A. Ductless Split Ceiling, Ducted Units, and Coils, i. Change the Point List to read:
 - a. Space Temperature
 - b. VRF Space Temperature Setpoint
 - c. Occupied/Unoccupied
 - d. VRF Indoor Mode (Heating/Cooling)
 - e. VRF Indoor Unit fan speed
 - e. Energy Recovery Unit Status (if applicable)
 - f. Baseboard Fin-tube Control Valve Status (if applicable)
 - g. VRF Outdoor Mode/status

Provide all required hardware and software to interface the BMS with the VRF system."

ii. Unoccupied and Occupied Modes, add the following:

a. "Hydronic hot water coils (if applicable) shall be stage 3 heating."

2. Specification Section 23 0255 VRF Indoor Units

- a. Add the Following Paragraph:
 - "2.3 BMS Integration:
 - a. The VRF system shall be able to integrate with Building Management Systems via BACnet[™] IP gateway. This gateway converts between BACnet[™] IP or Modbus TCP protocol, and RS-485 LGAP (LG Aircon protocol) allowing third party control and monitoring of the LG A/C system, or LonWorks[™] gateways. See controls specification for points list."

3. Specification Section 23 0265 VRF Outdoor Units

- b. Add the Following Paragraphs:
 - "2.2 EEV Kit
 - A. General
 - 1. Unit shall be manufactured by LG.
 - 2. Unit shall be factory assembled and wired unit shall be designed to be installed indoors only.
 - 3. Unit shall be capable to be installed with heat pump or heat recovery VRF system.
 - 4. Unit requires one communication kit to provide power and control signals.
 - 5. Connects liquid line piping from outdoor unit to any AHU coil.
 - B. Electrical

1. Six conductor, 18 GA shielded and stranded field supplied wiring for 12 volt (low voltage) power and control signal from communication kit.

2.3 AHU COMMUNICATION KIT PAHCMR00 (RETURN AIR CONTROL)

A. General

- 1. Unit shall be manufactured by LG.
- 2. Unit shall be factory assembled and wired.
- 3. Unit shall be designed to be installed for indoor or outdoor.
- 4. Unit shall be capable to be installed with heat pump or heat recovery VRF system.

- 5. Allows communication between third party air handling unit (AHU) and LG Multi V air-source or water-source outdoor units with combination ratio between 50% to 100%.
- 6. Requires one EEV kit to control the flow of refrigerant from Multi V outdoor unit to AHU coil.
- B. Electrical:
 - 1. The unit electrical power shall be 208-230/1/60 (V/Ph/Hz)."

VOLUME 4 MILTON:

1. Specification Section 23 0270 Variable Refrigerant Flow Indoor Units

- a. Add the Following Paragraph:
 - "2.3 BMS Integration:
 - a. The VRF system shall be able to integrate with Building Management Systems via BACnet[™] IP gateway. This gateway converts between BACnet[™] IP or Modbus TCP protocol, and RS-485 LGAP (LG Aircon protocol) allowing third party control and monitoring of the LG A/C system, or LonWorks[™] gateways. See controls specification for points list."

2. Specification Section 23 0265 Variable Refrigerant Flow Outdoor Units

- a. Add the Following Paragraphs:
 - "2.2 EEV Kit
 - A. General
 - 1. Unit shall be manufactured by LG.
 - 2. Unit shall be factory assembled and wired unit shall be designed to be installed indoors only.
 - 3. Unit shall be capable to be installed with heat pump or heat recovery VRF system.
 - 4. Unit requires one communication kit to provide power and control signals.
 - 5. Connects liquid line piping from outdoor unit to any AHU coil.
 - B. Electrical

1. Six conductor, 18 GA shielded and stranded field supplied wiring for 12 volt (low voltage) power and control signal from communication kit.

- 2.3 AHU COMMUNICATION KIT PAHCMR00 (RETURN AIR CONTROL)
 - A. General
 - 1. Unit shall be manufactured by LG.

- 2. Unit shall be factory assembled and wired.
- 3. Unit shall be designed to be installed for indoor or outdoor.
- 4. Unit shall be capable to be installed with heat pump or heat recovery VRF system.
- 5. Allows communication between third party air handling unit (AHU) and LG Multi V air-source or water-source outdoor units with combination ratio between 50% to 100%.
- 6. Requires one EEV kit to control the flow of refrigerant from Multi V outdoor unit to AHU coil.
- B. Electrical:
 - 1. The unit electrical power shall be 208-230/1/60 (V/Ph/Hz)."

3. Specification Section 23 0460 Automatic Temperature Controls

- a. 3.8 Sequences of Operation, C. VRF System Heat Recovery Units
 - i. Change the Point List to read:
 - a. "Space Temperature
 - b. VRF Space Temperature Setpoint
 - c. Occupied/Unoccupied
 - d. VRF Indoor Mode (Heating/Cooling)
 - e. VRF Indoor Unit fan speed
 - e. Energy Recovery Unit Status (if applicable)
 - f. Baseboard Fin-tube Control Valve Status (if applicable)
 - g. VRF Outdoor Mode/status

Provide all required hardware and software to interface the BMS with the VRF system."

ii. Change "VRF System Heat Recovery Units" to read "VRF System Heat Pump Units."

VOLUME 5 HIGH SCHOOL & MIDDLE SCHOOL:

- 1. Asbestos Abatement Specification 02 08 00, see attached.
 - **a.** Section 3.17

In "HIGH SCHOOL/MIDDLE SCHOOL (INTERIOR ABATEMENTS)," *Add* bullet 7 stating the following:

- Abatement Contractor is responsible for complete & total removal and disposal of the following in Women's Bathroom 105:
 - Three (3) radiators/heaters, and approximately 12 SF of friable insulation/insulation board assumed to exist behind each removed unit, as well as approximately 12 SF of non-friable asbestos

containing waterproofing tar on perimeter masonry behind each removed unit.

- Two (2) wall diffusers on friable, asbestos-containing plaster walls, as well as 1' of wall material, including lathe around perimeter of each diffuser (approx. 4 SF each)
- Friable, asbestos containing plaster on metal lathe, behind sheetrock, in two (2) locations of toilet & associated plumbing removals. Abatement contractor is responsible for complete & total removal of all wall materials, and materials found behind walls associated with plumbing demo.

The Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). Abatement contractor is responsible for all patching to ensure all demolition and construction required is non-ACM work. All debris generated shall be disposed of as ACM. See attached ACM location drawings for removal locations.

2. Specification Section 23 0266 Variable Refrigerant Flow Indoor Units

- a. Add the Following Paragraphs:
 - "2.3 BMS Integration:
 - a. The VRF system shall be able to integrate with Building Management Systems via BACnet[™] IP gateway. This gateway converts between BACnet[™] IP or Modbus TCP protocol, and RS-485 LGAP (LG Aircon protocol) allowing third party control and monitoring of the LG A/C system, or LonWorks[™] gateways. See controls specification for points list."

3. Specification Section 23 0265 Variable Refrigerant Flow Outdoor Units

- a. Add the Following Paragraphs:
 - "2.2 EEV Kit
 - A. General
 - 1. Unit shall be manufactured by LG.
 - 2. Unit shall be factory assembled and wired unit shall be designed to be installed indoors only.
 - 3. Unit shall be capable to be installed with heat pump or heat recovery VRF system.
 - 4. Unit requires one communication kit to provide power and control signals.
 - 5. Connects liquid line piping from outdoor unit to any AHU coil.
 - B. Electrical

1. Six conductor, 18 GA shielded and stranded field supplied wiring for 12 volt (low voltage) power and control signal from communication kit.

2.3 AHU COMMUNICATION KIT PAHCMR00 (RETURN AIR CONTROL)

A. General

- 1. Unit shall be manufactured by LG.
- 2. Unit shall be factory assembled and wired.
- 3. Unit shall be designed to be installed for indoor or outdoor.
- 4. Unit shall be capable to be installed with heat pump or heat recovery VRF system.
- 5. Allows communication between third party air handling unit (AHU) and LG Multi V air-source or water-source outdoor units with combination ratio between 50% to 100%.
- 6. Requires one EEV kit to control the flow of refrigerant from Multi V outdoor unit to AHU coil.
- B. Electrical:
 - 1. The unit electrical power shall be 208-230/1/60 (V/Ph/Hz)."

4. Specification Section 23 0460 Automatic Temperature Controls

- a. 3.7 Sequences of Operation, C. VRF System Heat Recovery Units: Change the Point List to read:
 - a. Space Temperature
 - b. VRF Space Temperature Setpoint
 - c. Occupied/Unoccupied
 - d. VRF Indoor Mode (Heating/Cooling)
 - e. VRF Indoor Unit fan speed
 - e. Energy Recovery Unit Status (if applicable)
 - f. Baseboard Fin-tube Control Valve Status (if applicable)
 - g. VRF Outdoor Mode/status

Provide all required hardware and software to interface the BMS with the VRF system."

5. Specification Section 23 0230 Floor Mounted Vertical Unit Ventilators

a. 1.1 System Description, A.1. General Specifications. The manufacturer referenced was changed from Temspec Inc. to SystemAir/ChangeAir Systems or approved equal.

Rye City Schools

Osborn Elementary School

10 Osborn Road, Rye, NY 10580

SED Number: #66-18-00-01-0-001-022 & #66-18-00-01-0-001-023

Midland Elementary School

312 Midland Ave, Rye, NY 10580

SED Number: #66-18-00-01-0-003-024 & #66-18-00-01-0-003-025

Milton Elementary School

12 Hewlett Street, Rye, NY 10580

SED Number: #66-18-00-01-0-002-015

Rye High School/Middle School

1 Parsons Street Rye, NY 10580

SED Number: #66-18-00-01-0-005-031 & #66-18-00-01-0-005-032

Issued for Bid; 2021-01-19

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SECTION 020800 – ASBESTOS ABATEMENT

- AT: RYE CITY SCHOOL DISTRICT RYE HIGH SCHOOL/MIDDLE SCHOOL SED# 66180001-0005-032
- OWNER: RYE CITY SCHOOL DISTRICT 555 THEODORE FREMD AVENUE, SUITE B-101 RYE, NEW YORK 10580
- CONSULTANT: QUALITY ENVIRONMENTAL SOLUTIONS & TECHNOLOGIES, INC. 1376 ROUTE 9 WAPPINGERS FALLS, NEW YORK 12590



SPECIFICATION DATED: January 19, 2021

ADDENDUM 1 DATED: January 29, 2021

Design conforms to all applicable provisions of the NYS Uniform Fire Prevention and Building Code, NYS Energy Conservation Construction Code and Education Department Building Standards.

ASBESTOS ABATEMENT

SECTION 020800 – ASBESTOS ABATEMENT PROCEDURES

PART I – GENERAL

1.01 DESCRIPTION

- A. All work under this contract shall be performed in strict accordance with the specifications and all applicable laws for asbestos removal projects. The Abatement Contractor shall furnish all labor, materials, supervision, services, insurance and equipment necessary for the complete and total removal of Asbestos-containing Materials (ACM) as described herein, in attachments to the specification, Job Specific Variance(s) and/or as directed by Rye CSD (here-in-after the "Owner") and/or the Owners Representative(s) to support *Rye CSD: 2019 Capital Bond Project Phase II Rye High School/Middle School.*
- B. Abatement Contractor shall provide for personnel air monitoring to satisfy OSHA regulation 29 CFR Parts 1926.1101(f). All work performed shall be in strict accordance with applicable provisions and regulations promulgated under New York State Department of Labor, Industrial Code 56 (ICR-56).
- C. The Abatement Contractor shall satisfy the requirements for asbestos projects issued by the New York State Department of Labor concerning licensing and certification; notification; equipment; removal and disposal procedures; engineering controls; work area preparation; decontamination and clean-up procedures; and personnel air monitoring.
- D. The Abatement Contractor shall be responsible for submittal of asbestos project notification(s) and applicable fees to EPA and NYSDOL concerning this project. Project notification(s) shall be made for the cumulative total of ACM to be removed as required by ICR-56-3.4. Work practices for each individual work area established shall be consistent with the quantity of ACM contained within that work area as defined in ICR-56-2.
- E. The scope of work under this contract shall include the following:
 - 1. All asbestos-containing materials (ACM) shall be removed in accordance with these specifications. The Abatement Contractor is responsible for field verification of estimated quantities, locations and other site conditions that may affect work.
 - 2. All fixed objects remaining within the work area(s) shall be protected as required by Title 12 NYCRR Section 56-7.10(b) and as described in these specifications.
 - 3. The containerization, labeling and disposal of all asbestos waste in accordance with applicable city, state and federal regulations and these specifications.
 - 4. The Abatement Contractor will be responsible for repairing all building components damaged during abatement including, but not limited to, ceiling tiles, ceiling finishes, wall finishes and/or floor finishes, etc.
 - 5. The Abatement Contractor shall be responsible for any and all demolition required to access materials identified in scope of work and on associated drawings.

- 6. Concealed conditions that are exposed and may require additional work shall be brought to the attention of the Owner(s) immediately. The Abatement Contractor shall not abate these areas without a written notice to proceed. If the Abatement Contractor removes additional asbestos prior to the order to proceed the additional work will not be acknowledged.
- 7. Permissible working hours shall be Monday through Friday 7:00 A.M. to 4:00 P.M. and/or as defined by the Owner(s) and/or Owner's Representative(s). Holidays shall be considered weekends and not included for working days. Upon written approval from the Owner, the Abatement Contractor may work past these hours. The Abatement Contractor will incur any and all costs associated for work performed beyond the defined schedule including, but not limited to: abatement activities, project/air monitoring, custodial/staffing labor, overtime, mobilizations, etc.
- 8. Buildings will be turned over to the Abatement Contractor as is. At that time, all electrical services and HVAC systems in the proposed work areas will be shut down. Electricity and water supply will be maintained in the building for use by the Abatement Contractor. The Abatement Contractor is responsible for securing all power in the work area(s) and establishing all temporary GFCI hookups necessary to complete his work.
- 9. The Abatement Contractor shall remove all identified Asbestos-containing Materials (ACM) to building substrate(s); in areas indicted. Subsequent to final air clearances, the substrate(s) shall be washed with a neutralizing agent to prepare the substrate to accept new floor covering and eliminate residual odors.
- 10. The Abatement Contractor must coordinate location of waste containers with the Facility and the Owner. Deliveries and storage of equipment must be coordinated with the Facility and the Owner.
- 11. All "Large" and "Small" asbestos abatement projects, as defined by 12 NYCRR56 shall not be performed while the building is occupied. The term "building" means a wing or major section of a building that can be completely isolated from the rest of the building with sealed non-combustible construction. The isolated portion of the building must contain exists that do not pass through the occupied portion(s) and ventilation systems must be physically separated and sealed at the isolation barriers.

1.02 PRE-CONTRACT SUBMITTALS

Within three (3) days after bids are opened, the three (3) apparent low bidders shall be required to submit the following documentation:

- A. Resume's: Shall include the following:
 - 1. Provide a list of projects of similar nature performed within the past two (2) years and include the dollar value of all projects. Provide project references to include owner, consultant, and air monitoring firms' name, contact person, address, and phone number, include location of project and date of completion.
 - 2. Abatement Contractor license issued by New York State Department of Labor for asbestos work in accordance with ICR-56-3.

- 3. A list of owned equipment available to be used in the performance of the project.
- 4. The number of years engaged in asbestos removal.
- 5. An outline of the worker training courses and medical surveillance program conducted by the Abatement Contractor.
- 6. A standard operating procedures manual describing work practices and procedures, equipment, type of decontamination facilities, respirator program, special removal techniques, etc.
- 7. Documentation to the satisfaction of the Owner pertaining to the Abatement Contractor's financial resources available to perform the project. Such data shall include, but not be limited to, the firm's balance sheet for the last fiscal year.
- B. Citations/Violations/Legal Proceedings
 - 1. Submit a notarized statement describing any citations, violations, criminal charges, or legal proceedings undertaken or issued by any law enforcement, regulatory agency, or consultant concerning performance on previous asbestos abatement contracts. Briefly describe the circumstances citing the project and involved persons and agencies as well as the outcome of any actions.
 - 2. Answer the question: "Has your firm or its agents been issued a Stop Work order on any project within the last two years?" If "Yes" provide details as discussed above.
 - 3. Answer the question: "Are you now, or have you been in the past, a party to any litigation or arbitrations arising out of your performance on Asbestos Abatement Contracts?" If "Yes" provide details as discussed in 1. above.
 - 4. Describe any liquidated damages assessed within the last two years.
- C. Preliminary Schedule
 - 1. Provide a detailed schedule including work dates, work shift times, estimate of manpower to be utilized and the start and completion date for completion of each major work area.

1.03 DOCUMENTATION

- A. The Abatement Contractor shall be required to submit the following and receive the Consultant's approval prior to commencing work on this project:
 - 1. Provide documentation of worker training for each person assigned to the project. Documentation shall include copies of each workers valid New York State asbestos handler certificates (for those employees who may perform asbestos removal), documentation of current respirator fit test and current OSHA required training and medical examination.
 - 2. The attached "Asbestos Employee Medical Examination Statement" and "Asbestos Employee Training Statement" forms shall be completed, signed and submitted for each worker assigned to

the project. Records of all employee training and medical surveillance shall be maintained for at least forty (40) years. Copies of the records shall be submitted to the Consultant prior to commencement.

- 3. The Abatement Contractor shall submit proof of a current, valid license issued by the New York State Department of Labor pursuant to the authority vested in the Commissioner by section 906 of the Labor Laws, and that the employees performing asbestos related work on this project are certified by the State of New York as required in Part 56 of Title 12 of the Official Compilation of Codes, Rules and Regulations of the State of New York latest edition. Copies of all licenses shall be submitted prior to the commencement of the project.
- 4. The Abatement Contractor shall submit a written respiratory protection program meeting the requirements of 29 CFR 1910.134 to the Consultant.
- 5. The name, address, social security number and NYS DOL certificate number of the person(s) who will supervise the asbestos project.
- 6. The name and address of the deposit or waste disposal site or sites where the asbestos materials are to be deposited or disposed of. This site must be approved by the Owner. The manifesting procedure must also be specified.
- 7. The name, address and New York State Dept. of Environmental Conservation ID Number of any transporters that are to be used to transport waste.
- 8. A written Standard Operation Procedure (SOP) that is designed and implemented to maximize protection against human exposure to asbestos dust. The SOP shall take into consideration the workers, visitors, building employees, general public and environment. As a minimum the procedures must include the following:
 - a. Security for all work areas on an around-the-clock basis against unauthorized access.
 - b. Project organization chart including the phone numbers of at least two responsible persons who shall be authorized to dispatch men and equipment to the project in the event of an emergency; including weekends.
 - c. Description of protective clothing and NIOSH approved respirators to be used.
 - d. Description of all removal methods to be used, including HEPA air filtration and decontamination sequence with special emphasis on any procedure that may deviate from these specifications.
 - e. A list of manufacturers' certificates stating that all vacuums, negative air filtration equipment, respirators and air supply equipment meet OSHA and EPA requirements.
 - f. A list of all materials proposed to be furnished and used under this contract.
 - g. Emergency evacuation procedures in the event of fire, smoke or accidents such as injury from falling, heat exposure, electrical shock, etc.

- h. The name, address and ELAP number of the New York State Department of Health Certified Analytical Testing Laboratory the Contractor proposes to use for the OSHA monitoring.
- 9. A detailed plan, in triplicate, for the phasing of the project, division of work areas and location of decontamination facilities, waste containers and temporary office.
- 10. Work schedule, identifying firm dates and completion for actual areas. Bar chart or critical path chart indicating phases is required.
- B. The Abatement Contractor shall post their NYS DOL contractor's license and maintain a daily log documenting the dates and time of the following items within each personal decontamination unit:
 - 1. Meetings; purpose, attendants, discussion (brief)
 - 2. Sign-in and sign-out of all persons entering the work area including name, date, time, social security number, position or function and general description of daily activity.
 - 3. Testing of barriers and enclosure systems using smoke tubes prior to the beginning of abatement activities and at least once a day thereafter until satisfactory clearance air monitoring results have been achieved.
 - 4. Inspection of all plastic barriers, twice daily, by the asbestos supervisor.
 - 5. Loss of enclosure integrity; special or unusual events, barrier breaches, equipment failures, etc.
 - 6. Daily cleaning of enclosures.
 - 7. Personnel air monitoring test results for OSHA Compliance. Results shall be posted at the work site within 24 hours of testing and copies supplied to the Owner within five (5) days of testing. Abnormalities shall be supplied to the Owner immediately.
- C. Documentation with confirmation signature of Consultant's representative of the following shall be provided by the Abatement Contractor at the final closeout of the project.
 - 1. Testing of barriers and enclosure systems using smoke tubes shall be performed prior to the beginning of abatement activities and at least once a day thereafter until satisfactory clearance air monitoring results have been achieved.
 - 2. Inspection of all plastic barriers.
 - 3. Removal of all polyethylene barriers.
 - 4. Consultant's inspections prior to encapsulation.
 - 5. Removal of waste materials.
 - 6. Decontamination of equipment (list items).
 - 7. Consultant's final inspection/final air tests.

- D. The Abatement Contractor shall provide records of <u>all</u> project information, to include the following which shall be submitted upon completion of the project and prior to approval of the Abatement Contractor's payment application:
 - 1. The location and description of the abatement project.
 - 2. The name, address and social security number of the person(s) who supervised the asbestos project.
 - 3. Certified payroll documentation Pursuant to Article 8, Section 220 of the NYS Labor Law
 - 4. Copies of EPA/NYSDOL Asbestos Certificates for all Workers and Supervisors employed on the Project.
 - 5. Copies of Medical Approval and Respirator Fit-testing for all Asbestos Workers and Supervisors employed on the Project.
 - 6. Copies of Abatement Contractors Daily Sign-In Sheets & Logs for persons entering and leaving the work area. Title 12 NYCRR Part 56-7.3.
 - 7. Copies of Abatement Contractor's personal air sampling laboratory results.
 - 8. The amounts and type of asbestos materials that was removed, enclosed, encapsulated, or disturbed.
 - 9. The name and address of the deposit or waste disposal site or sites where the asbestos waste materials were deposited or disposed of and all related manifests, receipts and other documentation associated with the disposal of asbestos waste.
 - 10. The name and address of any transporters used to transport waste and all related manifests, receipts and other documentation associated with the transport of asbestos waste.
 - 11. All other information that may be required by state, federal or local regulations.
 - 12. Copy of the Supervisor's Daily Project Log of events as described in 1.03 B, above.

1.04 NOTIFICATIONS AND PERMITS

- A. The Abatement Contractor shall be required to prepare and submit notifications to the following agencies at least ten (10) days and/or business days, as required prior to the commencement of the project:
 - Asbestos NESHAPS Contact U.S. Environmental Protection Agency NESHAPS Coordinator, Air Facilities Branch 26 Federal Plaza New York, New York 10007 (212) 264-7307

- State of New York Department of Labor Division of Safety and Health Asbestos Control Bureau State Office Building Campus, Building 12, Room 454 Albany, New York 12240
- 3. Owner(s):
 Rye CSD
 555 Theodore Fremd Avenue, Suite B-101
 Rye, NY 10580
 ATTN: Robert Gimigliano, Director of Facilities & Operations
 Ph. (914) 967-6100
 Fx. (914) 967-6957
 E-mail. <u>Gimigliano.Robert@ryeschools.org</u>
- 4. Environmental Consultant(s): Quality Environmental Solutions & Technologies, Inc. (QuES&T) 1376 Route 9 Wappingers Falls, New York 12590 ATTN: Anthony Perre Ph. (845) 298-6031 Fx. (845) 298-6251 E-mail. aperre@qualityenv.com
- B. The notification shall include but not be limited to the following information:
 - 1. Name and address of Owner.
 - 2. Name, address, and asbestos handling license number of the Abatement Contractor.
 - 3. Address and description of the building, including size, age, and prior use of the building or area; the amount, in square feet or linear feet of asbestos material to be removed; room designation numbers or other local information where asbestos material is found, including the type of asbestos material (friable or non-friable).
 - 4. Scheduled starting and completion dates for removal.
 - 5. Methods to be employed in abating asbestos containing materials.
 - 6. Procedures and equipment, including ventilating/exhaust systems, that will be employed to comply with the Code of Federal Regulation (CFR) Title 40, Part 61 of the U.S. Environmental Protection Agency.
 - 7. The name and address of the carting company and of the waste disposal site where the asbestos waste will be deposited.

NOTE: Notifications shall be submitted using standard forms as may be used by the respective agency.

For DOL (NYS) include "Asbestos Project Notification" form (DOSH-483) with proper fee, if required. For EPA include "Notification of Demolition and Renovation"; 40 CFR Part 61.

- C. The Abatement Contractor shall secure any permits required by the city, town, county, or state that may be required and the cost for obtaining the permit shall be included in his base bid.
- D. The Abatement Contractor shall erect warning signs around the work space at every point of potential entry into the work area in accordance with OSHA 1926.58k (2), (i). These signs shall bear the following information:

DANGER

CANCER AND LUNG DISEASE HAZARD AUTHORIZED PERSONNEL ONLY RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA

- E. The Abatement Contractor shall post at entrances to the work place and immediate adjacent areas, notifications to building occupants which include the name and license number of the contractor, project location and size, amount and type of ACM, abatement procedures, dates of expected occurrence and name and address of the air monitor and laboratory in compliance with ICR 56-3.6.
- F. The Abatement Contractor shall post a list of emergency telephone numbers at the job site which shall include the Owner's Representative, police, emergency squad, local hospital, Environmental Protection Agency, N.Y. State Department of Labor, Occupational Safety and Health Administration and the local Department of Health.

1.05 APPLICABLE STANDARDS

Except to the extent that more explicit or more stringent requirements are written directly into the contract documents, applicable standards of the construction industry have the same force and effects (and are made a part of contract documents by reference) as if copied directly into contract documents, or as if published copies were bound herewith. Resolution of overlapping and conflicting requirements, which result from the application of several different industry standards to the same unit of work, shall be by adherence to the most stringent requirement.

- A. Applicable standards listed in these Specifications form a part of this Specification and include, but are not necessarily limited to, standards promulgated by the following agencies and organizations:
 - 1. ANSI:

American National Standards Institute 1430 Broadway New York, New York 10018

2. ASHRAE:

American Society for Heating, Refrigerating and Air Conditioning Engineers 1791 Tullie Circle NE Atlanta, Georgia 30329

3. ASTM:

American Society for Testing and Materials 1916 Race Street Philadelphia, Pennsylvania 19103

4. CFR

Code of Federal Regulations Available from Government Printing Office Washington, District of Columbia 20402

5. CGA

Compressed Gas Association 1235 Jefferson Davis Highway Arlington, Virginia 22202

6. CS

Commercial Standard of NBS (US Dept. of Commerce) Government Printing Office

7. EPA

Environmental Protection Agency, Region II 26 Federal Plaza New York, New York 10007 Asbestos Coordinator - Room 802 (212) 264-9538 Part 61, Sub-Parts A & B National Emission Standard for Asbestos

8. FEDERAL SPECS

Federal Specification (General Services Administration) 7th and D Street, SW Washington, District of Columbia 20406

9. NBS

National Bureau of Standards (US Department of Commerce) Gaithersburg, Maryland 20234

10. NEC

National Electrical Code (by NFPA)

11. NFPA

National Fire Protection Association Batterymarch Park Quincy, Massachusetts 02269

12. NIOSH

National Institute for Occupational Safety and Health 26 Federal Plaza New York, New York 10007

13. NYSDOH

New York State Department of Health Bureau of Toxic Substance Assessment Room 359 - 3rd Floor Tower Building Empire State Plaza Albany, New York 12237

14. NYSDEC

New York State Department of Environmental Conservation Room 136 50 Wolf Road Albany, New York 12233-3245

15. NYSDOL

State of New York Department of Labor Division of Safety and Health Asbestos Control Program State Campus Building 12 Albany, New York 12240

16. OSHA

Occupational Safety and Health Administration (US Department of Labor) New York Regional Office - room 3445 1515 Broadway New York, New York 10036

17. UL

Underwriters Laboratories 333 Pfingsten Road Northbrook, Illinois 60062

- B. Federal Regulations: Those which govern asbestos abatement work or hauling and disposal of asbestos waste materials:
 - 1. U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA):
 - Asbestos Regulations
 Title 29, Part 1910, of the Code of Federal Regulations.

- Respiratory Protection Title 29, Part 1910, Section 134 of the Code of Federal Regulations.
- c. Construction Industry Title 29, Part 1926, of the Code of Federal Regulations.
- d. Access to Employee Exposure & Medical Records Title 29, Part 1910, Section 20 of the Code of Federal Regulations.
- e. Hazard Communication Title 29, Part 1910, Section 1200 of the Code of Federal Regulations.
- f. Specifications for Accident Prevention Signs and Tags Title 29, Part 1910, section 145 of the Code of Federal Regulations.
- 2. U.S. Environmental Protection Agency (EPA):
 - a. Asbestos Hazard Emergency Response Act (AHERA) Regulation Asbestos Containing Materials in Schools Final Rule & Notice Title 40, Part 763, Subpart E of the Code of Federal Regulations.
 - Worker Protection Rule
 40 CFR Part 763, Subpart G, CPTS 62044, FLR 2843-9
 Federal Register, Vol. 50, No. 134, 7/12/85, P28530-28540
 - c. Regulation for Asbestos Title 40, Part 61, Subpart A of the Code of Federal Regulations
 - d. National Emission Standard for Asbestos Title 40, Part 61, Subpart M (Revised Subpart B) of the Code of Federal Regulations
 - e. Resource Conservation and Recovery Act (RCRA) 1976, 1980 Hazardous and Solid Waste Amendments (HSWA) 1984 Subtitle D, Subtitle C
- 3. U.S. Department of Transportation (DOT):
 - a. Hazardous Substances: Final Rule Regulation 49 CFR, Part 171 and 172.
- C. State Regulations: Those which govern asbestos abatement work or hauling and disposal of asbestos waste materials:
 - 1. New York State Department of Environmental Conservation (DEC) Regulations regarding waste collection registration. Title 6, Part 364 of the New York State Official Compilation of Codes, Rules and Regulations 6NYCRR 364.
 - 2. New York State Right-To-Know Law

- 3. New York State Department of Labor Asbestos Regulations Industrial Code Rule 56.
- 4. New York State Department of Health, Title 10 Part 73 Asbestos Safety Program Requirements.
- D. Standards: Those which govern asbestos abatement work or hauling and disposal of asbestos waste materials:
 - 1. American National Standards Institute (ANSI)
 - a. Fundamentals Governing the Design and Operation of Local Exhaust Systems Publication Z9.2-79
 - b. Practices for Respiratory Protection Publication Z88.2-80
- E. Guidance Documents: Those that discuss asbestos abatement work or hauling and disposal of asbestos waste materials are listed below only for the Abatement Contractor's information. These documents do not describe the work and are not a part of the work of this contract.

EPA:

- 1. Guidance for Controlling Asbestos Containing Materials in Buildings (Purple Book) EPA560/5-85-024.
- 2. Asbestos Waste Management Guidance EPA 530-SW-85-007.
- F. Patents and Royalties: The Abatement Contractor shall pay all royalties and/or license fees. The Abatement Contractor shall defend all suits and claims for infringement of any patent rights and save the Owner and Consultant harmless from loss including attorney fees on account thereof.

1.06 DEFINITIONS

As used in or in connection with these specifications the following are terms and definitions.

- Abatement Procedure to control release from asbestos material. This includes removal, encapsulation and enclosure.
- **Aggressive sampling** A method of sampling in which the person collecting the air sample creates activity by the use of mechanical equipment during the sampling period to stir up settled dust and simulate activity in that area of the building.
- AIHA The American Industrial Hygiene Association, 475 Wolf Ledges Parkway, Akron, Ohio 44311.
- **Airlock** A system for permitting entrance and exit while restricting air movement between a containment area and an uncontaminated area. It consists of two curtained doorways separated by a distance of at least three feet such that one passes through one doorway into the airlock,

allowing the doorway sheeting to overlap and close off the opening before proceeding through the second doorway, thereby preventing flow-through contamination.

- Air sampling The process of measuring the content of a known volume of air collected during a specific period of time.
- Amended water Water to which a surfactant has been added.
- **Approved asbestos safety program** A program approved by the Commissioner of Health providing training in the various disciplines that may be involved in an asbestos project.
- Area air sampling Any form of air sampling or monitoring where the sampling device is placed at some stationary location.
- Asbestos Any naturally occurring hydrated mineral silicate separable into commercially usable fibers, including chrysotile (serpentine), amosite (cumingtonite-gunerite), crocidolite (riebeckite), tremolite, anthophyllite and actinolite.
- Asbestos contract An oral or written agreement contained in one or more documents for the performance of work on an asbestos project and includes all labor, goods and service.
- Asbestos handler An individual who installs, removes, applies, encapsulates, or encloses asbestos or asbestos material, or who disturbs friable asbestos. Only individuals certified by NYS Department of Labor shall be acceptable for work under this specification.
- Asbestos handling certificate A certificate issued by the Commissioner of Labor of the State of New York, to a person who has satisfactorily completed an approved asbestos safety program.
- Asbestos project Work undertaken by a contractor which involves the installation, removal, encapsulation, application or enclosure of any ACM or the disturbance of friable ACM.
- Asbestos Safety Technician (AST) Individual designated to represent the Consultant, perform third party monitoring and perform compliance monitoring at the job site during the asbestos project.
- Asbestos waste material Asbestos material or asbestos contaminated objects requiring disposal.
- **Authorized visitor** The building owner, his or her representative or any representative of a regulatory or other agency having jurisdiction over the project.
- **Background level monitoring** A method used to determine ambient airborne concentrations inside and outside of a building or structure prior to starting an abatement project.
- **Building owner** The person in whom legal title to the premises is vested unless the premises are held in land trust, in which instance Building Owner means the person in whom beneficial title is vested.
- **Clean room** An uncontaminated area or room that is a part of the personal decontamination enclosure with provisions for storage of persons' street clothes and protective equipment.

- Cleanup The utilization of HEPA vacuuming to control and eliminate accumulations of asbestos material and asbestos waste material.
- **Clearance air monitoring** The employment of aggressive sampling techniques with a volume of air collected to determine the airborne concentration of residual fibers upon conclusion of an asbestos abatement project.
- **Commissioner** Commissioner of the New York State Department of Labor.
- **Contractor** A company, unincorporated association, firm, partnership or corporation and any owner or operator thereof, which engages in an asbestos project or employs persons engaged in an asbestos project.
- **Curtained doorway** A device that consists of at least three overlapping sheets of plastic over an existing or temporarily framed doorway. One sheet shall be secured at the top and left side, the second sheet at the top and right side, and the third sheet at the top and the left side. All sheets shall have weights attached to the bottom to insure that the sheets hang straight and maintain a seal over the doorway when not in use.
- **Decontamination enclosure system** A series of connected rooms, separated from the work area and from each other by air locks, for the decontamination of persons, materials, equipment, and authorized visitors.
- **Encapsulant (sealant) or encapsulating agent** A liquid material that can be applied to asbestos material and which prevents the release of asbestos from the material by creating a membrane over the surface.
- **Enclosure** The construction of airtight walls, ceilings and floors between the asbestos material and the facility environment, or around surfaces coated with asbestos materials, or any other appropriate procedure that prevents the release of asbestos materials.
- **Equipment room** A contaminated area or room that is part of the personal decontamination enclosure system with provisions for the storage of contaminated clothing and equipment.
- **Fixed object** A unit of equipment, furniture or other fixture in the work area which cannot be readily removed from the work area.
- Friable Asbestos Material That condition of crumbled, pulverized, powdered, crushed or exposed asbestos capable of being released into the air by hand pressure.
- Friable material containment The encapsulation or enclosure of any friable asbestos material.
- **Glovebag technique** A method for removing asbestos material from heating, ventilating, and air conditioning (HVAC) ducts, piping runs, valves, joints, elbows, and other nonplanar surfaces in a noncontained work area. The glovebag assembly is a manufactured device consisting of a glovebag constructed of at least six mil transparent plastic, two inward-projecting longsleeve gloves, which may contain an inward projecting waterwand sleeve, an internal tool pouch, and an attached, labeled receptacle or portion for asbestos waste.

The glovebag is constructed and installed in such a manner that it surrounds the object or area to be decontaminated and to contain all asbestos fibers released during the abatement process.

- **HEPA filter** A high efficiency particulate air filter capable of trapping and retaining 99.97 percent of particulate greater than 0.3 microns equivalent aerodynamic diameter.
- **HEPA vacuum equipment** Vacuuming equipment with a high efficiency particulate air filtration system.
- **Holding area** A chamber in the waste decontamination enclosure located between the washroom and an adjacent uncontaminated area.
- Homogeneous work area A site within the abatement work area that contains one type of asbestos material and where one type of abatement is used.
- Large asbestos project An asbestos project involving the installation, removal, disturbance, enclosure, or encapsulation of 160 square feet or more of asbestos or asbestos material or 260 linear feet or more of asbestos or asbestos material.
- **Minor asbestos project** An asbestos project involving the installation, removal, disturbance, enclosure, or encapsulation of 10 square feet or less of asbestos or asbestos material, or 25 linear feet or less of asbestos or asbestos material.
- **Movable object** A unit of equipment, furniture or fixture in the work area that can be readily removed from the work area.
- **Negative air pressure equipment** A local exhaust system equipped with HEPA filtration. The system shall be capable of creating and maintaining a negative pressure differential between the outside and the inside of the work area.
- Non-asbestos material Any material containing one percent or less asbestos by weight.
- Occupied area Any frequented portion of the work site where abatement is not taking place.
- Outside air The air outside the building or structure.
- **Personal air monitoring** A method used to determine an individuals exposure to airborne contaminants. The sample is collected outside the respirator in the person's breathing zone.
- **Plasticize** To cover floors, walls, ceilings and other surfaces with 6 mil fire retardant plastic sheeting as herein specified.
- **Project** Any form of work performed in connection with the abatement of asbestos or alteration, renovation, modification or demolition of a building or structure that may disturb asbestos or asbestos material.
- **Removal** The stripping of any asbestos material.

- **Repair** Corrective action using required work practices to control fiber release from damaged areas.
- **Respiratory protection** Respiratory protection required of licensed asbestos workers and authorized visitors in accordance with the applicable laws.
- **Satisfactory clearance air monitoring results** For all post- abatement samples, airborne concentrations of total fibers that are less than 0.01 fibers per cubic centimeter or background levels, whichever are greater, using phase contrast microscopy (PCM).
- **Shower room** A room between the clean room and the equipment room in the personal decontamination enclosure with hot and cold running water controllable at the top and arranged for complete showering during decontamination.
- **Small asbestos project** An asbestos project involving the installation, removal, disturbances, enclosure, or encapsulation of more than 10 and less than 160 square feet of asbestos or asbestos material of more than 25 and less than 260 linear feet of asbestos or asbestos material.
- **Staging area** The area near the waste transfer airlock where containerized asbestos waste has been placed prior to removal from the work area.
- Surfactant A chemical wetting agent added to water to improve its penetration.
- Visible emissions An emissions of particulate material that can be seen without the aid of instruments.
- **Washroom** A room between the work area and the holding area in the waste decontamination enclosure system, where equipment and waste containers are wet cleaned and/or HEPA vacuumed.
- **Waste decontamination enclosure system** An area, consisting of a washroom and a holding area, designated for the controlled transfer of materials and equipment.
- Wet cleaning The process of eliminating asbestos contamination from surfaces, equipment or other objects by using cloths, mops, or other cleaning tools.
- Work area Designated rooms, spaces, or areas where asbestos abatement takes place.

Work site - Premises where asbestos abatement is taking place.

Work Surface - Substrate surface from which asbestos-containing material has been removed.

1.07 UTILITIES, SERVICE AND TEMPORARY FACILITIES

- A. The Owner shall make available to the Abatement Contractor all reasonable amounts of water and electrical power at no charge.
- B. The Abatement Contractor shall provide, at his own expense, all electrical, water, and waste connections, extensions, and construction materials, supplies, etc. All connections must be

approved in advance by the Owner and all work relative to the utilities must be in accordance with the applicable building codes.

- C. The Abatement Contractor shall provide scaffolding, ladders and staging, etc. as necessary to accomplish the work of this contract. The type, erection and use of all scaffolding, ladders and staging, etc. shall comply with all applicable OSHA provisions.
- D. All connections to the Owner's water system shall include reduced pressure backflow protection or double check and double gate valves. Valves shall be temperature and pressure rated for operation of the temperatures and pressures encountered. After completion of use, connections and fittings shall be removed without damage or alteration to existing water piping and equipment. Leaking or dripping valves shall be piped to the nearest drain or located over an existing sink or grade where water will not damage existing finishes or equipment.
- E. The Abatement Contractor shall use only heavy duty abrasion resistant hoses with a pressure rating greater than the maximum pressure of the water distribution system to provide water to each work area and to each decontamination unit. Provide fittings as required to allow for connection to existing wall hydrants or spouts, as well as temporary water heating equipment, branch piping, showers, shut-off nozzles and equipment. All water must be shut off at the end of each shift.
- F. The Abatement Contractor shall provide service to decontamination unit electrical subpanel with minimum 60 amp, 2 pole circuit breaker or fused disconnect and ground-fault circuit interrupters (GFCI), reset button and pilot light, connected to the building's main distribution panel. Subpanel and disconnect shall be sized and equipped to accommodate all electrical equipment required for completion of the work. This electrical subpanel shall be used for hot water heater, PAPR battery recharging and air sampling pumps.
- G. The Abatement Contractor shall provide UL rated 40-gallon electric hot water heater to supply hot water for the decontamination unit shower. Activate from 30 amp circuit breaker on the electrical subpanel located within the decontamination unit. Provide with relief valve compatible with water heater operation; relief valve down to drip pan on floor with type L copper. Wiring of the hot water heater shall be in compliance with NEMA, NEC, and UL standards.
- H. The Abatement Contractor shall provide identification warning signs at power outlets, which are other than 110-120 volt power. Provide polarized outlets for plug-in type outlets, to prevent insertion of 110-120 plugs into higher voltage outlets. Dry transformers shall be provided where required to provide voltages necessary for work operations. All outlets or power supplies shall be protected by ground fault circuit interrupter (GFCI) at the power source.
- I. The Abatement Contractor shall use only grounded extension cords; use "hard-service" cords where exposed to abrasion and traffic. Use single lengths or use waterproof connectors to connect separate lengths of electric cords, if single lengths will not reach areas of work.
- J. The Abatement Contractor shall provide general service incandescent lamps of wattage indicated or required for adequate illumination; Protect lamps with guard cages or tempered glass enclosures; Provide exterior fixtures where fixtures are exposed to moisture.
- K. The Abatement Contractor shall provide temporary heat or air conditioning as necessary to maintain comfortable working temperatures inside and immediately outside the work areas.

Heating and A/C equipment shall have been tested and labeled by UL, FM or another recognized trade association related to the fuel being used. Fuel burning heaters shall not be used inside containment areas. The Contractor shall also provide a comfortable working environment for occupied areas that are impacted by the asbestos removal.

L. The Abatement Contractor shall comply with recommendations of the NFPA standard in regard to the use and application of fire extinguishers. Locate fire extinguishers where they are most convenient and effective for their intended purpose, but provide not less than one extinguisher in each work area, equipment room, clean room and outside the work area.

1.08 REMOVAL OF FIXTURES

- A. In locations where the Abatement Contractor is directed to dispose of fixtures he shall either decontaminate the fixtures and dispose of them as non-asbestos containing materials or he shall place them in an appropriate container and dispose of them as asbestos containing material.
- B. In locations where the Abatement Contractor is directed to remove and reinstall fixtures, the fixtures shall be removed, decontaminated, labeled, protected with plastic and stored by the contractor in a location as directed by the Owner.
- C. Upon completion of the asbestos removal and upon receiving satisfactory clearance air monitoring results, all items to be replaced shall be restored to their original location and reinstalled by the Abatement Contractor.

PART 2 – PRODUCTS

2.01 MATERIALS AND EQUIPMENT

A. GENERAL REQUIREMENTS

- 1. Materials shall be stored off the ground, away from wet or damp surfaces and under protective cover to prevent damage or contamination.
- 2. Damaged or deteriorating materials shall not be used and shall be removed from the premises.
- 3. Power tools used to drill, cut into, or otherwise disturb asbestos material shall be equipped with HEPA filtered local exhaust ventilation.
- 4. The Abatement Contractor shall make available to authorized visitors, ladders and/or scaffolds of sufficient dimension and quantity so that all work surfaces can be easily and safely reached for inspection. Scaffold joints and ends shall be sealed with tape to prevent incursion of asbestos. Scaffolds and ladders shall comply with all applicable codes.

B. PLASTIC BARRIERS (POLYETHYLENE)

- 1. In sizes and shapes to minimize the number of joints.
 - a. Six mil. (.006") fire-retardant for vertical protection (walls, entrances and openings).

- b. Six mil. (.006") fire-retardant for horizontal protection (fixed equipment) and heating grilles.
- c. Six mil. (.006") reinforced fire-retardant for floors of decon units.
- 2. Provide two (2) layers over all roof, wall and ceiling openings. Floor penetrations shall be sealed with a rigid material prior to plasticizing to prevent tripping and fall hazards. All seams within a layer shall be separated by a minimum distance of six feet and sealed airtight. All seams between layers shall be staggered.
- 3. Barrier Attachment Commercially available duct tape (fabric or paper) and spray-on adhesive. Duct tape shall be capable of sealing joints of adjacent sheets of plastic, facilitating attachment of plastic sheets to finished or unfinished surfaces of dissimilar materials and adhering under both dry and wet conditions.
- C. SIGNS
 - 1. Danger signs shall be provided and shall conform to 29 CFR 1926.1101 and be 14" x 20". These signs shall bear the following information:

DANGER ASBESTOS CANCER AND LUNG DISEASE HAZARD RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA

D. DANGER LABELS AND TAPE

1. Labels shall be affixed to any asbestos contaminated material in accordance with the requirements of 29 CFR 1910.1200 (f) of OSHA's Hazard Communication Standard, and shall contain the following information:

DANGER CONTAINS ASBESTOS FIBERS AVOID BREATHING DUST CANCER AND LUNG DISEASE HAZARD

2. A label shall be affixed on each container of asbestos waste in accordance with the requirements of 49 CFR Parts 171 and 172, Hazardous Substances; Final Rule (U.S. Department of Transportation), and shall contain the following information:

RQ HAZARDOUS SUBSTANCE SOLID, NOS, ORM-E, NA 9188 (ASBESTOS)

3. A label shall be affixed on each container of asbestos waste in accordance with the requirements of 40 CFR Part 61.150, NESHAP; Asbestos; Final Rule (USEPA) and shall contain the name of the waste generator and the location at which the waste was generated.

NOTE: All containers marked as above (1,2 and 3) shall be disposed of as asbestos waste.

4. Provide 3" red barrier tape printed with black lettered "DANGER ASBESTOS REMOVAL". Locate barrier tape across all corridors, entrances and access routes to asbestos work area.

E. PROTECTIVE EQUIPMENT

- 1. Respiratory Requirements
 - a. Where fiber levels permit, and in compliance with regulatory requirements, Powered Air Purifying Respirators are the minimum allowable respiratory protection permitted to be utilized during removal operations.
 - b. Where not in violation of NIOSH, OSHA, and any other regulatory requirements, the Abatement Contractor shall provide the following minimum respiratory protection to the maximum use concentrations indicated:

| MSHA/NIOSH Approved <u>Respiratory</u> Protection | Maximum Use Concentration |
|---|------------------------------|
| Half-Mask Air Purifying with HEPA Filters | 10x PEL |
| Full-Facepiece Air Purifying HEPA Filters and Quantitative Fit Test | 10x PEL |
| Powered Air Purifying (PAPR), Loose fitting Helmet or Hood, HEPA Filter | 25x PEL |
| Powered Air Purifying (PAPR), Full Facepiece, HEPA Filter | 50x PEL |
| Supplied Air, Continuous Flow Loose fitting Helmet or Hood | 25x PEL |
| Supplied Air, Continuous Flow | 50x PEL |

Full Facepiece, HEPA Filter

| Full Facepiece-Supplied Air Pressure Demand, HEPA Filter | 100x PEL |
|---|-----------|
| Full Facepiece-Supplied Air Pressure Demand, with Aux. SCBA, Pressure Demand or Continuous Flow | >100x PEL |

- 2. Disposable Clothing -"Tyvek" manufactured by Dupont or approved equal.
- 3. NIOSH approved safety goggles to protect eyes.
- 4. Polyethylene bags, 6 mil. (.006") thick (use double bags).

NOTE: Workers must wear disposable coveralls and respirator masks at all times while in the work area. Contaminated coveralls or equipment must be left in work area and not worn into other parts of the building.

F. TOOLS AND EQUIPMENT

- 1. Airless Sprayer An airless sprayer, suitable for application of encapsulating material, shall be used.
- 2. Scaffolding Scaffolding, as required to accomplish the specified work, shall meet all applicable safety regulations.
- 3. Transportation Equipment Transportation equipment, as required, shall be suitable for loading, temporary storage, transport and unloading of contaminated waste without exposure to persons or property. Water tight, hard wall containers shall be provided to retain and dispose of any asbestos waste material with sharp-edged components that may tear plastic bags or sheeting. The containers shall be marked with danger labels.
- 4. Surfactant Wetting Agents "Asbestos-Wet" Aquatrols Corp. of America or approved equal, and shall be non- carcinogenic.
- 5. Portable (negative air pressure) asbestos filtration system by Micro-Trap, or approved equal.
- 6. Vacuum, HEPA type equal to "Nilfisk" #GA73, or "Pullman/Holt" #75 ASA.
- 7. Amended Water Sprayer The water sprayer shall be an airless or other low-pressure sprayer for amended water application.
- 8. Other Tools and Equipment The Abatement Contractor shall provide other suitable tools for the stripping, removal, encapsulation, and disposal activities including but not limited to: hand-held scrapers, nylon brushes, sponges, rounded edge shovels, brooms, and carts.
PART 3 – EXECUTION

3.01 PRE-ABATEMENT WORK AREA PREPARATION

- A. The work area shall be vacated by the occupants prior to work area preparation and not reoccupied until satisfactory clearance air monitoring results have been achieved.
- B. Caution signs shall be posted at all locations and approaches to a location where airborne concentrations of asbestos may exceed ambient background levels. Signs shall be posted that permit a person to read the sign and take the necessary protective measures to avoid exposure.
- C. Shut down and lock out electric power to all work areas. The Abatement Contractor shall provide temporary power and lighting and ensure safe installation of temporary power sources and equipment used where high humidity and/or water shall be sprayed in accordance with all applicable codes. All power to work areas shall be brought in from outside the area through a ground-fault interrupter at the source.
- D. Isolate the work area HVAC system.
- E. The personnel decontamination enclosure system shall be installed or constructed prior to preparatory work in the work area and in particular before the disturbance of asbestos material. The waste decontamination enclosure system shall be installed or constructed prior to commencement of abatement activities.
- F. Movable objects within the work area shall be pre-cleaned using HEPA filtered vacuum equipment and/or wet cleaning and such objects shall be removed from the work area to an uncontaminated location. If disposed of as asbestos waste material, cleaning is not required.
- G. Fixed objects and other items, which are to remain within the work area, shall be pre-cleaned using HEPA filtered vacuum equipment and/or wet cleaning. Such objects shall be enclosed with two layers of at least six mil plastic sheeting and sealed with tape.
- H. The work area shall be pre-cleaned using HEPA filtered vacuum equipment and/or wet cleaning. Methods that raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters, shall be prohibited. Asbestos material shall not be disturbed during pre-cleaning.
- I. Isolation barriers that seal off all openings, including windows, corridors, doorways, ducts, and any other penetrations of the work area, shall be constructed using two layers of at least six mil fire-retardant plastic sheeting sealed with tape. Also, all seams in mechanical system components that pass through the work area shall be sealed. Doorways and corridors, which shall not be used for passage during work, shall also be sealed.
- J. Removal of mounted objects. After isolation barriers are in place, objects such as light fixtures, electrical track, alarm systems, ventilation equipment and other items not previously sealed, shall be double sealed with six mil fire-retardant plastic sheeting. Localized HEPA filtered vacuum equipment shall be used during fixture removal to reduce asbestos dispersal.
- K. Individual roof and floor drains shall be sealed water tight using two layers of 6-mil fire-retardant

plastic sheeting and tape prior to plasticizing. Openings in floor shall be fully covered with plywood sheeting secured to the floor in such a way as to minimize a tripping hazard prior to plasticizing.

- L. Emergency and fire exits from the work area shall be maintained or alternate exits shall be established according to all applicable codes.
- M. Adequate toilet facilities shall be supplied by the Abatement Contractor and shall be located either in the clean area of the personnel decontamination enclosure or shall be readily accessible to the personnel decontamination enclosure.

3.02 LARGE ASBESTOS PROJECT PERSONNEL DECONTAMINATION ENCLOSURE SYSTEM (ICR 56-7.5)

- A. The personnel decontamination enclosure shall be constructed prior to preparatory work in the work area and, in particular, before the disturbance of asbestos material.
 - 1. Construction and use of personnel decontamination enclosure systems shall be in accordance with ICR-56 and any Applicable or Site Specific Variances utilized on this project. Such systems may consist of existing rooms outside of the work area, if the layout is appropriate, that can be enclosed is plastic sheeting and are accessible from the work area. When this situation does not exist, enclosure systems may be constructed out of metal, wood or plastic support.
 - 2. The personnel decontamination enclosure system shall consist of a clean room, a shower room, and an equipment room, in series, separated from each other and from the work area by three airlocks.
 - 3. There shall be one shower per six full shift abatement persons calculated on the basis of the largest shift.
 - 4. The personnel decontamination enclosure system shall be fully framed, sheathed for safety and constructed to prevent unauthorized entry.
 - 5. Personnel decontamination enclosure systems constructed at the work site shall utilize at least six mil fire-retardant opaque plastic sheeting. At least two layers of six mil fire-retardant reinforced plastic sheeting shall be used for the flooring of this area.
 - 6. All prefabricated decontamination units shall be completely decontaminated and sealed prior to separation and removal from the work area. Mobile decontamination units shall remain in place until satisfactory clearance results have been attained.
 - 7. The clean room shall be sized to accommodate all authorized persons. Benches, lockers and hooks shall be provided for street clothes. Shelves for storing respirators shall also be provided. Clean clothing, replacement filters for respirators, towels and other necessary items shall be provided. The clean room shall not be used for the storage of tools, equipment or materials. It shall not be used for office space. A lockable door shall be provided to permit access to the clean room from outside the work area or enclosure. It shall be used to secure the work area and decontamination enclosure during off-shift hours.

- 8. The shower room shall contain one or more showers. Each shower head shall be supplied with hot and cold water adjustable at the tap. The shower enclosure shall be constructed to ensure against leakage of any kind. Uncontaminated soap, shampoo and towels shall be available at all times. Shower water shall be drained, collected and filtered through a system with at least 5.0 micron particle size collection capability. A system containing a series of several filters with progressively smaller pore sizes shall be used to avoid rapid clogging of the filtration system by large particles. Filtered wastewater shall be discharged in accordance with applicable codes. Contaminated filters shall be disposed of as asbestos waste. The shower room shall be constructed in such way that travel through the decontamination unit shall be through the shower.
- 9. The equipment room shall be used for the storage of equipment and tools after decontamination using a HEPA filtered vacuum and/or wet cleaning. A one day supply of replacement filters, in sealed containers, for HEPA vacuums and negative pressure ventilation equipment, extra tools, containers of surfactant and other materials and equipment that may be required during the abatement project may also be stored here. A walk-off pan filled with water shall be located in the work area just outside the equipment room for persons to clean foot covering when leaving the work area. A drum lined with a labeled, at least six mil plastic bag is required for collection of clothing and shall be located in this room. Contaminated footwear and work clothes shall be stored in this area.

3.03 WASTE DECONTAMINATION ENCLOSURE SYSTEM (ICR 56-7.5)

- A. General Requirements
 - 1. A waste decontamination enclosure system shall consist of the following:
 - a. A washroom/cleanup room shall be constructed with an airlock doorway to the work area and another airlock doorway to the holding area.
 - b. The holding area shall be constructed with an airlock doorway to the washroom/cleanup room and another lockable door to the outside.
 - 2. Where there is only one egress from the work area, the holding area of the waste decontamination enclosure system may branch off from the equipment decontamination room, which doubles as a waste washroom, of the personnel decontamination enclosure.
 - 3. The waste washroom shall be equipped with a drain installed to collect water and deliver it to the shower drain where it shall be filtered through a system with at least 5.0 micron particle size collection capability. A system containing a series of several filters with progressively smaller pore sizes shall be used to avoid rapid clogging of the filtration system by large particles. Filtered wastewater shall be discharged in accordance with applicable codes. Contaminated filters shall be disposed of as asbestos waste.
 - 4. The waste washroom shall be constructed in such a way that travel through the rooms shall be through the waste washroom

3.04 WORK AREA ENTRY AND EXIT PROCEDURES

A. The following procedures shall be followed throughout the asbestos abatement project until

satisfactory clearance air monitoring results have been achieved:

- 1. All persons shall enter and exit the work area through the personnel decontamination enclosure system.
- 2. All persons who enter the work area or an enclosure shall sign the entry/exit log, located in the clean room, upon every entry and exit.
- 3. All persons, before entering the work area, or an enclosure shall read and be familiar with all posted regulations, personal protection requirements, including work area entry and exit procedures, and emergency procedures. The entry/exit log headings shall indicate, and the signatures shall be used to acknowledge, that these have been reviewed and understood by all persons prior to entry.
- 4. All persons shall proceed first to the clean room, remove all street clothing, store these items in clean sealable plastic bags or lockers and don coveralls, head covering, foot covering and gloves. All persons shall also don NIOSH approved respiratory protection. Clean respirators and protective clothing shall be utilized, by each person, for each separate entry into the work area. Respirators shall be inspected prior to each use and tested for proper seal using quantitative or qualitative fit checks.
- 5. Persons wearing designated personal protective equipment shall proceed from the clean room through the shower room to the equipment room, where necessary tools are collected and any additional clothing shall be donned, before entry into the work area.
- 6. Before leaving the work area, all persons shall remove gross contamination from the outside of respirators and protective clothing by brushing, wet cleaning, and/or HEPA vacuuming.
- 7. Persons shall proceed to the equipment room where all coveralls, head covering, foot covering and gloves shall be removed. Disposable clothing shall be deposited into labeled containers for disposal. Reusable contaminated clothing, footwear, head gear and gloves shall be stored in the equipment room when not being used in the work area.
- 8. Still wearing respirators, persons shall proceed to the shower area, clean the outside of the respirator and the exposed face area under running water prior to removal of the respirator, and then fully and vigorously shower and shampoo to remove residual asbestos contamination. Respirators shall be washed thoroughly with soap and water. Some types of respirators will require slight modification of these procedures. An airline respirator with HEPA filtered disconnect protection shall be disconnected in the equipment room and worn into the shower. A powered air-purifying respirator facepiece shall be disconnected from the filter/power pack assembly prior to entering the shower.
- 9. After showering and drying, all persons shall proceed to the clean room and don clean personal protective equipment if returning to the work area or street clothing if exiting the enclosure.

3.05 EQUIPMENT AND WASTE CONTAINER DECONTAMINATION & REMOVAL PROCEDURES

- A. The following procedures shall be followed throughout the asbestos abatement project until satisfactory clearance air monitoring results have been achieved.
 - 1. External surfaces of contaminated containers and equipment shall be cleaned by wet cleaning and/or HEPA vacuuming in the work area before moving such items into the waste decontamination enclosure system airlock by persons assigned to this duty. These work area persons shall not enter the airlock.
 - 2. These contaminated items shall be removed from the airlock by persons stationed in the washroom during waste removal operations. These washroom persons shall remove gross contamination from the exterior of their respirators and protective clothing by brushing, HEPA vacuuming and/or wet cleaning.
 - 3. Once in the waste decontamination enclosure system, external surfaces of contaminated containers and equipment shall be cleaned a second time by wet cleaning.
 - 4. The cleaned containers of asbestos material and equipment are to be dried of any excessive pooled or beaded liquid, placed in uncontaminated plastic bags or sheeting and sealed airtight.
 - 5. The clean recontainerized items shall be moved into the airlock that leads to the holding area. The washroom persons shall not enter this airlock or the work area until waste removal is finished for that period.
 - 6. Containers and equipment shall be moved from the airlock and into the holding area by persons dressed in clean personal protective equipment, who have entered from uncontaminated areas.
 - 7. The cleaned containers of asbestos material and equipment shall be placed in water tight carts with doors or tops that shall be closed and secured. These carts shall be held in the holding area pending removal. The carts shall be wet cleaned and/or HEPA vacuumed at least once each day.
 - 8. The exit from the decontamination enclosure system shall be secured to prevent unauthorized entry.
 - 9. Where the waste removal enclosure is part of the personnel decontamination enclosure, waste removal shall not occur during shift changes or when otherwise occupied. Precautions shall be taken to prevent short circuiting and cycling of air outward through the shower and clean room.
 - 10. Containers labeled with Asbestos hazard warnings shall not be used to dispose of non asbestos waste.

3.06 ENGINEERING CONTROLS

A. Ventilation.

- 1. The Abatement Contractor shall employ HEPA equipped vacuums or negative air pressure equipment for ventilation as required.
- 2. All negative air pressure equipment ventilation units shall be equipped with HEPA filtration. The Contractor shall provide a manufacturer's test certificate for each unit documenting the capability

of trapping and retaining 99.97 percent of asbestos fibers greater than 0.3 microns equivalent aerodynamic diameter.

- 3. A power supply shall be available to satisfy the requirements of the total of all ventilating units.
- 4. On electric power failure, abatement shall stop immediately and shall not resume until power is restored and exhaust units are operating fully. On extended power failure, longer than one hour, the decontamination facilities, after the evacuation of all persons from the work area, shall be sealed airtight.
- 5. If extending the exhaust of the ventilation units 50 feet from the building would result in an exhaust location either in the road, blocking driveway access to the facility or within 50 feet of other buildings, a second unit will be run in series with the primary unit.

3.07 MAINTENANCE OF DECONTAMINATION ENCLOSURE SYSTEMS AND WORK AREA BARRIERS

A. GENERAL REQUIREMENTS

- 1. The Consultant must review and approve installation before commencement of work. Upon completion of the construction of all plastic barriers and decontamination system enclosures and prior to beginning actual abatement activities.
- 2. All plastic barriers inside the work area, in the personnel decontamination enclosure system, in the waste decontamination enclosure system and at partitions constructed to isolate the work area from occupied areas, shall be inspected by the asbestos supervisor at least twice daily. The barriers shall be inspected before the start of and following the completion of the day's abatement activities. Inspections and observations shall be documented in the project log.
- 3. Damage and defects in the barriers and/or enclosure systems shall be repaired immediately upon discovery and prior to resumption of abatement activities.
- 4. At any time during the abatement activities, if visible emissions are observed outside of the work area of if damage occurs to the barriers, work shall be stopped, repairs made and visible residue immediately cleaned up using HEPA vacuuming methods prior to the resumption of abatement activities.
- 5. The Abatement Contractor shall HEPA vacuum and/or wet clean the waste decontamination enclosure system and the personnel decontamination enclosure system at the end of each day of abatement activities.

3.08 HANDLING AND REMOVAL PROCEDURES

The Abatement Contractor may utilize existing provisions of ICR-56, Applicable Variances or a Site Specific Variance, approved by the Owner's Consultant, to permit the conduct of this work.

3.09 ABATEMENT PROCEDURES

A. AIR SAMPLING - By Owner

- 1. Air sampling and analysis shall be conducted according to the requirements of Subpart 56-4 before the start, during and after the completion of the asbestos removal project.
- 2. In addition to the requirements of Subpart 56-4, air monitoring shall be conducted in accordance with any approved job specific variance(s) or applicable variance utilized.
- 3. Clearance samples may be analyzed using PCM to maintain compliance with ICR-56.
- 4. If applicable, clearance samples will be analyzed using TEM to maintain compliance with ICR-56 and 40 CFR 763.90[i].
- B. The provisions of the Applicable Variances or a Job Specific Variance shall apply only in those areas where approval has been granted by the NYS DOL and the Contractor has obtained concurrence from the Owner's Consultant. All other applicable provisions of Industrial Code Rule 56-1 through 56-12 shall be complied.
- C. A copy of the NYS DOL Job Specific or Applicable Variance, if applicable, shall be conspicuously posted at the work area(s).
- D. The Abatement Contractor shall construct a decontamination unit at the work site. The Abatement Contractor shall, as a minimum, comply with the requirements of 29 CFR 1926.1101(j); Hygiene facilities and practices for employees.

3.10 ENCAPSULATION PROCEDURES

The following procedures shall be followed to seal in non-visible residue, after obtaining satisfactory clearance air monitoring results, while conducting lockdown encapsulation on any surfaces which were the subject of removal or other remediation activities:

- A. Only encapsulants rated as acceptable or marginally acceptable on the basis of Battelle Columbus Laboratory test procedures and rating requirements developed under the 1978 USEPA contract shall be used for lockdown encapsulation.
- B. Sealants considered for use in encapsulation shall first be tested to ensure that the sealant is adequate for its intended use. A section of the work surface shall be evaluated following this initial test application of the sealant to quantitatively determine the sealant's effectiveness in terms of penetrating and locking down the asbestos fibers. The American Society of Testing and Materials (ASTM) Committee E06.21.06E on Encapsulation of Building Materials has developed a guidance document to assist in the selection of an encapsulant.
- C. The encapsulant solvent or vehicle shall not contain a volatile hydrocarbon.
- D. Encapsulants shall be applied using airless spray equipment.
 - 1. Spraying is to occur at the lowest pressure range possible to minimize fiber release from encapsulant impact at the surface. It shall be applied with a consistent horizontal or vertical motion.

E. Encapsulation shall be utilized as a surface sealant once all asbestos containing materials have been removed in a work area. In no event shall encapsulant be applied to any surface that was the subject of removal or other remediation activities prior to obtaining satisfactory clearance air monitoring.

3.11 CLEANUP PROCEDURES

- A. The following cleanup procedures shall be required.
 - 1. Cleanup of accumulations of loose asbestos material shall be performed whenever enough loose asbestos materials have been removed to fill a single leak tight container of the type commensurate with the material properties. In no case shall cleanup be performed less than once prior to the close of each working day. Asbestos material shall be kept wet until cleaned up.
 - 2. Accumulations of dust shall be cleaned off all surfaces on a daily basis using HEPA vacuum cleaning methods.
 - 3. Decontamination enclosures shall be HEPA vacuumed at the end of each shift.
 - 4. Accumulations of asbestos waste material shall be containerized utilizing HEPA vacuums or rubber or plastic dust pans, squeegees, or shovels. Metal shovels shall not be used to pick up or move waste.
 - 5. Excessive water accumulation or flooding in the area shall require work to stop until the water is collected and disposed of properly.
- B. The following cleanup procedures shall be required after completion of all removal activities.
 - 1. All accumulations of asbestos waste material shall be containerized utilizing HEPA vacuums or rubber or plastic dust pan, squeegees or shovels. Metal shovels shall not be used to pick up or move waste. HEPA vacuums shall be used to clean all surfaces after gross cleanup.
 - 2. Cleaning. All surfaces in the work area shall be HEPA vacuumed. To pick up excess liquid and wet debris, a wet purpose shop vacuum may be used and shall be decontaminated prior to removal from the work area.
 - 3. Windows, doors, HVAC system vents and all other openings shall remain sealed. Decontamination enclosure systems shall remain in place and be utilized.
 - 4. All containerized waste shall be removed from the work area and the holding area.
 - 5. All tools and equipment shall be decontaminated and removed from the work area.
 - 6. A final visual inspection and clearance air monitoring, as per the schedule for air sampling and analysis, shall be conducted.
 - 7. The isolation barriers and decontamination unit shall be removed only after satisfactory clearance air monitoring results have been achieved.

3.12 SAFETY MONITORING – CONSULTANT:

The Consultant will designate an Asbestos Safety Technician (AST) to represent the Owner during the removal program. The AST must be on the job site at all times during abatement work. Absolutely no abatement or preparation work will occur without the presence of the AST.

The AST will conduct four (4) milestone inspections.

- 1. Pre-commencement inspection shall be conducted as follows:
 - a. Notification in writing to the Consultant shall be made by the Abatement Contractor to request a pre-commencement inspection at least 48 hours in advance of the desired date of inspection. This inspection shall be requested prior to beginning preparatory work in another work area.
 - b. The AST shall ensure that:
 - i. The job site is properly prepared and that all containment measures are in place;
 - ii. The designated supervisor shall present to the inspector a valid supervisor's license issued by the New York Department of Labor;
 - iii. All workers shall present to the inspector a valid handler's license issued by the New York Department of Labor;
 - iv. Measures for the disposal of removed asbestos material are in place and shall conform to the adopted standards;
 - v. The Abatement Contractor has a list of emergency telephone numbers at the job site which shall include the monitoring firm employed by the Owner and telephone numbers for fire, police, emergency squad, local hospital and health officer.
 - c. If all is in order, the AST shall issue a written notice to proceed in the field. If the job site is not in order, then any needed corrective action must be taken before any work is to commence. Conditional approvals shall not be granted.

Progress inspection shall be conducted as follows:

- a. Primary responsibility for ensuring that the abatement work progresses in accordance with these technical specifications and regulatory requirements rests with the Abatement Contractor. The AST shall continuously be present to observe the progress of work and perform required tests.
- b. If the AST observes irregularities at any time, he shall direct such corrective action as may be necessary. If the Abatement Contractor fails to take the corrective action required, or if the Abatement Contractor or any of their employees habitually and/or excessively violate the requirements of any regulation, then the AST shall inform the Owner who shall issue a Stop Work Order to the Abatement Contractor and have the work site secured until all violations are abated.

Clean-up inspections shall be conducted as follows:

a. Notice for clean-up inspection shall be requested by the Abatement Contractor at least 24 hours

in advance of the desired date of inspection;

- b. The clean-up inspection shall be conducted prior to the removal of any isolation or critical barriers and before final air clearance monitoring;
- c. The AST shall ensure that:
 - i. The work site has been properly cleaned and is free of visible asbestos containing material and debris.
 - ii. All removed asbestos has been properly placed in a locked secure container outside of the work area.
- d. If all is in order, the AST shall issue a written notice of authorization to remove surface barriers from the work area. All isolation barriers shall remain in place until satisfactory clearance air sampling has been completed.
- 4. Clearance Visual Inspection shall be conducted after the removal of non-critical plastic sheeting. The AST shall insure that:
 - a. The work area is free of all visible asbestos or suspect asbestos debris and residue.
 - b. All waste has been properly bagged and removed from the work area.
 - c. Should clearance visual inspection identify residual debris, as determined by the AST, the Abatement Contractor is responsible for recleaning the area at his own cost and shall bear all costs of reinspection until acceptable levels are achieved.
- B. The Abatement Contractor shall be required to receive written approval before proceeding after each milestone inspection.

3.13 PERSONNEL AIR MONITORING – CONTRACTOR (29 CFR 1926.1101)

- A. Personnel air monitoring shall be provided to determine both short-term (STEL) and full shift during when abatement activities occur. Personnel sampling shall be performed in each work area in order to accurately determine the concentrations of airborne asbestos to which workers may be exposed.
- B. The Abatement Contractor shall have a qualified "Competent Person" (as specified in 29 CFR 1926 OSHA) to conduct personnel air monitoring.
- C. The laboratory performing the air sample analysis shall be certified by NYS DOH ELAP and approved by the consultant.
- D. Personnel air monitoring test results for OSHA Compliance. Results shall be posted at the work site within 24 hours of testing and copies supplied to the Owner within five (5) days of testing. Abnormalities shall be supplied to the Owner immediately.

3.14 CLEARANCE AIR MONITORING

- A. Air samples will be collected in and around the work areas at the completion of abatement activities.
- B. Clearance samples may be analyzed using PCM to maintain compliance with ICR-56.
- C. If applicable, clearance samples will be analyzed using TEM to maintain compliance with ICR-56 and 40 CFR part 763 "Asbestos-Containing Materials in Schools; Final Rule and Notice" section 763.90.

D. ***RETESTING***

Should clearance air monitoring yield fiber concentrations above the "Clearance" criteria of either 0.01 fibers per CC and/or background levels (PCM) –OR- seventy (70) structures per square millimeter (TEM/AHERA), the Abatement Contractor is responsible for re-cleaning the area at his own cost and shall bear all costs associated with the retesting of the work area(s) including monitoring labor, sampling, analysis, etc. until such levels are achieved.

3.15 **RESPIRATORY PROTECTION REQUIREMENT**

- A. Respiratory protection shall be worn by all individuals inside the work area from the initiation of the asbestos project until all areas have successfully passed clearance air monitoring in accordance with these specifications. The Abatement Contractor shall keep available at all times two PAPR's with new filters and charged batteries for use by authorized visitors.
- B. All respiratory protection shall be MSHA/NIOSH approved in accordance with the provisions of 30 CFR Part II. All respiratory protection shall be provided by the Abatement Contractor, and used by workers in conjunction with the written respiratory protection program.
- C. The Abatement Contractor shall provide respirators that meet the requirements of 29 CFR Parts 1910 and 1926.
 - 1. Full facepiece Type C supplied-air respirators operated in pressure demand mode equipped with an auxiliary self- contained breathing apparatus, operated in pressure demand or continuous flow, shall be worn during gross removal, demolition, renovation and/or other disturbance of ACM whenever airborne fiber concentrations inside the work area are greater than 10.0 f/cc.
 - 2. Full facepiece Type C supplied-air respirators operated in pressure demand mode with HEPA filter disconnect protection shall be work during gross removal, demolition, renovation and/or other disturbance of ACM with an amphibole content and/or whenever airborne fiber concentrations inside the work area are equal to or greater than 0.5 f/cc and less than or equal to 10.0 f/cc.
 - 3. Full facepiece powered air-purifying respirators (PAPR) equipped with HEPA filters shall be worn during the removal, encapsulation, enclosure, repair and/or other disturbance of friable ACM if airborne fiber concentrations inside the work area are less than 0.5 f/cc. A supply of charged replacement batteries, HEPA filters and flow test meter shall be available in the clean room for use with powered air-purifying respirators. HEPA filters shall be changed daily or as flow testing indicates change is necessary. Any Type C supplied-air respirator operated in continuous flow, with HEPA filter disconnect protection, may be substituted for a powered

air-purifying respirator.

- 4. Loose fitting helmets or hoods with powered air-purifying respirators (PAPR) equipped with HEPA filters may be worn during the removal, encapsulation, enclosure, repair and/or other disturbance of friable ACM if airborne fiber concentrations inside the work area are less than 0.25 f/cc. A supply of charged replacement batteries, HEPA filters and flow test meter shall be available in the clean room for use with powered air-purifying respirators. HEPA filters shall be changed daily or as flow testing indicates change is necessary. Any Type C supplied-air respirator operated in continuous flow may be substituted for a powered air-purifying respirator.
- 5. Half-mask or full-face air-purifying respirators with HEPA filters shall be worn only during the preparation of the work area and final clean up procedures provided airborne fiber concentrations inside the work area are less than 0.1 f/cc.
- 6. Use of single use dust respirators is prohibited for the above respiratory protection.
- D. Workers shall be provided with personally issued and individually marked respirators. Respirators shall not be marked with any equipment that will alter the fit of the respirator in any way. Only waterproof identification markers shall be used.
- E. The Abatement Contractor shall ensure that the workers are qualitatively or quantitatively fit tested by an Industrial Hygienist initially and every six months thereafter with the type of respirator he/she will be using.
- F. Whenever the respirator design permits, workers shall perform the positive and negative air pressure fit test each time a respirator is worn. Powered air-purifying respirators shall be tested for adequate flow as specified by the manufacturer.
- G. No facial hair, which interferes with the face-to-mask sealing surface, shall be permitted to be worn when wearing respiratory protection that requires a mask-to-face seal.
- H. Contact lenses shall not be worn in conjunction with respiratory protection.
- I. If a worker wears glasses, a spectacle kit to fit their respirator shall be provided by the Abatement Contractor at the Abatement Contractor's expense.
- J. Respiratory protection maintenance and decontamination procedures shall meet the following requirement:
 - 1. Respiratory protection shall be inspected and decontaminated on a daily basis in accordance with OSHA 29 CFR 1910.134(b); and
 - 2. HEPA filters for negative pressure respirators shall be changed after each shower; and
 - 3. Respiratory protection shall be the last piece of worker protection equipment to be removed. Workers must wear respirators in the shower when going through decontamination procedures; and
 - 4. Airline respirators with HEPA filtered disconnect shall be disconnected in the equipment room

and worn into the shower. Powered air-purifying respirator facepieces shall be worn into the shower. Filtered/power pack assemblies shall be decontaminated in accordance with manufacturers' recommendations; and

- 5. Respirators shall be stored in a dry place and in such a manner that the facepiece and exhalation valves are not distorted; and
- 6. Organic solvents shall not be used for washing of respirators.
- K. No visitors shall be allowed to enter the contaminated area if they do not have their medical certification and training certificate. Authorized visitors shall be provided with suitable PAPR respirators and instructions on the proper use of respirators whenever entering the work area.

3.16 DISPOSAL OF WASTE

A. APPLICABLE REGULATIONS

- 1. All asbestos waste shall be stored, transported and disposed of as per, but not limited to, the following Regulations:
 - a. NYS Code Rule 56
 - b. U.S. Department of Transportation (DOT) Hazardous Substances Title 29, Part 171 and 172 of the code of Federal Regulations regarding waste collector registration
 - c. Regulations regarding waste collector registration Title 6, part 364 of the New York State Official Compilation of Codes, Rules and Regulations 6 NYCRR 364
 - d. USEPA NESHAPS 40 CRF 61
 - e. USEPA ASBESTOS WASTE MANAGEMENT GUIDANCE EPA/530-SW-85-007
- B. TRANSPORTER OR HAULER The Abatement Contractor shall bear full responsibility for proper characterization, transportation and disposal of all solid or liquid waste, generated during the project, in a legal manner. The Owner shall approve all transportation and disposal methods.
 - 1. The Abatement Contractor's Transporter (hauler) and disposal site shall be approved by the Owner. The Abatement Contractor shall remove within 48 hours all asbestos waste from the site after completing the clean up.
 - 2. The Transporter must possess and present to the Owner's representative a valid New York State Department of Environmental Conservation Part 364 asbestos hauler's permit to verify license plate and permit numbers. The Owner's representative will verify the authenticity of the hauler's permit with the proper authority.
 - 3. The Abatement Contractor shall give 24 hour notification prior to removing any waste from the site. All waste shall be removed from site only during normal working hours. No waste may be

taken from the site without authorization from the Owner's representative.

- 4. The Abatement Contractor shall have the Transporter give the date and time of arrival at the disposal site.
- 5. The Transporter with the Abatement Contractor and Owner's consultant shall inspect all material in the transport container prior to taking possession and signing the Waste Manifest. The Transporter shall not have any off site transfers or be combined with any other off-site asbestos material.
- 6. The Transporter must travel directly to the disposal site with no unauthorized stops.
- C. WASTE STORAGE CONTAINER
 - 1. During loading and on site storage, the asbestos waste container shall be labeled with EPA Danger signage:

DANGER CONTAINS ASBESTOS FIBERS AVOID CREATING DUST CANCER AND LUNG DISEASE HAZARD

- 2. The NYS DEC Hauler's Permit number shall be on both sides and back of the container.
- 3. The Container will not be permitted to leave the site without the proper signage.
- 4. A copy of the completed waste manifest shall be forwarded directly to the Owner's Consultant by the disposal facility.
- 5. Packaging of Non-friable Asbestos. Use of an open top container shall require written request, by the Contractor, and written approval by the Owners Representative, and be performed in compliance with all applicable regulations.
 - a) A chute, if used, shall be air/dust tight along its lateral perimeter and at the terminal connection to the dumpster at ground level (solid wall and top container). The upper end of the chute shall be furnished with a hinged lid, to be closed when the chute is not being used.
 - b) The container shall be lined with a minimum of two (2) layers of 6 mil. Fire-retardant polyethylene draped loosely over the sides so as to facilitate being wrapped over the top of the load and sealed prior to transport from the site.
 - c) Prior to transport from the work site the Dumpster will be disconnected from the chute and sealed air/dust tight utilizing six mil plastic and tape. The waste material will be transported as an asbestos containing material by appropriate legal methods.

- 6. Packaging Friable Asbestos.
 - a) The container shall be a solid wall, hard top and lockable container.
 - b) The container shall be locked upon arrival at the site to restrict access. Security shall be provided at the entrance to the container during the loading process and immediately locked upon completion.
 - c) The interior walls, floor and ceiling shall be lined with two (2) layers of 6 mil. Fire-retardant polyethylene.
 - d) The waste shall be loaded in such a manner as to protect the integrity of the individual waste packages.
 - e) Prior to transport from the work site the interior of the Dumpster will sealed air/dust tight utilizing six mil plastic and tape. The waste material will be transported as an asbestos containing material by appropriate legal methods.

D. WASTE DISPOSAL MANIFEST

- 1. The Asbestos Waste Manifest shall be equivalent to the "Waste Shipment Record" included in 40 CFR 61. A copy of the Contractor's manifest shall be reviewed by the Owner's Consultant and shall be the only manifest used.
- 2. The Manifest shall be verified by the Owner's Consultant indicating that all the information and amounts are accurate and the proper signatures are in place.
- 3. The Manifest shall have the signatures of the Abatement Contractor and the Transporter prior to any waste being removed from the site.
- 4. The Manifest shall be signed by the Disposal Facility owner or operator to certify receipt of asbestos containing materials covered by the manifest.
- 5. A copy of the completed manifest shall be provided by the Abatement Contractor to the Owner's Consultant and remain on site for inspection.
- 6. Abatement Contractor shall maintain a waste disposal log which indicates load number, date and time left site, container size, type of waste, quantity of waste, name of hauler, NYS DES permit number, trailer and tractor license number, and date manifest was returned to Consultant.
- 7. The Disposal Facility owner or operator shall return a signed copy of the Waste Manifest directly to:

Rye CSD 555 Theodore Fremd Avenue, Suite B-101 Rye, NY 10580 ATTN: Robert Gimigliano

- 8. Copies of the completed Waste Manifest are to be sent by the disposal facility to the Hauler and Abatement Contractor.
- 9. Submit signed dump tickets and manifests with final payment request.
- 10. Final payment request will not be honored without signed dump ticket or manifests accounting for all asbestos waste removed from the site.

E. VIOLATIONS OF SPECIFICATIONS

1. Violations of the safety, hygiene, environmental, procedures herein, any applicable federal, state of local requirement s or failure to cooperate with the Owner's representative shall be grounds for dismissal and/or termination of this contract.

F. VIOLATIONS OF NO SMOKING POLICY

1. The Federal Pro Children Act of 1994 prohibits School District Officials from smoking in any buildings or on the grounds that is property of the School District. The District shall be considered smoke free. The School District strongly enforces its' No Smoking Policy. It is the Contractor's responsibility to inform all workers of this policy. Any worker(s) involved with this project that are found smoking or using tobacco products will be informed that they are in violation of the Federal and State Law and School Board Policy and will be removed from site.

3.17 LOCATION OF "ABATEMENT WORK"

(Please see attached Drawings for approximate locations)

1) <u>RYE HIGH SCHOOL/MIDDLE SCHOOL (INTERIOR ABATEMENTS)</u>

- Abatement Contractor is responsible for complete & total removal & disposal of approximately 1,460 SF of non-friable asbestos-containing 9"x9" floor tile & associated mastic on non-ACM slab. Tiles to be removed are both exposed and beneath existing wood casework. Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). Subsequent to final air clearance, the substrate(s) shall be washed with a neutralizing agent to prepare the substrate to accept new floor covering(s) and eliminate residual odors. See attached ACM Location Drawings for removal locations. See below for breakdown and layering systems:
 - o 2nd Floor East Hallway Exposed, on Slab (1,000 SF)
 - Classroom 303 Exposed, on Slab (200 SF)
 - o 3rd Floor Hallway Outside of 303 & 304 Exposed, on Slab (260 SF)
- Abatement Contractor is responsible for complete & total removal & disposal of approximately 3,060 SF of non-friable asbestos-containing 1'x1' floor tile on non-ACM slab. Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). See attached ACM Location Drawings for removal locations. See below for breakdown and layering systems:
 - Classroom 301 & 302 On Slab (300 SF)
 - \circ 3rd Floor Hallway Outside of 301 & 302 (960 SF)
- Abatement Contractor is responsible for complete & total removal & disposal of 1'x1' ceiling tiles with approximately 1,548 SF of non-friable asbestos-containing glue dabs on non-ACM plaster ceilings. ACM to be removed is both exposed and concealed above non-ACM suspended ceiling tiles as described below. Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). See attached ACM Location Drawings for removal locations. See below for breakdown:
 - Classrooms 301, 302 & 304 Above Non-ACM Suspended Ceilings (1,548 SF Approx. Total)
- Abatement Contractor is responsible for removal of three (3) door frames/casings connected to friable, asbestos-containing plaster within the High School Auditorium Lobby. Doors shall be removed and stored prior to commencement of abatement activities. Abatement Contractor shall remove at least an additional one (1) foot of plaster from each side of the removed door frame, and patch/reinstall masonry to allow for installation of new doors and frames as non-abatement work. Removals shall include all materials, including the lathe, studs and/or masonry substrate. Abatement contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). See attached ACM location drawings for locations. See below for breakdown and approximate quantity of plaster to be removed:
 - o Men's Toilet 103 Door (25 SF)
 - Two (2) Entrance Doors (25 SF Each, 50 SF Approximate Total)
- Abatement Contractor is responsible for complete & total removal and disposal of approximately 50 SF of friable, plaster on metal lathe and/or non-ACM masonry within Men's Bathroom 103, and for the subsequent abatement of approximately 50 SF of nonfriable asbestos-containing waterproofing tar on masonry behind the removed plaster. Abatement contractor is responsible for all demolition required to access material(s), as well

as for providing all equipment necessary to access material(s). See attached ACM location drawings for approximate location. Refer to drawing A2-511 for removal details.

- Abatement Contractor is responsible for complete & total removal and disposal of the following in Men's Bathroom 103, Girl's Toilet 241B, Boy's Toilet 181, and Girl's Toilet 183:
 - Radiator/Heater, and approximately 12 SF of friable insulation/insulation board assumed to exist behind the removed unit.
 - Mirrors and approximately 12 SF of non-friable glue/mastic on plaster and/or masonry.
 - Approximately 40 LF of friable pipe insulation/fittings assumed to exist in concealed locations such as, but not limited to above plaster/sheetrock ceilings, behind plaster/sheetrock walls, within CMU wet walls, chases, soffits, plenums, etc.

The Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). All debris generated shall be disposed of as ACM. See attached ACM location drawings for removal locations.

- Abatement Contractor is responsible for complete & total removal and disposal of the following in Women's Bathroom 105:
 - Three (3) radiators/heaters, and approximately 12 SF of friable insulation/insulation board assumed to exist behind each removed unit, as well as approximately 12 SF of non-friable asbestos containing waterproofing tar on perimeter masonry behind each removed unit.
 - Two (2) wall diffusers on friable, asbestos-containing plaster walls, as well as 1' of wall material, including lathe around perimeter of each diffuser (approx. 4 SF each)
 - Friable, asbestos containing plaster on metal lathe, behind sheetrock, in two (2) locations of toilet & associated plumbing removals. Abatement contractor is responsible for complete & total removal of all wall materials, and materials found behind walls associated with plumbing demo.

The Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s). Abatement contractor is responsible for all patching to ensure all demolition and construction required is non-ACM work. All debris generated shall be disposed of as ACM. See attached ACM location drawings for removal locations.

2) RYE HIGH SCHOOL/MIDDLE SCHOOL (ROOF & EXTERIOR ABATEMENTS)

- Abatement Contractor is responsible for complete & total removal and disposal of approximately 570 SF of non-friable, asbestos containing roof flashing tar, as indicated on attached ACM Location Drawings. ACM flashing tar exists on flashings to roof perimeter, adjacent building facades, and all installed equipment, on non-ACM masonry and metal, and on non-ACM concrete roof deck. All removals shall be to their respective substrate(s) and shall be at least eighteen (18) inches from the edge of the roof or equipment. All layers above ACM tar shall be removed and disposed of as ACM. Abatement Contractor is responsible for all demolition required to access material(s), as well as for providing all equipment necessary to access material(s).
- Abatement Contractor is responsible for complete & total removal and disposal of approximately 50 LF of non-friable asbestos-containing caulk from two (2) windows outside of the 3rd floor stairwell, as described on attached ACM location drawings. Windows are to be accessed from the roof locations identified for asbestos abatement. Abatement contractor is responsible for all demolition required to access material(s) as well as for providing all labor and equipment necessary to access material(s).

END OF LOCATION OF WORK

3.18 GENERAL

- A. The Abatement Contractor will be responsible for repairing all building components damaged during abatement including, but not limited to: ceiling tiles, ceiling finishes, wall finishes, floor finishes, etc.
- B. The Abatement Contractor shall be responsible for all demolition required to access materials identified in scope of work and on associated drawings.
- C. Concealed conditions that are exposed and may require additional work shall be brought to the attention of the Owner immediately. The Abatement Contractor shall not abate these areas without a written notice to proceed. Additional asbestos abatement performed prior to the order to proceed will not be acknowledged.
- D. The Abatement Contractor shall remove asbestos-containing floor covering to the building substrate beneath; in areas indicted. Subsequent to final air clearance the substrate shall be washed with a neutralizing agent to prepare the substrate to accept new floor covering and eliminate residual odors.
- E. Power tools used to drill, cut into or otherwise disturb asbestos containing material shall be equipped with HEPA filtered local exhaust ventilation.
- F. The Abatement Contractor shall provide access to GFCI electrical power, required to perform the area air monitoring for this project, within and immediately adjacent to each work area.
- G. Unwrapped or unbagged ACM shall be immediately placed in an impermeable waste bag or wrapped in plastic sheeting.
- H. Coordinate all removal operations with the Owner.

Asbestos Employee Medical Examination Statement Certificate of Worker Release Asbestos Employee Training Statement CERTIFICATE OF WORKERS'S ACKNOWLEDGEMENT

PROJECT NAME: Rye CSD: 2019 Capital Bond Project Phase II – Rye High School/Middle School

CONTRACTOR'S NAME:

WORKING WITH ASBESTOS INVOLVES POTENTIAL EXPOSURE TO AIRBORNE ASBESTOS FIBERS. INHALING ASBESTOS FIBERS HAS BEEN LINKED WITH VARIOUS TYPES OF CANCER AND RESPIRATORY DISEASES. SMOKING CIGARETTES AND INHALATION OF ASBESTOS FIBERS INCREASES THE RISK THAT YOU WILL DEVELOP LUNG CANCER ABOVE THAT OF THE NON-SMOKING PUBLIC.

The Contract for this project requires your employer to 1) supply proper respiratory protection devices and training on their use 2) provide training on safe work practices and on use of the equipment used on the project 3) provide a medical examination meeting the requirements of 29 CFR 1926.1101. Your signature on this certificate, documents that your employer has fulfilled these contractual obligations and you understand the information presented to you.

*******DO NOT SIGN THIS FORM UNLESS YOU FULLY UNDERSTAND THIS INFORMATION******

<u>RESPIRATORY PROTECTION</u>: I have been trained in the proper use and limitations of the type of respiratory protection devices to be used on this project. I have reviewed the written respiratory protection program manual and a copy is available for my use. Respiratory protection equipment has been proved, by the Contractor, at no cost to me.

<u>TRAINING COURSE</u>: I have been trained in the risks and dangers associated with handling asbestos, breathing asbestos dust, proper work procedures, personal protection and engineering controls. I have satisfactorily completed and Asbestos Safety Training Program for New York State and have been issued a New York State Department of Health Certificate of Asbestos Safety Training.

<u>MEDICAL EXAMINATION</u>: I have satisfactorily completed a medical examination within the last 12 months that meets the OSHA requirement for an asbestos worker and included at least 1) medical history 2) pulmonary function 3) medical examination 4) approval to wear respiratory protection devises and may have included an evaluation of a chest x-ray.

| Signature: | Date | |
|---------------|-------|--|
| Printed Name: | SS#: | |
| Witness: | Date: | |

Rve CSD: 2019 Capital Bond Project Phase II – Rve High School/Middle School

ESTIMATE OF ACM QUANTITIES

EACH ABATEMENT CONTRACTOR SHALL READ AND ACKNOWLEDGE THE FOLLOWING NOTICE. A SIGNED AND DATED COPY OF THIS ACKNOWLEDGMENT SHALL BE SUBMITTED WITH THE ABATEMENT CONTRACTOR'S BID FOR THIS PROJECT. FAILURE TO DO SO MAY, AT THE SOLE DISCRETION OF THE OWNER, RESULT IN THE BID BEING CONSIDERED NON-RESPONSIVE AND RESULT IN DISQUALIFICATION OF THE ABATEMENT CONTRACTOR'S BID ON THIS PROJECT.

*** N<u>OTICE</u> ***

The linear and square footages listed within this specification are approximates. Abatement Contractor is required to visit the work locations prior to bid submittal in order to take actual field measurements within each listed location. The Abatement Contractor shall base their bid on actual quantities determined, by them, at the site walkthrough. Estimates provided in these specifications are for informational purposes only and shall not be considered a basis for Change Orders on this project.

Acknowledgment: I have read and understand the above NOTICE regarding removal quantity estimates and understand that estimates provided in these specifications are for informational purposes only and shall not be considered a basis for Change Orders on this project. The Abatement Contractor's signatory represents to the Owner that he/she has the authority of the entity he/she represents to sign this agreement on its behalf.

Company Name: ______ Type or Print

BY: ______Signature

Title

Date

Print Name:

ASSOCIATED ASBESTOS REMOVAL LOCATION DRAWINGS

- > <u>Rye CSD: 2019 Capital Bond Project Phase II Rye High School/Middle School</u>
- HSMS ASB-101 Rye High School/Middle School 1st Floor Asbestos Abatement
- HSMS ASB-102 Rye High School/Middle School 2nd Floor Asbestos Abatement
- HSMS ASB-103 Rye High School/Middle School 3rd Floor Asbestos Abatement
- HSMS ASB-201 Rye High School/Middle School Roof Asbestos Abatement

END OF SPECIFICATION SECTION 020800

| | | GENERAL NOTES | GENERAL REMOVAL NOTES |
|---|-----------------------|--|--|
| | 1. | DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS | 1. BEFORE COMMENCING WORK, EXAMINE ALL ADJOINING AREAS THAT MAY BE AFFECTED BY REMOVAL. REPORT TO THE GENERAL CONTRACTOR ANY CONDITION THAT PREVENTS PERFORMANCE OF THE WORK. |
| | 2. | AND ACCESSIONES TO FOUNDE AFFLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR FIRST CLASS ELECTRICAL INSTALLATION. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH RESPECTIVE CONTRACTOR/OWNER. | 2. BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS WHERE CONNECTIONS MUST BE MADE, CHANGED OR ALTERED. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER AND NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS AT THE SITE. INSPECT EACH AND EVERY AREA AFFECTED BY THE ALTERATION OF |
| | 3. | WHERE PANELBOARDS, SWITCHES, CIRCUIT BREAKERS, ETC. ARE EXISTING AND TO BE REUSED THE CONTRACTOR SHALL CLEAN AND REFURBISH THE EQUIPMENT. THIS SHALL INCLUDE TIGHTENING ALL CONNECTIONS, REPLACING DEFECTIVE MECHANISMS AND PROVIDING ALL REQUIRED AND NECESSARY MISCELLANEOUS COMPONENTS SO THAT THE EQUIPMENT SHALL BE IN PERFECT WORKING ORDER. | THE SPACE BEFORE SUBMITTAL OF BID. 3. ALL ELECTRICAL EQUIPMENT IN THE AREA OF WORK IS EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: A. DISTRIBUTION BOARDS AND PANELBOARDS. B. LIGHTING FIXTURES AND SWITCHES. |
| | 4. | THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS. UNLESS OTHERWISE DIRECTED ANY NOISY WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS. | C. CIRCUIT BREAKERS AND DISCONNECT SWITCHES. D. RECEPTACLES, OUTLETS AND DEVICES. ALL CONDUCTORS AND CONDUIT ASSOCIATED WITH REMOVED ELECTRICAL 4. EQUIPMENT SHALL BE REMOVED COMPLETELY BACK TO ITS SOURCE OF POWER AND DISCONNECTED. ALL POWER CONDUCTORS, CONTROL WIRING AND CONDUIT ASSOCIATED WITH 5. MECHANICAL EQUIPMENT SUCH AS FANS, AIR CONDITIONING UNITS, PUMPS, ETC. DESIGNATED FOR REMOVAL ON THE HVAC AND PLUMBING REMOVAL |
| | 5. | ALL WORK WHERE SHOWN WITH DARK/SOLID LINES ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED. WHERE SHOWN WITH DASHED LINES WITH LETTER (E) IS EXISTING TO REMAIN, WITH LETTER (R) IS EXISTING TO BE REMOVED, WITH LETTER (ER) IS EXISTING RELOCATED, WITH LETTER (RN) IS EXISTING TO BE REPLACED WITH NEW AND WITH LETTER (RR) IS EXISTING TO BE REMOVED AND RELOCATED. | DRAWINGS SHALL BE REMOVED CLEAR BACK TO THE SOURCE OF POWER AND DISCONNECTED. ALL MOTOR STARTERS, DISCONNECT SWITCHES, CONTROL DEVICES, ETC. SHALL BE REMOVED. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. CIRCUIT BREAKERS AND/OR SWITCHES IN PANELBOARD(S) OR DISTRIBUTION 6. BOARD(S) MADE SPARE DUE TO REMOVAL SHALL BE DESIGNATED AS SUCH ON THE PANEL SCHEDULE |
| | 6. | CIRCUIT NUMBERS TO EXISTING PANELS ARE SHOWN FOR INTENT ONLY. ACTUAL CIRCUIT NUMBERS TO BE USED SHALL BE AS PER FIELD CONDITIONS BY UTILIZING SPARE CIRCUITS, BREAKERS OR SPACES IN EXISTING PANEL, SIZE AS INDICATED ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL BALANCE LOAD OF CIRCUITS EVENLY ON ALL PHASES. | THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO TRACE AND 7. RELOCATE ALL EXISTING FEEDERS AND BRANCH CIRCUIT WIRING WHICH PASSES THROUGH THE REMOVAL AREA THAT SERVE EXISTING OCCUPIED SPACES TO REMAIN. COORDINATE WITH BUILDING MANAGER PRIOR TO ANY SHUTDOWNS OR DISRUPTIONS THAT MAY BE REQUIRED TO ACCOMPLISH THIS |
| | 7. | FEEDERS AND BRANCH CIRCUITRY SHALL BE RUN IN MINIMUM ³ /4" CONDUIT UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO MOTORS MAY BE MADE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN 18"). IN UNFINISHED AREAS CONDUIT SHALL BE RUN EXPOSED AND IN FINISHED AREAS CONDUIT SHALL BE RUN CONCEALED. | WORK. DISPOSE OF ALL REMOVED EQUIPMENT, WHICH IS NOT INTENDED TO BE 8. REUSED. PRIOR TO DISPOSAL, CONTACT BUILDING MANAGER TO DETERMINE IF ANY REMOVED EQUIPMENT IS DESIRED FOR STOCK. |
| | 8. | PROVIDE PANEL NAME PLATE MADE OF BLACK LAMINATED PLASTIC WITH WHITE ENGRAVED LETTERING AND TYPE WRITTEN DIRECTORY FOR ALL NEW AND EXISTING PANELS BEING USED FOR THIS PROJECT. | EXISTING CIRCUIT BREAKERS IN PANEL(S) ARE TO BE RE-USED. ELECTRICAL 9. CONTRACTOR TO DISCONNECT PANEL AND CIRCUIT BREAKERS WITH GREAT CARE TO ENSURE AGAINST DAMAGE. THIS CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED. ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL. |
| | 9. | ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE NOTED. | ALL FIRE ALARM DEVICES IN THE AREA OF WORK ARE EXISTING TO BE 10. REMOVED UNLESS OTHERWISE NOTED. EXISTING EQUIPMENT DESIGNATED FOR REUSE SHALL BE CLEANED. |
| | 10. | PROVIDE LOCK-ON CIRCUIT BREAKERS FOR CIRCUITS SERVING EXIT SIGN FIXTURES AND EMERGENCY BATTERY PACK FIXTURES. | 11. REFURBISHED AND RESTORED TO OPTIMUM PERFORMANCE. THIS SHALL INCLUDE BUT NOT LIMITED TO CLEANING OF LIGHT FIXTURES, REPLACEMENT OF INOPERABLE BALLASTS AND LAMPS, RESISTANCE TESTING OF BRANCH CIRCUITRY AND FEEDERS. FTC. |
| | 11. | REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND OTHER CEILING INSTALLED ITEMS. | EXTEND EXISTING CIRCUITRY TO THOSE DEVICES THAT ARE TO BE 12. RELOCATED. MATCH EXISTING TYPE AND SIZE. RELOCATION OF EXISTING |
| | 12. | THE USE OF FLEXIBLE CONDUIT FROM LIGHTING FIXTURES TO JUNCTION BOX IS PERMITTED ONLY WHEN A SEPARATE GROUND WIRE IS INSTALLED WITH THE CONDUCTORS INSIDE FLEXIBLE CONDUIT. THE GROUND WIRE MUST BOND THE FIXTURE HOUSING TO THE JUNCTION BOX. MAXIMUM LENGTH 6'-0". | EQUIPMENT SHALL BE PERFORMED ONLY UPON OWNERS ACCEPTANCE OF EXISTING EQUIPMENT. EXTEND EXISTING CIRCUITS SERVING EQUIPMENT TO REMAIN FROM PANELS 13. THAT ARE TO BE REMOVED TO NEW PANELS OR EXISTING PANELS THAT ARE TO REMAIN. |
| | 13. | EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO THE INSTALLATION. | |
| | 14. | WALL MOUNTED EQUIPMENT (SWITCHES, RECEPTACLES, ETC.,) SHALL BE SURFACE MOUNTED IN UNFINISHED AREAS AND ON EXISTING CONCRETE BLOCK WALLS AND FLUSH MOUNTED IN NEW WALLS/PARTITIONS. | DISPOSAL OF MERCURY |
| | 15. | CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY APPROVED MEANS. SUPPORTS FOR HORIZONTAL RUNS OF CONDUIT SHALL NOT EXCEED SEVEN FEET ON CENTERS. | 1. ALL FLUORESCENT AND HID LAMPS WITHIN REMOVED LIGHT FIXTURES ARE CONSIDERED MERCURY CONTAINING AND SHALL BE TREATED AS HAZARDOUS |
| | 16. | PROVIDE PULL BOXES, JUNCTION BOXES, CONDUIT ELBOWS AND OFFSETS TO SUIT FIELD CONDITIONS AND THE NATIONAL ELECTRICAL CODE. | MATERIAL. 2. FLUORESCENT AND HID LAMPS SHALL BE REMOVED FROM DEMOLISHED LIGHT |
| | 17. | CONTRACTOR SHALL COORDINATE WITH THE FIRE DEPARTMENT AND F.A. VENDOR BEFORE PROCEEDING WITH WORK INVOLVING FIRE ALARM SYSTEM. | 3. LAMPS MUST BE BAGGED IN NON-LEACHING PLASTIC BAGS AND SEALED TO |
| | 18. 19 | ALL EMPTY CONDUIT SHALL BE PROVIDED WITH A DRAGWIRE. THE MINIMUM WIRE SIZE FOR 120 VOLT BRANCH CIRCUITS SHALL BE NO. 12 AWG. | PREVENT LEAKING. 4. EACH LAMP OR BAGGED CONTAINER IN WHICH THESE LAMPS ARE CONTAINED MUST BE LABELED OR MARKED CLEARLY WITH ONE OF THE FOLLOWING |
| | 20 | EXCEPT OVER 100' IN LENGTH SHALL BE NO. 10 AWG. | PHRASES; UNIVERSAL WASTE LAMPS, OR WASTE LAMPS, OR USED LAMPS 5. THESE MARKED BAGS MUST BE DELIVERED TO THE PROPER NEW YORK STATE |
| | 20. | BUSHINGS, CLAMPS, ETC.) TO FACILITATE COMPLETE INSTALLATION. | D.E.C. AUTHORIZED LANDFILL OR RECYCLE CENTERS. |
| | 21. | . THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE CONFIGURATION TYPE FOR ALL SPECIAL RECEPTACLES FOR COPIERS, DATA PROCESSING EQUIPMENT. ETC. WITH OWNER AND ENGINEER PRIOR TO ORDERING. | <u>BID PROJECTS</u> |
| | 22. | . COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC CONTRACTOR IN FIELD. FUSES FOR ALL MOTOR LOADS SHALL BE DUAL ELEMENT TIME DELAY TYPE. | PROJECT 1: ALL WORK NOT INCLUDED IN PROJECTS 2 & 4 LISTED BELOW. |
| | 23. | ALL RECEPTACLES SPECIFIED FOR PERSONAL COMPUTERS, LASER PRINTERS AND SIMILAR TYPES OF EQUIPMENT SHALL BE ISOLATED GROUND TYPE, ORANGE IN COLOR AND PROVIDED WITH A SEPARATE NEUTRAL AND GROUND CONDUCTOR. THIS IS TO COMPENSATE FOR HARMONIC CURRENTS. SHARED NEUTRAL CONDUCTORS FOR THESE HOMERUNS ARE NOT PERMITTED. | ALTERNATE 1A: GREY BOX COMPELETE RENOVATION. ALTERNATE 1B: MUSIC ROOMS RENOVATIONS. PROJECT 2: LIBRARY RENOVATION & SUPPORT SERVICES SUITE |
| | 24. | ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE. | ALTERNATE 2A: TELECOIL HEARING LOOP FOR LIBRARY. ALTERNATE 2B: KIVA TIERED SEATING FOR LIBRARY. ALTERNATE 2C: ACOUSTIC CEILING BAFFLES FOR LIBRARY. |
| | 25. | PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND ENGINEERING INFORMATION OBTAIN CLARIFICATION PRIOR TO PROCEEDING. | PROJECT 3: NOT USED PROJECT 4: WINDOW REPLACEMENT & GYM SKYLIGHT REPLACEMENT |
| | 26. | MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE. | AND ROOF REPLACEMENT. |
| | 27. | . ALL LIGHTING FIXTURES CONTROLLED BY DIMMER SWITCHES SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. | |
| | 28. | ALL EMERGENCY LIGHT FIXTURES DESIGNATED 'EM' SHALL BE SWITCHED ALL EMERGENCY AND EMERGENCY LIGHT FIXTURES SHALL REVERT TO BATTERY OPERATION UPON INTERRUPTION OF NORMAL POWER AND ILLUMINATE REGARDLESS OF LIGHT SWITCH POSITION. | |
| | 29. | WIRING FOR P.A. SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED MANUFACTURER'S REQUIREMENTS, WIRING INDICATED ON DRAWINGS IS FOR REFERENCE ONLY. WIRING FOR P.A. SYSTEM AND CLOCKS SHALL BE PLENUM RATED AND RUN EXPOSED ABOVE ACCESSIBLE CEILINGS. IT SHALL BE RUN IN EMT CONDUIT WHERE EXPOSED, EXCEPT FOR CORRIDORS, CLASSROOMS AND OFFICES IT SHALL BE RUN IN STEEL SURFACE RACEWAY (SIMILAR TO WIREMOLD V-500 AND/OR V-700). | |
| | 30. | PRIOR TO ANY CHASING, CHOPPING OR CORE DRILLING BEING PERFORMED, THE CONTRACTOR SHALL FIELD INVESTIGATE CONDITIONS AND COORDINATE ALL WORK TO ENSURE THAT IT WILL BE IN HARMONY AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING OWNER PRIOR TO PROCEEDING. | |
| | 31. | OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER #CP-25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL). | |
| | <i>32</i> . | ALL PANELBOARD COVERS SHALL BE INSTALLED IN PLACE AT THE COMPLETION OF EACH DAYS WORK. | |
| | 33. | PREPARE 'AS-BUILT' DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS. | |
| | 34. | LIGHT FIXTURES SHALL BE CONSTRUCTED TO SUIT PARTICULAR TYPE OF CEILING AND WALL CONSTRUCTION AND SHALL BE PROVIDED WITH APPROPRIATE TRIMS, MOUNTING FRAMES AND ADAPTERS AS REQUIRED. | |
| | 35. | ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL. | |
| BEFORE FABRICATION THIS CONTR VERIFY ALL MEASUREMENTS AND JOB AND COORDINATE HIS WORK | ACTOI COND WITH | R SHALL ITIONS ON THE WORK | |

OF ALL OTHER CONTRACTORS

RAL REMOVAL NOTES

POSAL OF MERCURY ONTAINING LAMPS

<u>POJECTS</u>

- IATE 1A: GREY BOX COMPELETE RENOVATION.
- ATE 1B: MUSIC ROOMS RENOVATIONS.
- ARY RENOVATION & SUPPORT SERVICES SUITE
- IATE 2A: TELECOIL HEARING LOOP FOR LIBRARY.
- IATE 2B: KIVA TIERED SEATING FOR LIBRARY.
- ATE 2C: ACOUSTIC CEILING BAFFLES FOR LIBRARY. USED

| ABBREVIATIONS | | | | |
|-----------------|---------------------------------|--|--|--|
| ABBV. | DESCRIPTION | | | |
| A | AMP/AMPERE | | | |
| AC | AIR CONDITIONING UNIT | | | |
| A.F.F. | ABOVE FINISHED FLOOR | | | |
| AHU | AIR HANDLING UNIT | | | |
| AWG | AMERICAN WIRE GAUGE | | | |
| С | CONDUIT | | | |
| С.В. | CIRCUIT BREAKER | | | |
| СН | CABINET HEATER | | | |
| CKT | CIRCUIT | | | |
| CU | CONDENSING UNIT | | | |
| СР | CONDENSATE PUMP | | | |
| (E) | EXISTING TO REMAIN | | | |
| <i>E.C.</i> | ELECTRICAL CONTRACTOR | | | |
| EF | EXHAUST FAN | | | |
| EM | EMERGENCY | | | |
| (ER) | EXISTING RELOCATED | | | |
| EXIST. | EXISTING | | | |
| FA | FIRE ALARM | | | |
| <i>F.A.C.P.</i> | FIRE ALARM CONTROL PANEL | | | |
| G,GRD | GROUND | | | |
| GFT LIWL | GROUND FAULT INTERRUPTER | | | |
| komil | HUI WAIER HEATER | | | |
| KCITIII | KILOVOLT AMPERE | | | |
| KW | KILOWATT | | | |
| LTG | | | | |
| MCB | MAIN CIRCUIT BREAKER | | | |
| MDP | MAIN DISTRIBUTION PANEL | | | |
| MIO | MAIN LUGS ONLY | | | |
| MTD | MOUNTED | | | |
| N | NEUTRAL | | | |
| NTS | NOT TO SCALE | | | |
| P.A. | PUBLIC ADDRESS | | | |
| PNL | PANEL | | | |
| (R) | REMOVE EXISTING | | | |
| (RN) | REPLACE EXISTING W/NEW | | | |
| (<i>RR</i>) | REMOVED, SALVAGED AND RELOCATED | | | |
| SP | SUBMERSED PUMP | | | |
| ΤV | TELEVISION | | | |
| TYP. | TYPICAL | | | |
| UH | UNIT HEATER | | | |
| W | WATT | | | |
| WP | WEATHERPROOF | | | |
| | | | | |

| | LEGEND | | LEGEND |
|-----------------------|--|--|--|
| A a EM | 2'x4' FLUORESCENT CEILING MOUNTED LIGHT FIXTURE. UPPER CASE LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE. 2'x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE FOR EMERGENCY OPERATION. 'EM' INDICATES SWITCHED EMERGENCY EXTURE 'EM (NI '-UNSWITCHED EMERGENCY (NICHT EXTURE (TYP)) | \bigtriangledown | FLUSH WALL MOUNTED DATA OUTLET CONSISTING OF A COVER PLATE WITH 1" GROMMETED OPENING AND 1" EMPTY CONDUIT WITH DRAG LINE STUBBED UP 6" ABOVE FINISHED CEILING. |
| | 2'x2' FLUORESCENT CEILING MOUNTED FIXTURE. CAPITAL LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE. | ▼ | FLUSH WALL MOUNTED TELEPHONE OUTLET CONSISTING OF A COVER PLATE WITH 1' GROMMETED OPENING AND 1" EMPTY CONDUIT WITH DRAG LINE STUBBED UP 6" ABOVE CEILING. |
| | 2'x2' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE FOR EMERGENCY OPERATION WITH INTEGRAL BATTERY BACK-UP, TEST BUTTON AND L.E.D. | | SURFACE MOUNTED NEW ELECTRICAL PANELBOARD. |
| | 1'x4' FLUORESCENT CEILING MOUNTED FIXTURE. CAPITAL LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE. | 240/3 | HEAVY DUTY TYPE DISCONNECT SWITCH WITH FINAL FLEXIBLE EQUIPMENT |
| | 1'x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE FOR EMERGENCY OPERATION WITH INTEGRAL BATTERY BACK-UP, TEST BUTTON AND L.E.D. | | AMPERE RATING, NF INDICATES NON-FUSED(OR FUSE SIZE) U.O.N. REFER TO SPECIFICATION AND DRAWINGS FOR ENCLOSURE. 'WP' WHERE USED INDICATES |
| <i>D</i> | 4' FLUORESCENT CEILING MOUNTED COMMERCIAL STRIPLITE. LETTER INDICATES TYPE. FIXTURE SCHEDULE DENOTES TYPE. | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | WEATHERPROOF ENCLOSURE (NEMA 3R). THERMAL SWITCH, CUTLER-HAMMER MS SERIES MANUAL STARTERS SINGLE-PHASE |
|)∕Q ^F | CEILING/WALL MOUNTED INCANDESCENT OR COMPACT FLUORESCENT FIXTURE. LETTER INDICATES TYPE. FIXTURE SCHEDULE DENOTES TYPE. | 9 ⁻ T | 20AMP, 120V U.O.N. WHERE INDICATED WITH 'WP' PROVIDE WATERTIGHT ENCLOSURE TYPE 3. |
| | CEILING/WALL MOUNTED EXIT LIGHT WITH OUTLET BOX, DIRECTIONAL ARROWS SHADED PORTION INDICATES ILLUMINATED FACE. SCHEDULE DENOTES TYPE. | S _{2T} | 208 VOLT, SINGLE PHASE 2 POLE, THERMAL OVERLOAD PROTECTED TOGGLE TYPE SWITCH. SIMILAR TO EATON #AH4361 + #AH27940G NEMA 1 ENCLOSURE. |
| | WALL MOUNTED EMERGENCY LIGHT FIXTURE WITH INTEGRAL BATTERY BACK-UP. FLUSH WALL MOUNTED LIGHTING CONTROL SWITCH CONTROLLING ZONE "a". 'K' WHERE USED | 7.57 | MOTOR (F.B.O. WIRED BY ELEC.) - NUMBER INDICATES HORSEPOWER. REFER TO PANEL SCHEDULES FOR WIRING AND OVER CURRENT PROTECTION. |
| Sa Sa | INDICATES KEY SWITCH. '3' INDICATES 3-WAY SWITCH; '4' INDICATES 4-WAY SWITCH. | Ē | WALL MOUNTED COMBINATION FIRE ALARM HORN/STROBE DEVICE. |
| s ⁴ | FLUSH WALL MOUNTED 4-WAY LIGHTING CONTROL SWITCH. | E S | CEILING MOUNTED IONIZATION TYPE SMOKE DETECTOR |
| VS | FLUSH WALL MOUNTED PIR VACANCY SENSOR LIGHTING CONTROL SWITCH, SIMILAR TO WATTSTOPPER CS—50. (MANUAL ON, AUTO OFF) | ©/© | CEILING OR WALL MOUNTED CARBON MONOXIDE DETECTOR SOUNDER BASE |
| R | EMERGENCY LIGHTING UL924 RELAY. PROVIDE WATTSTOPPER ELCU—200 MODULE FOR EMERGENCY LIGHT FUNCTION FOR INTERIOR LIGHTING AND WHEN INDICATED WITH LVS PROVIDE MODEL #EPC—D FOR EXTERIOR LIGHTING FIXTURES, | ©⁄© | CEILING OR WALL MOUNTED GAS LEAK DETECTOR DUCT MOUNTED PHOTOELECTRIC TYPE SMOKE DETECTOR WITH (REMOTE) CONTROL |
| Ð∕₽ | CEILING/WALL MOUNTED JUNCTION BOX. | ©∕D | MECHANICAL EQUIPMENT. ALSO PROVIDE LOAD RELAY AS REQUIRED IF EXISTING DISCONNECT/STARTERS DO NOT HAVE A SET OF DRY CONTACTS TO TIE-IN FOR FAN |
| | FLUSH FLOOR MOUNTED JUNCTION BOX | (H) | CEILING MOUNTED HEAT DETECTOR |
| 3 | HOMERUN TO DESIGNATED PANEL, ARROWHEAD INDICATES SINGLE POLE CIRCUIT. HOMERUN SHALL CONSIST OF 2#12–3/4"C U.O.N. | ST | WALL MOUNTED FIRE ALARM STROBE LIGHT. |
| 2,(4,6) | HOMERUN TO DESIGNATED PANEL, NUMBERS IN PARENTHESIS INDICATE MULTIPLE CIRCUIT, I.E. 3–HOTS AND 1–GROUND U.O.N. | FACP | FIRE ALARM CONTROL PANEL. |
| | EXISTING TO REMAIN | | INTERFACE MODULE CONSISTING OF CONTROL RELAY AND MONITOR MODULES. IN |
| <u>* - *</u> | EXISTING TO BE REMOVED | | DISCONNECT/STARTERS DO NOT HAVE A SET OF DRY CONTACTS TO TIE-IN FOR FAN SHUTDOWN. |
| Ф | 125V–2P–3W–20A GROUNDED TYPE, SPECIFICATION GRADE WALL MOUNTED TAMPER RESISTANCE DUPLEX RECEPTACLE SIMILAR TO HUBBELL #5362WTR. | LCP | LEHIGH SOLITAIRE STM MASTER LIGHTING CONTROL PANEL SOLITAIRE DIMMING SYSTEM MODEL #SDE-LCP AUXILIARY LCD LIGHTING CONTROL PANEL |
| ₽ | SAME AS ABOVE EXCEPT DOUBLE DUPLEX RECEPTACLE. | | SOLITAIRE IMPRESS ANALOG OCCUPANCY SENSOR |
| Φ | 30AMP-2P TWIST LOCK OUTLET | | SOLITAIRE IMPRESS MULTI I/O CONTROLLER |
| Q | 20A FLUSH WALL MOUNTED GROUND FAULT INTERRUPTING TYPE DUPLEX RECEPTACLE HUBBELL #GF5362. | GEN | GENERATOR ANNUNICATOR |
| ₽ ^F | QUAD RECEPTACLE SHOWN FOR COORDINATION PURPOSES ONLY. RECEPTACLE PROVIDED BY FURNITURE VENDOR. EC TO PROVIDE POWER TO THE ELECTRIFIED JUNCTION BOX AND MAKE CONNECTIONS TO THE RECEPTACLES. | CR © | CARD READER. CLOSED CIRCUIT TELEVISION CAMERA (CCTV). REMOVED STORED BY EC. INSTALLED |
| Φ | 125V–2P–3W–20A GROUNDED TYPE, SPECIFICATION GRADE WALL MOUNTED TAMPER RESISTANCE COMBINATION DUPLEX RECEPTACLE AND USB OUTLET. | СІ | HAND SET RECEIVER FOR CALL-IN FUNCTION. |
| \bullet | FLOOR MOUNTED LEGRAND EVOLUTION 8" SERIES POKE THRU DEVICE FLOOR MOUNTED COMBINATION POWER/DATA. FOUR 125V-1P-2W-20A QUAD RECEPTACLE AND THEN (1) DATA PORTS. PROVIDE BRUSHED ALUMINUM FINISH. LEGRAND MODEL #10ATCPAA. | VA | VOICE ATENNUATOR SURFACE MOUNTED MOUNTED P.A SPEAKER MATCH EXISTING. |
| OS | CEILING MOUNTED LOW VOLTAGE, DUAL TECHNOLOGY SENSOR, SIMILAR TO WATTSTOPPER MODEL# DT-300, MANUAL ON, AUTO OFF, WORK WITH LOCAL LOW VOLTAGE MOMENTARY CONTACT WALL SWITCH (LVSW-101). INCLUDE REQUIRED POWER PACKS. PROGRAM TO MAXIMUM SENSITIVITY | (5) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7 | CEILING MOUNTED P.A. SPEAKER MATCH EXISTING U.O.N. WALL MOUNTED COMBINATION CLOCK AND SPEAKER. 'S' WHERE USED INDICATES |
| OS ^H | AND TIME DELAY TO 20 MIN. CEILING MOUNTED LOW VOLTAGE ULTRASONIC SENSOR, SIMILAR TO WATTSTOPPER MODEL# WT—2255, WITH LONG CORRIDOR COVERAGE PATTERN, INCLUDE POWER PACKS AS REQUIRED. MANUAL ON AUTO OFF WORK WITH LOCAL KEY SWITCHES | F | ONE (1) GANG BOX MOUNTED AT 18" A.F.F UNLESS OTHERWISE NOTED. FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. CONDUIT SHALL BE STUBBED UP |
| RC3 | NETWORK DIGITAL DIMMABLE ROOM CONTROLLER FOR LIGHTING CONTROL. SIMILAR TO WATTSTOPPER MODEL LMRC-213. HOT WIRE TO LOAD, CAT 5 WIRE CONNECTIONS TO CONTROL DEVICES PC'4' DENOTES LMRC-21'4' WITH '4' OF JONES | ¥ | 6 BELOW THE TOP OF THE BAR JOIST. CONFIRM LOCATION AND MOUNTING HEIGHT WITH AV CONSULTANT BEFORE THE START OF ANY WORK. TWO (2) GANG BOX MOUNTED AT 48" A.F.F UNLESS OTHERWISE NOTED. FURNISHED |
| OS | NETWORK DIGITAL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, SIMILAR TO WATTSTOPPER MODEL LMDC-100. WORKS WITH DIGITAL ROOM CONTROLLER. PROGRAM TO MAXIMUM SENSITIVITY AND TIME DELAY TO 20 MIN | Ŷ | AND INSTALLED BY THE ELECTRICAL CONTRACTOR. CONDUIT SHALL BE STUBBED UP 6" BELOW THE TOP OF THE BAR JOIST. CONFIRM LOCATION AND MOUNTING HEIGHT WITH AV CONSULTANT BEFORE THE START OF ANY WORK |
| PC | NETWORK DIGITAL CEILING MOUNTED CLOSED LOOP, SINGLE ZONE PHOTO SENSOR. SIMILAR TO WATT STOPPER MODEL LMLS-400. WORKS WITH ROOM CONTROLLER. | FB | OUTLETS. BASIS OF DESIGN: FSR FLOOR OUTLET AND AV INPUTS; FOUR (4) POWER OUTLETS. BASIS OF DESIGN: FSR FL500P-4-B. BOX SHALL BE FURNISHED AND PROVIDED BY ELECTRICAL CONTRACTOR. CONFIRM LOCATION WITH AV CONSULTANT BEFORE THE MART OF ANY WORK. SWITCH TO CONTROL PROTECTOR SCREEN AND FIRE SHUTTER CONFIRM LOCATION |
| 3 WS2 | NETWORK DIGITAL FLUSH MOUNTED PRESET WALL STATIONS, SIMILAR TO WATTSTOPPER MODEL LMSW–102, WORKS WITH DIGITAL ROOM CONTROLLER. INCLUDES BUTTON ENGRAVING. WS'#' DENOTES LMSW–10'#' WITH '#' OF BUTTONS. SUPERSCRIPT '3' DENOTES 3 WAY SWITCH. | S _{R/L} | AND MOUNTING HEIGHT WITH AV CONSULTANT AND OWNER RESPECTIVELY BEFORE THE START OF ANY WORK. FLAT PANEL INTEGRATION SYSTEM. MANUFACTURER: RP VISUAL SOLUTIONS. MODEL |
| WD1 | NETWORK DIGITAL FLUSH MOUNTED PRESET SINGLE ZONE DIMMABLE WALL STATION, SIMILAR TO WATTSTOPPER MODEL LMSW-104, WORKS WITH DIGITAL ROOM CONTROLLER. INCLUDES BUTTON ENGRAVING AND PROGRAMMING PER ZONES: ON, RAISE, LOWER, OFF. SUPERSCRIPT '3' DENOTES 3 WAY SWITCH. | | #WALLMATE 32. PROVIDE (2) DUPLEX RECEPTACLES IN BOX. PROVIDE (1) HDMI CONNECTOR IN BOX. REFER TO AV DRAWINGS FOR MORE DETAILS. PROVIDE 1–1/4" CONDUIT STUB UP TO CEILING. |
| WD2 | NETWORK DIGITAL FLUSH MOUNTED PRESET TWO ZONE DIMMABLE WALL STATION, SIMILAR TO WATTSTOPPER MODEL LMSW—104, WORKS WITH DIGITAL ROOM CONTROLLER. INCLUDES BUTTON ENGRAVING AND PROGRAMMING PER ZONES: A, B, RAISE, LOWER. SUPERSCRIPT '3' DENOTES 3 | | FLUSH MOUNTED STANDARD DEVICE BOX WITH SCREW COVER. SINGLE GANG BOX 3-5/8" DEEP. MOUNTED AT 48" AFF. REFER TO AV DRAWINGS FOR MORE DETAILS. PROVIDE 1-1/4" CONDUIT STUB UP TO CEILING. |
| 3 | WAY SWITCH. | ΗÐ | JUNCTION BOX FOR ELECTRIFIED FURNITURE. COORDINATE WITH ARCHITECT BEFORE THE START OF ANY WORK. |
| WD3 | WATTSTOPPER MODEL LMSW-105, WORKS WITH DIGITAL ROOM CONTROLLER. INCLUDES BUTTON ENGRAVING AND PROGRAMMING PER ZONES: ON/RAISE, OFF/LOWER, A, B, C, PRES. SUPERSCRIPT '3' DENOTES 3 WAY SWITCH. | | CONNECTOR AND CONDULT PATHWAY FOR IV CEILING MOUNTED QUAD RECEPTACLE FOR PROJECTOR |
| s ^V | WALL RECESS MOUNTED LOW VOLTAGE DUAL TECHNOLOGY VACANCY SENSOR, SIMILAR TO WATTSTOPPER MODEL# DSW-301. MANUAL ON, AUTO OFF. PROGRAM TO MAXIMUM SENSITIVITY AND TIME DELAY TO 15 MIN. | | CEILING MOUNTED QUAD RECEPTACLE AND DATA FOR AUDIO VISUAL RACK |
| S ^M | FLUSH WALL MOUNTED LOW VOLTAGE MOMENTARY CONTACT SWITCH, SIMILAR TO WATTSTOPPER LVSW-101. WORK WITH CEILING SENSORS (DT-300) FOR MANUAL ON, AUTO OFF OPERATION. 'a' INDICATES CONTROL ZONE; '3' INDICATES 3-WAY SWITCH; '4' INDICATES 4-WAY SWITCH. | | SURFACE MOUNTED WIREMOLD V700 FOR EITHER RECEPTACLE OR COMMUNICATION WIRING. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION. |
| S ^D | FLUSH WALL MOUNTED LOW VOLTAGE DIMMER SWITCH, SIMILAR TO WATTSTOPPER LMDM WORK WITH CEILING SENSORS (DT–300) FOR MANUAL ON, AUTO OFF OPERATION. 'a' INDICATES CONTROL ZONE; '3' INDICATES 3–WAY SWITCH; '4' INDICATES 4–WAY SWITCH. | $\Phi \bigtriangledown$ | SURFACE MOUNTED WIREMOLD SERIES 4000 CONTAINING RECEPTACLE CIRCUITS AND COMMUNICATION WIRING. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION. |
| $\textcircled{0}{2}$ | WEATHERPROOF, EXTERIOR GRADE WALL MOUNTED OCCUPANCY SENSORS. | | TAG SYMBOL. NUMERAL DENOTES REFERENCE TO A WORK NOTE. |
| VFD | VARIABLE FREQUENCY DRIVE. FURNISHED BY MECHANICAL CONTRACTOR, WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR. THE CONDUIT AND WIRING FROM VFD TO MECHANICAL UNIT INTER CONNECTION SHALL MATCH THE SAME SIZE AND CONDUIT AND WIRE FROM VFD TO DESIGNATED PANELBOARD. REFER TO PANEL SCHEDULE OR NOTES FOR CONDUIT WIRE AND SIZE | * | MECHANICAL EQUIPMENT IDENTIFICATION: ———————————————————————————————————— |
| EPO | EMERGENCY POWER OFF KEY SWITCH/PUSH BUTTON | DET | TAIL/PART PLAN NUMBER IDENTIFICATION: ———————————————————————————————————— |



| <u>REMOVAL NOTES:</u> | |
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|-----------------------|--|

- 1. REMOVE AND REINSTALL SMOKE DETECTORS IN THE CORRIDORS WHERE CEILING IS BEING REPLACED. MAINTAIN THE EXISTING FIRE ALARM LOOP CONTINUITY FOR ALL EXISTING DEVICES REMAINING. COORDINATE WITH SCHOOL DISTRICT AND CONSTRUCTION MANAGER BEFORE THE START OF ANY WORK.
- 2. REMOVAL AND RELOCATING OF ALL SECURITY CAMERAS AND WIRELESS ACCESS POINTS SHALL BE DONE BY OWNER. COORDINATE WITH SCHOOL DISTRICT AND CONSTRUCTION MANAGER BEFORE THE START OF ANY WORK.

WORK NOTES:

DELECTRICAL CONTRACTOR SHALL REMOVE EXISTING LIGHT FIXTURES, PROTECT WITH BUBBLE WRAP, STORE, CLEAN DURING DEMOLITION WORK. ALL WIRING TO BE COILED UP AND SECURED. ONCE THE RENOVATION WORK IS COMPLETE RE-INSTALL AND RECONNECT ALL LIGHTING TO EXISTING WIRING. NEW CONTROLS TO BE PROVIDED FOR THESE LIGHTS. REFER TO DETAIL 5 ON E-702 FOR NEW LIGHTING CONTROL SYSTEM.

CORRIDOR CEILING WORK NOTES (READ CAREFULLY):

- 1. CORRIDOR CEILING SHALL BE REMOVED BY OTHER CONTRACTORS, THIS ELECTRICAL CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE TO RE-SUPPORT ALL LOW VOLTAGE WIRING AND MC LINE VOLTAGE CABLE LYING ON THE CEILING TILE, GRID AND NOT PROPERLY SUPPORTED WITH J-HOOKS BEFORE THE START OF THE CEILING REMOVAL. THIS CONTRACTOR SHOULD ANTICIPATE THAT THERE WILL BE APPROXIMATELY 2-20 CABLES ALONG THE WALL AGAINST THE CLASSROOMS ON BOTH SIDES OF THE CORRIDOR. THE CENTER OF THE CORRIDOR HAS APPROXIMATELY 30 TO 50 LOW VOLTAGE CABLES AND 5 TO 10 MC ARMORED LINE VOLTAGE CABLES. THE LOW VOLTAGE CABLE TYPE CONSISTS OF DATA, TELEPHONE, PA, FIRE ALARM, SECURITY, CAMERAS, AND MECHANICAL EQUIPMENT CONTROL WIRING.
- 2. ALL CEILING MOUNTED FIRE ALARM DEVICES (SMOKE DETECTORS, CARBON DETECTORS, ETC.) ANY SECURITY DEVICES (MOTION SENSORS, ETC. EXCLUDING CAMERAS) SHALL BE RE-SUPPORTED AND MAINTAINED DURING THE DURATION OF ABOVE CEILING WORK. ONCE NEW CEILING INSTALLATION WORK STARTS THIS CONTRACTOR SHALL REINSTALL AND REMOUNT ALL DEVICES IN NEW CEILING TILES IN A NEAT AND CLEAN MANNER. ALL CEILING MOUNTED CAMERAS AND WAP'S WILL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT TO REMOVE AND REINSTALL.
- 3. THE CORRIDOR CEILING SEQUENCE OF THE WORK SHALL BE COORDINATED WITH CONSTRUCTION MANAGER, SCHOOL DISTRICT AND OTHER CONTRACTORS BEFORE THE START OF ANY WORK.



| WORK NOTES: | |
|---|--|
| 1 NOT USED. | |
| 2 circuit new emergency lighting to existing emergency circuit. EC to confirm circuit in field. Provid $2#12+1#12G$ in $3/4$ "C from new lights to existing light fixtures. | DE |
| REFER TO LIGHTING CONTROL WIRING DIAGRAM ON DRAWING E-702 DETAIL 5 AND SPECIFICATION FOR MORE INFORMATION FOR M | DRMATION. ENCE ONLY. EW LIGHT |
| 5 CIRCUIT EXTERIOR LIGHTING FIXTURE TYPE "Z" TO INTERIOR NORMAL LIGHTING CIRCUIT. FIXTURE SHALL BE CONTR INTEGRAL PHOTOCELL AND OCCUPANCY SENSOR. INCLUDE SELF CONTAINED BATTERY PACKS TO OVERRIDE ALL CO EVENT OF EMERGENCY. | POLLED VIA INTROLS IN |
| PROVIDE NEW EXTERIOR EMERGENCY LIGHT FIXTURE 'Z1' AND CONNECT TO NEW EMERGENCY AND NORMAL LIGHT CONNECTED TO LVS RELAY SEE NOTE 7. FIXTURE SHALL BE CONTROLLED VIA NEW REMOTE PHOTOCELL AND OCCUPANCY SENSOR. REFER TO L 8/E2-701 FOR WIRING DIAGRAM. UPON INTERRUPTION OF NORMAL POWER ENTIRE LIGHT CIRCUIT FOR EXTERIOR SHALL ILLUMINATE REGARDLESS OF PHOTOCELL OR OCCUPANCY CONTROL POSITION OF OPERATION. | ING CIRCUIT DETAIL 1 LIGHT FIXTURE |
| PROVIDE UL924 RELAY SIMILAR TO LVS MODEL EPC-1-D-F TO OVERRIDE REMOTE PHOTOCELL AND OCCUPANCY EXTERIOR MOUNTED LIGHTING FIXTURE 'Z1.' CONNECT TO EMERGENCY AND NORMAL CIRCUIT SERVING THE AREA LOCAL SWITCHING. REFER TO DETAIL 8/E2-701 FOR ADDITIONAL INFORMATION. | SENSOR FOR AHEAD OF ANY |
| TA PROVIDE TORK 2001 SERIES PHOTOCELL SENSOR AND HUBBELL LIGHTOWL #LO-IRWVRP-LWO DISABLE OCCUPAN INCLUDE #UVPP POWER PACK MOUNTED ON THE BUILDING WALL TO OPERATE TYPE "Z1" EXTERIOR EMERGENCY L FIXTURE. | CY SENSOR. LIGHTING |
| \bigotimes circuit exit lights to the emergency lighting circuit in this area, ahead of any switching. | |
| | |
| LIGHTING CONTROL AND SEQUENCE OF OPERATION: | |
| 1. CLASSROOMS, MAKER SPACES, CONFERENCE ROOM AND LIBRARY ARE CONTROLLED VIA MANUAL ON DIMMABLE WALL OCCUPANCY SENSORS. EACH CLASSROOMS CONSISTS OF FULL DIMMING CAPABILITY OF THREE ZONES. WALL SWI OF 'A', 'B', 'C' 'OFF', 'RAISE', AND 'LOWER' BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FE SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. UL 924 EMERGENCY LIGHTING REA INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON 100% IN THE EVENT OF EMERGENCY. | L SWITCH AND TCHES CONSIST TATURE WHICH LAY ARE |
| 2. OFFICES AND SUPPORT SUITS ARE CONTROLLED VIA MANUAL ON DIMMABLE WALL SWITCH AND OCCUPANCY SENSOF OFFICE CONSISTS OF FULL DIMMING CAPABILITY. WALL SWITCHES CONSISTS OF 'ON', 'RAISE', 'LOWER', AND 'OFF' OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUT ROOM IS VACANT. UL 924 EMERGENCY LIGHTING RELAY ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGE IN THE EVENT OF EMERGENCY. | RS. EACH BUTTONS. THI ES WHEN THE NCY LIGHTS ON |
| 3. ALL RENOVATED LOBBY AREAS SHALL BE CONTROLLED VIA EXISTING LOCAL WALL SWITCHES. OVER LAPPED LONG F OCCUPANCY SENSORS (AUTO ON, AUTO OFF) IN EACH CORRIDOR WILL FUNCTION INDEPENDENTLY AS LOCAL ZONES | PANGE 5. |
| 4. EXTERIOR BUILDING MOUNTED LIGHTS (TYPE Z) ARE CONTROLLED VIA BUILT—IN PHOTOCELL AND STEP—DIM MOTION BUILT BATTERY BACKUP SHALL OVERRIDE ALL SENSORS (PHOTOCELL AND OCCUPANCY SENSOR) IN THE EVENT OI | SENSORS. IN E EMERGENCY |
| AT EGRESS DOORS AS SHOWN. 5. EXTERIOR BUILDING MOUNTED LIGHTS (TYPE Z1) ARE CONTROLLED VIA REMOTE PHOTOCELL AND STEP-DIM MOTION PROVIDE UL 924 EMERGENCY LIGHTING RELAY TO BYPASS ALL SENSORS (PHOTOCELL AND OCCUPANCY SENSOR, OF EMERGENCY AT EGRESS DOORS AS SHOWN. | SENSORS.) IN THE EVENT |
| <u>GENERAL NOTES:</u> | |
| 1. REFER TO DRAWING E2-001 FOR LEGEND AND LIGHTING CONTROL AND E2-601 FOR LIGHTING FIXTURE SCHEDUL | <u>E</u> . |
| 2. REFER TO DRAWING E2–600 SERIES FOR PANELBOARD SCHEDULES. 3. REFER TO DRAWING E2–701 FOR LIGHTING CONTROL WIRING DIAGRAMS AND DETAILS. | |
| 4. NORMAL SIDE SENSING LINE ON ALL EMERGENCY LIGHTING RELAY SHALL BE CIRCUITED TO THE NORMAL LIGHTING ROOM/AREA IT SERVES. | CIRCUIT IN THE |
| 5. FOR ALL AREAS CONTROLLED BY ROOM CONTROLLER "RC", ELECTRICAL CONTRACTOR IS TO CIRCUIT ROOM CONTRO EXTEND LINE VOLTAGE CIRCUITRY TO EACH OF THE LIGHT FIXTURES DEPENDING ON CONTROL ZONES. REFER TO | LLER, THEN ROOM |
| CONTROLLER WIRING DIAGRAM DETAILS ON DRAWING E703. 6. ALL EXIT LIGHTS SHALL BE CIRCUITED TO NORMAL LIGHTING CIRCUIT IN THE AREA, AHEAD OF ANY SWITCHING. | |
| 7. SET LIGHTING CONTROL SENSORS TO HIGHEST SENSITIVITY AVAILABLE PRIOR TO INSTALLATION. | |
| <u>SPECIAL NOTE:</u> THIS CONTRACTOR SHALL RECEIVE SIGN-OFF FROM AV CONSULTANT AND ARCHITECT BEFORE THE START OF ANYWORK OF THE EXACTION LOCATION OF ALL DEVICES, RECEPTACLES, JUNCTION BOXES, FLOOR BOXES, ETC SHALL BE MOUNTED WITHIN GREY BOX AND LIBRARY. IF ELECTRICAL CONTRACTOR DOES NOT RECEIVE WRITTEN CONFIRMATION IT WILL BE HIS RESPONSIBILITY TO RELOCATE ALL ITEMS AT NO ADDITIONAL COST TO OWNER. | |
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WORK NOTES:

- \bigcirc EMERGENCY CIRCUIT NUMBER FOR CONTRACTOR GUIDANCE ONLY. PROVIDE 2#12+1#12G IN 3/4" CONDUIT TO NEAR BY EMERGENCY LIGHTING CIRCUIT.
- 2 REFER TO LIGHTING CONTROL WIRING DIAGRAM ON DRAWING E-701 DETAIL 8/E-701 AND SPECIFICATION FOR MORE INFORMATION.
- \bigcirc COORDINATE LOCATION AND ELEVATION OF RECEPTACLE WITH AV CONSULTANT. BEFORE THE START OF ANY WORK.
- 4 JUNCTION BOX TO PROVIDE POWER FOR SPEAKER. COORDINATE EXACT LOCATION WITH AV CONSULTANT BEFORE THE START OF ANY WORK.
- 5 coordinate exact location of the projection screen control switch with the av consultant before the start of any work.
- 6 exact location of floor box shall coordinated with av consultant before the start of any work.

<u>SPECIAL NOTE:</u> THIS CONTRACTOR SHALL RECEIVE SIGN-OFF FROM AV CONSULTANT AND ARCHITECT BEFORE THE START OF ANYWORK OF THE EXACTION LOCATION OF ALL DEVICES, RECEPTACLES, JUNCTION BOXES, FLOOR BOXES, ETC SHALL BE MOUNTED WITHIN GREY BOX. IF ELECTRICAL CONTRACTOR DOES NOT RECEIVE WRITTEN CONFIRMATION IT WILL BE HIS RESPONSIBILITY TO RELOCATE ALL ITEMS AT NO ADDITIONAL COST TO OWNER.

| ZONE | | | | LUMINAIRE | | |
|------|-----------|-----|-----------------|---------------------------|-----|--|
| # | CIRCUIT # | AMP | LOCATION | TYPE | (VA | |
| 1 | PP-AUD-4 | 20 | AUD-HOUSE-MAIN | LED | 16 | |
| 2 | PP-AUD-4 | 20 | AUD-HOUSE-MAIN | LED-EMERGENCY-RELAY UL924 | 10 | |
| 3 | PP-AUD-6 | 20 | AUD-HOUSE-MAIN | LED | 11 | |
| 4 | PP-AUD-6 | 20 | AUD-HOUSE-MAIN | LED-EMERGENCY-RELAY UL924 | 40 | |
| 5 | PP-AUD-6 | 20 | AUD-HOUSE-MAIN | LED | 36 | |
| 6 | PP-AUD-4 | 20 | AUD-HOUSE-MAIN | LED | 36 | |
| 7 | PP-AUD-6 | 20 | AUD-HOUSE-MAIN | LED-EMERGENCY-RELAY UL924 | 18 | |
| 8 | PP-AUD-10 | 20 | AUD-HOUSE-BALC. | LED | 48 | |
| 9 | PP-AUD-10 | 20 | AUD-HOUSE-BALC. | LED | 90 | |
| 10 | PP-AUD-10 | 20 | AUD-HOUSE-BALC. | LED | 75 | |
| 11 | PP-AUD-10 | 20 | AUD-HOUSE-BALC. | LED-EMERGENCY-RELAY UL924 | 46 | |
| 12 | PP-AUD-16 | 20 | SPARE | SPARE | | |
| | TOTAL | | | | 3,0 | |







| ZONE | | | | LUMINAIRE | | |
|------|-----------|-----|----------------|---------------------------|--|--|
| # | CIRCUIT # | AMP | LOCATION | TYPE | | |
| 1 | PP-AUD-10 | 20 | GREY BOX-MAIN | LED | | |
| 2 | PP-AUD-10 | 20 | GREY BOX-MAIN | LED | | |
| 3 | PP-AUD-10 | 20 | GREY BOX-MAIN | LED-EMERGENCY-RELAY UL924 | | |
| 4 | PP-AUD-9 | 20 | GREY BOX-MAIN | LED-EMERGENCY-RELAY UL924 | | |
| 5 | PP-AUD-9 | 20 | GREY BOX-MAIN | LED | | |
| 6 | PP-AUD-9 | 20 | GREY BOX-MAIN | LED | | |
| 7 | PP-AUD-9 | 20 | GREY BOX-MAIN | LED | | |
| 8 | PP-AUD-9 | 20 | GREY BOX-MAIN | LED | | |
| 9 | PP-AUD-9 | 20 | GREY BOX-MAIN | LED | | |
| 10 | PP-AUD-5 | 20 | SPARE | SPARE | | |
| 11 | PP-AUD-10 | 20 | GREY BOX-STAGE | LED-EMERGENCY-RELAY UL924 | | |
| 12 | PP-AUD-16 | 20 | GREY BOX-MAIN | LED | | |
| 12 | PP-AUD-16 | 20 | GREY BOX-MAIN | LED | | |
| 12 | PP-AUD-16 | 20 | SPARE | SPARE | | |









| | Povision | Sabadula | |
|-------------------------------------|--|---|--|
| No. | Descr | iption | Date |
| 1 | SED Submis | sion | 09/15/2020 |
| 2 | SED Submis Addendum# | ssion 1 | 01/08/2021 |
| 3 | ISSUED FO | R BID DUM #1 | 01/19/2021 01/29/2021 |
| | Geo | $\frac{1}{1}$ | |
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| Transfo 259 Wa | orming Edu Water St rren , RI +1 401-2 | ucation by reet Suit 02885 U 289-2789 | Design e 1L ISA |
| ARILE CC 39 MAF 4.328.6060 | GALLAGH ONSULTINC BLE AVE PLE GENERAL@BGA- | GER & ASSO SENGINEE ASANTVILLE, N' ENG.com www.Bu | DCIATES RS ¥ 10570 GA-ENG.com |
| | <u>Constructic</u> SAVIN ENGI 3 Camp Pleasantville 914-76 | on Manager NEERS, P.C. us Drive e, NY 10570 9-3200 | |
| Ν | <u>Structural</u> ODEH EN 1223 Minera Iorth Provide 401-72 | Engineer GINEERS I Spring Ave nce, RI 0290 4-1771 | 4 |
| 1 | <u>Civil Er</u> WESTON & Winners Cir Albany, N 518-46 | ngineer SAMPSON cle, Suite 130 NY 12205 3-4400 |) |
| | Acoustic (DP DE 12 Cold Sp Provide 401-86 | Consultant ESIGN pring Street ence, RI 1-3218 | |
| | 6618-00 | 01-0003- | -025 |
| 555 Th Midla | Rye City leodore Frem and Elem | Schools nd Ave, Suite nentary S | B-101 chool |
| 312 | Midland Ave | e, Rye NY 105 | 580 |
| ROOF ALAR PROJ | F POWEI M PLAN ECT 1D | R AND F | IRE |
| EAL & SI | GNATURE | DATE: PROJECT N DRAWING E CHK BY: DWG No: E2-304 | 12/18/19 lo: 9200 3Y: BGA BGA |







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Rye City School District 555 Theodore Fremd Ave, Rye, NY 10580 Rye High School & Middle School 1 Parsons Street, Rye, New York 10580

| UNIFORM | SAFETY STANDARDS COMMISIONER'S REGULATIO | NS 155. | 5 DRAWINGS | | | | | |
|--|---|-------------------|---------------------------------|---|---|---|----------------------|---|
| 1. Statement: | | | Number | Name | | Current Description Date | Number | Name |
| "The occupied | portion of any school building shall always comply with the minimum | | T2-001 | TITLE SHEET - PHASE 2 | | | A2-603 | |
| requirements | necessary to maintain a certificate of occupancy." | | 12-001 | | | 4 BID ADDENDON 01/29/2021 #1 | A2-605 | INTERIOR GLAZING SCHEDULE |
| 2. Indication that | t all school areas to be disturbed during renovation or demolition have | een or | C2-001 C2-002 | EXISTING CONDITIONS AND DEMO SITE PLAN | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | A2-606 A2-700 | CURTAIN WALL AND ENTRANCE DOOR DETAILS |
| will be tested | for lead and asbestos. Note, the project folder should contain a letter re | garding | C2-003 | CONSTRUCTION DETAILS | | 3 ISSUED FOR BID 01/19/2021 | A2-701 | FIRST FLOOR FINISH PLAN |
| 3. Statement: | or asbestos. | | 4 C2-005 | MIDDLE SCHOOL ENTRANCE SITEPLAN | | 3 ISSUED FOR BID 01/19/2021 | A2-702 A2-703 | SECOND FLOOR FINISH PLAN THIRD FLOOR FINISH PLAN |
| "Conoral cafet | a and accurity standards for construction projects | | CIP 001 | CONSTRUCTION IMPLEMENTATION DI AN CENEDAL NOTES & MILEST | | 3 ISSUED FOR BID 01/19/2021 | A2-730 | WALL GRAPHICS AND GLAZING TYPES |
| General salet | y and security standards for construction projects. | | CIP-002 | CONSTRUCTION IMPLEMENTATION PLAN - SITE PLAN & FIRST FLOOR | PLAN | 3 ISSUED FOR BID 01/19/2021 | A2-800 A2-801 | CASEWORK - THIRD FLOOR - STUDENT LOCKERS CASEWORK - THIRD FLOOR STUDENT LOCKERS TYPE B |
| 1. All cons 2. Fences | truction materials shall be stored in a safe and secure manner. around construction supplies or debris shall be maintained. | | CIP-003 CIP-004 | CONSTRUCTION IMPLEMENTATION PLAN - SECOND PLAN & PARTIAL T CONSTRUCTION IMPLEMENTATION PLAN - STRUCTURAL PLAN & ARCH | THIRD FLOOR PLAN HITECTURE ROOF PLAN | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | A2-900 | FURNITURE SCHEDULE THIRD FLOOR |
| 3. Gates s | hall always be locked unless a worker is in attendance to prevent unaut | horized | CIP-005 | CONSTRUCTION IMPLEMENTATION PLAN - STRUCTURAL PLAN & MEC | HANICAL ROOF PLAN | 3 ISSUED FOR BID 01/19/2021 | A2-901 A2-902 | FURNITURE SCHEDULE THIRD FLOOR |
| entry. | | | CIP-006 X2-101 | CONSTRUCTION IMPLEMENTATION PLAN - BOILER PIPING & PARTIAL I FIRST FLOOR CODE COMPLIANCE PLAN | BASEMENT PLAN | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | A2-903 | FURNITURE SCHEDULE THIRD FLOOR |
| 4. During of sidewall | exterior renovation work, overhead protection shall be provided for any | nced off | X2-101 X2-102 | SECOND FLOOR CODE COMPLIANCE PLAN | | 3 ISSUED FOR BID 01/19/2021 | A2-904 A2-905 | FURNITURE SCHEDULE MS ILAB |
| and pro | vided with warning signs to prevent entry. | need on | X2-103 X2-120 | THIRD FLOOR CODE COMPLIANCE PLAN HIGH SCHOOL ENTRY and MS ILAB CODE COMPLIANCE PLAN | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | A2-906 | FURNITURE SCHEDULE MS ILAB |
| 5. Workers | s shall be required to wear photo-identification badges at all times for | | X2-121 | THIRD FLOOR LEARNING COMMUNITY CODE COMPLIANCE PLAN | | 3 ISSUED FOR BID 01/19/2021 | A2-910 | FIRST FLOOR FURNITURE PLAN |
| identific 4 Statement: | ation and security purposes while working at occupied sites." | | HSMS-ASB-101 HSMS-ASB-102 | FIRST FLOOR ASBESTOS ABATEMENT SECOND FLOOR ASBESTOS ABATEMENT | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | A2-911 A2-912 | SECOND FLOOR FURNITURE PLAN |
| . Statement. | | | HSMS-ASB-103 | THIRD FLOOR ASBESTOS ABATEMENT | | 3 ISSUED FOR BID 01/19/2021 | A2-920 | FURNITURE FLOOR PLAN - THIRD FLOOR LEARNING COMMUNITY & HS ENTRANCE |
| "Separation of the control of | construction areas from occupied spaces. Construction areas which are a contractor and therefore not occupied by district staff or students sha | under II be | HSMS-ASB-104 D2-101 | ROOF ASBESTOS ABATEMENT FIRST FLOOR DEMOLITION PLAN | | 3 ISSUED FOR BID 01/19/2021 4 BID ADDENDUM 01/29/2021 | A2-921 A2-922 | FURNITURE FLOOR PLAN - MS iLAB FURNITURE DETAIL - MS iLAB - TALL CABINET STORAGE WITH MOBILE CARTS A |
| separated from | n occupied areas. Provisions shall be made to prevent the passage of d | ust and | D2 102 | | | | A2-923 | FURNITURE DETAIL - MS ILAB - TALL CABINET STORAGE |
| contaminants | into occupied parts of the building. Periodic inspection and repairs of th | e | D2-102 | THIRD FLOOR DEMOLITION PLAN | | 3 ISSUED FOR BID 01/19/2021 | A2-924 A2-925 | FURNITURE DETAIL - MS ILAB - SINK BASE FURNITURE DETAIL - THIRD FLOOR WALL - STORAGE CUBBIES |
| containment b board must be | arriers must be made to prevent exposure to dust or contaminants. Gy a used in exit ways or other areas that require fire rated separation. He | psum avv dutv | D2-201 | EXTERIOR DEMOLITION ELEVATIONS | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | A2-926 | FURNITURE DETAIL - THIRD FLOOR - OPEN BOOTH SEATING |
| plastic sheetin | g may be used only for a vapor, fine dust or air infiltration barrier, and | shall | D2-202 | EXTERIOR DEMOLITION ELEVATIONS | | 3 ISSUED FOR BID 01/19/2021 | A2-927 A2-928 | FURNITURE DETAIL - THIRD FLOOR STORAGE CABINET FURNITURE DETAIL- CAVE SPACE |
| not be used to | separate occupied spaces from construction areas. | | A2-101 A2-102 | HIGH SCHOOL & MIDDLE SCHOOL FIRST FLOOR PLAN | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | S2-000 | GENERAL NOTES |
| 1. A specif | fic stairwell and/or elevator should be assigned for construction worker | use | A2-103 | HIGH SCHOOL & MIDDLE SCHOOL THIRD FLOOR PLAN | | 3 ISSUED FOR BID 01/19/2021 | S2-001 S2-002 | SCOPE OF WORK SCOPE OF WORK |
| during v | work hours. In general, workers may not use corridors, stairs or elevate | rs | A2-110 A2-111 | ROOF PLAN PARTIAL ROOF PLAN | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | S2-003 | SCOPE OF WORK |
| designa 2. Large a | ted for students or school staff. mounts of debris must be removed by using enclosed chutes or a simila | r sealed | A2-112 | ROOF DETAILS | | 3 ISSUED FOR BID 01/19/2021 | S2-100 S2-101 | OVERALL FIRST FLOOR PLAN OVERALL SECOND FLOOR PLAN |
| system. | . There shall be no movement of debris through halls of occupied space | s of the | A2-113 A2-114 | ROOF DETAILS ROOF DETAILS | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | S2-102 | OVERALL THIRD FLOOR PLAN |
| building | . No material shall be dropped or thrown outside the walls of the buildi | ng. | A2-115 | ROOF DETAILS | | 3 ISSUED FOR BID 01/19/2021 | S2-103 S2-110 | OVERALL ROOF PLAN MIDDLE SCHOOL ENTRANCE PLANS |
| 3. All occu close of | pied parts of the building affected by renovation activity shall be cleane each workday. School buildings occupied during a construction project | d at the shall | A2-201 A2-202 | EXTERIOR ELEVATIONS | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | S2-120 | ELEVATOR FRAMING PLANS |
| maintai | n required health, safety and educational capabilities at all times that c | asses | A2-203 | EXTERIOR ELEVATIONS | | 3 ISSUED FOR BID 01/19/2021 | S2-130 S2-140 | HIGH SCHOOL ENTRANCE PLANS ROOF FRAMING REINFORCEMENT PLANS |
| are in s | ession." | | A2-300 A2-301 | WALL TYPES MIDDLE SCHOOL ENTRANCE SECTIONS | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | S2-141 | ROOF FRAMING REINFORCEMENT PLAN |
| 4. A plan o | detailing how exiting required by the applicable building code will be | | A2-310 | MIDDLE SCHOOL WALL SECTIONS & DETAILS | | 3 ISSUED FOR BID 01/19/2021 | S2-200 S2-300 | TYPICAL FOUNDATION DETAILS TYPICAL MASONRY DETAILS |
| 5. A plan d | detailing how adequate ventilation will be maintained during construction | n. | A2-311 A2-312 | MIDDLE SCHOOL WALL SECTIONS | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | S2-301 | MASONRY DETAILS |
| - Chattana anta | | | A2-313 | STOREFRONT SYSTEM DETAILS | | 3 ISSUED FOR BID 01/19/2021 | S2-400 S2-401 | TYPICAL STEEL DETAILS TYPICAL STEEL DETAILS |
| 5. Statement: | | | A2-314 A2-315 | STOREFRONT SYSTEM & COLUMN DETAILS DETAILS AT CLERESTORY AND STAIR TOWER | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | H2-101 | HIGH SCHOOL & MIDDLE SCHOOL PART BASEMENT PART PLANS, LEGEND AND NOTES |
| "Construction a | and maintenance operations shall not produce noise in excess of 60 dba in | 2685 | A2-320 | THIRD FLOOR LEARNING COMMUNITY SECTION DETAILS | | 3 ISSUED FOR BID 01/19/2021 | H2-102 H2-103 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN |
| are not occupie | ed or acoustical abatement measures shall be taken." | aces | A2-321 A2-322 | THIRD FLOOR LEARNING COMMUNITY AND HS ENTRY DETAILS HIGH SCHOOL ENTRANCE DETAILS | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | H2-104 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN |
| 5. Statement: | | | A2-323 | MIDDLE SCHOOL SECURITY OFFICE CASEWORK | | 3 ISSUED FOR BID 01/19/2021 | H2-105 H2-106 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN |
| "The contractor | r shall be responsible for the control of chemical fumes, gases, and other | | A2-350 A2-351 | ELEVATOR DEMOLITION AND FLOOR PLANS ELEVATOR SECTIONS | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | H2-107 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN |
| contaminates p | produced by welding, gasoline or diesel engines, roofing, paving, painting, | etc. | A2-352 | ELEVATOR VESTIBULE REFLECTED CEILING PLAN & INTERIOR ELEVA | TIONS | 3 ISSUED FOR BID 01/19/2021 | H2-108 H2-109 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN |
| to ensure they | do not enter occupied portions of the building or air intakes." | | A2-400 A2-401 | CEILING FIXTURE AND MATERIAL LEGENDS FIRST FLOOR REFLECTED CEILING PLAN | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | H2-110 | HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR PLAN |
| 7. Statement: | | | A2-402 | SECOND FLOOR REFLECTED CEILING PLAN | | 3 ISSUED FOR BID 01/19/2021 | H2-201 H2-202 | HIGH SCHOOL & MIDDLE SCHOOL PART BASEMENT PLANS AND BOILER PIPING DIAGRAM HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN |
| "The contractor | r shall be responsible to ensure that activities and materials which result | n | A2-403 A2-501 | THIRD FLOOR REFLECTED CEILING PLAN MIDDLE SCHOOL ENTRANCE DEMOLITION PLAN. FLOOR PLAN. REFLE | CTED CEILING PLAN & FLOC | 3 ISSUED FOR BID 01/19/2021 DR 3 ISSUED FOR BID 01/19/2021 | H2-203 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN |
| "off-gassing" o | f volatile organic compounds such as glues, paints, furniture, carpeting, v | all | A2 E02 | FINISH PLAN | | | H2-204 H2-205 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN |
| covering, drape | ery, etc. are scheduled, cured or ventilated in accordance with manufactu | ers | A2-502 A2-503 | NEW STAFF OFFICES DEMOLITION PLAN AND FLOOR PLAN | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | H2-206 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN |
| recommendatio | ons before a space can be occupied." | | A2-504 | NEW STAFF OFFICES REFLECTED CEILING PLAN AND FLOOR FINISH F | | 3 ISSUED FOR BID 01/19/2021 | H2-207 H2-208 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR AND ATTIC PLAN |
| 3. Statement: | | | A2-505 A2-506 | ENLARGED FIRST FLOOR CLASSROOM DEMOLITION PLAN AND REFLECTED | R PLAN | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | H2-209 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN |
| "Large and sma | all asbestos abatement projects as defined by 12NYCRR56 shall not be | | A2-507 | ENLARGED SECOND FLOOR CLASSROOM DEMOLITION PLAN AND FLO | DOR PLAN | 3 ISSUED FOR BID 01/19/2021 | H2-210 H2-211 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN HIGH SCHOOL & MIDDLE SCHOOL THIRD FLOOR PLAN |
| "building", as r | eferenced in this section, means a wing or major section of a building that | t can | A2-500 | HIGH SCHOOL ENTRANCE PLANS | | 3 ISSUED FOR BID 01/19/2021 | H2-212 H2-301 | HIGH SCHOOL & MIDDLE SCHOL PART ROOF PLAN |
| be completely i | isolated from the rest of the building with sealed non combustible constru | ction. | A2-512 | HIGH SCHOOL ENTRANCE PLANS | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | H2-302 | HIGH SCHOOL & MIDDLE SCHOOL SCHEDULE |
| The isolated po | prtion of the building must contain exits that do not pass through the occu | pied | A2-515 | THIRD FLOOR LEARNING COMMUNITY DEMO DRAWINGS | | 3 ISSUED FOR BID 01/19/2021 | H2-401 H2-402 | HIGH SCHOOL & MIDDLE SCHOOL DETAILS HIGH SCHOOL & MIDDLE SCHOOL DETAILS |
| barrier. | initiation systems must be physically separated and sealed at the isolation | | A2-516 A2-517 | THIRD FLOOR LEARNING COMMUNITY FLOOR PLAN | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | H2-403 | HIGH SCHOOL & MIDDLE SCHOOL DETAILS |
| Exterior work s | such as roofing, flashing, siding, or soffit work may be performed on occu | pied | A2-518 | THIRD FLOOR LEARNING COMMUNITY REFLECTED CEILING PLAN | | 3 ISSUED FOR BID 01/19/2021 | P2-101 P2-201 | HIGH SCHOOL & MIDDLE SCHOOL LEGEND, SCHEDULE, NOTES, FIRST AND SECOND FLOC HIGH SCHOOL & MIDDLE SCHOOL PART BASEMENT FLOOR PLAN, ROOF PLAN, AND DETAIL |
| buildings provi | ded proper variances are in place as required, and complete isolation of | | A2-519 A2-520 | THIRD FLOOR LEARNING COMMUNITY FINISH PLAN THIRD FLOOR LEARNING COMMUNITY INTERIOR FLEVATIONS | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | P2-202 | HIGH SCHOOL & MIDDLE SCHOOL FIRST, SECOND & THIRD FLOOR PLANS |
| ventilation syst | tems and at windows is provided. Care must be taken to schedule work so | that | A2-521 | THIRD FLOOR LEARNING COMMUNITY INTERIOR ELEVATIONS | | 3 ISSUED FOR BID 01/19/2021 | P2-203 P2-204 | HIGH SCHOOL & MIDDLE SCHOOL FIRST FLOOT PART PLAN HIGH SCHOOL & MIDDLE SCHOOL FIRSTAND SECOND FLOOR PLANS |
| classes are not | distributed by horse of visual distraction. | | A2-522 A2-523 | MS I-LAB DEMO PLAN AND FLOOR PLAN MS I-LAB POWER AND TECHNOLOGY PLAN | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | E2-001 | LEGENDS ABBREVIATIONS AND NOTES |
| Surfaces that v presence of lear | vill be disturbed by reconstruction must have a determination made as to d. Projects which disturb surfaces that contain lead shall have in the | the | A2-524 | MS i-LAB REFLECTED CEILING PLAN | | 3 ISSUED FOR BID 01/19/2021 | E2-101 E2-102 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN |
| specifications a | a plan prepared by a certified Lead Risk Assessor or Supervisor which deta | ils | A2-525 A2-526 | MS i-LAB FINISH PLANS MS i-LAB INTERIOR ELEVATIONS | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | E2-103 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN |
| provisions for o | occupant protection, worksite preparation, work methods, cleaning and | | A2-531 | ENLARGED TOILET PLANS, ELEVATIONS & FINISHES | | 3 ISSUED FOR BID 01/19/2021 | E2-104 E2-105 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR REMOVAL PLAN |
| clearance testi | ng which are in general accordance with the HUD Guidelines. | | A2-532 A2-533 | ENLARGED TOILET PLANS, ELEVATIONS & FINISHES ENLARGED TOILET PLANS, ELEVATIONS & FINISHES | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | E2-106 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR REMOVAL PLAN |
| | | | A2-534 | ENLARGED TOILET PLANS, ELEVATIONS & FINISHES | | 3 ISSUED FOR BID 01/19/2021 | E2-107 E2-108 | HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR REMOVAL PLAN HIGH SCHOOL & MIDDLE SCHOOL EXTERIOR REMOVAL PLAN |
| | | | A2-535 A2-601 | ENLARGED TOILET PLANS, ELEVATIONS & FINISHES DOOR SCHEDULE | | 3 ISSUED FOR BID 01/19/2021 3 ISSUED FOR BID 01/19/2021 | E2-201 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR LIGHTING PLAN |
| | | | A2-602 | DOOR TYPES | | 3 ISSUED FOR BID 01/19/2021 | E2-202 E2-203 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR LIGHTING FLAN HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR LIGHTING FLAN |
| | | | | | | | E2-204 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR LIGHTING PLAN |
| TYPICAL A | ARCHITECTURAL ABBREVIATIONS | | | LEGEND | | | E2-205 E2-206 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR LIGHTING FLAN HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR LIGHTING FLAN |
| ۸ ۲ | | Ν | | | | | E2-207 E2-301 | HIGH SCHOOL & MIDDLE SCHOOL EXTERIOR EMERGENCY LIGHTING PLAN |
| AFF | ABOVE FINISH FLOOR MIN | N | | | 00 | | E2-302 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER & FIRE ALARM PLAN |
| ALUM B/W | BETWEEN N/A | N | | SQ. FT | 00 A-1.1 00 | EXTERIOR ELEVATION TAG | E2-303 E2-304 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER & FIRE ALARM PLAN HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER & FIRE ALARM PLAN |
| CLG CMT | CEILING NO CERAMIC MOSAIC TILE NOM | ר ר | NUMBER NOMINAL | | 00 | - | E2-305 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR POWER & FIRE ALARM PLAN |
| CONT CJ | CONTINUOUS NTS CONTROL JOINT NIC | N N | NOT TO SCALE NOT IN CONTRACT | DOOR TAG | ∽ 00 | | E2-306 E2-307 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR POWER & FIRE ALARM PLAN HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR POWER & FIRE ALARM PLAN |
| DR ELFV | DOOR OC ELEVATION OL | ((| ON CENTER OVERHEAD | | | INTERIOR ELEVATION TAG | E2-308 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR POWER & FIRE ALARM PLAN |
| ETR EW/ | EXISTING TO REMAIN PLAM | F | PLASTIC LAMINATE | UINDOW TYPE | 00 (A-1.1) 00 | - | E2-309 E2-310 | HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR & BASEMENT POWER AND FA PLAN HIGH SCHOOL & MIDDLE SCHOOL ROOF POWER AND FA PLAN |
| EWC | ELECTRIC WATER COOLER PREFA | .B F | PREFABRICATED | \sim | | | E2-311 | HIGH SCHOOL & MIDDLE SCHOOL ELECTRICAL CONDUIT ROUTING |
| EQ EXIST | EQUAL PT EXISTING PTD | F | -KESSURE IREATED PAINTED | (1A) WALL TYPE | | | E2-312 E2-501 | HIGH SCHOOL & MIDDLE SCHOOL EXTERIOR PLAN HIGH SCHOOL & MIDDLE SCHOOL PART ELECTRICAL RISER |
| FIN FACP | FINISH QTY FIRE ALARM CONTROL PANEL REIN | C F | QUANTITY REINFORCED | \checkmark | (A-1,1) | CALL OUT SYMBOL | E2-502 | HIGH SCHOOL & MIDDLE SCHOOL FIRE ALARM AND PA RISER |
| FE FEC | FIRE EXTINGUISHER SS FIRE EXTINGUISHER CABINET THK | S T | STAINLESS STEEL THICK | 1A SPECIALITY EQUIPMENT | | | E2-601 E2-602 | HIGH SCHOOL & MIDDLE SCHOOL ELECTRICAL SCHEDULES |
| FD GALV | FLOOR DRAIN THR GALVANIZED T&P | י. ד ד | THRESHOLD | | | SECTION SYMBOL | E2-701 | ELECTRICAL DETAILS |
| GC | GENERAL CONTRACTOR TYP | י ד י | | | | | E2-702 AVE2-001 | AUDIOVISUAL KEYS, NOTES AND SCHEDULES |
| HC | HANDICAPPED VCT | ر ۱ ۱ | VINYL COMPOSITION TILE | | A-1.1 | | AVE2-101 | AUDIOVISUAL PLAN - THIRD FLOOR AUDIOVISUAL PLAN - ILAB |
| HORIZ | HORIZONTAL VERT | V V | WATER CLOSET | | | LEVEL TAG | AVE2-102 | AUDIOVISUAL RCP - THIRD FLOOR |
| ISA LAV | IN I ERNA I IONAL SYMBOL OF ACCESSIBILITY WD LAVATORY WWF | V V | WOOD WELDED WIRE FABRIC | | | | AVE2-112 AVE2-201 | AUDIOVISUAL RCP - ILAB HEARING LOOP SYSTEM LOOP WIRF LAYOUTS AND DIAGRAMS - ILAB |
| ΜΔΧ | | 14 | NITH | | | | | |

| | | | | abor | Name | | Current | Description | Date | Number | Name |
|--|---|--|--|------------------------|---|-------------------------|----------|--------------------|--------------------------|----------------------|--|
| 1. Statement: | | | INUI | IDEI | INAITIE | | Revision | Description | Dale | Number | Name |
| "The occupied po | ortion of any school building shall always comply with the m cessary to maintain a certificate of occupancy." | ninimum | T2-00 |)1 | TITLE SHEET - PHASE 2 | | 4 | BID ADDENDUM #1 | 01/29/2021 | A2-603 | |
| 2 Indiantine that | | No. I have been a | C2-00 | 01 | EXISTING CONDITIONS AND DEMO | | 3 | ISSUED FOR BID | 01/19/2021 | A2-605 A2-606 | CURTAIN WALL AND ENTRANCE DOOR DETAILS |
| Indication that a will be tested for | Il school areas to be disturbed during renovation or demolit lead and asbestos. Note, the project folder should contain | ition have been or a letter regarding | C2-00 |)2)3 | SITE PLAN CONSTRUCTION DETAILS | | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | A2-700 | FINISH SCHEDULE & LEGEND |
| the presence of a | asbestos. | | | 04 | CONSTRUCTION DETAILS | | 3 | ISSUED FOR BID | 01/19/2021 | A2-702 | SECOND FLOOR FINISH PLAN |
| 3. Statement: | | | <u>_4</u> <u>C2-10</u> | 05 00 | EXISTING SURVEY | | 3 | ISSUED FOR BID | 01/19/2021 | A2-703 A2-730 | THIRD FLOOR FINISH PLAN WALL GRAPHICS AND GLAZING TYPES |
| "General safety a | and security standards for construction projects. | | CIP-0 | 001 | CONSTRUCTION IMPLEMENTATION PLAN - GENERAL NOTES & MILESTON | IE SCHEDULES | 3 | ISSUED FOR BID | 01/19/2021 | A2-800 | CASEWORK - THIRD FLOOR - STUDENT LOCKERS |
| 1. All constru | iction materials shall be stored in a safe and secure manne | er. | CIP-U CIP-0 |)02)03 | CONSTRUCTION IMPLEMENTATION PLAN - SITE PLAN & FIRST FLOOR PL CONSTRUCTION IMPLEMENTATION PLAN - SECOND PLAN & PARTIAL THI | AN RD FLOOR PLAN | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | A2-801 A2-900 | CASEWORK - THIRD FLOOR STUDENT LOCKERS TYPE B FURNITURE SCHEDULE THIRD FLOOR |
| 2. Fences are | ound construction supplies or debris shall be maintained. | | CIP-0 | 04 | CONSTRUCTION IMPLEMENTATION PLAN - STRUCTURAL PLAN & ARCHIT | ECTURE ROOF PLAN | 3 | ISSUED FOR BID | 01/19/2021 | A2-901 | FURNITURE SCHEDULE THIRD FLOOR |
| 3. Gates sha | II always be locked unless a worker is in attendance to prev | vent unauthorized | CIP-C |)05)06 | CONSTRUCTION IMPLEMENTATION PLAN - STRUCTURAL PLAN & MECHA CONSTRUCTION IMPLEMENTATION PLAN - BOILER PIPING & PARTIAL BAS | SEMENT PLAN | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | A2-902 A2-903 | FURNITURE SCHEDULE THIRD FLOOR FURNITURE SCHEDULE THIRD FLOOR |
| 4. During ext | erior renovation work, overhead protection shall be provide | led for any | X2-10 | 01 | FIRST FLOOR CODE COMPLIANCE PLAN | | 3 | ISSUED FOR BID | 01/19/2021 | A2-904 | FURNITURE SCHEDULE MS ILAB |
| sidewalks | or areas immediately beneath the work site or such areas | shall be fenced off | X2-10 X2-10 |)2)3 | THIRD FLOOR CODE COMPLIANCE PLAN | | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | A2-905 A2-906 | FURNITURE SCHEDULE MS ILAB FURNITURE SCHEDULE MS ILAB |
| and provid | led with warning signs to prevent entry. | times for | X2-12 | 20 | | | 3 | ISSUED FOR BID | 01/19/2021 | A2-907 | FURNITURE SCHEDULE HS ENTRY |
| identificat | on and security purposes while working at occupied sites." | " | HSM | S-ASB-101 | FIRST FLOOR ASBESTOS ABATEMENT | | 3 3 | ISSUED FOR BID | 01/19/2021 | A2-910 A2-911 | FIRST FLOOR FURNITURE PLAN SECOND FLOOR FURNITURE PLAN |
| 4. Statement: | | | HSM: | S-ASB-102 | SECOND FLOOR ASBESTOS ABATEMENT | | 3 | ISSUED FOR BID | 01/19/2021 | A2-912 | |
| "Separation of co | onstruction areas from occupied spaces. Construction areas | s which are under | HSM | S-ASB-103 S-ASB-104 | ROOF ASBESTOS ABATEMENT | | 3 | ISSUED FOR BID | 01/19/2021 | A2-920 A2-921 | FURNITURE FLOOR PLAN - THIRD FLOOR LEARNING COMMUNITY & HS ENTRAN FURNITURE FLOOR PLAN - MS ILAB |
| the control of a d | contractor and therefore not occupied by district staff or stu | udents shall be | D2-10 | 01 | FIRST FLOOR DEMOLITION PLAN | | 4 | BID ADDENDUM #1 | 01/29/2021 | A2-922 | FURNITURE DETAIL - MS ILAB - TALL CABINET STORAGE WITH MOBILE CARTS A |
| contaminants int | occupied areas. Provisions shall be made to prevent the pas o occupied parts of the building. Periodic inspection and re | ssage of dust and | D2-10 | 02 | SECOND FLOOR DEMOLITION PLAN | | 3 | ISSUED FOR BID | 01/19/2021 | A2-923 A2-924 | FURNITURE DETAIL - MS ILAB - TALL CABINET STORAGE FURNITURE DETAIL - MS ILAB - SINK BASE |
| containment bar | riers must be made to prevent exposure to dust or contami | inants. Gypsum | D2-1(D2-2(| D3 D1 | THIRD FLOOR DEMOLITION PLAN EXTERIOR DEMOLITION ELEVATIONS | | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | A2-925 | FURNITURE DETAIL - THIRD FLOOR WALL - STORAGE CUBBIES |
| board must be u | sed in exit ways or other areas that require fire rated separ | ration. Heavy duty | D2-20 | 02 | EXTERIOR DEMOLITION ELEVATIONS | | 3 | ISSUED FOR BID | 01/19/2021 | A2-926 A2-927 | FURNITURE DETAIL - THIRD FLOOR - OPEN BOOTH SEATING FURNITURE DETAIL - THIRD FLOOR STORAGE CABINET |
| plastic sheeting | may be used only for a vapor, fine dust or air infiltration ba | arrier, and shall | D2-20 A2-10 | D3 D1 | EXTERIOR DEMOLITION ELEVATIONS HIGH SCHOOL & MIDDLE SCHOOL FIRST FLOOR PLAN | | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | A2-928 | FURNITURE DETAIL- CAVE SPACE |
| not be used to st | | | A2-10 |)2 | HIGH SCHOOL & MIDDLE SCHOOL SECOND FLOOR PLAN | | 3 | ISSUED FOR BID | 01/19/2021 | S2-000 S2-001 | SCOPE OF WORK |
| 1. A specific during wo | stairwell and/or elevator should be assigned for construction rk hours. In general, workers may not use corridors, stairs. | on worker use | A2-10 A2-1 |)3 10 | HIGH SCHOOL & MIDDLE SCHOOL THIRD FLOOR PLAN ROOF PLAN | | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | S2-002 | SCOPE OF WORK |
| designate | d for students or school staff. | | A2-1 | 11 | PARTIAL ROOF PLAN | | 3 | ISSUED FOR BID | 01/19/2021 | S2-003 S2-100 | OVERALL FIRST FLOOR PLAN |
| 2. Large amo | ounts of debris must be removed by using enclosed chutes | or a similar sealed | A2-1 A2-1 | 12 13 | ROOF DETAILS ROOF DETAILS | | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | S2-101 | OVERALL SECOND FLOOR PLAN |
| system. T | here shall be no movement of debris through halls of occup to material shall be dropped or thrown outside the walls of | pied spaces of the | A2-1 | 14 | ROOF DETAILS | | 3 | ISSUED FOR BID | 01/19/2021 | S2-102 S2-103 | OVERALL THIRD FLOOR FLAN OVERALL ROOF PLAN |
| 3. All occupie | ed parts of the building affected by renovation activity shall | I be cleaned at the | A2-1 A2-20 | 15 D1 | ROOF DETAILS EXTERIOR ELEVATIONS | | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | S2-110 | MIDDLE SCHOOL ENTRANCE PLANS |
| close of ea | ach workday. School buildings occupied during a construction | ion project shall | A2-20 | 02 | EXTERIOR ELEVATIONS | | 3 | ISSUED FOR BID | 01/19/2021 | S2-120 S2-130 | ELEVATOR FRAMING PLANS HIGH SCHOOL ENTRANCE PLANS |
| maintain r | equired health, safety and educational capabilities at all tin | mes that classes | A2-20 A2-30 |)3)0 | EXTERIOR ELEVATIONS WALL TYPES | | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | S2-140 | ROOF FRAMING REINFORCEMENT PLANS |
| 4. A plan det | ailing how exiting required by the applicable building code | will be | A2-30 | 01 | MIDDLE SCHOOL ENTRANCE SECTIONS | | 3 | ISSUED FOR BID | 01/19/2021 | S2-141 S2-200 | TYPICAL FOUNDATION DETAILS |
| maintaine | d. | | A2-3 ⁻ A2-3 ⁻ | 10 11 | MIDDLE SCHOOL WALL SECTIONS & DETAILS MIDDLE SCHOOL WALL SECTIONS | | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | S2-300 | TYPICAL MASONRY DETAILS |
| 5. A plan det | ailing how adequate ventilation will be maintained during c | construction. | A2-3 | 12 | MIDDLE SCHOOL WALL SECTIONS | | 3 | ISSUED FOR BID | 01/19/2021 | S2-301 S2-400 | TYPICAL STEEL DETAILS |
| 5. Statement: | | | A2-3 ⁻ A2-3 ⁻ | 13 14 | STOREFRONT SYSTEM DETAILS STOREFRONT SYSTEM & COLUMN DETAILS | | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | S2-401 | TYPICAL STEEL DETAILS |
| "Construction and | maintenance operations shall not produce noise in excess o | of 60 dba in | A2-3 | 15 | DETAILS AT CLERESTORY AND STAIR TOWER | | 3 | ISSUED FOR BID | 01/19/2021 | H2-101 H2-102 | HIGH SCHOOL & MIDDLE SCHOOL PART BASEMENT PART PLANS, LEGEND AND HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN |
| occupied spaces of | or shall be scheduled for times when the building or affected | building spaces | A2-32 A2-32 | 20 21 | THIRD FLOOR LEARNING COMMUNITY SECTION DETAILS THIRD FLOOR LEARNING COMMUNITY AND HS ENTRY DETAILS | | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | H2-103 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN |
| are not occupied | or acoustical abatement measures shall be taken." | | A2-32 | 22 | HIGH SCHOOL ENTRANCE DETAILS | | 3 | ISSUED FOR BID | 01/19/2021 | H2-104 H2-105 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN |
| 6. Statement: | | | A2-32 A2-35 | 23 50 | MIDDLE SCHOOL SECURITY OFFICE CASEWORK ELEVATOR DEMOLITION AND FLOOR PLANS | | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | H2-106 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN |
| "The contractor s | hall be responsible for the control of chemical fumes, gases, | and other | A2-35 | 51 | ELEVATOR SECTIONS | | 3 | ISSUED FOR BID | 01/19/2021 | H2-107 H2-108 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN |
| contaminates pro | duced by welding, gasoline or diesel engines, roofing, paving | g, painting, etc. | A2-35 A2-40 | 52 00 | ELEVATOR VESTIBULE REFLECTED CEILING PLAN & INTERIOR ELEVATIO CEILING FIXTURE AND MATERIAL LEGENDS | NS | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | H2-109 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN |
| to ensure they do | not enter occupied portions of the building or air intakes." | | A2-40 | 01 | FIRST FLOOR REFLECTED CEILING PLAN | | 3 | ISSUED FOR BID | 01/19/2021 | H2-110 H2-201 | HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR PLAN HIGH SCHOOL & MIDDLE SCHOOL PART BASEMENT PLANS AND BOILER PIPING |
| 7. Statement: | | | A2-40 A2-40 |)2)3 | SECOND FLOOR REFLECTED CEILING PLAN THIRD FLOOR REFLECTED CEILING PLAN | | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | H2-202 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN |
| "The contractor s | hall be responsible to ensure that activities and materials whi | nich result in | A2-50 | 01 | MIDDLE SCHOOL ENTRANCE DEMOLITION PLAN, FLOOR PLAN, REFLECT | ED CEILING PLAN & FLOOR | 3 | ISSUED FOR BID | 01/19/2021 | H2-203 H2-204 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN |
| "off-gassing" of v | olatile organic compounds such as glues, paints, furniture, ca | arpeting, wall | A2-50 | 02 | MIDDLE SCHOOL ENTRANCE INTERIOR ELEVATIONS | | 3 | ISSUED FOR BID | 01/19/2021 | H2-205 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN |
| recommendations | before a space can be occupied." | manufacturers | A2-50 | 03 | NEW STAFF OFFICES DEMOLITION PLAN AND FLOOR PLAN | N | 3 | ISSUED FOR BID | 01/19/2021 | H2-206 H2-207 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR PLAN HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN |
| 8. Statement: | | | A2-50 A2-50 |)4)5 | MIDDLE SCHOOL OFFICE SUITE DEMOLITION PLAN AND REFLECTED CEI | IN LING PLAN | 3 3 | ISSUED FOR BID | 01/19/2021 | H2-208 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR AND ATTIC PLAN |
| U avec and avec | | In the second second | A2-50 | 06 | ENLARGED FIRST FLOOR CLASSROOM DEMOLITION PLAN AND FLOOR P | | 3 | ISSUED FOR BID | 01/19/2021 | H2-209 H2-210 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR PLAN |
| performed while t | the building is occupied". Note, It is our interpretation that th | he term | A2-50 A2-50 |)8 | LOUVER AND VENTILATION PLACEMENT ELEVATIONS | (PLAN | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | H2-211 | HIGH SCHOOL & MIDDLE SCHOOL THIRD FLOOR PLAN |
| "building", as refe | renced in this section, means a wing or major section of a be | ouilding that can | A2-51 | 11 | HIGH SCHOOL ENTRANCE PLANS | | 3 | ISSUED FOR BID | 01/19/2021 | H2-301 | HIGH SCHOOL & MIDDLE SCHOOL SCHEDULE |
| be completely iso | lated from the rest of the building with sealed non combustib | ble construction. | A2-5 A2-5 | 12 | HIGH SCHOOL ENTRANCE ELEVATION | | 3 | ISSUED FOR BID | 01/19/2021 | H2-302 H2-401 | HIGH SCHOOL & MIDDLE SCHOOL SCHEDULE |
| portion and ventil | ation systems must be physically separated and sealed at the | ne isolation | A2-5 | 15 | THIRD FLOOR LEARNING COMMUNITY DEMO DRAWINGS | | 3 | ISSUED FOR BID | 01/19/2021 | H2-401 | HIGH SCHOOL & MIDDLE SCHOOL DETAILS |
| barrier. | | | A2-5 A2-5 | 17 | THIRD FLOOR LEARNING COMMUNITY PLOOR PLAN THIRD FLOOR LEARNING COMMUNITY POWER AND TECHNOLOGY PLAN | | 3 | ISSUED FOR BID | 01/19/2021 | H2-403 B2 101 | HIGH SCHOOL & MIDDLE SCHOOL DETAILS |
| Exterior work suc | h as roofing, flashing, siding, or soffit work may be performe | ed on occupied | A2-51 | 18 | THIRD FLOOR LEARNING COMMUNITY REFLECTED CEILING PLAN | | 3 | ISSUED FOR BID | 01/19/2021 | P2-201 | HIGH SCHOOL & MIDDLE SCHOOL PART BASEMENT FLOOR PLAN, ROOF PLAN |
| buildings provide | d proper variances are in place as required, and complete iso | olation of | A2-52 A2-52 | 20 | THIRD FLOOR LEARNING COMMUNITY INTERIOR ELEVATIONS | | 3 | ISSUED FOR BID | 01/19/2021 | P2-202 P2-203 | HIGH SCHOOL & MIDDLE SCHOOL FIRST, SECOND & THIRD FLOOR PLANS |
| classes are not di | is and at windows is provided. Care must be taken to schedu srupted by noise or visual distraction. | ule work so that | A2-52 | 21 | THIRD FLOOR LEARNING COMMUNITY INTERIOR ELEVATIONS | | 3 | ISSUED FOR BID | 01/19/2021 | P2-203 | HIGH SCHOOL & MIDDLE SCHOOL FIRSTAND SECOND FLOOR PLANS |
| 9 Surfaces that will | he disturbed by reconstruction must have a determination m | made as to the | A2-52 | 23 | MS i-LAB POWER AND TECHNOLOGY PLAN | | 3 | ISSUED FOR BID | 01/19/2021 | E2-001 E2-101 | LEGENDS ABBREVIATIONS AND NOTES HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN |
| presence of lead. | Projects which disturb surfaces that contain lead shall have i | in the | A2-52 | 24 25 | MS I-LAB REFLECTED CEILING PLAN | | 3 | ISSUED FOR BID | 01/19/2021 | E2-101 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN |
| specifications a p | an prepared by a certified Lead Risk Assessor or Supervisor | which details | A2-52 | 26 | MS i-LAB INTERIOR ELEVATIONS | | 3 | ISSUED FOR BID | 01/19/2021 | E2-103 E2-104 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR REMOVAL PLAN |
| clearance testing | upant protection, worksite preparation, work methods, clean which are in general accordance with the HUD Guidelines. | ning and | A2-53 A2-53 | 31 32 | ENLARGED TOILET PLANS, ELEVATIONS & FINISHES ENLARGED TOILET PLANS, ELEVATIONS & FINISHES | | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | E2-105 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR REMOVAL PLAN |
| | на должавате натрианно за 🥃 делодата съвеката устеринита и колон указанато сосодоно и тадато и контроляциото и | | A2-53 | 33 | ENLARGED TOILET PLANS, ELEVATIONS & FINISHES | | 3 | ISSUED FOR BID | 01/19/2021 | E2-106 E2-107 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR REMOVAL PLAN HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR REMOVAL PLAN |
| | | | A2-53 A2-53 | 34 35 | ENLARGED TOILET PLANS, ELEVATIONS & FINISHES ENLARGED TOILET PLANS, ELEVATIONS & FINISHES | | 3 3 | ISSUED FOR BID | 01/19/2021 01/19/2021 | E2-108 | HIGH SCHOOL & MIDDLE SCHOOL EXTERIOR REMOVAL PLAN |
| | | | A2-60 | 01 | DOOR SCHEDULE | | 3 | ISSUED FOR BID | 01/19/2021 | E2-201 E2-202 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR LIGHTING PLAN HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR LIGHTING PLAN |
| | | | A2-60 |)2 | DOOR TYPES | | 3 | ISSUED FOR BID | 01/19/2021 | E2-203 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR LIGHTING PLAN |
| | | | | | | | | | | E2-204 E2-205 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR LIGHTING PLAN HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR LIGHTING PLAN |
| | CHITECTURAL ABBREVIATIONS | | | | | | | | | E2-206 | HIGH SCHOOL & MIDDLE SCHOOL PART THIRD FLOOR LIGHTING PLAN |
| AC | AIR CONDITIONING | MTL | METAL | | | | | | | E2-207 E2-301 | HIGH SCHOOL & MIDDLE SCHOOL EXTERIOR EMERGENCY LIGHTING PLAN HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER & FIRE ALARM PI |
| AFF ALUM | ABOVE FINISH FLOOR ALUMINUM | MIN MTD | MINIMUM MOUNTED | | 000 ROOM NAME ROOM TAG | 00 | EXTE | RIOR ELEVATI | ON TAG | E2-302 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER & FIRE ALARM PI |
| B/W | | N/A NO | NOT APPLICABLE | | SQ. FT | 00 A-1.1 00 | | | | E2-303 E2-304 | HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER & FIRE ALARM PI HIGH SCHOOL & MIDDLE SCHOOL PART FIRST FLOOR POWER & FIRE ALARM PI |
| CMT | | NOM | NOMIDER | | | 00 | | | | E2-305 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR POWER & FIRE ALARM |
| CJ | CONTROL JOINT | NIC | NOT IN CONTRACT | | | 00 | | | | E2-300 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR POWER & FIRE ALARM |
| DK ELEV | ELEVATION | OC OH | ON CENTER OVERHEAD | | | | INTEF | RIOR ELEVATION | ON TAG | E2-308 F2-309 | HIGH SCHOOL & MIDDLE SCHOOL PART SECOND FLOOR POWER & FIRE ALARM |
| ETR EW | EXISTING TO REMAIN EACH WAY | PLAM PL | PLASTIC LAMINATE PLATE | | | UU A-1.1 00 | | | | E2-310 | HIGH SCHOOL & MIDDLE SCHOOL ROOF POWER AND FA PLAN |
| EWC EQ | ELECTRIC WATER COOLER EQUAL | PREFAB PT | PREFABRICATED |) | | 00 | | | | E2-311 F2-312 | HIGH SCHOOL & MIDDLE SCHOOL ELECTRICAL CONDUIT ROUTING HIGH SCHOOL & MIDDLE SCHOOL EXTERIOR PLAN |
| EXIST | EXISTING | PTD | | | | | CALL | | | E2-501 | HIGH SCHOOL & MIDDLE SCHOOL PART ELECTRICAL RISER |
| FACP | | REIN | REINFORCED | | | (A-1.1) | UNLL | | | E2-502 E2-601 | HIGH SCHOOL & MIDDLE SCHOOL FIRE ALARM AND PA RISER HIGH SCHOOL & MIDDLE SCHOOL FLECTRICAL SCHEDULES |
| FE FEC | FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET | 55 THK | STAINLESS STEEL THICK | | 1A SPECIALITY EQUIPMENT | | | | | E2-602 | HIGH SCHOOL & MIDDLE SCHOOL ELECTRICAL SCHEDULES |
| FD GALV | LOOR DRAIN GALVANIZED | THR T&B | THRESHOLD TOP AND BOTTOM | | | | SECT | ION SYMBOL | | E2-701 E2-702 | ELECTRICAL DETAILS ELECTRICAL DETAILS |
| GC GWB | GENERAL CONTRACTOR GYPSUM WALLBOARD | TYP U.N.O. | TYPICAL UNLESS NOTED OTH | ERWISF | | A-1.1 | | | | AVE2-001 | AUDIOVISUAL KEYS, NOTES AND SCHEDULES |
| HC HM | HANDICAPPED HOLLOW METAL | VCT VFRT | | TILE | 1/8" = 1'-0" SCALE OF DRAWING | | | | | AVE2-101 AVE2-102 | AUDIOVISUAL PLAN - THIRD FLOOR AUDIOVISUAL PLAN - ILAB |
| HORIZ | | WC | WATER CLOSET | | | | LEVEI | _ TAG | | AVE2-111 | AUDIOVISUAL RCP - THIRD FLOOR |
| ISA LAV | LAVATORY | WWF | WELDED WIRE FABR | IC | | | | | | AVE2-112 AVE2-201 | AUDIOVISUAL RCP - ILAB HEARING LOOP SYSTEM LOOP WIRE LAYOUTS AND DIAGRAMS - II AB |
| MAX | MAXIMUM | VV/ | WITH | | | | | | | AVE2-202 | HEARING LOOP SYSTEM LOOP WIRE LAYOUTS AND DIAGRAMS - THIRD FLOOR |

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| LIST OF DRAWINGS TO BE PRINTED IN COLOR |
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| |
| T2-001 - TITLE SHEET |
| X2-101 - FIRST FLOOR CODE COMPLIANCE PLAN |
| X2-102 - SECOND FLOOR CODE COMPLIANCE PLAN |
| X2-103 - THIRD FLOOR CODE COMPLIANCE PLAN |
| X2-120 - HIGH SCHOOL ENTRY and MS ILAB CODE COMPLIANCE PLAN |
| X2-121 - THIRD FLOOR LEARNING COMMUNITY CODE COMPLIANCE PLAN |
| D2-101 - FIRST FLOOR DEMOLITION PLAN |
| D2-102 - SECOND FLOOR DEMOLITION PLAN |
| D2-103 - THIRD FLOOR DEMOLITION PLAN |
| D2-201 - EXTERIOR DEMOLITION ELEVATIONS |
| D2-202 - EXTERIOR DEMOLITION ELEVATIONS |
| D2-203 - EXTERIOR DEMOLITION ELEVATIONS |
| A2-350 - ELEVATOR DEMOLITION AND FLOOR PLANS |
| A2-501 - MIDDLE SCHOOL ENTRANCE DEMOLITION PLAN, FLOOR PLAN, REFLECTED CEILING PLAN AND FLOOR FINISH PLAN |
| A2-503 - NEW STAFF OFFICES DEMOLITION PLAN AND FLOOR PLAN |
| A2-505 - MIDDLE SCHOOL OFFICE SUITE DEMOLITION PLAN AND REFLECTED CEILING PLAN |
| A2-506 - ENLARGED FIRST FLOOR CLASSROOM DEMOLITION PLAN AND FLOOR PLAN |
| A2-507 - ENLARGED SECOND FLOOR CLASSROOM DEMOLITION PLAN AND FLOOR PLAN |
| A2-511 - HIGH SCHOOL ENTRANCE PLANS |
| A2-515 - THIRD FLOOR LEARNING COMMUNITY DEMO DRAWINGS |
| A2-517 - THIRD FLOOR POWER AND TECHNOLOGY PLAN |
| A2-522 - MS i-LAB DEMO PLAN AND FLOOR PLAN |
| A2-523 - MS i-LAB POWER AND TECHNOLOGY PLAN |
| A2-531 - ENLARGED TOILET PLANS, ELEVATIONS & FINISHES |
| A2-534 - ENLARGED TOILET PLANS, ELEVATIONS & FINISHES |
| A2-536 - ENLARGED TOILET PLANS, ELEVATIONS & FINISHES |
| A2-700 - FINISH SCHEDULE & LEGEND |
| AVE2-202 - HEARING LOOP SYSTEM LOOP WIRE LAYOUTS AND DIAGRAMS - ILAB |
| AVE2-212 - HEARINGLOOP SYSTEM LOOP WIRE LAYOUTS AND DIAGRAMS - THIRD FLOOR |

| BID PROJECTS |
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| PROJECT 1: ALL WORK NOT INCLUDED IN PROJECTS 2, 3 & 4 LISTED BELOW |
| PROJECT 2: MIDDLE SCHOOL I-LAB & UPGRADE TO 2ND FLOOR MECHANICAL ROOM INCLUDING 1ST FLOOR GUIDANCE CEILING WORK |
| PROJECT 3: NEW ELEVATOR & 3RD FLOOR LEARNING COMMONS |
| PROJECT 4: MIDDLE SCHOOL MASONRY RESTORATION AND ROOF REPLACEMENT |
| ALTERNATE 4A: MIDDLE SCHOOL MASONRY RESTORATION - TOWER VENEER REPLACEMENT & NEW WINDOWS |

DCATION DRAWING







EXISTING CONDITIONS AND DEMOLITION PLAN SCALE: BAR SCALE

NOTES:

- 1. THE CONTRACTOR SHALL CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION AND COORDINATE WITH OTHERS AS REQUIRED, INCLUDING DAILY OPERATIONS OF SCHOOL CAMPUS.
- 2. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE FOR INFORMATION ONLY, AND ALL UTILITIES MAY NOT BE SHOWN. THE CONTRACTOR SHALL CONTACT U.F.P.O. (1-800-962-7962) AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANY HAVING JURISDICTION TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. CARE SHOULD BE TAKEN IN ALL EXCAVATIONS DUE TO THE POSSIBLE EXISTENCE OF UNRECORDED UTILITIES. ANY COSTS INCURRED BY THE CONTRACTOR DUE TO FAILURE TO CONTACT THE PROPER AUTHORITIES SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.
- 3. THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION ON SITE. ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS SHALL BE IMMEDIATELY COMMUNICATED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING GRADES IN THE FIELD PRIOR TO THE COMMENCEMENT OF ANY WORK. FIELD VERIFICATIONS SHALL BE PERFORMED THROUGHOUT ALL AREAS OF NEW CONSTRUCTION. THIS FIELD VERIFICATION IS IMPERATIVE TO ENSURE THAT THERE ARE NO DISCREPANCIES BETWEEN THE SITE SURVEY AND WHAT HAS BEEN VERIFIED. IF DISCREPANCIES DO EXIST, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT/OWNER'S REPRESENTATIVE, IMMEDIATELY, AND PRIOR TO ANY CONSTRUCTION, SO NECESSARY ADJUSTMENTS AND/OR MODIFICATIONS CAN BE MADE TO ACCOMMODATE THESE DISCREPANCIES. ANY FAILURE TO VERIFY THE GRADES PRIOR TO CONSTRUCTION SHALL BE AT THE RISK AND COST OF THE CONTRACTOR.
- 4. THE CONTRACTOR SHALL PROVIDE STAKED LAYOUT OF PROPOSED IMPROVEMENTS FOR THE ARCHITECT/OWNER'S REPRESENTATIVE REVIEW AND APPROVAL BEFORE COMMENCING WITH ANY GROUND DISTURBANCE.
- 5. THE CONTRACTOR SHALL VERIFY PROPOSED GRADES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS FOR THE WORK FROM ANY UTILITY COMPANIES OR OTHER GOVERNING BODIES HAVING JURISDICTION OVER THE WORK OUTLINED IN THESE DRAWINGS.
- 7. THE CONTRACTOR SHALL ESTABLISH PERMANENT SECONDARY BENCHMARKS, IF NEEDED, PRIOR TO THE START OF CONSTRUCTION. ALL SECONDARY BENCHMARKS SHALL BE SO LOCATED THAT THEY WILL NOT BE
- DISTURBED BY CONSTRUCTION.
- 8. THE CONTRACTOR SHALL MAINTAIN ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT TRACKING OR MOVEMENT OF SEDIMENT OR DEBRIS ONTO PUBLIC ROADS.

- MONITOR THE CONTROL DEVICES AT LEAST ONCE A WEEK TO ENSURE THEIR EFFECTIVENESS.

- 14. FIND/PROTECT EXISTING UNDERGROUND UTILITIES THAT CROSS THROUGH PROJECT AREA. NOTIFY OWNER AND ENGINEER IMMEDIATELY UPON FINDING ANY DISCREPANCIES WITH SURVEY.
- 15. SAWCUT/DEMOLISH EXISTING PAVEMENTS AS SHOWN. DISPOSE OF MATERIALS OFF-SITE IN ACCORDANCE WITH ALL REGULATIONS.

SCALE: 1" = 20'-0"

9. THE CONTRACTOR SHALL PROVIDE DUST AND EROSION/SEDIMENT CONTROL AS PER SPECIFICATIONS AND/OR AS APPROVED BY THE ARCHITECT/OWNER'S REPRESENTATIVE.

10. THE CONTRACTOR SHALL INSTALL SILT FENCE(S) PRIOR TO ANY SOIL DISTURBANCE. THE CONTRACTOR SHALL INSTALL AND REGULARLY MAINTAIN, AS REQUIRED, ANY AND ALL SILTATION CONTROL MEASURES AND

11. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH AND LENGTH AS APPLICABLE. REMOVE TREE ROOTS TO 24" DEPTH BELOW FINISHED GRADE (MINIMUM). ITEMS NOT SPECIFICALLY IDENTIFIED THAT INTERFERE WITH NEW CONSTRUCTION MUST ALSO BE REMOVED. ALL REFUSE, DEBRIS AND MISCELLANEOUS ITEMS TO BE REMOVED SHALL BE LEGALLY DISPOSED OF OFF-SITE BY THE CONTRACTOR. 12. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL AREAS DISTURBED AND/OR DAMAGED FROM CONSTRUCTION ACTIVITIES INCLUDING, BUT NOT LIMITED TO, LAWNS, WALKS, PAVEMENTS, ETC.. IT IS EXPECTED THAT THE CONTRACTOR SHALL MAKE PHOTO LOGS OF ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION FOR HIS/HER RECORDS.

16. DEMOLISH AND REMOVE (OR ABANDON IN-PLACE IF ACCEPTABLE TO ENGINEER) EXISTING UTILITIES (ABOVE AND BELOW GRADE) IN ACCORDANCE WITH ALL REGULATIONS.

17. DEMOLISH ALL EXISTING SITE IMPROVEMENTS AS REQUIRED TO ALLOW PROJECT CONSTRUCTION. DISPOSE OF MATERIALS OFF-SITE IN ACCORDANCE WITH ALL REGULATIONS.

18. PROVIDE ALL REQUIRED EROSION CONTROL MEASURES / PROTECT ALL STORM INLETS FROM SEDIMENT DEPOSITION DURING CONSTRUCTION, AS SHOWN ON GRADING & EROSION & SEDIMENT CONTROL PLAN. 19. CONTRACTOR SHALL COORDINATE WITH OWNER AND CONSTRUCTION MANAGER ON LIMITS OF WORK AND CONTRACTOR ACCESS AND USE AREAS, SUCH AS MATERIAL STORAGE, TEMPORARY PARKING, ETC. CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL SITE USERS FROM CONSTRUCTION OPERATIONS / HAZARDS. PROVIDE SAFE AND EMERGENCY ACCESS TO THE PROJECT SITE AT ALL TIMES.

| | Revision | Schedule | Data |
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| | Acoustic (| <u>Con</u> sultant | |
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| ingen Kanan Kanan K | Sudbury, MA 978-44 | \ 01776-3027 \3-7871 | |
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| PROJECT Ryc | e City Sc | hool Dist | rict |
| 555 The | eodore Fremd | Ave, Rye, N | Y 10580 |
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| No. | Revision | Schedule | Date |
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| | ISSUED FOI | R BID | 2021/01/19 |
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| BARIL | <u>MEP E</u> E GALLAGHI CONSULTING | <u>ngineer</u> ER & ASSOC G ENGINEER | CIATES S |
| 3 | 9 Marble Ave Pleasantville 914-32 | enue, 2nd Flo e, NY 10570 28-6060 | or |
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| | 12 Cold Sp Provide 401-86 | oring Street ence, RI 51-3218 | |
| | AV Cor CAVANALI | <u>nsultant</u> GH TOCCI | |
| | 327 F Bosto Sudbury, MA 978-44 | n Post Road 01776-3027 3-7871 | |
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| V UFE | 55101 | | |









4

— 4" I.D. SLEEVE — 3" Ø SCH. 40 STEEL PIPE — CAULK JOINT

> - ENSURE TOP OF FOOTING IS NEATLY **FINISHED AND LEVEL - TO RECEIVE** BOLLARD WITHOUT GAPS. TOP SHALL BE FLUSH WITH PROPOSED GRADES SURROUNDING IT.

- CONCRETE PAVEMENT - SEE PAVEMENT SCHEDULE

 STEEL PIPE EXTENDS INTO CONCRETE FOOTING

- REINFORCED CONCRETE - 4000 PSI MINIMUM HOOP REINFORCEMENT #2 BARS @ 8" E.W., 2" CLEAR FROM FACE

NOTE: THIS TYPE ANCHORING IS ALSO USED AS A BARRICADE. BOLLARD HELD IN PLACE BY STEEL PIPE. STEEL PIPE MUST BE ANCHORED IN CONCRETE FOOTING.

BOLLARD TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PERMANENT CONCRETE BOLLARD WITH REVEAL LINE -1. WAUSAU TILE MODEL NO. TF6010, OR

APPROVED EQUIVALENT

2. COLOR: A20 WHITE OR A 21 BUFF

3. FINISH: ACID WASH

4. CONTRACTOR TO SUBMIT COLOR AND FINISH SAMPLES TO OWNER AND ARCHITECT FOR FINAL APPROVAL.

5. HEIGHT - 30"











| | Revision | Schedule | |
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| No. | Descr | ription | Date |
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| | <u>Construction</u> | on Manager | |
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| | Structural | | |
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| | 914-32 | 8-6060 | |
| | <u>Acoustic (</u> DP DE 12 Cold Sp | Consultant ESIGN pring Street | |
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GENERAL NOTE(S):

1. SEE GENERAL NOTES ON SHEET C2-001.

SEDIMENT AND CONTROL PLAN NOTES

| Revision Schedule | | | | |
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| No. | | | Date | |
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| Rye | Rye High School & Middle School | | | |
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| CC | ONSULTING | G ENGINE | ERS |
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| 14.328.6060 | General@BGA | -Eng.com www | .BGA-Eng.com |
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| | Construction | on Manager | <u>_</u> |
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| | Valhalla, 914-94 | NY 10595 18-3450 | |
| | Acoustic (| <u>Consultant</u> | |
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| | CEILING FINISHES LEGEND | |
|---------------------------|---------------------------|---|
| | CEILING MATERIAL | |
| | CLG-1 | 2X2 ACOUSTIC CEILING TILE ARMSTRONG OPTIMA 2x2 CEILING TILE WITH PRELUDE 15/16" SUSPENSION SYSTEM - WHITE |
| | CLG-2 | PAINTED GYP BOARD |
| | CLG-3 | 2X2 METAL CEILING TILE ARMSTRONG METALWORKS TEGULAR 2x2 CEILING TILE WITH PRELUDE 15/16" SUSPENSION SYSTEM WHITE WITH MICRO PERFORATIONS AND BLACK ACOUSTIC BACKER |
| | CLG-4 | USG SHEETROCK BRAND EXTERIOR GYPSUM CEILING BOARD |
| | | K-13 ACOUSTICAL SPRAY 2" THICK ON ALL STRUCTURE & UNDERSIDE OF FLOOR/ROOF DECK |
| | | EXTRUDED ALUMINUM TRIM ARMSTRONG 8" AXIOM TRIM |
| | ACOUSTIC CEILING FIXTURES | |
| | C-1 | RECTANGULAR ACOUSTIC CLOUD: BASIS OF DESIGN: ARMSTRONG SOUNDSCAPE SHAPES SMALL RECTANGLE 48" x 72" x 2" COLOR: PURE WHITE |
| LOT 1 K I800LMF CRD | C-2 | <u>SQUARE ACOUSTIC CLOUD:</u> BASIS OF DESIGN: ARMSTRONG SOUNDSCAPE SHAPES SQUARE 48" x 48" x 2" COLOR: PURE WHITE |

| A/V FIXTURES - CO | ORDINATE WITH OWNER'S A/V CONTRACTOR | 1 |
|--|--|---|
| THIS DRAWING SHOWN ONLY. SEE ELECTRICAL | FOR ARCHITECTURAL COORDINATION PURPOSES DRAWINGS, OWNER'S AV DRAWINGS CAN BE | 3 |
| PROVIDED UPON REQU LOOP SYSTEM, AND A/V | EST. ALL POWER, DATA, COPPER WIRE FOR TELECOIL CONDUIT TO BE BY ELECTRICAL CONTRACTOR. | 4 |
| PROJECTORS AND | DISPLAYS | |
| FD | WALL-MOUNTED LCD DISPLAY (BY OWNER): | |
| | BASIS OF DESIGN: SHARP, & CHIEF MANUFACTURING. PROVIDE BLOCKING. | |
| <u>SPEAKERS</u> | | |
| | CEILING-RECESSED AUDIO SPEAKER (BY OWNER): | |
| (S2) | BASIS OF DESIGN: COMMUNITY D6 - WHITE. PROVIDE BLOCKING. | |
| | CEILING-MOUNTED LINEAR ARRAY SPEAKER (BY OWNER): BASIS OF DESIGN: INNOVEX FLEX FOCUS FF-V2.6 PROVIDE BLOCKING. | |
| | WALL MOUNTED SPEAKER (BY OWNER): | |
| (ELEV.) (PLAN) | BASIS OF DESIGN: INNOVEX MICRO - FOCUS 2.1. PROVIDE BLOCKING.(SEE INTERIOR ELEVATIONS AND RCP) | |
| ACCESSORIES | | |
| | | |
| | AV EQUIPMENT CEILING RACK (BY OWNER) : BASIS OF DESIGN: ATLAS CR222-NR. | |
| (RCP) (PLAN) | PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND RCP) | |
| | | |
| | WALL MOUNTED DIGITAL CLOCK: | |
| (ELEV.) (PLAN) | WALL MOUNTED DIGITAL CLOCK: BASIS OF DESIGN: ATLAS IED IP DUAL SIDED LCD WITH SPEAKERS PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN) | |
| (ELEV.) (PLAN) | WALL MOUNTED DIGITAL CLOCK: BASIS OF DESIGN: ATLAS IED IP DUAL SIDED LCD WITH SPEAKERS PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN) IP PHONE: | |
| (ELEV.) (PLAN) | WALL MOUNTED DIGITAL CLOCK:BASIS OF DESIGN: ATLAS IED IP DUAL SIDED LCD WITH SPEAKERSPROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWERPLAN)IP PHONE:BASIS OF DESIGN: CISCO.PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/POWER PLAN) | |
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| (ELEV.) (PLAN) (ELEV.) (PLAN) (ELEV.) (PLAN) (ELEV.) (PLAN) | WALL MOUNTED DIGITAL CLOCK: BASIS OF DESIGN: ATLAS IED IP DUAL SIDED LCD WITH SPEAKERS PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN) IP PHONE: BASIS OF DESIGN: CISCO. PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN) TOUCH CONTROL PANEL (BY OWNER) EXTRON MLC PLUS 100. (SEE INTERIOR ELEVATIONS AND POWER & TECH PLAN) TELECOIL LOOP : BY ELECTRICAL CONTRACTOR. AUDIO INDUCTION LOOP AIDS ASSISTIVE LISTENING TECHNOLOGY. CONSISTS OF PHYSICAL CABLE LOOPS PLACED | |

GENERAL NOTE: CEILING CONTRACTOR TO OWN CEILING CUT OUTS FOR A/V CEILING RECESSED SPEAKERS. COORDINATE WITH OWNER'S AV CONTRACTOR AND DO NOT CUT HOLES UNTIL THE SPEAKERS ARE ON SITE AND

COORDINATION DRAWING AND DOCUMENTS ARE APPROVED.



RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN 1" = 100'











| | Demolition Keynote Legend |
|-----------|--|
| Key Value | Keynote Te |
| 1 | REMOVE EXISTING MASONRY/GYP. BD/TILE WALL ASSE |
| 1A | REMOVE EXISTING MASONRY/GYP. BD/TILE WALL ASSE SCHEDULE. |
| 1B | REMOVE EXISTING GYP. BD./ TILE ON TAG SIDE OF THE |
| 1C | REMOVE EXISTING MASONRY/GYP. BD/TILE WALL ASSE WINDOW TYPES. |
| 1D | EXISTING STONE VENEER/PRECAST/LIMESTONE TO BE SEE DEMO AND PROPOSED DRAWINGS FOR EXTENT OF |
| 2 | REMOVE EXISTING DOOR, FRAME AND ASSOCIATED HA |
| 2A | REMOVE EXISTING EXTERIOR WINDOW, FRAME AND AS |
| 2B | REMOVE EXISTING INTERIOR WINDOW, FRAME AND ASS |
| 2C | REMOVE EXISTING EXTERIOR LOUVER, FRAME, SILL & A |
| 3 | REMOVE EXISTING FLOORING, BASE, ADHESIVE AND AL REQUIRED TO ACHIEVE SMOOTH AND LEVEL SUBSTRAT PITCH TO NEW FLOOR DRAINS. |
| 4 | REMOVE EXISTING GYP. BD. CEILINGS, CEILING GRID, T REMOVE EXISTING LIGHT FIXTURES AND DEVICES. |
| 5 | REMOVE EXISTING PLUMBING FIXTURES, TOILET PARTI ACCESSORIES. |
| 6 | REMOVE EXISTING MILLWORK COUNTER, CABINETS AN |
| 6A | REMOVE EXISTING LOCKERS AND ASSOCIATED HARDW |



4 HS Security Window Demo Section SCALE: 1/4" = 1'-0"

RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN 1" = 100'

| Revision Schedule | |
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| SED SUBMISSION 09/15/2 | 020 |
| SED SUBMISSION: 01/11/20 Addendum #1 01/19/20 | 021 |
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| Geddis | |
| Architects | |
| Architecture. Planning. Interior | S |
| 71 Old Post Road P.O. Box 1020 | |
| Southport, CT 06890 (203) 256-8700 | |
| | |
| Fielding | |
| Internationa | |
| Transforming Education by Design | |
| 259 Water Street Suite 1L | |
| +1 401-289-2789 | |
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| BARILE GALLAGHER & ASSOCIATI | ES |
| CONSULTING ENGINEERS | _ |
| 39 MARBLE AVENUE PLEASANTVILLE, NY 10570 14.328.6060 General@BGA-Eng.com www.BGA-Eng.c |) om |
| Construction Manager | |
| 3 Campus Drive Pleasantville, NY 10570 | |
| Structural Engineer ODEH ENGINEERS | |
| 1223 Mineral Spring Ave North Providence, RI 02904 401-724-1771 | |
| <u>Civil Engineer</u> WESTON & SAMPSON | |
| Albany, NY 12205 518-463-4400 | |
| Roof Consultant WATSKY ASSOCIATES INC. 20 Madison Ave | |
| Valhalla, NY 10595 914-948-3450 Acoustic Consultant | |
| DP DESIGN 12 Cold Spring Street Providence RI | |
| 401-861-3218 AV Consultant | |
| CAVANAUGH TOCCI 327 F Boston Post Road Sudbury, MA 01776-3027 | |
| 978-443-7871 SED #: 6618-0001-0005-032 | |
| PROJECT | |
| Rye City School District 555 Theodore Fremd Ave. Rve. NY 10580 | |
| Rye High School & Middle | |
| 1 Parsons Street Rve Now Vork 10590 | |
| T A SONS OUCCL, INVE, INEW TOLK IUDOU | |
| HIGH SCHOOL ENTRANCE PLANS | |
| PROJECT 1 | |
| SEAL & SIGNATURE DATE:11/04 | /19 |
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| A/V FIXTURES - COO THIS DRAWING SHOWN FO ONLY. SEE ELECTRICAL DR PROVIDED UPON REQUEST LOOP SYSTEM, AND A/V CO | RDINATE WITH OWNER'S A/V CONTRACTOR R ARCHITECTURAL COORDINATION PURPOSES AWINGS. OWNER'S AV DRAWINGS CAN BE T. ALL POWER, DATA, COPPER WIRE FOR TELECOIL ONDUIT TO BE BY ELECTRICAL CONTRACTOR. |
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| PROJECTORS AND D | ISPLAYS |
| FP | <u>WALL-MOUNTED LCD DISPLAY (BY OWNER):</u> BASIS OF DESIGN: SHARP, & CHIEF MANUFACTURING. PROVIDE BLOCKING. |
| SPEAKERS | |
| (S2) | CEILING-RECESSED AUDIO SPEAKER (BY OWNER): BASIS OF DESIGN: COMMUNITY D6 - WHITE. PROVIDE BLOCKING. |
| | <u>CEILING-MOUNTED LINEAR ARRAY SPEAKER (BY OWNER):</u> BASIS OF DESIGN: INNOVEX FLEX FOCUS FF-V2.6 PROVIDE BLOCKING. |
| (ELEV.) (PLAN) | WALL MOUNTED SPEAKER (BY OWNER): BASIS OF DESIGN: INNOVEX MICRO - FOCUS 2.1. PROVIDE BLOCKING.(SEE INTERIOR ELEVATIONS AND RCP) |
| | |
| (RCP) (PLAN) | AV EQUIPMENT CEILING RACK (BY OWNER) : BASIS OF DESIGN: ATLAS CR222-NR. PROVIDE BLOCKING.(SEE INTERIOR ELEVATIONS AND RCP) |
| (ELEV.) (PLAN) | WALL MOUNTED DIGITAL CLOCK: BASIS OF DESIGN: ATLAS IED IP DUAL SIDED LCD WITH SPEAKERS PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN) |
| (ELEV.) (PLAN) | IP PHONE: BASIS OF DESIGN: CISCO. PROVIDE BLOCKING. (SEE INTERIOR ELEVATIONS AND COORDINATE w/ POWER PLAN) |
| (ELEV.) (PLAN) | TOUCH CONTROL PANEL (BY OWNER) EXTRON MLC PLUS 100. (SEE INTERIOR ELEVATIONS AND POWER & TECH PLAN) |
| []]]] | TELECOIL LOOP : BY ELECTRICAL CONTRACTOR. AUDIO INDUCTION LOOP AIDS ASSISTIVE LISTENING TECHNOLOGY. CONSISTS OF PHYSICAL CABLE LOOPS PLACED AROUND DESIGNATED SPACES. (SEE ELECTRICAL DRAWINGS) |

RYE HIGH SCHOOL & MIDDLE SCHOOL KEY PLAN 1" = 100'

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<u>NOTE:</u>

BY OWNER. THIS DRAWING IS FOR COORDINATION PURPOSES ONLY

NOTE:

GC TO PROVIDE BLOCKING FOR OWNER-SUPPLIED CASEGOODS. DRAWINGS IN 900 SERIES AND ON THIS SHEET PROVIDED IN GC DRAWING SET FOR COORDINATION PURPOSES ONLY.

GENERAL NOTES:

- CASEGOODS CONTRACTOR TO PROVIDE STAMPED SHOP DRAWINGS TO ARCHITECT FOR APPROVAL PRIOR TO BUILDING ANY PART OF CUSTOM FURNISHINGS.
- 2. FOR ALL OWNER-SUPPLIED CASEGOODS, COORDINATE WITH ARCHITECT TO OBTAIN TEMPLATES AND HOLD DIMENSIONS AS NOTED FOR EACH ITEM

CASEGOODS AND CUSTOM FURNISHINGS FINISH NOTES:

- SS-2 CORIAN SOLID SURFACE AT COUNTERTOP AND BACKSPLASH; COLOR: SILVER BIRCH.
 PLYFF-1 - 18mm PRE-FINISHED BALTIC BIRCH PLYWOOD WITH
- PLYFF-1 18mm PRE-FINISHED BALTIC BIRCH PLYWOOD WITH CLEAR, NON-YELLOWING UV FINISH; EXPOSED EDGES, SANDED SMOOTH AND CLEAR FINISHED. PROVIDE SAMPLE TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING.
 PLYFF-2 - 18mm PRE-FINISHED BALTIC BIRCH PLYWOOD WITH
- WILSONART 1573 MARKERBOARD FROSTY WHITE PLASTIC LAMINATE ON TAG SIDE; CLEAR, NON-YELLOWING UV FINISH ON OPPOSITE SIDE; EXPOSED EDGES, SANDED SMOOTH AND CLEAR FINISHED. PROVIDE SAMPLE TO ARCHITECT FOR APPROVAL.
- 4. 1" DIA. CUTOUT DOOR FINGER PULL.
- 5. SURFACE-RECESSED OUTLET: ECA COVE LG DUPLEX WITH DAISY CHAIN; MODEL COV-LG-2U-4-1-S.6. UNDERMOUNT OUTLET: ECA SANDBAR WITH DATA JACKS AND
- DAISY CHAIN; MODEL 84 SBS-S-1111. 7. CORD DROP CUTOUT.
- 8. VERTICAL SUPPORT AND PIPE HINGE: 1 1/16" OD ALUMINUM TUBING; BRUSHED CLEAR ANODIZED.
- 9. METALLIC PERFORATED PANEL
- 10. LINOLEUM BY FORBO IN SHEET. COLOR TBD.
- 11. WM2 LED TAPE LIGHTING, SEE CEILING FIXTURE LEGEND.

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7 Cave Space Type B - Front View SCALE: 1 1/2" = 1'-0"

NOTE:

GC TO PROVIDE BLOCKING FOR OWNER-SUPPLIED CASEGOODS. DRAWINGS IN 900 SERIES AND ON THIS SHEET PROVIDED IN GC DRAWING SET FOR COORDINATION PURPOSES ONLY.

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- 1. SS-2 CORIAN SOLID SURFACE AT COUNTERTOP AND BACKSPLASH; COLOR: SILVER BIRCH. 2. PLYFF-1 - 18mm PRE-FINISHED BALTIC BIRCH PLYWOOD WITH CLEAR, NON-YELLOWING UV FINISH; EXPOSED EDGES, SANDED
- SMOOTH AND CLEAR FINISHED. PROVIDE SAMPLE TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING. 3. PLYFF-2 - 18mm PRE-FINISHED BALTIC BIRCH PLYWOOD WITH WILSONART 1573 MARKERBOARD FROSTY WHITE PLASTIC
- LAMINATE ON TAG SIDE; CLEAR, NON-YELLOWING UV FINISH ON OPPOSITE SIDE; EXPOSED EDGES, SANDED SMOOTH AND CLEAR FINISHED. PROVIDE SAMPLE TO ARCHITECT FOR APPROVAL. 4. 1" DIA. CUTOUT DOOR FINGER PULL.
- 5. SURFACE-RECESSED OUTLET: ECA COVE LG DUPLEX WITH DAISY CHAIN; MODEL COV-LG-2U-4-1-S.
- 6. UNDERMOUNT OUTLET: ECA SANDBAR WITH DATA JACKS AND DAISY CHAIN; MODEL 84 SBS-S-1111.
- 7. CORD DROP CUTOUT.
- VERTICAL SUPPORT AND PIPE HINGE: 1 1/16" OD ALUMINUM TUBING; BRUSHED CLEAR ANODIZED.
- 9. METALLIC PERFORATED PANEL
- 10. LINOLEUM BY FORBO IN SHEET. COLOR TBD. 11. WM2 - LED TAPE LIGHTING, SEE CEILING FIXTURE LEGEND.

<u>NOTE:</u>

BY OWNER. THIS DRAWING IS FOR COORDINATION PURPOSES ONLY

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| ERU 2 HS GYM | ROOF | 3300/6600 | () ERP-E-02 | 6600 | 2.0 | PLENUM | 10 | 3300/6600 | 2.0 | PLENUM | 7.5 | 03 | 80.1 | 67.2 53.4 | 4 43.0 | 0.25 | SEE CU 2 | - | _ | _ | _ | SEE HC 2 | 360 | - | 40 | 90 | 40 | | 2" MERV 4" MERV | 10 13 32 | 35 | 460/3/60 | 216 9 | 3 86 | 5500 | REFER TO |
| ERU 3 CONF. H TOILET | И. CEILING М. | 600 | U-ERV600 | 600 | 2.0 | CENTRIFUGAL | - | 600 | 2.0 | CENTRIFUGAL | - | - | 79.5 | 66.9 53.4 | 4 42.5 | - | SEE CU 3 | - | - | - | - | SEE HC | - | _ | - | _ | - | 2 5 " X40 | X2" 2" MERV | 13 10.6 | 15 | 208/1/60 | 56 3 | 34 1 <i>2</i> | 129 | REFER TO OOO |
| ERU 4 HS NURSE/OI | FICE | 400 | U-ERV600 | 400 | 2.0 | CENTRIFUGAL | - | 325 | 2.0 | CENTRIFUGAL | - | - | 78.9 | 66.1 57.4 | 4 45.3 | - | SEE CU 4A | _ | - | - | - | SEE HC | _ | - | - | - | - | 2 5 " X40 | *X2" | 10.6 | 15 | 208/1/60 | 56 3 | 34 12 | 129 | REFER TO OO9 |
| ERU 5 OFFICE | ROOF | 200 | U-ERV600 | 200 | 2.0 | CENTRIFUGAL | - | 200 | 2.0 | CENTRIFUGAL | - | - | 77.6 | 65.1 61.8 | 3 48.1 | - | | - | - | - | _ | SEE HC 5 | - | - | - | - | - | 2 5"X40 | ,X2" | 10.6 | 15 | 208/1/60 | 56 3 | 34 1 <i>2</i> | 129 | REFER TO |
| ERU MS 6 CLASSRO | MS ROOF | 3300/6000 | () ERP-E-07 | 6600 | 2.0 | PLENUM | 10 | 3300/6600 | 2.0 | PLENUM | 7.5 | 03 | 80.3 | 67.4 53.3 | <i>42.7</i> | 0.25 | SEE CU 6 | - | - | - | - | SEE HC | 360 | - | 40 | 90 | 40 | | 2" MERV 4" MERV | 10 13 | 35 | 460/3/60 | 216 9 | 3 86 | 5500 | REFER TO |
| ERU MS SECURI | Y CEILING | 50 | H150-TRG | 50 | 0.75 | CENTRIFUGAL | - | 50 | 0.75 | CENTRIFUGAL | - | - | 77.6 | 65.1 61.8 | 3 48.1 | - | | - | - | - | - | SEE HC | - | - | - | - | - | 2 – | 2" MERV | 13 1.5 | 15 | 120/1/60 | 24 2 | 2 12 | 50 | REFER TO |
| ERU 8 CLASSRO | MS CEILING | 1500 | U-ERV1800 | 1500 | 2,0 | CENTRIFUGAL | - | 1500 | 2.0 | CENTRIFUGAL | - | - | 79.6 | 66.5 55.3 | 3 43.9 | - | SEE CU 8 | - | - | - | - | SEE HC | - | - | - | - | - | 6 5"X40 | <i>`X2</i> " | 19.2 | 25 | 208/3/60 | 56 3 | 4 36 | 387 | REFER TO OOO |
| ERU 9 TOILET H | NS ROOF | 400 | U-ERV600 | 400 | 2.0 | CENTRIFUGAL | - | 400 | 2.0 | CENTRIFUGAL | - | - | 78.9 | 66.1 57.4 | 4 45.3 | _ | | - | - | - | - | | - | - | - | _ | - | 2 5"X40 | *X2" | 10.6 | 15 | 208/1/60 | 56 3 | 34 1 <i>2</i> | 129 | REFER TO |
| ERU HS 10 SECURI | Y CEILING | 50 | PE7.15ERV | 50 | 0.75 | CENTRIFUGAL | - | 50 | 0.75 | CENTRIFUGAL | - | - | 77.6 | 65.1 61.8 | 3 48.1 | - | | - | - | - | - | | - | - | - | - | - | 2 5 " X40 | 'X2" 2" MERV | 13 1.5 | 15 | 120/1/60 | 24 2 | 2 12 | 50 | REFER TO |
| ERU3 EXIST GYM | MER | 11,000 | ERV-E-09 | 11000 | 2.0 | PLENUM | - | 11000 | 2.0 | PLENUM | - | - | - | | - | - | SEE CU 5 | - | - | - | - | | - | - | - | - | - | | | - | - | 208/3/60 | | - – | - | REFER TO |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AS MAN AS MAN AS MAN AS MAN AS MAN BASED BASED 160°F A DESIGN | FACTURED BY FACTURED BY FACTURED BY N A.R.I. CER N HOT WATE ND RETURN T NR CONDITIONS IN ACCORDAN | "ANNEXAIR." "GREENTEK." TIFIED COIL S R SUPPLY TE EMPERATURE SUMMER OA RA WINTER OA RA NCE WITH MAI | , MPERATURE OF 140°F. (95°F/75°F) (75°F/63°F) (6°F) (70°F/53°F) NUFACTUREI | OF (| PROVI CONTE DAMPI DIRTY AND I TYPE PROVI DUCT FILTEE FILTEE PROVI | IDE UNIT WITH ROLS WITH INS ER POWER TEF FILTER CONTA MERV 13 FINAL ROOF CURB S IDE UNIT WITH MOUNTED MO R CONTACT, FI RS AND DUCT IDE ALL NECES | ENAMEL SULATED RMINALS ACT, DAM L FILTEF SUPPOR ENAME TORIZED MOUNTE SSARY M | LED FINISH, MOTORIZED , LOW TEMPE MPER END S RS, DUCT MC TS WITH ALL LED FINISH, O OAI/EXHAUS OUNTED DISCO ED HOT WATE MOUNTING HA | INTEGRAL OAI/EXH ERATURE WITCHES, DUNTED H MOUNTII INTEGRAL ST DAMP DNNECT ER COILS ARDWARE, | DX COIL SE IAUST DAMPER LIMIT CONTRO DISCONNECT HOT WATER CO NG HARDWARE DX COIL, RI ERS, LOW TEN SWITCH, VARIA S. SUSPEND L SUSPEND L | CTION, E RS, INTAH OLS, 100 SWITCH OILS. LO CIS E-CIRCU MPERATU ABLE SPE JNIT FRO AND SPR | EXHAUST/E (E LOUVEI)% ECONO ES, VFD'S CATE UNIT LATION DE RE LIMIT EED CONT M STRUCT ING VIBRA | DEFROS R/EXH DMIZER S, MERV TS ON EFROST CONTR ROL, M TURE A ATION I | T AUST HOOE CONTROLS / 8 INITIAL VIBRATION CONTROLS OLS, DIRTY IERV 13 BOVE. SOLATORS. |). 5, () 5, | PROVI OAI/E SWITC PROVI PROVI PROVI 1/18F PUMP | DE UNIT WITH XHAUST DAMF H, VARIABLE DE ALL NECE DE FLOOR, W HP, 120V/1PH FAILURE. | ENAMELED ERS, MERV SPEED CONT SSARY MOUN ALL OR CEILI I/60HZ, 148 | FINISH, DE 10 FILTER ROL AND ITING HARI ING MOUN 3 WATTS, V | EFROST CONT BOX, DIRTY PSC MOTORS DWARE, SUPF ITED CONDEN WITH AUTOMA | TROLS, DUCT FILTER CONTA S. SUSPEND U PORTS AND SF SATE PUMP, I TIC HEAT PUM | MOUNTED MO ACT, FIELD MO NIT FROM STI PRING VIBRATIO ITTLE GIANT P SHUT DOW | TORIZED OUNTED DIS RUCTURE A ON ISOLATO MODEL VCL N ON OVE | SCONNECT BOVE. DRS. 24ULS, RFLOW OR | | | | | | | | | | | | |

| | | | | | | | | | | SCHE | EDULE (| OF PA | CKAGEL |) ROOF | TOP RT | Γυ υλ | IIT | | | | | | | | | | | | | |
|----------|---------------------------------------|--|--|--------------------------|--------------------------------|-------------------|-----------------|----------------|---------------|--|---|---|---|--|--|---|---------------------------|-----------------------|----------------------|--------------------|---------------------|----------------------|-----------------------|------------------|----------------|------------|----------|--------|----------|------------------------|
| | | GENERAL DATA | | | FAN | DATA | | | GAS HE | EATING DATA | 3 | | COOL | ING DATA | 34 | CC | NDENSER DATA | | СОМР | RESSO | r data | FILTER | DATA | PHYS | ICAL DATA | 1 | ELECTRIC | CAL DA | ATA | |
| MARK | SERVICE | MODEL NUMBER | OAI CFM MAX./MIN. | . CFM | EXT. S. IN H ₂ C | S.P. FAN O RPM | I MOTOR 1 HP | P INPUT MBH | OUTPUT MBH | ENT. AIR TEMP DB *F | P. LVG. AIR TEMP. DB *F | TOTAL CAP MBH | P. SENSIBLE CAF MBH | P. ENT. AIR TEMP. DB/WB *F | .LVG. AIR TEMP. DB/WB *F | REFRIG. | ENT. AIR TEMP. D. F | B HP | QTY. | R.L.A. (EACH) | L.R.A. (EACH) | QTY. SIZE (IN.) | TYPE | WEIGHT (LBS.) | LxWxH (IN.) | FLA | MCA | МОР | SERVICE | REMARKS |
| | CAFETERIA | ZWT15S30L2TCE44PA3 | 6000 2200 | 6000 | 1.6 | 1149 | 9 (1)5.0 | 300 | 240 | 60 | 97 | 188 | 136 | 80/67 | 58/57 | R410A | 95 | (4)1/3 | _ | _ | - | 2 20X24X 4 24X24X | 4 MERV 8 4 MERV 13 | 2,999 | 181X92X53 | <i>;</i> _ | 87 | 100 | 230/3/60 | REFER TO 200 |
| RTU 2 | CAFETERIA | ZWT15S30L2TCE44PA3 | 6000 2200 | 6000 | 1.6 | 1149 | 9 (1)5.0 | 300 | 240 | 60 | 97 | 188 | 136 | 80/67 | 58/57 | R410A | 95 | (4)1/3 | - | - | - | 2 20X24X 4 24X24X | 4 MERV 8 4 MERV 13 | 2,999 | 181X92X53 | ; | 87 | 100 | 230/3/60 | REFER TO ØØØ |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | AS MANUFA INSTALL IN DESIGN AIR | ACTURED BY "TEMPMASTER ACCORDANCE WITH MANU CONDITIONS: SUMMER: OA | R". IFACTURER'S DI A (94°F/75°F) I | IRECTIONS. RA (77°F/0 | ′65°F); ₩I | INTER: 0 | DA (5°F/3° | F) RA (70°F/55 | 5°F). | PROVIDE ROOF ARCHITECT), MO FROST PROTEC USE, DISCONN THICK MERV 13 HINGED ACCESS | TOP UNIT WITH FOU OTORIZED CONTROL TION, HOT GAS BY NECT SWITCH, VFD'S 3 PLEATED FILTERS S PANELS, GAS PIF | UR STAGE COO - DAMPERS, DA PASS, DIRTY S, POWERED C S, STAINLESS S PING KIT WITH | DLING, ENAMELED AMPER END SWITC FILTER CONTACTS ONVENIENCE OUT STEEL GAS FIRED VALVES AND FITT | FINISH (COLOR TO CHES, 100% ENTH S, BLOWER SHEAVE LET, PHASE MONIT HEATING SECTION TINGS FOR BOTTOM | O BE DETERMINED ALPY ECONOMIZED E AND BELT FOR TOR, LOW AMBIEN , STAINLESS STEE M CONNECTION AN | D BY R CONTROLS, HIGH STATIC T CONTROLS, EL DRAIN PAN, ND BACNET | 6 POWERE AND WIF 4" | D EXHAUS RED BY EL | T TO BE LECTRICAL | FIELD SU CONTRA | JPPLIED BY CTOR. | MECHANICAL CO | NTRACTOR | | | | | | | |

S A BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A, EER 12.2,

| | | S | SCHED | ULE OF | EXHAL | IST F | ANS | | | |
|--|------------------------------|-----------------------------------|----------|-------------------------------|--|--|----------------------------------|--------------------------|---------------------|--------------------|
| MARK | BUILDING | SERVICE | LOCATION | TYPE | MODEL No. 🕜 | CFM | TOT. S.P. IN H ₂ 0 | HP AMPS | ELECTRIC SERVICE | REMARKS |
| $ \begin{array}{c} EF \\ 1 \\ 2 \\ 3 \end{array} $ | HIGH SCHOOL MIDDLE SCHOOL | ELECTRIC ROOM — | CEILING | CENTRIFUGAL | SP-A510 | 300 | 0.25 | - 1.40 | 120/1/60 | REFER TO 🛛 |
| EF 4 | HIGH SCHOOL | ELEVATOR SHAFT | WALL | CENTRIFUGAL | CUE-080-VG | 300 | 0.25 | 1/10 _ | 120/1/60 | REFER TO 🛛 🤇 |
| EF 5 | HIGH SCHOOL | TOILET RM — | ROOF | CENTRIFUGAL | G-095-DGEX-QD | 250 | 0.25 | 1/8 _ | 120/1/60 | REFER TO 24 |
| | | | | | | | | | | |
| N (1) AS MAN O T (2) INSTALL | NUFACTURED BY "G | REENHECK". RER'S RECOMMENDATIC | NS. | 4 PROVIDE NEMA 3 SUPPOR | FAN WITH VARIABLE R DISCONNECT SWITC TS, ALUMINUM WALL | SPEED DRIVE CH, GALVANIZED GRILLE. | ON MOTOR, SIDE WALL I | UL705 RATED, MOUNTING | | |

E S PROVIDE FACTORY MOUNTED SPEED CONTROLLER AND DISCONNECT, ALUMINUM GRILLE, BACKDRAFT DAMPER, VIBRATION ISOLATORS AND MOUNTING HARDWARE.

| | | GENERAL DATA | | CAPAC | | | | |
|-----------------|---------------|-------------------------------------|------------------------|------------------------|------|----------------------------|---------------------------|---------------|
| MARK | BUILDING | SERVICE | COOLING TOTAL (MBH) | COOLING SENS. (MBH) | CFM | ENT. AIR TEMP. DB/WB | SUCT. TEMP. * F | REMARKS |
| CC CC IA 1B | HIGH SCHOOL | CU 10 AH1 EXIST AUXILIARY GYM | 192 | 150 | 4500 | 78°F 65°F | 45 | REFER TO 1234 |
| CCCC 2A $2B$ | HIGH SCHOOL | CU 12 AH2 EXIST AUXILIARY GYM | 192 | 150 | 4500 | 78°F 65°F | 45 | REFER TO 1234 |
| | MIDDLE SCHOOL | CU 5 EXIST MS GYM | 233 | 199 | 8000 | 78°F 65°F | 45 | REFER TO 1234 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

COMPARABLE AUTOMATED CONTROLS. PROVIDE FIELD INSTALLED FULL ECONOMIZER/POWER EXHAUST, INTAKE AND EXHAUST HOODS AND DUAL ENTHALPY HUMIDITY SENSORS.

| | | 5 | SCHEDL | JLE OF | - OUT | DOOF | R VR | F CC | DNDENS | SING | UNIT | S | | |
|------------------|---------------|---|-------------|---------------------------|---------------------------------|--------------------------|---------------------------|------------------|----------|-------------|--|--|------------------------------------|---------------------------|
| | | GENERAL L | DATA | | UNIT | PHYSICA | L DAIA | | ELECTR | CAL SUP | <u>PLY</u> | , | | |
| 4 <i>RK</i> | BUILDING | SERVICE | No. | (MBH) | WÉIĜHT (POUNDS) | L | W | Н | SERVICE | MCA | МОСР | EER/SEER | | REMARKS |
| | HIGH SCHOOL | ERD 1 GYM | ARUM241DTES | 233/243 | 800 | 49" | <i>30"</i> | 67" | 460/3/60 | 41.4 | 50 | 12.4/25.9 | REFER | TO 23457 |
| | HIGH SCHOOL | ERD 2 GYM | ARUM241DTES | 233/243 | 800 | 49" | 30" | 67" | 460/3/60 | 41.4 | 50 | 12.4/25.9 | REFER | <u>v</u> 23450 |
| \rightarrow | HIGH SCHOOL | CONF.RM. | ARUN038GSS4 | 38/42 | 250 | 38" | 16" | 55'' | 208/1/60 | 25 | 40 | 10.7/17.0 | REFER | 70 23456 |
| $\overline{)}$ | HIGH SCHOOL | HP NURSE/OFFICE | ARUN038GSS4 | 38/42 | 250 | 38" | 16" | 55'' | 208/1/60 | 25 | 40 | 10.7/17.0 | REFER | 03456 |
| | HIGH SCHOOL | ERU 4 NURSE/OFFICE | ARUN024GSS4 | 24/27 | 250 | 38" | 16" | 33'' | 208/1/60 | 19.6 | 30 | 10.7/17.0 | REFER | TO Q3456 |
| $\overline{)}$ | MIDDLE SCHOOL | ERUJ EXIST GYM | ARUM241DTES | 233/243 | 800 | 49" | <i>30"</i> | 67" | 460/3/60 | 41.4 | 50 | 12.4/25.9 | REFER | 0 03450 |
| $\overline{)}$ | MIDDLE SCHOOL | ERU 6 CLASSROOMS | ARUM241DTES | 233/243 | 800 | <i>49"</i> | <i>30"</i> | 67" | 460/3/60 | 41.4 | 50 | 12.4/25.9 | REFER | 03450 |
| $\overline{)}$ | MIDDLE SCHOOL | (HP) G OFFICES | ARUN048GSS4 | 48/54 | 300 | 38" | 16" | 55'' | 208/1/60 | 30 | 50 | 10.7/17.0 | REFER | TO 23456 |
| $\overline{)}$ | HIGH SCHOOL | ERD 8 CLASSROOMS | ARUM096DTES | 96/108 | 600 | <i>49"</i> | <i>30"</i> | 67" | 460/3/60 | 16.4 | 25 | 12.4/25.9 | REFER | 03456 |
| $\overline{)}$ | HIGH SCHOOL | (HP) * CLASSROOMS | ARUM096DTES | 96/108 | 600 | <i>49"</i> | <i>30"</i> | 67" | 460/3/60 | 16.4 | 25 | 12.4/25.9 | REFER | 03456 |
| | HIGH SCHOOL | AHT EXIST AUXILIARY GYM | ARUM192DTES | 192/216 | 800 | 49" | <i>30"</i> | 67" | 460/3/60 | 35.7 | 50 | 12.4/25.9 | REFER | 70 23456 |
| | HIGH SCHOOL | HP B SECURITY OFFICE | ARUN024GSS4 | 24/27 | 250 | 38" | 16" | 33'' | 208/1/60 | 19.6 | 30 | 10.7/17.0 | REFER | 03456 |
| | HIGH SCHOOL | AH2 EXIST AUXILIARY GYM | ARUM192DTES | 192/216 | 800 | 49" | <i>30"</i> | 67" | 460/3/60 | 35.7 | 50 | 12.4/25.9 | REFER | > 03456 |
| | MIDDLE SCHOOL | (HP) * CLASSROOMS | ARUM168DTES | 168/189 | 700 | 49" | <i>30"</i> | 67" | 460/3/60 | 28.5 | 35 | 12.4/25.9 | REFER | TO 23456 |
| | HIGH SCHOOL | (HP) CLASSROOMS | ARUM072DTES | 72/81 | 500 | 37" | <i>30"</i> | 67" | 460/3/60 | 12.8 | 20 | 12.4/25.9 | REFER | > 23456 |
| $\left(\right)$ | MIDDLE SCHOOL | HP B SECURITY OFFICE | ARUN024GSS4 | 24/27 | 250 | 38" | 16" | 33'' | 208/1/60 | 19.6 | 30 | 10.7/17.0 | REFER | v Q3456 |
| ~ | | | | | | | | | | | | | \sim | $\overline{\mathbf{X}}$ |
| | AS MANUFACTUR | RED BY "LG ELECTRONICS.". . CERTIFIED COIL SELECTION | NS; | 5 UNIT SHALL NETWORK C | . BE CONTROLLI CONTROLLER TO | ED VIA MANL INDOOR HA | JFACTURER'S RDWIRED CO | DDC NTROLLER. | | IDE ELECTRO | DNIC EXPANSI CONTROL KIT E BACNET CO | ION VALVE KIT (ONE FOR E/ OMMUNICATION | AND AHU ACH DX CI S TIED INT | I/ERU OIL PROVIDED). A |

| | | CHEDUL | E UF | REGIS | TERS | AND | DIFFUS | SERS | | S | CHEDU | 'LE | OF | IND | OOR VRF | - H | 'EA | T_{1} | ΡU | MP UNITS |
|--|--|--|--|--|--|--|--|--|------|---|--|---------------------------------|-------------|-----------------------------|--|--|--|--|----------------------------------|--|
| IARK | TYPF | SERVICE | MODEL | DIRECTION | DAMPER | FINISH | TYPF | REMARKS | | | | //\ | IDOOR | UNIT INF | ORMATION | | | | | |
| | , , , , <u>,</u> | SERVICE | No. (1) | DISCHARGE | TYPE | 1 /////3/1 | , , , , <u>E</u> | | GENE | RAL DATA | MODEL | SUPP | LY FAI | V DATA | TOTAL CAPACITY | DIMEI | VSION | v/WEI | GHT | |
| A | CEILING DIFFUSER | SUPPLY | 620 | DOUBLE DEFLECTION | OPPOSED BLADE | PER ARCH. | SURFACE | REFER TO 234 | MARK | SERVICE | No. ① | CFM LOW | UNIT MCA | ELECTRIC SERVICE | COOLING/HEATING kBTU/HR | W (IN.) | D (IN.) | H (IN.) | LBS | |
| B | CEILING REGISTER | EXHAUST | 735FF | - | OPPOSED BLADE | PER ARCH. | SURFACE | REFER TO 235 | | SEE PLANS | ARNUO93TRD4 | 265 | 0.2 | 208/1/60 | 9.6/10.9 | 24 | 24 | 10 | 40 | REFER TO |
| \bigcirc | SIDEWALL REGISTER | SUPPLY | 620 | DOUBLE DEFLECTION | OPPOSED BLADE | PER ARCH. | LAY—IN | REFER TO 234 | | SEE PLANS | ARNU123TQD4 | 300 | 0.2 | 208/1/60 | 12.3/13.6 | 24 | 24 | 10 | 40 | |
| \mathcal{D} | SIDEWALL REGISTER | EXHAUST | 735FF | - | OPPOSED BLADE | PER ARCH. | SURFACE | REFER TO 235 | | SEE PLANS | ARNU183TQD4 | 390 | 0.2 | 208/1/60 | 19.1/21.5 | 24 | 24 | 11 | 70 | |
| Ē | CEILING GRILLE | TRANSFER | 735FF | _ | OPPOSED BLADE | PER ARCH. | SURFACE | REFER TO 235 | | SEE PLANS | ARNU093TUD4 | 300 | 0.2 | 208/1/60 | 9.6/10.9 | 34 | 18 | 6 | 50 | |
| | | | | | | | | | | SEE PLANS | ARNU123TUD4 | 325 | 0.2 | 208/1/60 | 12.3/13.6 | 34 | 18 | 6 | 50 | |
| | EXISTING RE | CISTER /CRILLE | | | | | | | | SEE PLANS | ARNU183TTD4 | 425 | 0.3 | 208/1/60 | 19.1/21.5 | 47 | 18 | 6 | 60 | |
| | EXISTING IL | GISTERY GRIELE | | | | | <u> </u> | | | SEE PLANS | ARNU483NKA4 | 1400 | 1.8 | 208/1/60 | 48.0/54.0 | 25 | 22 | 55 | 150 | 2345 |
| AS M INST INST PROV SURF FINISI | MANUFACTURED E TALL PER MANUFA VIDE MOUNTING FU FACE, COORDINAT | BY "PRICE". ACTURER'S RECOMME RAME COMPATIBLE V E ALL BORDER TYPE | ENDATIONS. N/ MOUNTING ES, COLORS, | SUPPLY 50 100 TO TO 99 299 | NECK SIZE PI D EXCEED 500 300 500 80 TO TO TO 499 799 11 | ER CFM RANGE fpm) 00 1200 1500 0 TO TO 99 1499 199 | E S RETURN 1 (NOT TO) 50 50 150 25 TO TO TO 9 149 249 39 | NECK SIZE PER CFM RANGE EXCEED 675 fpm) 0 400 600 800 1100 1200 0 TO TO TO TO TO TO 9 599 799 1099 1199 2399 | | S MANUFACTU STALL PER M SED ON A.R. | IRED BY "LG ELEC MANUFACTURER'S R . CERTIFIED COIL : -4104 FER 1244 | TRONICS" ECOMMEN SELECTIO | NDATIONS | PR PR LIF DE CO | OVIDE MOUNTING HARD EMIUM CONTROLLER/TH E PLASMA FILTER KIT, CORATIVE CEILING COVE NDENSATE PUMP (FOR OVIDE FLOOR MOUNTED | WARE, D ERMOST VIBRATIC CR, INLE CASSET O CONDE | AT, DR AT, DR N ISO T GRIL TE UN | NECT S Y CONT LATORS LE KIT, ITS). PUMP | WITCH ACTS , SPAC DRAFT | AND HARDWIRED REMOTE WALL MOUNTED FOR BACNet BMS CONTROLS, ULTRA LONG ER FOR CEILING HEIGHT ADJUSTMENT, AIR FLOW CONTROLS, INTEGRAL GIANT MODEL VCL-24ULS, 1/18HP. |

S INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.

PROVIDE DISCONNECT SWITCH FOR EACH MODULE, ROOF CURB EQUIPMENT SUPPORT RAILS, OIL TRAPS, FRAME CONNECTOR WHERE REQUIRED, AIR GUIDE, LOW AMBIENT BAFFLE KIT, BASE PAN HEATER, PIPING AND ASSOCIATED APPURTENANCES. UNIT SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

UNITS MUST HAVE BACNET COMMUNICATIONS TIED INTO BMS SYSTÉM CONTROLS. COMMUNICATION CONTROL KIT REQUIRES 208/1/60 POWER REQUIREMENTS

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| | | | | | | | | | | SCH | EDULE | OF EX | (ISTIN | G A | IR HA | NDLI | ING | UNIT | T | | | | | | | | | | | | | |
|---|--|--|---|--|--|--|-------------------------------|--|---|--|--|--|--|---|---|--|--------------------------------------|--------------------------------------|--------------------------------------|---|-------------------------|---|---------------------|---------------------------------|--|---------------------------------------|---------------------|--|--|--|--|---|
| <u> </u> | | GENERAL | DATA | | | FAN | DATA | | 70-1 | HEATING | DATA 3 | | CO | OLING | DATA | 3 | | CONDE | ENSING | UNIT | | FILTER D | DATA | PHYSIC | AL DAT | 4 <u>/</u> | ELEC1 | TRICAL I | DATA | ļ | | |
| MARK | SERVICE | MODEL | NUMBER | OAI MAX., | CFM /MIN. CFM | EXT. S.F IN H ₂ O | P. FAN RPM | MOTOR HP | TOTAL CAP. MBH | ENT. AIR TEMP. DB °F | LVG. AIR TEMP. DB [•] F | TOTAL CAP. MBH | SENSIBLE MBH | CAP. ENT. L | . AIR TEMP. DB/WB °F | LVG. AIR T. DB/WB | EMP. *F | MARK | SEF | RVICE | QTY. | SIZE (IN.) | TYPE | WEIGHT (LBS.) | LxWxH (IN.) | FLA | МСА | A MOP | SERVICE | · | REMARKS | |
| AHUT EXIST A | UXILIARY G | ΥM | - | 4500 | 1800 4500 | 1.0 | - | - | 205 | 40 | 110 | 170 | 120 | | 78/65 | 55/54 | | | AUXILI | ARY GYM | _ | - | MERV 13 | - | - | _ | - | - | 208/3/60 | | REFER TO | |
| ATTOZ EXIST A | IUXILIARY G | ΥM | _ | 4300 | 1800 4500 | 1.0 | - | - | 205 | 40 | 110 | 170 | 120 | | 78/65 | 55/54 | | | AUXILI | ARY GYM | _ | _ | MERV 13 | - | _ | - | - | | 208/3/60 | | 00 | |
| | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | |
| N (1) O (2) T (3) S (4) | AS MANUF REFURBISI DESIGN AII BASED ON SEER 12.0 | ACTURED BY I IN ACCORDA CONDITIONS A.R.I. CERTIF | "CARRIER". ANCE WITH MA : SUMMER: OA IED COIL SELE | ANUFACT A (94°F/ ECTIONS) | URER'S DIRECTIO 75°F) RA (77°F/ REFRIGERANT I |)NS. '65°F); WIN R—410A, | ITER: OA | A (5°F∕3°F) R, | A (70°F/55°F) | 5 REFURBISH WITH MERV COILS IN I CONNECTIN | I EXISTING UNITS / 13 FILTERS, AIR EACH OF THE FOU IG REFRIGERANT F | TO INCLUDE S BALANCING O JR DISTRIBUTIO PIPING AND CO | TEAM CLEANI F EXISTING F N MAINS, INS NTROLS FOR | NG OF EX ANS AND STALL VRF ASSOCIATI | AISTING UNIT AIR OUTLETS TYPE COND ED DX COILS | COILS, REP 5, PROVIDE ENSING UNI 5. | LACEMENT NEW DUC TS ON RO | T OF ALL F CT MOUNTED OOF WITH | FILTERS D DX | | | | | | | | | | | | | |
| EAT | ER | | | | | SCH | IED | DULE | OF (| CONVE | CTORS | | | | | | SCH | HEDL | JLE | OF | DU | ICT I | MOUN | ITED | HE. | 4 <i>T/</i> / | IG | COL | 'S | | | |
| PHYS LxWx | SICAL D H WE | ATA GHT (LBS) | REMARK | (S | MARK N | IODEL Io. () | MBH | GPM | PF | HYSICAL DA | TA WEIGHT REN | IARKS | | GE | NERAL DA | TA | | | SIZE | | | | A | R SIDE | | | EAT | | WATE | R SIDE | OP REI | MARKS |
| | | | REFER T | TO 4 | CONV | SF–A | 3.5 | 1.0 | 4" | 36" 26" | 50 RE | FER TO | MARK | BUILDI | ING SE | RVICE | (IN.) II | INCHES | (FT^2) | ROWS ' '' | NCH 12 | CFM 6600 | MBH 435 | т КЕЗЗ D ("WC, 0.2" МА | $\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $ | MAX. | <u>.</u> | <u>с.</u> д.,т. F 70 | (GPM) STEAM | Δ HEAD (| T) (REFER TO | 000 |
| | | | | | | SF–A | 8.0 | 2.0 | 6" | 48" 32" | 75 (| 23 | | HIGH SCH | HOOL | RU 2 | - | - | | | | 6600 | 435 | | | | | | STEAM | | | |
| | | | | | CONV | SF–A | 11.0 | 2.0 | 6" | 64" 32" | 100 (| 23 | $\frac{HC}{3}$ | HIGH SCH | HOOL | RU 3 | - | - | _ | | | 600 | 36 | | | | | | STEAM | | | |
| | | | | | $ \begin{array}{c c} N & (1) \\ O & (2) \\ T & (2) \\ F & (3) \\ C \\ \end{array} $ | S MANUFAC STALL PER APACITIES A | CTURED R MANU BASED | BY "STERLIN IFACTURER'S ON 150° A.W | IG". RECOMMENDA '.T. | TIONS | | | $ \begin{array}{c} HC \\ 4 \\ \hline 5 \\ \hline HC \\ 5 \end{array} $ | HIGH SCH | | RU 4 5 RU | - | - | - | | | 400 200 | 27 14 | | | | | | 3.0 2.0 | | | |
| - ^ | | | | | S | | | | | | | | 6 (HC) 7 | MIDDLE S | CHOOL | RU3 | - | - | - | | | 6000 8000 | 528 | | | | | | 40.0 53.0 | | | |
| AIL | KS [.] | | | | | | | | TYDA | | ΤΛΝΙΖ | | | HIGH SCH | | RU 8 | - | | _ | | | 1500 | 99 | | | | | | 10.0 | 1 | 1 | |
| (IN) | WEIGHT | (LBS) | REMARKS | | | MODEL | | TANK VOLU | ME ACC | | RENADUC | | | HIGH SCI | HOOL | RU 9 | - | - | - | | | 400 | 27 | | | | | | 3.0 | | | |
| 43Wx25Lx1 | 10H 12 | 5 | REFER TO | | INITI I IT | Nº 0 R_400 | | GALS. | VOL | UME GALS. | | 3 | (HC) | MIDDLE S | сноог | 11 | - | - | - | ↓ I | V | 400 | 27 | • | | | V | ł | 3.0 | | | |
| 4 <i>3Wx25Lx1</i> WAWAY FILT | TOH 12 TERS, DISCO | 5 NNECT SWITC | 234 H. TWO ROW | COIL, | | <i>B</i> -400 | | 100 | | 100 | REFER TO 2 | | | ENTERING PROVIDE IN | WATER TEMP | ERATURE 1 | 80°F, 20°F | F ΔT. ACCESS D | DOOR ON | LIPSTFAM SI | DF OF | COII | | | | | | | | | | |
| IOSTAT/FAN OPTIONAL D CONTRO SEALS. | N CONTROLS COLOR/FIN DL SWITCH F | SH SELECTRONIC SH SELECTED IELD MOUNTE | ALLY COMMUT BY ARCHITEC D, RECESSED | ATED CT, TRIM | N O T Z S VEF | MANUFACT TALL PER RTICAL MOL | URED B MANUFA JNTING | 3Y "BELL & G ACTURER'S RE 125PSI ASME | SOSSETT". COMMENDATIC TANK, DIMEN | NS. SIONS 24"*x65"H | ' / 1200LBS. | | E J | HE HOT W ERCENT O ITAKE DAM | VATER COIL I DF OCCUPANG MPERS ON A | S SIZED TO CY WITHOUT "DESIGN H |) HANDLE HAVING IEATING D | E OUTDOOR TO RESOR DAY" TO PR | R AIR QUA RT TO CLO REVENT FF | ANTITIES AT 1 DSING OUTDO REEZE-UP. | 00 OR AIR | | | | | | | | | | | |
| | | | SC | CHE | DULE | OF | BC | DILER | S | | | | | | | | | SCH | EDL | JLE (|)F | EXIS | STING | ST | EAM | BO | ILE | RS | | | | |
| BC | DILER DA | TA MODEL | BURN INPUT | IER D. OUTPU | ATA E | | CAL | PHYSIC/ (IN) | AL DATA WEIGHT (L | BS) | REMARKS | | MARK | ERVICE | BOILER DATA MODEL | A NUMBER (| OF MOL | DDEL OU | JTPUT OU | ITPUT BOIL | JRNEI ER FI | R DATA IRING RATE | FIRING_RATE | E BURNE | R OIL | PUMP | INDUCE MODE | ED DRAFT | FAN DATA 10TOR | ļ | PEMARKS | |
| BB | BOILER ROO | Nº () ENDURA | (MBH) 1000 | (MBH) 902 | GAS 120 | 1/1/60 | 20 | 28Wx51Lx68 | H 2000 | REFE | R TO 2345 | 6 | BOILER OR | IG.BLDG. | <u>№</u> ① 6500 | SECTION: 21 | <u>S</u> № C7-G | 2 ② (E GO-30 .3 | BHP) (MB) 325 84 | 3H/HR) EFFICIL 4.6.3 8.3 | ENCY 7% | OIL (GPH) 92 | GAS (MBH) — | MOTOR 7 1/. | <u>HP MOT</u> |) <u>R HP</u> /4 | № (24C.30 | 3))/) - , 3 | HP 3 | 1 | | |
| AS MAI BURNE INSTALI BOILER BOILER UNDERI BE FUL GAS FII THE BO | NUFACTUREI R INTEGRAL L PER MANI R INSTALLATI WRITER, NFI LLY FIELD C RED (LPG C OILERS SHA | BY "FULTON TO BOILER. JFACTURER'S ON SHALL CO PA AND ALL A OMMISSIONED OR NG). IF TH L BE FULLY | I". RECOMMENDAT NFORM TO AL AUTHORITIES H. BY AUTHORIZ HE TYPE OF G RE-COMMISSI | TIONS. LL REQU IAVING J ZED TEC GAS IS C ONED B | IREMENTS OF IN URISDICTION. BC HNICIAN FOR TH CHANGED AFTER Y AUTHORIZED 1 | ISURANCE DILERS SHA E TYPE OF STARTUP TECHNICIAN | | PROVIDE MAN EXHAUST VEN LIMIT CONTRO TEMPERATURE NEUTRALIZER AL-29-4C C LAG CONTROI START/STOP HOT WATER E | UFACTURER F IT PIPING, VE DL, DUAL LOW E SENSOR KIT PACKAGE. VE R 316L, BAC SIGNAL, VENT BASED ON 14 | RECOMMENDED CONT NT PIPE CONDEN WATER CUT OFI , MULTIPLE BOIL NT PIPING PER NET CONTROLS, D ISOLATION VAL LESS GAS TRAIN 0°F E.W.T., 160°F | OMBUSTION AIR IN ISATE DRAIN, HIGH FS, OUTDOOR AIR ER CONDENSATE THIS MANUFACTUR DISCONNECT SWIT VES, BOILER PUMI MODSYNC CONTR F L.W.T. | ITAKE AND I/LOW CH, LEAD ROL PANEL. | BOILER #2 BOILER #3 O O T E S | AS MANU AS MANU AS MANU | JFACTURED E JFACTURED E JFACTURED E | BY "H.B. SM BY "POWERF BY "AUBURN | ЛІТН". ⁻ LAME". \". | ↓ | | • • | | • | • | | | ↓ ▼ | • | | • | | | |
| | | SC | HEDU | ΊLΕ | OF F | PUMP | PS | | | | | | | | | | SCHE | EDULE | OFN | AINIMUI | / VE | NTILA | TION RC | OOM F | LOW F | ATES | • | | | | | |
| OCATION ECHANICAL | MODEL Nº ① SERIES E-15 5GB | GPM , | HEAD FT.H₂O RPN 80 180 | И М HH | 0TOR ELECTR P/BHP SERVIC 0/21 460/3 | PIC F E 760 25Wx | PHYSICAI (IN) :56L×30 | L DATA WEIGHT (Li DH 1100 | 3S) REF | REMARKS TER TO 23 | ROOMI | NAME/NUMBER | OCCUPANCY | CATEGORY | A ROOM AF (SQ.FT. | REA PE) (1 | B EOPLE DEN #P/1000 SQ. | NSITY Q.FT.) | C PEOPLE OUT FLOW I (CFM/PE | TDOOR AIR RATE ERSON) | REA OL RATE IN (C | D JTDOOR AIR F BREATHING Z CFM/SQ.FT.) | CLOW CONE EXHAUS | E ST AIR FLOW CFM/SQ.FT.) | RATE N | F JMBER OF PEOPLE B)÷1000=#H | OU RAT E P | G TDOOR AIR I TE WITHOUT FFECTIVENI FACTOR F×C)+(A×D)=(| ELOW ZO ZONE DISTI ESS EFFEC CFM FA | H NE AIR RIBUTION VEI TIVENESS ACTOR | I IMUM ROOM ITILATION AIR LOW RATE G÷H=CFM | MINIMUM EXHAUST AIR FLOW RATE A×E=CFM |
| CHANICAL | SERIES E-15 | 300 300 300 | 130 180 130 180 | 0 25 00 25 | /1/.5 | 21Wx 21W~ | :52Lx24 :521 x 24 | чН 900 чН 900 | REF | ER TO (23) | | H203 | CLASSROOM | (AGES 9+) | 743 | | 35 | | | 0 | | 0.12 | | 0 | | 27 | | 359 | | 0.8 | 449 | 0 |
| CHANICAL | 3AD SERIES E—8 4x4x9.5R | 0 200 | 20 117 | ro 2 | /1.5 | 12Wx | :25Lx29 | он 300 | REF | ER TO 23 | CONFE | RENCE ROOM | CONFERENC | E/MEETING | 377 | | 50 | | 5 | ; | | 0.06 | | 0 | | 19 | | 118 | | 0.8 | 147 | 0 |
| CHANICAL | - | 200 | 75 175 | 0 7 | .5/- | | _ | - | REF | ER TO (4) | | FFICE 112 | OFFICE S | SPACE | 99 105 | | 5 5 | | 5 | | | 0.06 | | 0 0 | | 1 | | 11 11 | | 0.8 | 14 14 | 0 0 |
| D BY "BEL | L & GOSSE | TT". | TIONS | | EXISTING PUMPS | SHALL BE | R PUMP | CTED, REFURE | BISHED TO EX | ISTING NOT | | UKSE 118 NLET 118A | OFFICE S | PUBLIC | 115 53 | | 5 2 FIXTURE | ES | 5 | | | 0.06 | 50 0 | 0 CFM/ FIXTUR | RE | - | | - | | 0.8 - | - | 0 100 |
| UMPS. PR | OVIDE ALL | SHALL BE W | ALL OR STAN | | PRIOR TO HEAT | EXCHANGE NCES. | | DLITION FOR | ASELINE OF | | | H204 SCHOOL GYM | GYM, SPOR | TS ARENA | 50 | | 90 | | 5 | | | 0.12 | | <i>v</i> | | 3 | | 21 | | 0.0 | 20 | v |
| | | - , , , , , , | | ¥ | | | ¥_ | _ | | V | | 131 H205 | (PLAY A | REA) | 6287 | | 7 | | 20 | U | | 0.18 | | 0.5 | | 45 | | 2032 | | 0.8 | 2540 | 3144 |
| JULE | | <u></u> ฏ | / VE/ | V/// | | > | | | | | | ING COMMONS 143 FICE 141A | MEDIA C | ENTER | 1996 253 | | 25 5 | | 10 | 0 | | 0.12 | | 0 0 | | 50 2 | | 740 25 | | 0.8 | 924 31 | 0 0 |
| ACITY GF | PM ROV | FILTE | R MOTOR I H.P. | ELEC. SERV. | MOTOR FLA MCA | МОР | PH" DIMEN | 'YSICAL DA ISION / WEIG | TA HT RE | MARKS | CLAS CLAS | SSROOM 136 SSROOM 138 | CLASSROOM | (AGES 9+) (AGES 9+) | 677 677 | | 35 35 | | 10 10 | 0 0 | | 0.12 | | 0 | | 24 24 | | 321 321 | | 0.8 0.8 | 402 402 | 0 |
| 76 | 5 2 | THROWAN | /AY_0.5 EA20 | 08/1/60 | 4.7 9.5 | 15 | 40"Lx35 | 5"Wx115"H/60 | DLBS RI | FER TO | | SSROOM 140 EACHER | CLASSROOM | (AGES 9+) | 677 | | 35 | | 10 | o o | | 0.12 | | 0 | | 24 27 | | 321 | | 0.8 | 402 451 | 0 |
| 76 | 5 2 | (2)12"x20 THROWAN | X2" /AY 0.5 EA20 | 08/1/60 | 4.7 14.4 | 20 | 47"Lx35 | 5"Wx115"H/60 | OLBS | <u>3(4)</u> 3(4) | | KROOM 145 H206 | GVM SDOOT | SADENA | 7.50 | | 50 | | 10 | - | | J.1 £ | | ~ | | -1 | | 501 | | | | ~ |
| 34 5 | 9 3 | (2)12"x20 THROWAW | XZ VAY 0.5 1 | 15/1/60 | 4.7 5.9 | 15 | 100"l ×? | 22"Wx30"H /75 | OLBS | <u> </u> | | 179 ARY GYM 177 | GYM, SPORT (PLAY A GYM, SPORT | REA) | 8987 5507 | | 7 | | 20 | o o | | 0.18 | | 0.5 | | 63 39 | _ | 2878 | | 0.8 | 3597 2214 | 4494 2754 |
| JDE ERV (I | ENERGY RE | COVERY WHEE | L) PACKAGE, | SOUND | PACKAGE, (5) U | NIT SHALL | INCLUD | DE HOT WATER | HEATING CO | L, FULL ADAPTE | | H207 | (PLAY A | REA) | | | / | | 20 | - | | 5.10 | | 5.0 | | | | ,,,,, | | | | 2107 |
| NG COIL, I IED SUPPL SECTIONS T | UX COIL FO Y PLENUM TO CEILING, | к FUTURE CO WITH MULTIPL MODULATING | NNECTION, 24 E REGISTERS, ECONOMIZER | + HIGH FIELD I (100% | ERECTED G | ACK WITH RILLE WITH ND BYPASS | PIPE TU I SCREE S DAMPE | UNNEL, INSULA EN, INSULATED ER, 2"MERV | OUTSIDE AIF 8 FILTERS. | AUKAGE, DISCHAI DAMPER, FACE | | AFETERIA H209 | UARETERIA/F DINII | AGI-FUUD NG | 4488 | | 100 | | 7.5 | 5 | | 0.18 | | 0 | | 449 | + | 4175 | | 0.8 | 5219 | 0 |
| RED EXHAU CNET CONT IT, 2" THIC | UST, FIELD TROLLER, IS CK MERV 13 | ERECTED REAL OLATION VALV FILTERS, SIE | R PLENUM SE ES, STRAINERS DE PIPE COVEI | CTIONS, S, PT P RS, FUL | FULL ORTS, L HEIGHT | | | | | | | SSROOM 221 SSROOM 223 | CLASSROOM CLASSROOM | (AGES 9+) (AGES 9+) | 691 691 | | 35 35 | | 10 | 0 | | 0.12 0.12 | | 0 0 | | 25 25 | | 333 333 | | 0.8 0.8 | 416 416 | 0 |
| DM UNIT TO PANELS, DR AND FIN | O WALL AND PIPE ENCLO NISH). | TOP/BOTTON SURES AND | I TRIM/COVE TRIM/COVE BA | BASE P ASE PIEC | ECES. CES SHALL | | | | | | CLAS CLAS | SSROOM 225 SSROOM 224 | CLASSROOM CLASSROOM | (AGES 9+) (AGES 9+) | 691 920 | | 35 35 | | 10 10 | 0 0 | | 0.12 0.12 | | 0 0 | | 25 33 | | 333 440 | | 0.8 0.8 | 416 551 | 0 0 |
| | · / · | | | | | | | | | | CLAS CLAS | SSROOM 226 SSROOM 218 | CLASSROOM CLASSROOM | (AGES 9+) (AGES 9+) | 716 1040 | | 35 35 | | 10 10 | 0 | | 0.12 0.12 | | 0 | | 26 37 | | 346 495 | | 0.8 0.8 | 432 619 | 0 |
| | \wedge | \wedge | \wedge | | ∧ ∧ | | \wedge | <u> </u> | | | | SROOM 220 SROOM 222 | CLASSROOM CLASSROOM | (AGES 9+) (AGES 9+) | 1030 908 | | 35 35 | | 10 10 | 0 | | 0.12 0.12 | | 0 0 | | 37 32 | | 494 429 | | 0.8 0.8 | 617 536 | 0 0 |
| | | | | | | \smile | | | | \smile | 0 | H210 FFICE 239 | OFFICE S | SPACE | 870 | | 5 | | 5 | | | 0.06 | | 0 | | 5 | | 77 | | 0.8 | 97 | 0 |
| | | | | | | | | | | | | H211 | OFFICES | BPACE | 870 | | 5 | | 5 | | | U.U6 | | U | | 5 | | 77 | | υ.8 | 97 | U |
| | | | | | | | | | | | LEARNI | NG STUDIO 310 NG STUDIO 312 | CLASSROOM | (AGES 9+) (AGES 9+) | 402 | | 35 | | 10 | 0 0 | | 0.12 | | 0 0 | | 15 15 | | 198 198 | | 0.8 | 248 248 | 0 0 |
| | | | | | | | | | | | LEARN | ING COMMONS SGR 315 | CLASSROOM | (AGES 9+) | 2240 105 | | 35 35 | | 10 | 0 | | 0.12 0.12 | | 0 | | 79 4 | | 1059 53 | | 0.8 | 1324 66 | 0 |

| | | | | | | | SCH | IEDULE | OF EX | ISTING A | AIR HA | NDLING | UNI | Τ | | | | | | | | | |
|--|---|---|--|---|---|--|--|---|---|---|---|--|--------------------------------------|---|---|---|--|---|---|---|---|--|--|
| | GEI | IERAL DATA | | FAN D | DATA | | HEATING | g data 🗿 | | COOLING | DATA | 34 | COND | ENSING UNIT | FILTER | DATA | PHYSICA | AL DATA | ELECTI | RICAL DAT | 74 | | |
| | MARK SERVICE M | DDEL NUMBER M. | AX./MIN. CF | TM IN H ₂ O | FAN MOTOR RPM HP | TOTAL CA MBH | AP. ENT. AIR TEMI DB *F | P. LVG. AIR TEMP. DB °F | TOTAL CAP. MBH | SENSIBLE CAP. EN MBH | IT. AIR TEMP.L DB/WB *F | .VG. AIR TEMP. DB/WB °F | MARK | SERVICE | QTY. SIZE (IN.) | TYP | E WEIGHT (LBS.) | L×W×H (IN.) FL | A MCA | MOP S | SERVICE | REMARKS | |
| | AHUT AUXILIARY GYM | 45 | 500 1800 450 500 450 | 00 1.0 | | 205 | 40 | 110 | 170 170 | 120 120 | 78/65 78/65 | 55/54 | | AUXILIARY GYM | | MERV | 13 – 13 – | | | - 20 |)8/3/60 08/3/60 | REFER TO 25 | |
| | EXIST FORILIAINT OTM | | 1800 400 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 200 | | 110 | 170 | 120 | /0/00 | | 12 | | | | 10 | | + | | | 05 | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | N (1) AS MANUFACTU O (2) REFURBISH IN T (3) DESIGN AIR COM | RED BY "CARRIER". ACCORDANCE WITH MANUF DITIONS: SUMMER: OA (9 | ACTURER'S DIREC 4°F/75°F) RA (77 | TIONS. 'F/65°F); WINT | ER: OA (5°F/3°F) | RA (70°F/55 | FILE STATES TO THE STATES T | SH EXISTING UNITS RV 13 FILTERS, AI EACH OF THE FO ING REFRIGERANT | TO INCLUDE ST R BALANCING OF DUR DISTRIBUTION PIPING AND COM | EAM CLEANING OF E EXISTING FANS AN MAINS, INSTALL VF ITROLS FOR ASSOCI | EXISTING UNIT C D AIR OUTLETS, RF TYPE CONDEI ATED DX COILS. | COILS, REPLACEMEN PROVIDE NEW DU NSING UNITS ON F | NT OF ALL JCT MOUNTE ROOF WITH | FILTERS ED DX | | | | | | | | | |
| | S (4) BASED ON A.R.I SEER 12.0, | CERTIFIED COIL SELECTI | ONS; REFRIGERAN | T R-410A, | | | | | | | | | | | | | | | | | | | |
| SCHEDULE OF UNIT F | IEATER | | | SCH | EDULE | OF | CONVE | CTORS | | | | SC | HED | ULE OF | DUCT | MO | UNTED | HEATI | NG | <u>COILS</u> | 5 | | |
| MARK MODEL CAPACITY DATA MOTOR ELECTRIC MARK No. ① BTU/HR EWT 'F LWT 'F GPM WATTS SERVICE | PHYSICAL DATA LxWxH WEIGHT | (LBS) REMARKS | MARK | MODEL No. 🛈 | MBH GPI | M D | L H | WEIGHT RE | MARKS | G MARK BUIL | DING SER | A RVICE WIDTH (IN) | HEIGHT F, | SIZE ACE AREA ROWS FIN | 'S PER NCH CFM | ME | AIR SIDE BH PRESS DR ("WC) | ROP VELOCITY FPM | E.A.T. *F | L.A.T. FLC | WATER SIL W RATE PR GPM) | DE SS DROP REMARKS IFAD (FT) | |
| UH A HS-18 11725 160 140 1.0 9 120/1/60 | | $\frac{1}{10000000000000000000000000000000000$ | | SF–A SF–A | 3.5 1.0 8.0 2.0 |) 4") 6" | 36" 26" 48" 32" | 50 ¹ | | HC 1 HIGH S | | | - | 2 | 12 KIMUM 6600 | 43 | 35 0.2" MA | X 600 MAX. | 10 | 70 5 | STEAM 5 | FT. MAX REFER TO O | 3 |
| N 1 AS MANUFACTURED BY "STERLING". | | | | SF–A | 11.0 2.0 |) 6" | 64" <i>32</i> " | 100 | 00 00 | HC HIGH S HC HIGH S | SCHOOL | $\frac{70}{2}$ - | - | - | 6600 | 43 | 6 | | +++ | S | STEAM STEAM | | _ |
| | | | N () | AS MANUFAC | TURED BY "STER | RLING". | | | | HC HIGH S | | RU - | - | - | 400 | 2. | 7 | | | | 3.0 | | |
| S (4) QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS. | | | | CAPACITIES B | MANUFACTURER BASED ON 150° , | A.W.T. | NDATIONS | | | HC 5 HIGH S | | | _ | - | 200 | 1. 39 | 4 96 | | ╉┿╉ | <u> </u> | 2.0 | | \neg |
| SCHEDINE OF CARINET UN | | | ∟ ך | | | | | | | HC 7 MIDDLE | SCHOOL | | _ | | 8000 | 52 | 28 | | | | 53.0 | | _ |
| MARK TYPE UNIT MODEL CAPACITY DATA O MOTOR MOTOR ELECTRIC | PHYSICAL DATA | REMARKS | SCH | IEDUL | E OF | EXP | ANSION | ' TANK | | HC HC | | | _ | - | 1500 | 9 | 9 | | + | | 10.0 | | \square |
| Image: Number of the service Image: Number of the service <t< td=""><td>(IN) WEIGHT (LBS 43Wx25Lx10H 125</td><td>REFER TO</td><td>MARK</td><td>MODEL N≗ O</td><td>TANK VO GALS</td><td>DLUME 5. V</td><td>ACCEPTANCE /OLUME GALS.</td><td>REMARKS</td><td>5</td><td>HIGH S (HC) 11 MIDDLE</td><td>SCHOOL</td><td></td><td>-</td><td>- - </td><td>400</td><td>2</td><td>/ / / / / / / / / / / / / / / / / / /</td><td></td><td>+++</td><td>+</td><td>3.0 3.0</td><td></td><td>\neg</td></t<> | (IN) WEIGHT (LBS 43Wx25Lx10H 125 | REFER TO | MARK | MODEL N≗ O | TANK VO GALS | DLUME 5. V | ACCEPTANCE /OLUME GALS. | REMARKS | 5 | HIGH S (HC) 11 MIDDLE | SCHOOL | | - | - - | 400 | 2 | / / / / / / / / / / / / / / / / / / / | | +++ | + | 3.0 3.0 | | \neg |
| CH RECESSED RW1120-03 21,900 265 3.0 0.77 1/15 1100 120/1/60 | 43Wx25Lx10H 125 | REFER TO 234 | ET | B-400 | 106 | | 106 | REFER TO 📿 |)3 | | G WATER TEMPE | ERATURE 180°F, 20 | 0°F <u></u> ДТ. | | <u>,</u> | | | Y | <u> </u> | | | | |
| N O AS MANUFACTURED BY "STERLING". O PROVIDE THROW O Q INSTALL PER MANUFACTURER'S RECOMMENDATIONS O REMOTE THER MOTOR (ECM) (ECM) (ECM) | WAWAY FILTERS, DISCONNEC MOSTAT/FAN CONTROLS, ELE OPTIONAL COLOR/FINISH S | F SWITCH, TWO ROW COIL CTRONICALLY COMMUTATE ELECTED BY ARCHITECT. | -, D | | | | | | | PROVIDE | INSPECTION AN | ND CLEANING DUC | T ACCESS L | DOOR ON UPSTEAM SIL | DE OF COIL. | | | | | | | | |
| E CAPACITIES BASED ON LOW SPEED FAN SETTING AND HW 160°F/140°F S SECTION AND | ED CONTROL SWITCH FIELD SEALS. | MOUNTED, RECESSED TRI | | AS MANUFACTU | IRED BY "BELL & | & GOSSETT". | ATIONS | | | S S THE HOT PERCENT INTAKE D | OF OCCUPANCY AMPERS ON A | Y WITHOUT HAVING "DESIGN HEATING | G TO RESOF DAY" TO P | RT TO CLOSING OUTDO REVENT FREEZE-UP. | OR AIR | | | | | | | | |
| | | | | INSTALL FER N IERTICAL MOUI | NTING 125PSI AS | ME TANK, DIN | MENSIONS 24"*x65' | "H / 1200LBS. | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | SCH | IEDULE | - OF | BOILE | RS | | | | | | | SCH | IEDULE (| OF EXI | ISTIN | VG STE | EAM B | OILE | RS | | | |
| | BOILER DATA | BURNER | DATA | ELECTRICA | AL PHYS | ICAL DAT | TA | REMARKS | | | BOILER DATA | | | | JRNER DATA | | | | INDUCEL |) DRAFT FAN | DATA | | _ |
| | MARK LOCATION | NDEL INPOTOC 0 (MBH) (M | BH) FUEL | SERVICE M | ICA (IN) | WEIGHT | - (LBS) | | | MARK SERVICE | MODEL Nº ① 6.500 | SECTIONS N | 10DEL 00 1º ② (| (BHP) (MBH/HR) EFFICI | ER FIRING RAT | I <u>E</u> FIRING I <u>)</u> GAS (I | MBH) MOTOR H | HP MOTOR HP | MODEL Nº ③ | , MOTO , HP | , | REMARKS | $ \rightarrow $ |
| | AS MANUFACTURED BY | 1000 1000 9 | 02 GAS | 120/1/60 2 | 20 28Wx51Lx0 | 68H 20 MANUFACTURE | R RECOMMENDED | COMBUSTION AIR I | NTAKE AND | #1 & ADDITION BOILER #2 | V -S-21 | 21 C7- | -GO-30 | 325 8463 83. | /% 92 | - | - (208/3/0 | 60) (208/3/60 |) 24C30D | -3 (208/3 | 3/60) | | _ |
| ŎŢ | BURNER INTEGRAL TO E | OILER. | | | EXHAUST LIMIT CON TEMPERATI | VENT PIPING, TROL, DUAL L URE SENSOR | VENT PIPE CONDE LOW WATER CUT O KIT, MULTIPLE BO | ENSATE DRAIN, HIG DFFS, OUTDOOR AIR DILER CONDENSATE | SH/LOW R | BOILER #3 | | t l | • | | | | , , | | | | | | |
| ร | INSTALL PER MANUFACT BOILER INSTALLATION S INDERIMPTER MEDA AND | JRER'S RECOMMENDATION | S. EQUIREMENTS OF | | AL-29-40 LAG CONT | C OR 316L, E ROLS, MOTOR | BACNET CONTROLS, RIZED ISOLATION VA | ALVES, BOILER PUN | TCH, LEAD MP IROL PANFL | N () AS MAI | NUFACTURED BY | Y "H.B. SMITH". | | | | | | | | | | | |
| | BE FULLY FIELD COMMI GAS FIRED (LPG OR NO THE BOILERS SHALL BE | SIONED BY AUTHORIZED SIONED BY AUTHORIZED). IF THE TYPE OF GAS FULLY RE-COMMISSIONE | TECHNICIAN FOR IS CHANGED AFTE D BY AUTHORIZEI | THE TYPE OF R STARTUP TECHNICIAN. | O HOT WATE | R BASED ON | 140°F E.W.T., 160 | D'F L.W.T. | | E 3 AS MAI | NUFACTURED BY | Y "AUBURN". | | | | | | | | | | | |
| | | | | | | | | | | • | | | | | | | | | | | | | |
| | 1005 | SCHEDUL | E OF | | PS | | | | | | A | | IEDULE | <u>c OF MINIMUI</u> د | / VENTIL/ | ATION | ROOM FL | OW RATE | <u>:S</u> | G | н | 1 | = |
| MARK SERVICE | .OCATION Nº O | GPM FT.H20 RPM | MOTOR ELEC HP/BHP SER | IRIC Pr ICE (| IN) WEIGHT | (LBS) | REMARKS | ROOM | NAM F/NI IM BER | | | | | | REA OUTDOOR AII | | XHAUST AIR FLOW F | | | DOOR AIR FLOV | V ZONE AIF | | UM UST |
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| HWP HWP HEATING | 3AD | | 25/17.5 | 21Wx5 | 52Lx24H 900 | 0 | REFER TO (2 X 3) | | | OCCUPANCY CATEGO | RY (SQ.FT.) | EA PEOPLE DI (#P/1000 S | ENSITY SQ.FT.) | FLOW RATE (CFM/PERSON) | RATE IN BREATHIN (CFM/SQ.FT.) | G ZONE | (CFM/SQ.FT.) | RATE NUMBER PEOPLI (A×B)÷1000 | OF RATE E EF)=#P (F×i | E WITHOUT ZON FECTIVENESS FACTOR C)+(A×D)=CFM | DISTRIBUTI EFFECTIVEN FACTOR | N VENTILATION AIR SS FLOW RATE G+H=CFM A×E=C | LOW FE SFM |
| | ECHANICAL SERIES E-1510 3AD | 300 130 1800 | 25/17.5 25/17.5 | 21Wx5 21Wx5 | 52Lx24H 900 52Lx24H 900 | 0 . 0 . | REFER TO (2)(3) REFER TO (2)(3) | | H203 ASSROOM 191 | OCCUPANCY CATEGO CLASSROOM (AGES 9 | RY (SQ.FT.) (SQ.FT.) | EA PEOPLE DI (#P/1000 S | ENSITY SQ.FT.) | FLOW RATE (CFM/PERSON) 10 | RATE IN BREATHIN (CFM/SQ.FT.) 0.12 | G ZONE | (CFM/SQ.FT.) 0 | RATE NUMBER PEOPLI (A×B)÷1000 | OF RATI E EF)=#P (F× | E WITHOUT ZON FECTIVENESS FACTOR C)+(A×D)=CFM 359 | DISTRIBUTI EFFECTIVEN FACTOR | N VENTILATION AIR SS FLOW RATE G÷H=CFM A×E=C 449 0 | LOW TE DFM |
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PROV T EXCHANCES. | 52L×24H 900 52L×24H 900 52L×29H 300 - - INSPECTED, REFU PUMPS AS REQ VIDE INITIAL WATE DEMOLITION FOR PHYSICAL DIMENSION / W 50"L×35"W×115"H/ 7"L×35"W×115"H/ 100"L×22"W×30"H/ NCLUDE HOT WATE SCREEN, INSULAT DAMPER, 2" MEI | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | REFER TO 23 REFER TO 23 REFER TO 23 REFER TO 23 REFER TO 4 EXISTING REPORT EXISTING REPORT EXISTING REFER TO 34 34 34 34 34 34 34 34 34 34 | CLA CONF CONF CONF CONF CONF CONF CONF CONF | H203 ASSROOM 191 ERENCE ROOM 102 DFFICE 112 DFFICE 116 NURSE 118 OILET 118A ROOM 143I H204 E SCHOOL GYM 131 H205 NING COMMONS 143 OFFICE 141A ASSROOM 136 ASSROOM 140 TEACHER RKROOM 145 H206 I SCHOOL GYM 179 LARY GYM 177 H207 CAFETERIA H209 ASSROOM 221 ASSROOM 223 ASSROOM 224 ASSROOM 225 ASSROOM 224 ASSROOM 226 ASSROOM 220 ASSROOM 220 | OCCUPANCY CATEGO OCCUPANCY CATEGO CLASSROOM (AGES 9 CONFERENCE/MEETIN OFFICE SPACE OFFICE SPACE OFFICE SPACE TOILETS - PUBLIC BREAK ROOMS GYM, SPORTS AREN/ (PLAY AREA) CLASSROOM (AGES 9 CLASSROOM (AGES 9 CLASS | RY ROOM ARE (SQ.FT.) +) 743 /G 377 99 105 115 53 50 115 4 6287 1996 253 +) 677 +) 677 +) 677 +) 677 +) 677 +) 756 A 8987 A 5507 A 5507 A 691 +) 691 +) 691 +) 691 +) 908 | EA PEOPLE DI (#P/1000 S 35 50 50 50 51 50 50 50 50 50 50 70 70 70 70 70 70 70 70 70 70 70 70 70 | ENSITY SQ.FT.) | FLOW RATE (CFM/PERSON) I 10 5 5 5 5 5 5 1 20 1 10 1 20 1 10 1 | RATE IN BREATHING (CFM/SQ.FT.) 0.12 0.06 0.06 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.13 0.14 0.15 0.16 0.172 0.18 0.18 0.18 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 | | (CFM/SQ.FT.) 0 0 0 0 0 0 50 CFM/ FIXTURE 0 0 0 0 0 0 0 0 0 0 0 0 0 | NUMBER PEOPLI (A×B)+1000 27 19 11 1 | | E WITHOUT ZON FECTIVENESS FACTOR C)+(A×D)=CFM 359 118 11 11 12 - 21 2032 740 25 321 321 321 321 321 321 321 321 | VE DISTRIBUTI EFFECTIVEN FACTOR 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 | N VENTILATION AIR FLOW RATE G+H=CFM EARAG AIR FLO RATI $A\timesE=C$ 149 0 147 0 14 0 14 0 14 0 14 0 14 0 14 0 15 0 26 0 2540 3144 924 0 31 0 402 0 402 0 416 0 3597 4494 2214 2754 416 0 416 0 416 0 416 0 551 0 619 0 617 0 | |
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| Image: State of the state | ECHANICAL SERIES E-1510 3AD ECHANICAL SERIES E-80 4x4x9.5B ECHANICAL - ECHANOCAL - ECHANOCAL - SERIES E-80 - PUMPS PROVIDE ALL MOUNT PACITY GPM ROWS 76 5 2 78 9 3 9 3 | 300 130 1800 200 20 1170 200 75 1750 MMENDATIONS. INIT VENT INIT VENT INIT VENT INIT VENT INIT VENT FILTER MOTOR FLE TYPE MOTOR FLE HROWAWAY 0.5 6.5 12"x20"x2" 0.5 6.4 12"x20"x2" 0.5 6.4 HROWAWAY 0.5 115/1 Y WHEEL) PACKAGE, SOL 10 ED REAR PLENUM SECTION 24" H MULTIPLE REGISTERS, FIE 11 ILATING ECONOMIZER (10 10 ED REAR PLENUM SECTION 10 N VALVES, STRAINERS, F 10 S AND TRIM/COVE BASE 3 | 25/17.5 25/17.5 2/1.5 2/1.5 7.5/- EXISTING PUM DESIGN CONDI OPERATING PF PRIOR TO HEA PRIOR | 21Wx5 21Wx5 12Wx2 12Wx2 PS SHALL BE TIONS. REPAIR OPERLY. PROV T EXCHANCER COPERLY. PROV T EXCHANCER MOP 15 16 17 17 18 19 10 10 11 12 13 14 15 15 16 17 18 19 10 10 115 12 13 14 15 15 16 17< | 52L×24H 900 52L×24H 900 52L×29H 300 INSPECTED, REFU PUMPS AS REQ VIDE INITIAL WATE DEMOLITION FOR 20"L×35"W×115"H/ 50"L×35"W×115"H/ 100"L×22"W×30"H/ 100"L×35"H/ | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | REFER TO 23 REFER TO 23 REFER TO 23 REFER TO 23 REFER TO 23 REFER TO 4 EXISTING SREPORT EXISTING REPORT EXISTING COIL, FULL ADAPT E PACKAGE, DISCH AIR DAMPER, FACE S. | | H203 ASSROOM 191 ERENCE ROOM 102 DFFICE 112 DFFICE 116 NURSE 118 OILET 118A ROOM 143I H205 NING COMMONS 131 H205 NING COMMONS 143 DFFICE 141A ASSROOM 136 ASSROOM 140 TEACHER RKROOM 145 H206 VSCHOOL GYM 179 LARY GYM 177 H207 CAFETERIA H209 ASSROOM 221 ASSROOM 223 ASSROOM 224 ASSROOM 225 ASSROOM 226 ASSROOM 221 ASSROOM 222 ASSROOM 222 M209 ASSROOM 223 ASSROOM 224 ASSROOM 225 ASSROOM 226 ASSROOM 220 ASSROOM 222 H210 DFFICE 239 DFFICE 240 H211 | OCCUPANCY CATEGO CLASSROOM (AGES 9 CONFERENCE/MEETIN OFFICE SPACE OFFICE SPACE OFFICE SPACE TOILETS - PUBLIC BREAK ROOMS GYM, SPORTS AREN/ (PLAY AREA) MEDIA CENTER OFFICE SPACE CLASSROOM (AGES 9 CLASSROOM (AGE | RY ROOM ARE (SQ.FT.) +) 743 /G 377 99 105 115 53 0 115 105 115 105 115 105 115 105 115 107 6287 0 0 1996 253 +) 677 +) 677 +) 677 +) 677 +) 677 +) 677 +) 677 +) 691 +) 691 +) 691 +) 691 +) 691 +) 908 (+) 908 (+) 908 (+) 908 (+) 908 (+) 908 (+) 908 (+) 908 | EA PEOPLE DI (#P/1000 S 35 35 35 35 35 35 35 35 35 35 35 35 35 | ENSITY SQ.FT.) | FLOW RATE (CFM/PERSON) I 10 5 5 5 5 5 5 5 5 1 20 1 10 1 20 1 10 1 10 1 10 1 20 1 10 1 | RATE IN BREATHING (CFM/SQ.FT.) 0.12 0.06 0.06 0.06 0.06 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.18 0.112 0.12 <td< td=""><td></td><td>(CFM/SQ.FT.) 0 0 0 0 0 0 50 CFM/ FIXTURE 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>NUMBER PEOPLI (A×B)+1000 27 19 11 1</td><td></td><td>E WITHOUT ZON FECTIVENESS FACTOR C)+(A×D)=CFM 359 118 11 12 - 21 2032 740 25 321 321 321 321 321 321 361 2878 1771 4175 333 333 333 333 333 440 346 495 494 429 77 77 77 77</td><td>VE DISTRIBUTI EFFECTIVEN FACTOR 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8</td><td>N VENTILATION AIR FLOW RATE G+H=CFM EATRACA AIR FLO RATI A×E=C 449 0 147 0 147 0 147 0 147 0 147 0 147 0 147 0 148 0 149 0 147 0 148 0 149 0 147 0 140 14 924 0 311 0 402 0 402 0 402 0 402 0 402 0 402 0 402 0 402 0 402 0 402 0 402 0 402 0 403 0 5219 0 416 0 <td< td=""><td></td></td<></td></td<> | | (CFM/SQ.FT.) 0 0 0 0 0 0 50 CFM/ FIXTURE 0 0 0 0 0 0 0 0 0 0 0 0 0 | NUMBER PEOPLI (A×B)+1000 27 19 11 1 | | E WITHOUT ZON FECTIVENESS FACTOR C)+(A×D)=CFM 359 118 11 12 - 21 2032 740 25 321 321 321 321 321 321 361 2878 1771 4175 333 333 333 333 333 440 346 495 494 429 77 77 77 77 | VE DISTRIBUTI EFFECTIVEN FACTOR 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 | N VENTILATION AIR FLOW RATE G+H=CFM EATRACA AIR FLO RATI A×E=C 449 0 147 0 147 0 147 0 147 0 147 0 147 0 147 0 148 0 149 0 147 0 148 0 149 0 147 0 140 14 924 0 311 0 402 0 402 0 402 0 402 0 402 0 402 0 402 0 402 0 402 0 402 0 402 0 402 0 403 0 5219 0 416 0 <td< td=""><td></td></td<> | |
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|--|---|--|---|--|---|---|---|---|---|--|--|--|---|---|---|---|------------------|---|--|---|----------------------|---|--|
| | | G | ENERAL DATA | | | FAN D | ATA | | HEA | TING DATA | 3 | COOLING DA | ΤΑ | 3 4 ca | NDENSING UNIT | FILTER | DATA | PHYSICAL | DATA ELL | CTRICAL | DATA | | |
| | MARK | SERVICE | MODEL NUMBER | OAI CFN MAX./MI | I V. CFN | EXT. S.P. 1 IN H ₂ 0 | FAN MC RPM F | DTOR TO HP M | DTAL CAP. ENT. AIR MBH DB *F | TEMP. LVG. AIR TEN DB °F | MP. TOTAL CAP. MBH | SENSIBLE CAP. ENT. A. MBH DB, | R TEMP.LVG. A WB °F DB, | IR TEMP. /WB 'F MAR | K SERVICE | QTY. SIZE (IN.) | TYPE | WEIGHT L (LBS.) | L×W×H (IN.) FLA | MCA MOP | P SERVII | CE RE | MARKS |
| | AHUT EXIST AHUZ | AUXILIARY GYM | _ | 4500 18 4500 | 00 4500 4500 |) 1.0) 1.0 | _ | - 2 | 205 40 205 40 | 110 | 170 | 120 78 120 78 | /65 55 /65 55 | 5/54 CU 10 | AUXILIARY GYM | | MERV 13 | - | | | 208/3/ | /60 ^{Ri} | 25 25 |
| | EXIST | | | 18 | | , | | | 40 | | | .20 /0 | | 12 | | | | | | | | | 25 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | |) AS MANUFAC | TURED BY "CARRIER". | | | ONE | | | 5 REF WIT | URBISH EXISTING UN H MERV 13 FILTERS, S IN FACH OF THF | NITS TO INCLUDE ST , AIR BALANCING OF FOUR DISTRIBUTION | EAM CLEANING OF EXIST EXISTING FANS AND AIF MAINS INSTALL VRF TY | NG UNIT COILS, OUTLETS, PROV 25 CONDENSING | REPLACEMENT OF /IDE NEW DUCT MO UNITS ON ROOF V | ALL FILTERS UNTED DX /ITH | | | | | | | | |
| | T E |) DESIGN AIR (| CONDITIONS: SUMMER: (| ANOFACTOREF A (94°F/75°F | RA (77°F | /65°F); WINT | ER: OA (5° | °F/3°F) RA (| CON CON (70°F/55°F). | INECTING REFRIGERAN | NT PIPING AND CON | TROLS FOR ASSOCIATED | DX COILS. | | | | | | | | | | |
| | S (4 |) BASED ON A.F SEER 12.0, | R.I. CERTIFIED COIL SE | ECTIONS; RE | RIGERANT | R-410A, | | | | | | | | | | | | | | | | | |
| | | | | | | <u> </u> | | | | | | | | | | | | | | | | | |
| SCHEDULE OF UNIT F | | ER YSICAL DAT | | | | SCH MODEL | | | DF CON | DATA | S | GENE | RAL DATA | SCHE | SIZE | | MOUI | NIED AIR SIDE | HEATING | | LS WA | TFR SIDF | |
| MARK No. (1) BTU/HR EWT °F LWT °F GPM WATTS SERVICE UH HS-18 11725 160 140 1.0 9 120/1/60 | L×W | <u>xh WEIGh</u> | HT (LBS) REFER | το Το | | Vo. () SE-A | MBH .3.5 | 1 0 | D L 4" .36" | H WEIGHT ^r | REFER TO | MARK BUILDING | SERVICE | WIDTH HEIGH (IN.) INCHE | T FACE AREA ROWS | FINS PER INCH CFM | MBH | PRESS DRO ("WC) | P VELOCITY E.A. FPM F | Т. L.А.Т. •F | FLOW R, (GPM) | ATE PRESS DRO Δ HEAD (FT | REMARKS |
| | | <u> </u> | | | | SF-A | 8.0 | 2.0 | 6" 48" | <i>32</i> " 75 | <u>2</u> 3 | HC HIGH SCHOOL | | | | 12 6600 MAXIMUM 6600 | 435 435 | 0.2" MAX | 600 MAX. 10 | , 70 | STEAM STEAI | 1 5 FT. MAX | REFER TO () () () |
| N | | | | | | SF–A | 11.0 | 2.0 | 6" 64" | 32" 100 | 03 | HC HC HIGH SCHOO | $\frac{1}{2}$ | | _ | 600 | 36 | | | | STEAN | 1 | |
| T = 3 CAPACITIES BASED ON HIGH SPEED FAN SETTING AND HW 160°F/140°F S 4 QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS. | | | | | | S MANUFACT | URED BY MANUFACI | "STERLING" TURER'S RE | ". COMMENDATIONS | | | (HC) HIGH SCHOOL | $L \qquad \underbrace{ERU}_{4}$ | | - | 400 | 27 | | | | 3.0 | | |
| 3 0 | | | | | Γ Ε S | APACITIES B | ASED ON | 150° A.W.T. | | | | (HC) HIGH SCHOOL HIGH SCHOOL | $\frac{1}{2} \qquad \frac{1}{5}$ | | - | 200 6000 | 14 396 | | | | 2.0 40.0 | | <u> </u> |
| SCHEDULE OF CARINFT HE | ATF | RS | | L | | | | | | | | HC 7 MIDDLE SCH | OL ERUS EXIST | | | 8000 | 528 | | | | 53.0 | | |
| MARK TYPE UNIT MODEL CAPACITY DATA O MOTOR MOTOR ELECTRIC MARK TYPE UNIT MODEL CAPACITY DATA O MOTOR MOTOR ELECTRIC | PHYS | CAL DATA | REMARKS | | SCH | EDUL | E C | DF E. | XPANSIC | ON TANK | < | HIGH SCHOOL | L ERU B | | | 1500 | 99 27 | + | | | 10.0 | | |
| CH RECESSED RC1200-03 O 21,900 265 3.0 0.77 1/15 1100 120/1/60 | (11V) 43Wx25L | x10H 125 | REFER TO | | IARK | MODEL N≗ O | TAI | NK VOLUME GALS. | ACCEPTANCE VOLUME GALS | . REMARI | rks | HC HC 11 MIDDLE SCHO | - 9 OL <i>ERU</i> 11 | | | 400 | 27 | | | | 3.0 | | |
| CH RECESSED RW1120-03 21,900 265 3.0 0.77 1/15 1100 120/1/60 | 43Wx25L | ×10H 125 | REFER TO | | ET 1 | B-400 | | 106 | 106 | REFER TO | 23 | N () ENTERING WA | ER TEMPERATUR | RE 180°F, 20°F ∆T. | | - | | | | | | | |
| N (1) AS MANUFACTURED BY "STERLING". (4) PROVIDE THROW O (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS REMOTE THERM O (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS REMOTE THERM MOTOR (ECM) CONTRACTOR CONTRACTOR MOTOR (ECM) | DWAWAY FI MOSTAT/F. , OPTIONA | LTERS, DISCONN AN CONTROLS, E L COLOR/FINISH | IECT SWITCH, TWO ROW ELECTRONICALLY COMMI I SELECTED BY ARCHIT | COIL, TATED CT, | | | | | | | | Ť ② PROVIDE INSF E ③ THE HOT WAT | ECTION AND CLI R COIL IS SIZE | <i>EANING DUCT ACCE</i> | <i>SS DOOR ON UPSTEAM</i> DOOR AIR QUANTITIES A | <i>SIDE OF COIL</i> . T 100 | | | | | | | |
| E CAPACITIES BASED ON LOW SPEED FAN SETTING AND HW 1604/1404 SECTION AND | ED CONTF SEALS. | OL SWITCH FIELI | D MOUNTED, RECESSE | TRIM | V О () АЗ Г (2) IN | MANUFACTU STALL PER M | RED BY "E | BELL & GOS IRER'S RECC | SSETT". DMMENDATIONS. | | | 9 PERCENT OF INTAKE DAMPE | CCUPANCY WITH RS ON A "DESIG | HOUT HAVING TO R GN HEATING DAY" | ESORT TO CLOSING OU O PREVENT FREEZE-U | IDOOR AIR 2. | | | | | | | |
| | | | | | s 3 ve | RTICAL MOUI | ITING 125F | PSI ASME TA | ANK, DIMENSIONS 24 | "*x65"H / 1200LBS. | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | S | CHED | IJLE | OF | BOIL | LERS | | | | | | SC | CHEDULE | OF EXI | STINC | G STE | AM BOIL | ERS | | | |
| | E | OILER DATA | BUR MODEI INPUT | VER DATA OUTPUT | | ELECTRICA | L F | PHYSICAL | DATA | REMARKS | 5 | BC | LER DATA IODEL NUMB | BER OF MODEL | OUTPUT OUTPUT | BURNER DATA | F FIRING RA | TF RURNER | INL OIL PUMP | UCED DRAFT | FAN DATA | 1 | |
| | MARK | LOCATION | Nº (MBH) ENDURA 1000 | (MBH) | FUEL S | ERVICE M | CA 0 28W | (11) | 2000 | REEER TO 232 | | MARK SERVICE | <u>♀ ① SEC</u> 6500 | <u>TIONS</u> N [®] ② | (BHP) (MBH/HR)ER | FICIENCY <u>OIL (GPH)</u> | GAS (MBH | H) MOTOR HP 7 1/2 | <u>MOTOR HP</u> N | $\frac{2}{3}$ | HP 3 | | MARKS |
| N N | <u>1</u> AS M | ANUFACTURED E | 1000 ,000 BY "FULTON". | 002 | | 0, 1, 00 2 | | VIDE MANUF | FACTURER RECOMMEN | DED COMBUSTION AIR | IR INTAKE AND | #1 & ADDITION · BOILER #2 | -S-21 2 | | | | | (208/3/60 |)) (208/3/60) | | 208/3/60, | | |
| | BURNBURN | IER INTEGRAL TO | D BOILER. | | | | LIMI TEM NEU | T CONTROL, IPERATURE S JTRALIZER P | DUAL LOW WATER O SENSOR KIT, MULTIPL ACKAGE. VENT PIPINO | E BOILER CONDENSA PER THIS MANUFAC | AIR ATE CTURER | BOILER #3 | V | | | • • | V | V | V | | | | |
| S | | ER INSTALLATION ERWRITER, NFPA | SHALL CONFORM TO AND ALL AUTHORITIES | LL REQUIREM HAVING JURIS | ENTS OF I DICTION. B | NSURANCE OILERS SHAL | AL— LAG L STAF | -29-4C OR CONTROLS, RT/STOP SIG | 316L, BACNET CONT MOTORIZED ISOLATIO GNAL, VENTLESS GAS | ROLS, DISCONNECT S DN VALVES, BOILER F TRAIN, MODSYNC CO | SWITCH, LEAD PUMP ONTROL PANEL. | N O O O O O O O AS MANUFA | TURED BY "H.E TURED BY "PO | 3. SMITH". WERFLAME". | | | | | | | | | |
| | BE F GAS THE | JLLY FIELD COM FIRED (LPG OR BOILERS SHALL | IMISSIONED BY AUTHOR NG). IF THE TYPE OF BE FULLY RE-COMMIS | ZED TECHNIC GAS IS CHAN IONED BY AU | AN FOR T GED AFTER THORIZED | HE TYPE OF STARTUP TECHNICIAN. | 🙆 нот | WATER BAS | SED ON 140°F E.W.T. | , 160°F L.W.T. | | E 3 AS MANUFA | TURED BY "AU | BURN". | | | | | | | | | |
| | | | | | | | | | | | | | | SCHEDI | | IM VENTILA | | | W RATES | | | | |
| MARK SERVICE | | MODEL | | | | RIC PH | 'S IYSICAL L | DATA | DEMAD | /s | | | A | В | | | | E | F | G OUTDOOR AIR | | н | |
| HWP HWP HEATING | IECHANICAL | <u>N</u> ^Q ⑦ SERIES E−1510 | 800 80 1E | M HP/BH | P SERVI 460/3 | CE (1 1/60 25W×5 | N) Wi 6Lx30H | / <u>EIGHT(LBS</u> 1100 | REFER TO (2 | ROC | OM NAME/NUMBER | DCCUPANCY CATEGORY | ROOM AREA (SQ.FT.) | PEOPLE DENSITY (#P/1000 SQ.FT.) | PEOPLE OUTDOOR AII FLOW RATE (CFM/PERSON) | R AREA OUTDOOR AIR RATE IN BREATHING (CFM/SQ.FT.) | R FLOW S ZONE | UST AIR FLOW RA (CFM/SQ.FT.) | TE NUMBER OF PEOPLE (A×B)÷1000=#P | RATE WITHOUT EFFECTIVEN FACTOF | IT ZONE NESS B | ZONE AIR MININ ISTRIBUTION VENTI FECTIVENESS FLO | UM ROOM LATION AIR DW RATE RATE |
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| F | | 0.5- | GENER/ | AL DATA | OAL C.F. | M | F | FAN I | DATA P. FAN MI | DTOR | TOTAL CAP | HEATING | DATA 3 |) P. TOTAL CAP | COOLI P. SENSIBI F. CAP | ING DATA | LVG. AIR TFMP | CONE | DENSING UNIT | / | FILTER DAT | | PHYSICA WEIGHT | AL DATA | ELE | ECTRICAL D | ATA | REMARK | s |
| M. | ARK | SERVIC | GYM | _ NUMBER | MAX./MI | /N. | CFM | IN H ₂ 0 | RPM | 4P 1 | MBH 205 | DB °F | DB 'F | MBH 170 | MBH 120 | DB/WB 'F | DB/WB *F | MARK | SERVICE | QTY. | (IN.) | YPE | (LBS.) | | / | MCA MOP | SERVICE | REFER TO |) |
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| | 2 2 | REFURB | SH IN ACCOF | RDANCE WITH M | ANUFACTURE | R'S DIF | RECTIONS | 5. | | | | COILS IN E | / 13 FILTERS, AI EACH OF THE FO IG REFRIGERANT | IR BALANCING (DUR DISTRIBUTI(PIPING AND C | OF EXISTING FANS ON MAINS, INSTAL ONTROLS FOR ASS | AND AIR OUTLET L VRF TYPE CONE SOCIATED DX COIL | S, PROVIDE NEW DENSING UNITS O S. | DUCT MOUNT N ROOF WITH | ED DX | | | | | | | | | | |
| E | $\overline{3}$ | DESIGN BASED (| AIR CONDITIO | NS: SUMMER: O | A (94°F/75°F FCTIONS: RF | ^F) RA (| (77°F/65° RANT R-4 | •F); WIN 410A | ITER: OA (5 | °F/3°F) RA | (70°F/55°F) | | | | | | | | | | | | | | | | | | |
| | | SEER 12 | .0, | | , | | | | | | | | | | | | | | | | | | | | | | | | |
| ΗE | ATE | ER | | | | | S | SCH | IEDU | ΊLΕ | OF (| CONVE | CTORS | , | | | S | CHED | ULE OF | DU | CT M | DUNT | TED | HEATIN | ٧G | G COIL | S | | |
| RIC ICE | PHYS LxWxF | TCAL H N | DATA EIGHT (LBS | 5) REMARI | KS I | MARK | K MOL No. | DEL ① | MBH | GPM | PH D | HYSICAL DA L H | TA WEIGHT RE | MARKS | MARK | GENERAL DA | ATA ERVICE WIDTH | HEIGHT | SIZE FACE AREA ROWS FI | INS PER | CEM | AIR | SIDE RESS DR | ROP VELOCITY | E.A. | T. L.A.T. F | WATER | SIDE PRESS DROP | REMARKS |
| /60 | | | | REFER 123 | <i>™</i> | CONV | SF- | ⁻ A | 3.5 | 1.0 | 4" | 36" 26" | 50 R | REFER TO | | H SCHOOL | ERU (IN.) | INCHES – | (FT ²) 2 - 2 MINIMUM M. | INCH 12 AXIMUM | 6600 | 435 | ("WC) 0.2" MAX | FPM X 600 MAX. | •F 10 | °F 70 | (GPM) STEAM | Δ HEAD (FT) 5 FT. MAX REFE | r <i>TO</i> 000 |
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| | | | | | | <u>N</u> (| D AS M | IANUFAC | CTURED BY | "STERLING | - " | | | | HIG HC HIG | H SCHOOL | <u> </u> | - | - | | 600 400 | 36 27 | | | | | 3.0 | | |
| | | | | | | | 2) INSTA 3) CAPA | ALL PER | R MANUFAC BASED ON | TURER'S R 150° A.W. | RECOMMENDA T. | ATIONS | | | HC 5 HIG | H SCHOOL | <u>ERU</u> – | _ | - | | 200 | 14 | | | | | 2.0 | | |
| | - | | | | L | S | | | | | | | | | HIG <i>HC</i> <i>HC</i> <i>MID</i> | H SCHOOL | ERUJ ERUJ ERUST – | - | - | | 6000 8000 | 396 528 | | | | | 40.0 53.0 | | |
| HLA RIC | IEF PHYSICA | TS AL DATA | 1 | | — г | SC | CHF | DU | LF (|)F F | XPA | NSION | TANK | | HC 8 HIG | H SCHOOL | ERU - | - | - | | 1500 | 99 | | | | | 10.0 | | |
| CE | (IN) 'x251~11 | WEIGI | IT (LBS) | REFER TO | | MARK | | 10DEL 1º ∩ | | NK VOLUM GALS | IE ACC | CEPTANCE UME_GALS | REMARKS | 6 | HIC 9 HIG | | ERU – | - | - | | 400 | 27 | | | | | 3.0 | ├ ── │ ─ | |
| /60 43W | /x25Lx1(| он | 125 | <u>REFER TO</u> | - | $\left(\begin{array}{c} ET \\ 1 \end{array} \right)$ | B- | -400 | | 106 | , UL | 106 | REFER TO | 23 | | RING WATER TEM | PERATURE 180°F. | 20°F ΔТ. | | Y | TUU | ~ / | V | | | | 0.0 | | |
| THROWAW | 'AY FILTE AT/FAN | ERS, DIS CONTRO | CONNECT SWI | TCH, TWO ROW | COIL, TATED | | | | | | | | | | | IDE INSPECTION , | AND CLEANING D | UCT ACCESS | DOOR ON UPSTEAM S | SIDE OF (| COIL. | | | | | | | | |
| SPEED (AND SEA | CONTROL _S. | SWITCH | FIELD MOUN | ED BY ARCHITE TED, RECESSED | TRIM | | AS MA | ANUFACT | URED BY ' | BELL & GO | OSSETT". | | | | S I THE PERC INTAK | HOT WATER COIL ENT OF OCCUPAN E DAMPERS ON A | IS SIZED TO HAI NCY WITHOUT HAV A "DESIGN HEATII | NDLE OUTDOO 'ING TO RESO NG DAY" TO F | OR AIR QUANTITIES AT ORT TO CLOSING OUTD PREVENT FREEZE—UP. | 100 OOR AIR | | | | | | | | | |
| | | | | | | | VERTIC | LL PER CAL MOL | MANUFACTU UNTING 125 | RER'S REC PSI ASME | COMMENDATIC TANK, DIMEN |)NS. ISIONS 24"*x65"H | / 1200LBS. | | | | | | | | | | | | | | | | |
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| | | | | S | CHFD | | F (| $\mathcal{O}F$ | BOL | | 5 | | | | | | | SCF | | 0F | FXIST | ING | STF | AM BC |)// | FRS | | | |
| | BO | iler d | ATA | BURI | VER DATA | | ELE | | | PHYSICA | L DATA | | REMARKS | | | BOILER DAT | TA | | | BURNER | C DATA | | | | IND | DUCED DRAFT F. | AN DATA | | |
| MARI | | LOCATIO | DN MODEL | (MBH) | (MBH) | FUEL | SERV | /ICE | MCA | (IN) | WEIGHT (L | BS) | | | MARK SERV | $\begin{array}{c} MODEL\\ N @ \hline \hline \end{array}$ | NUMBER OF SECTIONS | MODEL C Nº ② | (BHP) (MBH/HR) EFFIC | ILER FII CIENCY (| RING RATE FIR. DIL (GPH) GA | vg rate (MBH) | BURNER MOTOR HI 7 1/2 | R OIL PUMP I <u>P MOTOR HP</u> 3/4 | M N | 10DEL MO 1º 3 | OTOR HP | REMARK | S |
| | | | оом <u>1000</u> | 1000 | 902 | GAS | 120/1 | 1/60 | 20 28V | VX51Lx68H | JFACTURER F | REFER | R 70 (2)(3)(4)(3) OMBUSTION AIR I | 5)6) INTAKE AND | #1 & ADD BOILER | ITION -S-21 | 21 0 | C7-G0-30 | 325 8463 83 | . 7% | 92 | (| 208/3/6 | 60) (208/3/60) | 240 | C30D-3 (208 | 3/3/60) | | |
| | BURNER | R INTEGR | AL TO BOILEF | | | | | | EXH LIM TEN | AUST VENT T CONTROL | F PIPING, VE _, DUAL LOW SENSOR KII | NT PIPE CONDEN / WATER CUT OFF I, MULTIPLE BOILI | ISATE DRAIN, HIG FS, OUTDOOR AIF ER CONDENSATE | GH/LOW R | BOILER #3 | | | • | , | V | Ţ | V | | V | | V | • | | |
| s ③ | INSTALL BOILER | INSTALL | NUFACTURER | S RECOMMENDA | ATIONS. | | OF INSU | | AL- LAG | CONTROLS | R 316L, BAC S, MOTORIZE | INT PIPING PER INET CONTROLS, I D ISOLATION VALV TESS GAS TRAIN. | DISCONNECT SWI VES, BOILER PUN MODSYNC CON | ITCH, LEAD MP TROL PANEL | $ \begin{array}{c c} N & (1) & AS \\ O & (2) & AS \\ \end{array} $ | MANUFACTURED | BY "H.B. SMITH" | | | | | | | | | | | | |
| | BE FULL GAS FIR THE BO | LY FIELD RED (LPG | COMMISSION OR NG). IF IALL BE FULI | THE TYPE OF (Y RE-COMMISS | ZED TECHNIC GAS IS CHAN GIONED BY AU | SDICTIO CIAN FO NGED A UTHORI | OR THE T AFTER STA | TYPE OF ARTUP CHNICIAN | F 6 но ⁻ | WATER B | ASED ON 14 | 10°F E.W.T., 160°F | EL.W.T. | | $\begin{bmatrix} T & \bigcirc & AS \\ E & \bigcirc & AS \\ S & & & \\ S & & \\ S & & & \\ S $ | MANUFACTURED | BY "AUBURN". | - • | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | S | | JLE (| | | JMF | | ΠΛΤΛ | | | | | 1 | A | <u> </u> | B B | c OF MINIMU | M VE | D D | N ROC | DM FL | OW RATES | <u>s</u> | G | | 1 1 | |
| CE LOCA | TION | MODE Nº (| GPM | HEAD FT.H₂O RP | MOTOL M <u>HP/B</u> F | R EL HP SL | LECTRIC ERVICE | P | (IN) N | EIGHT (LB. | <u>(S)</u> | REMARKS | ROOM | I NAME/NUMBER | OCCUPANCY CAT | EGORY ROOM A | REA PEOPLI | | PEOPLE OUTDOOR AIR FLOW RATE | AREA OU RATE IN E | TDOOR AIR FLOW BREATHING ZONE | EXHAUST | AIR FLOW R | RATE NUMBER OF | F | OUTDOOR AIR FL RATE WITHOUT Z EFFECTIVENES | LOW ZON CONE DISTRI | EAIR MINIMUM ROC BUTION VENTILATION | MINIMUM EXHAUST AIR AIR FLOW |
| NG MECHA | NICAL | SERIES E- | 1510 <u>300</u> | 80 180 130 180 | 00 30/2 00 25/17 | 21 46 7.5 | 60/3/60 |) 25Wx 21W× | (56Lx30H (52Lx24H | 1100 900 | REF REF | FER TO (2)(3) | | | | (SQ.F) | (#P/10) | ט SQ.FT.) | (CFM/PERSON) | (C | FM/SQ.FT.) | (CFI | n/SQ.FT.) | (A×B)÷1000=# | #P | FACTOR (F×C)+(A×D)=CI | FM FFECT | VENESS FLOW RATE TOR G+H=CFM | RATE A×E=CFM |
| NG Б | NICAL S | SAD SERIES E- 3AD | 1510 300 | 130 180 | 00 25/17 | 7.5 | | 21Wx | (52Lx24H | 900 | REF | FER TO 23 | CLA | H203 ASSROOM 191 | CLASSROOM (AG | ES 9+) 743 | | 35 | 10 | | 0.12 | | 0 | 27 | | 359 | 0 | .8 449 | 0 |
| NG MECHA | | SERIES E 4x4x9.5B – | -80 200 | 20 11 | 70 2/1.5 | 5 | | 12Wx | (25Lx29H | 300 | REF | FER TO 23 | | 102 OFFICE 112 | CONFERENCE/ME | ETING 377 E 99 | | 50 5 | 5 5 | | 0.06 0.06 | | 0 | 19 1 | | 118 11 | 0 | 8 147 8 14 | 0 0 |
| CTURED E | RY "BELL | _ _ & GOS | SETT". | 7.5 173 | (4) EXIST | | UMPS SH | HALL BE | | , REFURBI | SHED TO EX | | | OFFICE 116 NURSE 118 TOILET 1184 | OFFICE SPAC | E 105 E 115 | 2 EIV | 5 5 (TURES | 5 5 - | | 0.06 0.06 | 50 CEM | 0 0 1/ FIXTI IPE | 1 1 - | | 11 12 - | 0 | .8 14 .8 15 | 0 0 100 |
| MPS PER D'S FOR | MANUFA | ACTURER | S RECOMMEN 'S SHALL BE | DATIONS. WALL OR STAN | | GN COI RATING R TO H | PROPERI HEAT EXC | D. REPAI RLY. PRO CHANGE DES | R PUMPS A | NS REQUIRE L WATER B CH FOR BA | ALANCING RI | EPORT EXISTING | | ROOM 1431 H204 | BREAK ROON | 1S 50 | | 50 | 5 | | 0.12 | | 0 | 3 | | 21 | 0 | .8 26 | 0 |
| | J. 1 KU | | | | | | | | | | | \ | | LE SCHOOL GYM 131 H205 | GYM, SPORTS AI (PLAY AREA | RENA 6287 | , | 7 | 20 | | 0.18 | | 0.5 | 45 | | 2032 | 0 | .8 2540 | 3144 |
| | | $-O_{A}$ | | IT VE | NTILA | TC | DRS | | | | | | | NING COMMONS 143 FFICE 141A | MEDIA CENT | ER 1996 | 3 | 25 5 | 10 5 | | 0.12 | | 0 | 50 | | 740 25 | 0 | 8 924 8 31 | 0 |
| CAPACIT MRH | Y GP | DATA PM RO | FIL DWS TYF | ER MOTOR E H.P. | ELEC. мо SERV. гі | TOR LA N | MCA M | 10P | PHYSI DIMENSIO | CAL DAT V / WEIGH | TA AT RE | EMARKS | CL CL | ASSROOM 136 ASSROOM 138 | CLASSROOM (AG | ES 9+) 677 ES 9+) 677 | | 35 | 10 10 | | 0.12 0.12 | | 0 | 24 24 24 | | 321 | 0 | 8 402 8 402 | 0 0 |
| 76 | 5 | | 2 THROW (2)12"> | AWAY 0.5 EA2 20"x2" | 208/1/60 4. | .7 9 | 9.5 1 | 5 | 40"Lx35"Wx | 115"H/600 | LBS RI | EFER TO | | ASSROOM 140 TEACHER ORKROOM 145 | CLASSROOM (AG | ES 9+) 677 ES 9+) 756 | | 35 35 | 10 10 | | 0.12 0.12 | | 0 | 24 27 | | 321 361 | 0 | 8 402 8 451 | 0 0 |
| 76 | 5 | | 2 THROW (2)12"x | AWAY 0.5 EA2 20"x2" | 208/1/60 4. | .7 | 14.4 20 | 20 | 47"Lx35"Wx | 115"H/600l | LBS | 34 | нісн | H206 HSCHOOL GYM | GYM, SPORTS A | RENA 8987 | , | 7 | 20 | | 0.18 | | 0.5 | 63 | | 2878 | | .8 3597 | 4494 |
| 84 | 9 | | 3 THROW | AWAY 0.5 | 115/1/60 4. | .7 5 | 5.9 1. | 5 | 100"Lx22"W | /x30"H/750 | DLBS | 35 | AUXI | 179 ILARY GYM 177 | (PLAY AREA GYM, SPORTS AI (PLAY AREA | RENA 5507 | , | 7 | 20 | | 0.18 | | 0.5 | 39 | | 1771 | 0 | .8 2214 | 2754 |
| INCLUDE HEATING LY LINED | ERV (E COIL, D SUPPLY | NERGY F X COIL 7 PLENUN | ECOVERY WH FOR FUTURE 1 WITH MULTI | EEL) PACKAGE, CONNECTION, 2 PLE REGISTERS. | SOUND PAC 24" HIGH , FIELD EREC | KAGE, | (5) UNIT BACK GRILL | SHALL KWITH LEWITH | INCLUDE H PIPE TUNNI I SCREEN, | OT WATER EL, INSULAT NSULATED | HEATING CO TED VALVE F OUTSIDE AIR | DIL, FULL ADAPTER PACKAGE, DISCHAR R DAMPER, FACE | | H207 CAFETERIA | CAFETERIA/FAST DINING | -FOOD 4488 | } | 100 | 7.5 | | 0.18 | | 0 | 449 | | 4175 | 0 | .8 5219 | 0 |
| SION SEC POWERED R, BACNE | FIONS TO EXHAUS T CONTE | O CEILIN ST, FIELI ROLLER, | G, MODULATIN ERECTED R ISOLATION VA | G ECONOMIZER EAR PLENUM SI LVES, STRAINER | (100% OA) ECTIONS, FUL RS, PT PORTS | LL S, | AND | BYPASS | S DAMPER, | 2" MERV 8 | B FILTERS. | | | H209 ASSROOM 221 | CLASSROOM (AG | ES 9+) 691 | | 35 | 10 | | 0.12 | | 0 | 25 | | 333 | 0 | 8 416 | 0 |
| SE-KIT, SFROM SIONS, PA | 2 THICH JNIT TO NELS, F | K MERV WALL A PIPE ENC | ND TOP/BOTT | SIDE PIPE COVE OM TRIM/COVE D TRIM/COVE B | EKS, FULL HI BASE PIECES ASE PIECES | LIGHT S. SHALL | | | | | | | | ASSROOM 223 ASSROOM 225 ASSROOM 224 | CLASSROOM (AG CLASSROOM (AG CLASSROOM (AG | ES 9+) 691 ES 9+) 691 ES 9+) 920 | | 35 35 35 | 10 10 10 | | 0.12 0.12 0.12 | | 0 0 | 25 25 33 | | 333 333 440 | 0 0 0 | 416 .8 416 .8 551 | 0 0 0 |
| CULOR | and FIN | ıън). | | | | | | | | | | | | ASSROOM 226 ASSROOM 218 | CLASSROOM (AG | ES 9+) 716 ES 9+) 1040 |) | 35 35 | 10 10 | | 0.12 0.12 | | 0 0 | 26 37 | | 346 495 | 0 | .8 432 .8 619 | 0 0 |
| | | \wedge | \wedge | \land | \frown | | | | \wedge | \wedge | | | | ASSROOM 220 ASSROOM 222 | CLASSROOM (AG CLASSROOM (AG | ES 9+) 1030 ES 9+) 908 |) | 35 35 | 10 10 | | 0.12 0.12 | | 0 0 | 37 32 | | 494 429 | 0 | .8 617 .8 536 | 0 |
| | | | | | - | | | | | | _ | | | OFFICE 239 OFFICE 240 | OFFICE SPAC | E 870 E 870 | | 5 5 | 5 5 | | 0.06 0.06 | | 0 0 | 5 | | 77 77 | 0 | 8 97 8 97 | 0 0 |
| | | | | | | | | | | | | | LEAR | H211 NING STUDIO 310 | CLASSROOM (AG | ES 9+) 402 | | 35 | 10 | | 0.12 | | 0 | 15 | + | 198 | 0 | .8 248 | 0 |
| | | | | | | | | | | | | | LEAR | NING STUDIO 312 | CLASSROOM (AG | ES 9+) 402 | , | 35 | 10 | | 0.12 | | 0 | 15 | | 198 | 0 | 8 248 | 0 |
| | | | | | | | | | | | | | LEARI | INING COMMONS | LASSROOM (AG | 2240 | , | 30 | 10 | | 0.12 | | U | 79 | | 1059 | 0 | .0 1324 | U |

| | | | | | | | | | SCHE | EDULE | OF EX | KISTING | AIR H | ANDLIN | G UN | IT | | | | | | | | | | | |
|-------------------------|--|--|---|---|-------------------------------------|----------------------|---|--|--|--|---|---|---|---|--|---|---------------------------|---|--------------------------|------------------------------|-----------------------------|-------------------|------------------|-----------------------|-------------------------------------|---|-----------------------------|
| | G | ENERAL DATA | ΟΔΙ ΟΓΙ | M | FAN D | ATA | MOTOR | ΤΟΤΑΙ ΓΛΟ | HEATING | DATA 3 | TOTAL CAD | COOL | ING DATA | LVG AIR TEM | | DENSING UNIT | | FILTER L | DATA | | AL DATA | El | LECTRIC | CAL DAT | 4 | RFMARKS | |
| MARK | SERVICE | MODEL NUMBE | R MAX./MI | N. CFM | LAT. S.P. IN H ₂ 0 | , AN RPM | HP | MBH | DB 'F | DB F | MBH | MBH | DB/WB 'F | DB/WB °F | · MARK | SERVICE | Q7 | TY. (IN.) | TYPE | (LBS.) | (IN.) | FLA | MCA | MOP S | ERVICE | REED TO | |
| AHUI EXIST | AUXILIARY GYM AUXILIARY GYM | | 4500 18 4500 | 4500 4500 | 1.0 1.0 | - | - | 205 205 | 40 40 | 110 110 | 170 170 | 120 120 | 78/65 | 55/54 55/54 | | AUXILIARY GYI | 1 - 1 - | | MERV 13 MERV 13 | | - | _ | - | - 20 - 20 | 8/3/60 8/3/60 | <u> </u> | |
| LE AIST | | | 18 | 00 | | | | | | | | | | | | | | | | | | | | | -, -, -, | 25 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | AS MANUFAC | TURED BY "CARRIER | R". | | | | | | 5 REFURBISH WITH MERV COILS IN E | EXISTING UNITS 13 FILTERS, AIR ACH OF THE FOU | TO INCLUDE S BALANCING O JR DISTRIBUTIO | TEAM CLEANING F EXISTING FANS N MAINS, INSTAL | DF EXISTING UNIT AND AIR OUTLET VRF TYPE CONI | COILS, REPLAC S, PROVIDE NE DENSING UNITS | EMENT OF ALL V DUCT MOUN ⁻ ON ROOF WITH | . FILTERS FED DX | | | | | | | | | | | |
| T E | DESIGN AIR | CONDITIONS: SUMMER | R: OA (94°F/75°F |) RA (77°F/ | (65°F); WINTE | ER: OA (| (5°F/3°F) RA | A (70°F/55°F). | CONNECTIN | G REFRIGERANT F | PIPING AND CO | NTROLS FOR ASS | OCIATED DX COIL | S. | | | | | | | | | | | | | |
| s (4 | BASED ON A. SEER 12.0, | R.I. CERTIFIED COIL | SELECTIONS; RE | FRIGERANT F | R-410A, | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | [| | | | | | | | | | | | | | | |
| | IER | ΓΔ | | 14 | SCH | EDU | ULE | | SONVE (| TA | | | | <u>ATA</u> | CHED | OULE OF | D | | MOUN | NED | HEA | /// | GC | <u>IOILS</u> | | <u>nc</u> | |
| LхИ | VxH WEIGH | HT (LBS) REM, REF | IARKS FER TO | MARK N | o. D | MBH | GPM | D | | WEIGHT REN REIGHT | IARKS FER TO | MARK | BUILDING SI | ERVICE WIDT | H HEIGHT) INCHES | FACE AREA (FT ²) | FINS PI INCH | ER CFM | MBH | R SIDE PRESS DR ("WC) | ROP VELOCI FPM | TY E. | A.T. L., F | A.T. FLO F (G | W RATE PR PM) Δ | ESS DROP RE HEAD (FT) | EMARKS |
| | | ()(2 | | | SF-A SF-A | 3.5 8.0 | 1.0 2.0 | 4 6" | 36 [°] 26 [°] 48″ 32″ | ⁵⁰ (| 2 <u>3</u> 23 | | H SCHOOL | ERU – | _ | – 2 MINIMUN | 12 MAXIMUI | M 6600 | 435 | 0.2" MAX | K 600 MA | Х. | 10 7 | 70 S | TEAM 5 | FT. MAX REFER | TO OOO |
| | | | | | SF–A | 11.0 | 2.0 | 6" | 64" 32" | 100 | 23 | | H SCHOOL | $\frac{LRU}{2}$ - | - | _ | | 600 | 435 36 | | | | | S | TEAM | | |
| | | | | N () AS | MANUFACT | TURED B | BY "STERLIN | IG". | | | | | H SCHOOL | <u>ERU</u> – | - | _ | | 400 | 27 | | | | | | 3.0 | | |
| | | | | | STALL PER NPACITIES B | MANUFA ASED OI | чст <i>URER'S</i> N 150° А.W | RECOMMENDA: '.T. | IUNS | | | <u>(HC</u>) HIG | H SCHOOL | ERU – | - | | | 200 | 14 396 | | | | | | 2.0 | | |
| | | | L | 5 | | | | | | | | 6 HIC HIC HIC HIC HIC HIC HIC | DLE SCHOOL | ERU3 EXIST - | - | | | 8000 | 528 | | | | | | 53.0 | | |
| ч / С | SICAL DATA | | | SCHI | EDUL | E | OF F | EXPAN | VSION | TANK | | | H SCHOOL | ERU - | - | - | | 1500 | 99 | | | | | | 10.0 | | |
| (IN) Wx251 | WEIGHT (L | .BS) REMARI | | MARK | MODEL Nº ① | ; | TANK VOLUI | ME ACCI | EPTANCE IME_GALS | REMARKS | | | H SCHOOL | ERU – | - | - | | 400 | 27 | | | + | | | 3.0 | | |
| Wx25L | x10H 125 | 230 REFER 230 | $\begin{array}{c} 4 \\ \hline 70 \\ \hline 4 \end{array}$ | $\left(\begin{array}{c} ET \\ 1 \end{array} \right)$ | B-400 | | 106 | VOLU | 106 | REFER TO 2 | 3 | | RING WATER TEM | PERATURE 180 | = 20°F AT | - 1 | | 400 | 27 | | | | | <u> </u> | 5.0 | | |
| .WAY F STAT/F | ILTERS, DISCONN AN CONTROLS, I | IECT SWITCH, TWO R ELECTRONICALLY CON | ROW COIL, MMUTATED | | | | | | | | | | IDE INSPECTION | AND CLEANING | DUCT ACCESS | DOOR ON UPSTEA | 1 SIDE OI | F COIL. | | | | | | | | | |
| PTIONA CONTI ALS. | AL COLOR/FINISH ROL SWITCH FIEL | SELECTED BY ARCI D MOUNTED, RECES | CHITECT, SSED TRIM | N () AS | MANUFACTU | RED BY | "BELL & G | GOSSETT". | | | | S 3 THE PERC INTAK | HOT WATER COIL ENT OF OCCUPAN E DAMPERS ON | IS SIZED TO H NCY WITHOUT H A "DESIGN HEA | ANDLE OUTDOG AVING TO RESC 'ING DAY" TO | DR AIR QUANTITIES DRT TO CLOSING O PREVENT FREEZE-U | AT 100 JTDOOR A IP. | IR | | | | | | | | | |
| | | | | T ② INS E ③ VER | TALL PER M RTICAL MOUN | IANUFACT | TURER'S RE 25PSI ASME | COMMENDATIOI TANK, DIMENS | NS. SIONS 24"*x65"H | / 1200LBS. | | | | | | | | | | | | | | | | | |
| | | | | 5 | | | | | | | | | | | | | | | | | | | | | | | |
| | | (| | | | | | \sim | | | | [| | | | | | | | | | | | <u> </u> | | | |
| Ē | BOILER DATA | B | SCHED | | | BO | ILEK. | S AL DATA | | | | | BOILER DA | ΤΑ | SCF | TEDULE | BURN | EXI: ER DATA | STING | SIE | AM E | | LEK. | S DRAFT FAN | DATA | | |
| - R <i>K</i> | LOCATION | MODEL INPU Nº ① (MBF | JT OUTPUT BH) (MBH) | FUEL SE | RVICE M | CA | (IN) | WEIGHT (LE | 35) | REMARKS | | MARK SERV | ICE MODEL Nº ① | NUMBER OF SECTIONS | MODEL Nº ② | OUTPUT OUTPUT (BHP) (MBH/HR)E | BOILER FFICIENCY | FIRING RATE OIL (GPH) | FIRING RATI GAS (MBH) | E BURNER MOTOR H | POIL PUI IPMOTOR | NP HP | MODEL Nº ③ | MOTO HP | R | REMARKS | |
| B B 5 6 | BOILER ROOM | ENDURA 1000 1000 | 902 | GAS 120 | 0/1/60 2 | 20 28 | 8Wx51Lx68F | H 2000 | REFER | R TO 2345 |)© | BOILER ORIG.E #1 & ADD | LDG. 6500 TION -S-21 | 21 | C7–G0–30 | 325 8463 | 83.7% | 92 | | 7 1/2 (208/3/6 | 3/4 60) (208/3/ | _{'60)} 2 | 24C30D-3 | 3 <u>3</u> (208/3) | /60) | | |
|) AS N | ANUFACTURED E | BY "FULTON". | | | | FI E> | ROVIDE MAN XHAUST VEN IMIT CONTRO | IUFACTURER R IT PIPING, VEN DL, DUAL LOW | ECOMMENDED CO IT PIPE CONDEN WATER CUT OFF | OMBUSTION AIR IN SATE DRAIN, HIGH S, OUTDOOR AIR | ITAKE AND I/LOW | BOILER #2 BOILER | | | | | | | | | | | | | | | |
| | ALL PER MANUFA | ACTURER'S RECOMME | ENDATIONS. | | | TE NI Al | EMPERATURE EUTRALIZER L-29-4C 0 | E SENSOR KIT PACKAGE. VEI R 316L, BACN | MULTIPLE BOILI NT PIPING PER IET CONTROLS, I | ER CONDENSATE THIS MANUFACTUR DISCONNECT SWIT | ER CH, LEAD | #3 N () AS | | RY "H R SMITI | , " | | | V | V | | | | | | | | |
| BOIL UNDE BE F | ER INSTALLATION ERWRITER, NFPA TULLY FIELD COM | SHALL CONFORM T AND ALL AUTHORITIE IMISSIONED BY AUTH | TO ALL REQUIREN IES HAVING JURIS HORIZED TECHNIC | IENTS OF IN DICTION. BO DIAN FOR TH | SURANCE DILERS SHAL E TYPE OF | LA L ST | AG CONTROL TART/STOP | LS, MOTORIZED SIGNAL, VENTL | ESS GAS TRAIN, | /ES, BOILER PUMI MODSYNC CONTF | ROL PANEL. | $ \begin{array}{c} 0 \\ T \\ \end{array} $ | MANUFACTURED | BY "POWERFLA | мЕ". | | | | | | | | | | | | |
| GAS THE | FIRED (LPG OR BOILERS SHALL | NG). IF THE TYPE (BE FULLY RE-COMM | OF GAS IS CHAN IMISSIONED BY AU | IGED AFTER JTHORIZED T | STARTUP ECHNICIAN. | 6 н | IOT WATER E | BASED ON 140 |)°F E.W.T., 160°F | L.W.T. | | S S AS | MANUFACTURED | BI AUDUNN. | | | | | | | | | | | | | |
| | | | | | | <u>کر</u> | | | | | | | | S | CHEDUL | E OF MININ | UM V | 'ENTILA | TION RO | DOM FL | .OW RA | TES | | | | | |
| CATION | MODEL | HEAD | REM MOTO | R ELECTR | | IYSICAL | DATA | | RFMARKS | | | | A | | В | С | | D | | E | / | = | Ουτροά | G DR AIR FLOW | Н | I | |
| HANICAL | $N \stackrel{P}{=} \mathbf{O}$ | 800 80 | нр/Вн 1800 30/2 | HP SERVICI 1 460/3/ | E (1 /60 25Wx5 | IN) 6Lx30H | WEIGHT (LE 1100 | BS) REFI | ER TO (2)(3) | ROOM | AME/NUMBER | ΟCCUPANCY CAT | EGORY ROOM A | REA PEOF T.) (#P/1 | LE DENSITY 000 SQ.FT.) | PEOPLE OUTDOOR A FLOW RATE (CEM/PERSON) | R AREA RATE | OUTDOOR AIR I IN BREATHING ((CEM/SQ ET) | ELOW ZONE | ST AIR FLOW R CFM/SQ.FT.) | RATE NUMB PEO (A×B)÷1 | ER OF PLE | RATE WI EFFEC | THOUT ZONE | ZONE AII DISTRIBUT EFFECTIVEN | R MINIMUM ROOM ON VENTILATION AIR ESS FLOW RATE | EXHAUST AIR FLOW RATE |
| HANICAL | SERIES E-1510 3AD | 300 130 | 1800 25/17 | .5 | 21Wx5. | 2Lx24H | 900 | REF | ER TO 23 | | H203 | | | | | | | | | | | | (F×C)+ | (A×D)=CFM | FACTOR | G÷H=CFM | A×E=CFM |
| HANICAL | SERIES E-1510 3AD | 300 130 | 1800 25/17 | 7.5 | 21Wx5. | 2Lx24H | 900 | REF | | CLAS CONFE | SROOM 191 RENCE ROOM | CLASSROOM (AG | ES 9+) 743 | | 35 50 | 10 | | 0.12 | | 0 | 2 | 7 9 | | 359 118 | 0.8 | 449 | 0 |
| HANICAL HANICAI | 4x4x9.5B | 200 20 200 75 | 1170 2/1.5 1750 7.5/- | - | 12Wx2 | 5Lx29H | 300 — | REF | ER TO (4) | | 102 FFICE 112 FFICE 116 | | E 99 | | 5 | 5 | | 0.06 | | 0 0 | | - 1 1 | + | 11 11 | 0.8 | 14 | 0 |
| BY "B | ELL & GOSSETT | | | | SHALL BE | | ED, REFURE | BISHED TO EXI | | | URSE 118 | OFFICE SPAC | E 115 LIC 53 | 21 | - 5 IXTURES | 5 | | 0.06 | 50 | 0 CFM/ FIXTURE | | 1 | | 12 - | 0.8 | 15 | 0 100 |
| ALL A | UFACTURER'S RE POMPS. VFD'S S PROVIDE ALL MOU | <i>COMMENDATIONS.</i> HALL BE WALL OR S JNTING HARDWARF | STAND PRIO | RATING PROP R TO HEAT | ERLY. PROV EXCHANGER | /IDE INITI DEMOLI | TAL WATER | BALANCING RE | | R | оом 1431 H204 | BREAK ROOI | 1S 50 | | 50 | 5 | | 0.12 | | 0 | | 3 | | 21 | 0.8 | 26 | 0 |
| | | | | | · | \sim | | | | | SCHOOL <u>GYM</u> 131 H205 | GYM, SPORTS A (PLAY AREA | RENA 6287 | , | 7 | 20 | | 0.18 | | 0.5 | 4 | 5 | | 2032 | 0.8 | 2540 | 3144 |
| | E OF | UNIT V | ENTILA | TORS | 5 | | | | | | ING COMMONS 143 FICE 141 A | | E 1990 | 6 | 25 | 10 | | 0.12 | | 0 | 5 | 0 | | 740 | 0.8 | 924 | 0 |
| ITY (| GPM ROWS | FILTER мот ТҮРЕ н.і | TOR ELEC. MO .P. SERV. FI | TOR LA MCA | MOP | PHYS DIMENSI | SICAL DA ION / WEIG | TA CHT RE | MARKS | | SROOM 136 | CLASSROOM (AG | 253 ES 9+) 677 ES 9+) 677 | | 35 35 | 10 10 | | 0.12 | | 0 0 | 2 | 4 4 | + | 321 321 | 0.8 | 402 402 | 0 |
| ╪ | 5 2 | THROWAWAY 0.5 | EA208/1/60 4. | .7 9.5 | 15 40 | 0"Lx35"W | Wx115"H/600 | OLBS RE | FER TO | | SROOM 140 EACHER | CLASSROOM (AG | ES 9+) 677 ES 9+) 756 | | 35 35 | 10 10 | | 0.12 0.12 | | 0 0 | 2 | 4 7 | | 321 361 | 0.8 | 402 451 | 0 |
| | 5 2 | <pre>L = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 =</pre> | EA208/1/60 4. | .7 14.4 | 20 42 | 7"Lx35"W | Wx115"H/600 | OLBS (| <u>3</u> 4 | HIGH : | лкоом 145 H206 SCHOOL GYM | GYM, SPORTS A | RENA | , | 7 | 20 | | 0.40 | | 05 | | 3 | + | 2879 | | 2507 | 440.4 |
| | 9 3 | THROWAWAY 0.5 | 5 115/1/60 4. | .7 5.9 | 15 1 | 00"Lx22 | `Wx30"H/75 | OLBS (| 35 | AUXIL | 179 ARY GYM 177 | (PLAY AREA GYM, SPORTS A (PLAY AREA |) 8987 RENA 5507 | , | , 7 | 20 | | 0.18 | | 0.5 | 3 | 9 | | 1771 | 0.8 | 2214 | 4494 2754 |
| E ERV | (ENERGY RECOV , DX COIL FOR | VERY WHEEL) PACKA | AGE, SOUND PAC | | NIT SHALL II ACK WITH PI | NCLUDE | HOT WATER | HEATING COI | L, FULL ADAPTER | RGE C | H207 AFETERIA | CAFETERIA/FAST | FOOD 4488 | 3 | 100 | 7.5 | | 0.18 | | 0 | 44 | 19 | | 4175 | 0.8 | 5219 | 0 |
| USUP CTIONS DEXH | FLI FLENUM WIT 5 TO CEILING, MO 1AUST, FIELD ERI | TI MULTIPLE REGISTI DDULATING ECONOMIZ ECTED REAR PLENUN | ILKS, FILLD EREC IZER (100% OA) M SECTIONS, FUL | L | ND BYPASS | JUREEN, DAMPER | , INSULATED R, 2" MERV | 8 FILTERS. | UAMPER, FACE | | H209 SROOM 221 | CLASSROOM (AG | ES 9+) 691 | | 35 | 10 | | 0.12 | | 0 | 2 | 5 | | 333 | 0.8 | 416 | 0 |
| 2" TH UNIT | HICK MERV 13 F TO WALL AND T | ILTERS, SIDE PIPE (OP/BOTTOM TRIM/CO | COVERS, FULL HI | EIGHT S. | | | | | | CLAS CLAS | SROOM 223 SROOM 225 | CLASSROOM (AG CLASSROOM (AG | ES 9+) 691 ES 9+) 691 | | 35 35 | 10 10 | | 0.12 | | 0 | 2 | 5 | | 333 333 | 0.8 0.8 | 416 416 | 0 0 |
| ANELS | , FIPE ENCLOSU FINISH). | NKES AND IRIM/COV | VE BASE MILCES | SHALL | | | | | | | SSROOM 224 SSROOM 226 | CLASSROOM (AG | ES 9+) 920 ES 9+) 716 | | 35 35 | 10 10 | | 0.12 | | 0 | 3 | 3 6 | | 440 346 | 0.8 | 551 432 | 0 |
| | • | • | • - | | | • | | - | <u> </u> | | SROOM 218 SROOM 220 | CLASSROOM (AG | ES 9+) 104(ES 9+) 103(ES 9+) 000 | ,) | 35 35 35 | 10 10 10 | | 0.12 0.12 0.12 | | 0 0 0 | 3 | / 7 2 | | 495 494 429 | 0.8 0.8 | 619 617 536 | 0 |
| _ | \wedge | \sim | | \checkmark | \checkmark | \frown | | \checkmark | | | H210 FFICE 239 | OFFICE SPAC | E 870 | | 5 | 5 | | 0.06 | | 0 | | 5 | | 77 | 0.8 | 97 | 0 |
| | | | | | | | | | | 0 | FICE 240 | OFFICE SPAC | E 870 | | 5 | 5 | | 0.06 | | 0 | | 5 | | 77 | 0.8 | 97 | 0 |
| | | | | | | | | | | LEARNI | NG STUDIO 310 | CLASSROOM (AG | ES 9+) 402 | | 35 | 10 | _ | 0.12 | | 0 | 1 | 5 | | 198 | 0.8 | 248 | 0 |
| | | | | | | | | | | LEARNI | ING COMMONS | CLASSROOM (AG | ES 9+) 2240 |) | 35 | 10 | | 0.12 | | 0 | 7 | 9 | | 1059 | 0.8 | 1324 | 0 |

| | | | | | | | | | SCH | EDULE | OF EX | ISTING | AIR HA | ANDLING | G UNI | IT. | | | | | | | | | | |
|---|---|--|---|--|---|--|--|--|---|---|--|--|---|---|--|--|-----------------------------|-------------------------|--|--------------|----------------|--------------------------|--|---------------------------------|---|--------------------|
| | | | GENERAL | DATA | ONL CEM | FAN | DATA | TOTAL CAR | HEATING | DATA 3 | TOTAL CAR | | G DATA | 34 | CONL | DENSING UNIT | - | FILTER | DATA PHY | SICAL | L DATA | ELEC1 | RICAL DAT | 4 | REMARKS | |
| | MAR | K SERV | ICE MODEL | NUMBER | MAX./MIN. | $CFM \stackrel{EXT. S.F}{IN H_2O}$ | RPM HP | MBH | DB °F | DB *F | MBH | MBH | DB/WB 'F | DB/WB 'F | MARK | SERVICE | QTY | , SIZE (IN.) | TYPE (LBS |)).) | (IN.) F | FLA MCA | MOP S | ERVICE | REFER TO | |
| | AHUZ EXIST | AUXILIARY AUXILIARY | Y GYM Y GYM | - | 1800 4500 1800 | 4500 1.0 4500 1.0 | | 205 205 | 40 | 110 | 170 | 120 120 | 78/65 78/65 | 55/54 55/54 | $ \begin{array}{c} \hline 10\\ \hline 10\\ \hline CU\\ 12\\ \hline \end{array} $ | AUXILIARY GY | м — М — | - | MERV 13 – MERV 13 – | + | - | | - 20 - 20 | 8/3/60 8/3/60 | <u> </u> | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 AS MA 2 REFUR | ANUFACTURED BY RBISH IN ACCORDA | "CARRIER". ANCE WITH MAI | NUFACTURER'S | DIRECTIONS. | | | (5) REFURBISH WITH MER COILS IN CONNECTII | 4 EXISTING UNITS V 13 FILTERS, AIF EACH OF THE FOUNG REFRIGERANT I | IO INCLUDE ST BALANCING OF JR DISTRIBUTION PIPING AND CON | EAM CLEANING OF EXISTING FANS A MAINS, INSTALL ' NTROLS FOR ASSO(| ND AIR OUTLETS NF TYPE COND CIATED DX COILS | COILS, REPLACEM , PROVIDE NEW [ENSING UNITS ON 5. | DUCT MOUNT | ED DX | | | | | | | | | | |
| | E (| | N AIR CONDITIONS: | : SUMMER: OA | (94°F/75°F) R | A (77°F/65°F); WIN | TER: 0A (5°F/3°1 |) RA (70°F/55°F |). | | | | | | | | | | | | | | | | | |
| | | 4 BASED SEER 1 | ON A.R.I. CERTIFI 12.0, | IED COIL SELE | CTIONS; REFRIC | JERANI R-410A, | | | | | | | | | | | | | | | | | | | | |
| OF UNIT | HEA | TER | | | | SCH | IEDULE | E OF | CONVE | CTORS | | | | SC | CHED | ULE OI | - DL | ICT | MOUNTE | D | HEAT | ING | COILS | $\overline{)}$ | | |
| MOTOR ELEC WATTS SERV | TRIC PI /ICE Lx | HYSICAL WxH | DATA WEIGHT (LBS) | REMARK | 'S MA | RK MODEL No. () | MBH GF | PM F | PHYSICAL DA | WEIGHT REN | MARKS | | GENERAL DA | | | SIZE | | | AIR SIL | | | | | WATER S | SIDE | EMARKS |
| 9 120/1 | /60 | | | REFER T | | SF-A | 3.5 1. | 0 4" | 36" 26" | 50 RE | FER TO | MARK BU | SCHOOL | RVICE (IN.) | INCHES | FACE AREA ROWS | INCH | С <i>FM</i> 6600 | 435 0.2 | "WC) "MAX | 600 MAX. | . 10 | L.A.T. FLO F (G | $\frac{W}{PM} \Delta$ | HEAD (FT) 5 FT. MAX REFER | TO () () () |
| | | | | | | SF-A | 8.0 2. 11.0 2 | 0 6" | 48" 32" | 75 | 23 | HC 2 HIGH | SCHOOL | RU – | - | _ | | 6600 | 435 | | | | S | TEAM | | |
| °F/140°F | | | | | | 7 as manufac | CTURED BY "STE | RLING". | 0+ 32 | 100 | 23 | HC 3 HIGH | SCHOOL | $\frac{RU}{3}$ – | - | _ | | 600 400 | 36 27 | | | | S | TEAM | | |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | INSTALL PER CAPACITIES | ? MANUFACTURE | R'S RECOMMENL A.W.T. | ATIONS | | | HC 5 HIGH | SCHOOL | * RU 5 – | - | - | | 200 | 14 | | | | | 2.0 | | |
| | | | | | | • | | | | | | HC HC HC | | RU3 | - | _ | | 6000 | 396 528 | | | | | 40.0 | | |
| CABINET | | ERS | 174 | | | | | FYPA | | TANK | | HC B HIGH | SCHOOL | RU 8 – | _ | _ | | 1500 | 99 | | | | | 10.0 | | |
| RPM SER | /ICE (II | V) WEIG | IGHT (LBS) | REMARKS | | MODEL | TANK V | OLUME AC | | REMARKS | | HC 9 HIGH | | RU P | - | - | | 400 | 27 | | | | | 3.0 | | |
| 5 1100 120/ 5 1100 120/ | 1/60 43Wx25 | 5Lx10H | 125 | 234 REFER TO 234 | | <i>№</i> ± 9 <i>B</i> -400 | 106 | 5. VO | 106 | REFER TO 2 | 3 | | NG WATER TEME | ERATURE 180°E | - 20°F AT | | <u> </u> | 400 | 27 | <u> </u> | | 1 | ¥ | 3.0 | | |
| PROVIDE REMOTE | THROWAWAY | FILTERS, DI | ISCONNECT SWITCH ROLS, ELECTRONIC | H, TWO ROW (| COIL, ATED | | | | | | | | E INSPECTION A | ND CLEANING DU | ICT ACCESS | DOOR ON UPSTEA | M SIDE OF | COIL. | | | | | | | | |
| /140°F MOTOR INTEGRA SECTION | (ECM), OPTION L SPEED CON AND SEALS. | NAL COLOR/ ITROL SWITC | /FINISH SELECTED CH FIELD MOUNTEI |) BY ARCHITEC D, RECESSED | TRIM | () AS MANUFACT | URED BY "BELL | & GOSSETT". | | | | S (3) THE HO PERCEN INTAKE |)T WATER COIL IT OF OCCUPAN DAMPERS ON A | S SIZED TO HANI CY WITHOUT HAVIN "DESIGN HEATING | DLE OUTDOC NG TO RESO G DAY" TO F |)R AIR QUANTITIES)RT TO CLOSING C PREVENT FREEZE- | AT 100 UTDOOR AIF UP. | 8 | | | | | | | | |
| | | | | | / E S | 2 INSTALL PER3 VERTICAL MOL | MANUFACTURER'S INTING 125PSI A | S RECOMMENDATI SME TANK, DIME | ONS. NSIONS 24"*x65"f | H / 1200LBS. | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | SC | HFDU | IF OF | BOII F | RS | | | | | | | SCF | HEDULE | OF | EXI | STING S | TE | AM B | OILE | RS | | | |
| | | BOILER | DATA | BURN | ER DATA | ELECTRIC | AL PHY. | SICAL DATA | | REMARKS | | | BOILER DAT | | | דווסדווה דווסדוור | BURNE | R DATA | | | | INDUCE | D DRAFT FAN | DATA | | |
| | MARK | LOCAT | TION Nº () | (MBH) | (MBH) FU | IEL SERVICE | MCA (IN) | WEIGHT (| LBS) | | | MARK SERVICE | F <u>№</u> ① 06. 6500 | SECTIONS | MODEL C Nº ② | (BHP) (MBH/HR) | EFFICIENCY | OIL (GPH) | E FIRING RATE BC) GAS (MBH) MOT 7 | OR HP 1/2 | MOTOR HF | P Nº (3 | $\frac{1}{1000}$ 1 | π | REMARKS | |
| | | MANUFACTU | URED BY "FULTON | 1000 N". | 902 GA | 120/1/60 | 20 28Wx51L (5) PROVIDE | MANUFACTURER | RECOMMENDED C | OMBUSTION AIR IN | NTAKE AND | #1 & ADDITIC BOILER #2 | DN -S-21 | | /-60-30 | 525 8465 | 03.1% | 92 | (208 | 3/3/60 | 0) (208/3/60 | <u>o)</u> 24030 |) (208/3 | /60) | | |
| | | RNER INTEG | GRAL TO BOILER. | | | | EXHAUST LIMIT CO TEMPERA NEUTRAI | VENT PIPING, V NTROL, DUAL LO TURE SENSOR K ZER PACKAGE N | ENT PIPE CONDEN W WATER CUT OF IT, MULTIPLE BOIL /FNT PIPING PER | NSATE DRAIN, HIGH FS, OUTDOOR AIR LER CONDENSATE THIS MANUFACTUE | H/LOW RFR | BOILER #3 | V | V I | V | • • | V | V | The second secon | | V | | | | | |
| | | ILER INSTAL | MANUFACTURER'S LATION SHALL CO NEPA AND ALL A | RECOMMENDAT | TIONS. L REQUIREMENT AVING JURISDIC | IS OF INSURANCE | AL-29-4 LAG CON START/S | C OR 316L, BA TROLS, MOTORIZ OP SIGNAL, VEN | CNET CONTROLS, ED ISOLATION VAL ITLESS GAS TRAIN | DISCONNECT SWIT VES, BOILER PUM , MODSYNC CONT | CH, LEAD P ROL PANEL. | N () AS M. O (2) AS M. | ANUFACTURED E ANUFACTURED E | BY "H.B. SMITH". BY "POWERFLAME" | " | | | | | | | | | | | |
| | BE GAS THE | FULLY FIEL S FIRED (LP E BOILERS S | _D COMMISSIONED PG OR NG). IF TH SHALL BE FULLY | BY AUTHORIZI IE TYPE OF GA RE-COMMISSIC | ED TECHNICIAN AS IS CHANGED ONED BY AUTHO | FOR THE TYPE OF AFTER STARTUP ORIZED TECHNICIAN | . 6 нот waт | ER BASED ON 1 | 40°F E.W.T., 160° | F L.W.T. | | E 3 AS M. S | ANUFACTURED E | BY "AUBURN". | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 50 | | | л I INЛ \/E | | | | | | | | | |
| | | ., MOL | DEL | HEDU | LE OI | | PHYSICAL DATA | | | | | | A | | | c | | D | | | F | 23 | G | н | I | |
| MARK SERV. | ICE LOCATIO | N NO NO AI SERIES E | GPM F | FT.H ₂ 0 RPM | $\frac{1}{HP/BHP}$ | SERVICE | (IN) WEIGH | (LBS) | REMARKS | ROOM | NAME/NUMBER | OCCUPANCY CATEG | ORY ROOM AF | REA PEOPLE) (#P/1000 | DENSITY 0 SQ.FT.) | PEOPLE OUTDOOR A | IR AREA O | UTDOOR AIR BREATHING | R FLOW G ZONE EXHAUST AIR F (CFM/SQ | LOW RA | | OUT R OF RAT LE EI | DOOR AIR FLOW E WITHOUT ZONE FECTIVENESS | ZONE A DISTRIBU EFFECTIVE | IR MINIMUM ROOM TION VENTILATION AIR NESS FLOW RATE | AIR FLOW |
| $\begin{array}{c c} \hline 1 & 2 & Loc \\ \hline HWP & HWP \\ \hline 3 & 4 & Loc \\ \hline \end{array}$ | DP TING DP MECHANIC | AL SERIES E | E=1510 D | 130 1800 | 0 25/17.5 | 21Wx | 52Lx24H 9 | noo RE | FER TO 23 | | H202 | | | | | (CFM/PERSON) | (' | CFM/SQ.FT.) | | | (A×B)÷100 | 00=#P (F | FACTOR C)+(A×D)=CFM | FACTO | R G÷H=CFM | RATE A×E=CFM |
| HWP HWP 5 6 LOC | TING DP TINC | AL SERIES E | E-1510 300 | 130 1800 | 0 25/17.5 | 21Wx | 52Lx24H 9 | oo RL | FER TO 23 | CLA | SSROOM 191 ERENCE ROOM | CLASSROOM (AGES | 5 9+) 743 | 3 | 5 | 10 | | 0.12 | 0 | | 27 | | 359 | 0.8 | 449 | 0 |
| HWP CHWP HWP HILAN | TING MECHANIC | AL 5ERIES 4x4x9.5 AL – | 200 200 - 200 - 200 | 20 1170 75 1750 | 0 2/1.5 0 7.5/- | 12Wx | 25Lx29H 3 | - RL | FER TO (2)(3) | o | 102 FFICE 112 FFICE 116 | OFFICE SPACE | 99 | 5 | 5 | 5 | | 0.06 | 0 0 | | 1 | | 11 11 | 0.8 | 14 | |
| N O AS MANUFA | ACTURED BY | "BELL & GC | DSSETT". | | EXISTING DESIGN | PUMPS SHALL BE CONDITIONS. REPAI | INSPECTED, RE R PUMPS AS RE | FURBISHED TO E QUIRED IF FOUN | XISTING D NOT | N TC | URSE 118 DILET 118A | OFFICE SPACE TOILETS - PUBLIC | 115 C 53 | £ 2 FIXT | 5 TURES | 5 | | 0.06 - | 0 50 CFM/ FD | XTURE | 1 | | 12 - | 0.8 | 15 - | 0 100 |
| E 3 PROVIDE VI MOUNTED | JMPS PER MA D'S FOR ALL NEAR PUMPS. | PUMRS. VF PROVIDE AI | <i>r</i> s <i>recommenda</i> fd's shall be w all mounting ha | ATTONS. IALL OR STAND RDWARE. | OPERATIN PRIOR TO PLIMP PI | NG PROPERLY. PRO O HEAT EXCHANCE ENFORMANCES. | OVIDE INITIAL WAT | ER BALANCING DR BASELINE OF | REPORT | | OOM 143I H204 E SCHOOL GYM | BREAK ROOMS | 50 NA | 5 | 0 | 5 | | 0.12 | 0 | | 3 | | 21 | 0.8 | 26 | 0 |
| | | | | T \/E^ | | | ~ | ~~~~ | V | | 131 H205 | (PLAY AREA) | 6287 | 7 | / | 20 | | U.18 | 0.5 | | 45 | | 2032 | 0.8 | 2540 | 3144 |
| COOLING DATA | | NG DATA | | | | | DUVCIONI | ΠΑΤΑ | | DEA T | 143 FFICE 141A | MEDIA CENTER OFFICE SPACE | 1996 253 | 2 | 5 | 10 5 | | 0.12 | 0 0 | | 50 2 | | 740 25 | 0.8 | 924 31 | 0 |
| TOTAL SENSIBL CAPACITY CAPACI MBH MBH | LE TY CAPACITY MBH | GPM F | ROWS TYPE | H.P. | SERV. FLA | MCA MOP | DIMENSION / | WEIGHT R | EMARKS | | SSROOM 136 SSROOM 138 SSROOM 140 | CLASSROOM (AGES CLASSROOM (AGES CLASSROOM (AGES | 5 9+) 677 5 9+) 677 5 9+) 677 5 9+) 677 | 3. | 5 5 5 | 10 10 10 | | 0.12 0.12 0.12 | 0 0 | | 24 24 24 | | 321 321 321 | 0.8 0.8 | 402 402 402 | |
| | 76 | 5 | 2 THROWAW (2)12"x20 | VAY 0.5 EA20 "x2" | 08/1/60 4.7 | 9.5 15 | 40"Lx35"Wx115"H | /600LBS | REFER TO | WOF | EACHER RKROOM 145 | CLASSROOM (AGES | () () () () () () () () () () () () () (| 3. | 5 | 10 | | 0.12 | 0 | | 27 | | 361 | 0.8 | 451 | 0 |
| | 76 | 5 | 2 THROWAW (2)12"x20 | VAY 0.5 EA20)"x2" | 08/1/60 4.7 | 14.4 20 | 47"Lx35"Wx115"H | /600LBS | 34 | нісн | H2U6 SCHOOL GYM 179 | GYM, SPORTS AREA (PLAY AREA) | NA 8987 | 7 | 7 | 20 | | 0.18 | 0.5 | | 63 | | 2878 | 0.8 | 3597 | 4494 |
| <i>MS</i> ". (4) UNIT SHAI | 04 L INCLUDE ER | ع N (ENERGY | RECOVERY WHEF | <i>VAY 0.5 11</i> (L) PACKAGE. S | <i>15/1/60</i> 4.7 SOUND PACKAG | 5.9 15 | 100"Lx22"Wx30"H | ATER HEATING C | 0IL, FULL ADAPTF | R | ARY GYM 177 H207 | GYM, SPORTS ARE | 5507 | 7 | 7 | 20 | | 0.18 | 0.5 | | 39 | | 1771 | 0.8 | 2214 | 2754 |
| HOT WATER ACOUSTICA TOP EXTEN | R HEATING CO LLY LINED SU ISION SECTION | IL, DX COIL PPLY PLENU NS TO CEILI | FOR FUTURE CC UM WITH MULTIPLI | DNNECTION, 24 E REGISTERS, ECONOMIZER (| HIGH FIELD ERECTED (100% OA) | BACK WITH GRILLE WITH AND BYPASS | PIPE TUNNEL, IN SCREEN, INSUL DAMPER, 2" M | SULATED VALVE ATED OUTSIDE A ERV 8 FILTERS. | PACKAGE, DISCHA R DAMPER, FACE | RGE | AFETERIA | CAFETERIA/FAST-FC DINING | DOD 4488 | 10 | 00 | 7.5 | | 0.18 | 0 | | 449 | | 4175 | 0.8 | 5219 | 0 |
| IDATIONS CONTROLS, SIZE LOUV BRAIDED H | POWERED EX ER, BACNET C OSE-KIT, 2" | KHAUST, FIE CONTROLLER THICK MERV | LU ERECTED REAF R, ISOLATION VALVI V 13 FILTERS, SID | R PLENUM SEC ES, STRAINERS DE PIPE COVER | CHONS, FULL 5, PT PORTS, RS, FULL HEIGH | łT | | | | | SSROOM 221 SSROOM 223 | CLASSROOM (AGES CLASSROOM (AGES | (9+) 691 (9+) 691 (9+) 691 | 3 | 5 | 10 10 | | 0.12 | 0 | | 25 25 | | 333 | 0.8 | 416 416 | 0 |
| SIDE PANE (ALL EXTEN MATCH UNI | LS FROM UNI NSIONS, PANEI IT COLOR AND | i io wall Ls, pipe en) finish). | AND IUP/BOTTON NCLOSURES AND ⁻ | и ткім/COVE E TRIM/COVE BA | BASE PIECES. SE PIECES SHA | ALL | | | | | SSROOM 225 SSROOM 224 SSROOM 226 | CLASSROOM (AGES CLASSROOM (AGES CLASSROOM (AGES | 5 9+) 691 5 9+) 920 5 9+) 716 | 3. | 5 5 5 | 10 10 10 | | 0.12 0.12 0.12 | 0 0 | | 25 33 26 | | 333 440 346 | 0.8 0.8 | 416 551 432 | |
| | | | | | | | | | | | SSROOM 218 SSROOM 220 | CLASSROOM (AGES | (39+) 1040 (39+) 1030 | 3 | 5 | 10 10 | | 0.12 | 0 0 | | 37 | | 495 494 | 0.8 | 619 617 | 0 |
| \nearrow | | \nearrow | \checkmark | \checkmark | \frown | | \wedge | \frown | \checkmark | | SSROOM 222 H210 | CLASSROOM (AGES | 9+) 908 | 3 | 5 | 10 | | 0.12 | 0 | | 32 | | 429 | 0.8 | 536 | 0 |
| | | | | | | | | | | 0 | FFICE 239 FFICE 240 H211 | OFFICE SPACE | 870 870 | 5 | 5 | 5 5 | | 0.06 | | | 5 | | 77 | 0.8 | 97 97 | |
| | | | | | | | | | | LEARN | ING STUDIO 310 | CLASSROOM (AGES | (9+) 402 | 3 | 5 | 10 | | 0.12 | 0 | | 15 | | 198 | 0.8 | 248 | 0 |
| | | | | | | | | | | LEARN | ING COMMONS | CLASSROOM (AGES | 402 9+) 2240 | 3 | 5 | 10 | | 0.12 | 0 | | 75 79 | | 1059 | 0.8 | 1324 | 0 |

LOBBIES

80

ELEVATOR LOBBY 300

| | | | | | | | | | SCHE | EDULE (| OF E. | XISTING | AIR HA | ANDLING | G UNI | Т | | | | | | | | | | | |
|--|--|---|---|--|--|---|---|---|---|--|--|--|---|--|--|--|-------------------------|--|--|--|---|--|---|---|--|---|--|
| | | GENERAL | L DATA | | F. | AN DATA | | | HEATING | data 🔇 | | COOLII | NG DATA | 34 | COND | ENSING UNIT | | FILTER D | ATA | PHYSI | SICAL L | DATA | ELECTI | RICAL DA | TA | | |
| | MARK SE | RVICE MODEL | NUMBER N | OAI CFM 1AX./MIN. | CFM IN | T. S.P. FAN H ₂ O RPM | MOTOR HP | TOTAL CAP MBH | P. ENT. AIR TEMP.L DB °F | LVG. AIR TEMP. DB *F | TOTAL CA MBH | AP. SENSIBLE CAP. MBH | ENT. AIR TEMP. DB/WB *F | LVG. AIR TEMP. DB/WB *F | MARK | SERVICE | QTY | 7. SIZE (IN.) | TYPE | WEIGHT (LBS.) | T LxW (IN | /xH !.) FL | A MCA | MOP | SERVICE | REMARKS | 5 |
| | AHUT EXIST AUXILI | ARY GYM | 4 | 4500 1800 4 4500 | 4500 4500 | 1.0 – | - | 205 205 | 40 | 110 | 170 | 120 | 78/65 | 55/54 | | AUXILIARY GYM | - | - | MERV 13 | - | - | · · | | - 2 | 208/3/60 | REFER TO | |
| | EXIST AUXILI | 4/(1 6/10 | | 1800 4 | ,500 | 1.0 – | | 200 | 40 | 110 | 170 | 120 | 78703 | 33/34 | | AUXILIANT GTM | | | MERV 13 | | | | | | .08/ 5/ 00 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | MANUFACTURED BY | Y "CARRIER". | | | | | | 5 REFURBISH WITH MERV | EXISTING UNITS T 13 FILTERS, AIR | TO INCLUDE BALANCING | STEAM CLEANING O OF EXISTING FANS | OF EXISTING UNIT AND AIR OUTLET | COILS, REPLACEM S, PROVIDE NEW I | IENT OF ALL DUCT MOUNTE | FILTERS D DX | | | | | | | | | | | |
| | T C DES | GREISH IN ACCORE | S: SUMMER: OA (| 94°F/75°F) RA (| 77°F/65°F |); WINTER: OA | (5°F/3°F |) RA (70°F/55°F | CONNECTING F). | G REFRIGERANT P | PIPING AND C | CONTROLS FOR ASSO | OCIATED DX COIL | S. | | | | | | | | | | | | | |
| | S (4) BAS SEE | ED ON A.R.I. CERTI R 12.0, | IFIED COIL SELECT | TIONS; REFRIGER | ANT R-41 | 0A, | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 0.011 | | | |
| MODEL CAPACITY DATA MOTOR FLECTE | HEALER RICL PHYSICA | | 1 | | S MODI | | ULE | | CONVEC | TORS | | | GENERAL DA | ATA SC | CHEDU | JLE OF | DL | <u>)C1 N</u> | AOUN | | | IEAII | NG | COIL | WATER SI | | |
| No. 1 BTU/HR EWT 'F LWT 'F GPM WATTS SERVIC | CE LxWxH | WEIGHT (LBS) | REMARKS | MARK | No. (| \mathcal{D} MBH | GP | D | L H | WEIGHT REM | FER TO | MARK B | BUILDING SE | ERVICE WIDTH (IN.) | HEIGHT F. INCHES | ACE AREA (FT ²) | FINS PEI INCH | R CFM | MBH | PRESS ("Wo | DROP VC) | VELOCITY FPM | E.A.T. F | L.A.T. FL F | .OW RATE PR (GPM) D | IEAD (FT) | REMARKS |
| HS-18 11725 160 140 1.0 9 120/1/6 | 00 | | (1)(2)(3)(4) | | SF-, | A 8.0 | 2.0 | 0 4 0 6" | 48" 32" | 75 (2 | 2 <u>(3)</u> 2 <u>(3)</u> | | | ERU – | - | _ 2 МINIМUМ | 12 MAXIMUM | 6600 6600 | 435 435 | 0.2" N | MAX | 600 MAX. | 10 | 70 | STEAM 5 | FT. MAX REFER | TO 000 |
| S MANUFACTURED BY "STERLING". | | 1 | | | SF-, | A 11.0 | 2.0 | 0 6" | 64" <i>32</i> " | 100 | 23 | 2 HIGF | H SCHOOL | 2 – ERU – | - | - | | 600 | 36 | | | | + + | | STEAM | | |
| NSTALL PER MANUFACTURER'S RECOMMENDATIONS APACITIES BASED ON HIGH SPEED FAN SETTING AND HW 160°F/140°F | | | | | AS MA | NUFACTURED | BY "STEP | RLING". | | | | | H SCHOOL | ERU – | - | _ | | 400 | 27 | | | | | | 3.0 | | |
| UANTITIES AS IDENTIFIED UN HVAC DRAWINGS. | | | | | CAPACI | ITIES BASED | ON 150° | A.W.T. | DATIONS | | | | | ERU – | - | - | | 200 6000 | 14 396 | | | | | | 2.0 | <u> </u> | |
| SCHEDINE OF CARINET H | JEATERS | <u> </u> | | \neg | | | | | | | | | LE SCHOOL | ERU3 EXIST – | _ | - | | 8000 | 528 | | | | | | 53.0 | | |
| E UNIT MODEL CAPACITY DATA O MOTOR MOTOR ELECTR | RIC PHYSICAL | DATA | RFMARKS | - SC | HEL | DULE | OF | EXPA | NSION | TANK | | | H SCHOOL | ERU 8 – | - | - | | 1500 | 99 | | | | | | 10.0 | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | /E (IN) V /60 43Wx25Lx10H | 125 | REFER TO | MARK | MC N₽ | DDEL ① | TANK VC GAL | OLUME AC S. VO | CCEPTANCE DLUME GALS. | REMARKS | | HIGH HC 11 MIDDI | LE SCHOOL | ERU 11 – | - | - | | 400 400 | 27 27 | | | | | | 3.0 3.0 | <u> </u> | |
| CESSED LL MTD. RW1120-03 21,900 265 3.0 0.77 1/15 1100 120/1/ | 760 43Wx25Lx10H | 125 | REFER TO 234 | $\left(\begin{array}{c} ET\\ 1\end{array} \right)$ | B- | 400 | 106 | | 106 | REFER TO 2 | 3 | | RING WATER TEMI | PERATURE 180°F, | 20°F ∆T. | | | | | | | | | Y | | I | |
| MANUFACTURED BY "STERLING". Image: Comparison of the state of t | THROWAWAY FILTERS, HERMOSTAT/FAN CO CM). OPTIONAL COLO | DISCONNECT SWITC NTROLS, ELECTRONI DR/FINISH SELECTE | CH, TWO ROW CO ICALLY COMMUTATI D BY ARCHITECT. | ED | | | | | | | | | IDE INSPECTION | AND CLEANING DU | ICT ACCESS L | DOOR ON UPSTEAM | SIDE OF | COIL. | | | | | | | | | |
| PACITIES BASED ON LOW SPEED FAN SETTING AND HW 160°F/140°F INTEGRAL SECTION A | SPÉED CONTROL SW AND SEALS. | ITĆH FIELD MOUNTI | ED, RECESSED TR | |) AS MAN | UFACTURED B | Y "BELL o | & GOSSETT". | IONS | | | S O PERCE | ENT OF OCCUPAN E DAMPERS ON A | A "DESIGN HEATING | NG TO RESOF G DAY" TO P | REVENT FREEZE-UP | fdoor aif ?. | २ | | | | | | | | | |
| | | | | E S | VERTICA | L MOUNTING | 125PSI AS | SME TANK, DIME | ENSIONS 24"*x65"H | / 1200LBS. | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | SCH | HEDUL | E C | F BC | DILE | RS | | | | | | | SCH | EDULE | OF | EXIS | STING | S7 | TEAI | M B | OILE | RS | | | |
| | BOILE | R DATA | BURNER | R DATA | ELEC | TRICAL | PHYS | SICAL DATA | 4 | REMARKS | | | BOILER DAT | TA | | | BURNE | R DATA | | | | | INDUCEL | D DRAFT FAI | V DATA | | |
| | MARK LO | CATION Nº () | (MBH) (i | MBH) FUEL | SERVIC | CE MCA | (IN) | WEIGHT (| (LBS) | | | MARK SERVIO | CE <u>№ ①</u> LDG. 6500 | SECTIONS | MODEL 00 Nº ② (1 | BHP) (MBH/HR)EF | FICIENCY | OIL (GPH) | GAS (MBH) | BURN MOTOR | NER R HP 1/2 | OIL POMP <u>MOTOR HP</u> 3/4 | MODE Nº 3 | $D = \frac{1}{H}$ | ГОК Р З | REMARKS | 5 |
| | $\frac{1}{4}$ $\frac{5}{5}$ $\frac{6}{6}$ BOIL | TURED BY "FULTO | 1000 | 902 GAS | 120/1/ | 60 20 2 5 | 28Wx51Lx PROVIDE | K68H 2000 MANUFACTURER | RECOMMENDED CO | MBUSTION AIR IN | TAKE AND | #1 & ADDIT BOILER #2 | TION -S-21 | 21 C. | /-GO-30 | 325 8463 8 | 3.7% | 92 | _ | (208/3 | ,, (3/60) (. | 208/3/60 |) 24C30L | 0-3 (208 _/ | 73/60) | | |
| | O T O BURNER IN | EGRAL TO BOILER. | | | | - | EXHAUST LIMIT CON TEMPERAT | VENT PIPING, V NTROL, DUAL LO IURE SENSOR K | VENT PIPE CONDENS WWATER CUT OFFS KIT, MULTIPLE BOILE | SATE DRAIN, HIGH, S, OUTDOOR AIR R CONDENSATE | I/LOW | BOILER #3 | | | | | • | • | | | | | | | | | |
| | S INSTALL PE | R MANUFACTURER'S | | | | | NELLRALL | ZER PACKAGE, N | VENT PIPING PER T | | | | | | | | | | | | | | | | | | |
| | | TALLATION SHALL C | S RECOMMENDATIO | NS. | OF INSUR | ANCE | AL-29-4 LAG CONT | C OR 316L, BA TROLS, MOTORIZ | ACNET CONTROLS, D ED ISOLATION VALVE | ES, BOILER PUMP | CH, LEAD | N () AS I | MANUFACTURED | BY "H.B. SMITH". | - 17 | | | | | | | | | | <u>, </u> | | |
| | BOILER INS UNDERWRITE BE FULLY F GAS FIRED THE BOILFR | FALLATION SHALL C R, NFPA AND ALL IELD COMMISSIONEI (LPG OR NG). IF T S SHALL BE FULLY | S RECOMMENDATIO CONFORM TO ALL AUTHORITIES HAVI D BY AUTHORIZED THE TYPE OF GAS C RE-COMMISSION | NS. REQUIREMENTS (ING JURISDICTION) TECHNICIAN FO IS CHANGED AF IED BY AUTHORIZ | OF INSUR/ N. BOILER R THE TY TER STAF ZED TECHI | ANCE S SHALL (PE OF RTUP O NICIAN. | AL-29-4 LAG CONT START/ST HOT WATE | C OR 316L, BA TROLS, MOTORIZ OP SIGNAL, VEN ER BASED ON 1 | ACNET CONTROLS, D YED ISOLATION VALVE NTLESS GAS TRAIN, 140°F E.W.T., 160°F | L.W.T. | CH, LEAD | N (1) AS (O (2) AS (E (3) AS (| MANUFACTURED MANUFACTURED MANUFACTURED | BY "H.B. SMITH". BY "POWERFLAME BY "AUBURN". | - ". | | | | | | <u>, </u> | Y | | | Y | | |
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| MARK SERVICE | BOILER INS UNDERWRITE BE FULLY F GAS FIRED THE BOILER | TALLATION SHALL C TALLATION SHALL C TR, NFPA AND ALL TELD COMMISSIONEL (LPG OR NG). IF T S SHALL BE FULLY S SHALL BE FULLY MODEL COMPANY C | S RECOMMENDATION CONFORM TO ALL AUTHORITIES HAVI D BY AUTHORIZED THE TYPE OF GAS TRE-COMMISSION CHEDD HEAD FT.H $_2O$ RPM | NS. REQUIREMENTS (ING JURISDICTION TECHNICIAN FO IS CHANGED AF IED BY AUTHORIZ MOTOR EL HP/BHP SE | DF INSUR/ N. BOILER IR THE TY TER STAF ZED TECHI ED TECHI ECTRIC ERVICE | ANCE S SHALL PE OF RTUP O NICIAN. | AL-29-4 LAG CONT START/ST HOT WATE DATA WEIGHT | C OR 316L, BA TROLS, MOTORIZ OP SIGNAL, VEN ER BASED ON 1 | CNET CONTROLS, D CED ISOLATION VALVE NTLESS GAS TRAIN, 140°F E.W.T., 160°F <i>REMARKS</i> | L.W.T. | AME/NUMBER | $ \begin{array}{c} N & (1) & AS \\ O & (2) & AS \\ F & (3) & AS \\ S & S \\ \end{array} $ | MANUFACTURED MANUFACTURED MANUFACTURED | BY "H.B. SMITH". BY "POWERFLAME BY "AUBURN". SC REA PEOPLE | .". HEDULE B DENSITY | C C C C C C C C C C C C C C C C C C C | | D UTDOOR AIR FL | | DOM F | FLOV DW RATE | V RATE F NUMBER PEOPLI | ES OUTI OF RATE | G DOOR AIR FLC E WITHOUT ZO | H DW NE DISTRIBUTI | I MINIMUM ROOM N VENTILATION AIR | MINIMUM EXHAUST IR AIR FLOW |
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PHYSICAL 21Wx52Lx24/ 12Wx25Lx29/ - ULL BE INSPEC REPAIR PUMP (PROVIDE IN ANCER DEMO S. PHYSICAL 21Wx52Lx24/ 12Wx25Lx29/ - SHALL INCLUDE WITH SCREE SYPASS DAMPE</td><td>AL - 29 - 4 AL - 29 - 4 LAG CONT START/ST HOT WATE HOT WATE DATA WEIGHT H 11 H 90 H 90</td><td>C OR 316L, BA TROLS, MOTORIZ OP SIGNAL, VEN ER BASED ON 1 CO RL CO COL SULATED TO E CO COL CO COL C</td><td>REMARKS REFER TO Q 3 EFER TO Q 4 EXISTING EFER TO Q 4 EXISTING EXISTING EFER TO Q 4 EXISTING EFER TO Q 4 EXISTING EXISTING EFER TO Q 4 EXISTING EXISTING EFER TO Q 4 EXISTING E</td><td>IS MANUFACTORE DISCONNECT SWITC ES, BOILER PUMP MODSYNC CONTR L.W.T. ROOM N CLAS CONFEI OF OF MIDDLE HICH S CLAS CLAS CLAS CLAS CLAS CLAS CLAS</td><td>EK CH, LEAD ROL PANEL. ROL PANEL. ROL PANEL. ROL PANEL. 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SC. </td> <td></td> <td>E OF MINIM C C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON) 10 5 5 5 5 5 5 5 5 5 5 7 20 10 10 10 10 10 10 10 10 10 1</td> <td></td> <td>ENTILAT D UTDOOR AIR FL D UTDOOR AIR FL O.12 0.06 0.06 0.06 0.06 0.06 0.06 0.12 0.1</td> <td></td> <td>DOM F E ST AIR FLO CFM/SQ.FT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td> <td>V RATE F NUMBER PEOPLE (A×B)÷1000 27 19 1 1 1 1 1 1 1 1 27 19 27 19 27 19 27 19 27 19 27 19 27 19 27 19 27 19 27 19 27 19 27 19 27 19 27 27 19 1 27 3 27 3 26 27 24 24 24 24 24 24 24 24 24 24</td> <td></td> <td>G G DOOR AIR FLO E WITHOUT ZO FECTIVENESS FACTOR 359 118 11 12 - 21 2032 740 25 321 333 333 333 333 333 346 495 494 429 77 77 77 77 <!--</td--><td>H DW ZONE AIR DISTRIBUTI EFFECTIVEN FACTOR 0.8</td><td>I I MINIM UM ROOM VENTILATION AII FLOW RATE G÷H=CFM 147 1449 147 14 147 14 14 14 14 14 147 14 147 14 147 14 142 143 1451 924 31 402 402 402 402 402 402 402 402 402 402 416 416 416 416 416 416 97 97 97 97 97 97 97</td><td>MINIMUM EXHAUST AIR FLOW RATE A×E=CFM 0</td></td> | C OR 316L, BA TROLS, MOTORIZ OP SIGNAL, VEN ER BASED ON 1 CO RL CO COL CO CRL CO | REMARKS FFER TO 23 EFER TO 24 EXISTING NOT REPORT EXISTING REMARKS REFER TO 34 34 34 34 34 34 | HIS MANUFACTORE DISCONNECT SWITC ES, BOILER PUMP MODSYNC CONTR L.W.T. | EK CH, LEAD ROL PANEL. 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(#P/1000) Image: Solution of the second of the sec</td><td></td><td>E OF MINIM C C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON) 10 5 5 5 5 5 20 20 10 10 10 10 10 10 10 10 10 1</td><td></td><td>ENTILAT D UTDOOR AIR FL D UTDOOR AIR FL D UTDOOR AIR FL O.12 0.06 0.06 0.06 0.06 0.06 0.12 0.1</td><td></td><td>DOM F E ST AIR FLO CFM/SQ.FT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td></td><td>V RATE F NUMBER PEOPLE (A×B)÷1000 27 19 1 1 1 1 1 1 1 3 45 50 2 45 50 2 4 45 50 2 4 4 50 2 4 50 2 4 5 50 2 4 5 5 6 3 3 9 449 25 25 25 25 33 39 449</td><td></td><td>G DOOR AIR FLO E WITHOUT ZOS FACTOR C)+(A×D)=CFN 359 118 11 11 12 - 21 2032 740 25 321 321 321 321 321 321 321 321</td><td>H DW ZONE AIR DISTRIBUTI EFFECTIVEN FACTOR 0.8</td><td>I I MINIMUM ROOM VENTILATION All FLOW RATE G+H=CFM 449 147 14 147 14 15 26 2102 402 402 402 402 402 402 416 416 416 416 97<td>MINIM UM EXHAUST AIR FLOW RATE A×E=CFM 0</td></td></t<></td></t<> | C OR 316L, BA TROLS, MOTORIZ OP SIGNAL, VEN ER BASED ON 1 CO RL CO CRL CO | REMARKS EFER TO 23 EFER TO 24 EXISTING REPORT EXISTING REFER TO 34 COLL, FULL ADAPTER PACKAGE, DISCHARG ADAMPER, FACE | HIS MANUFACTORE DISCONNECT SWITC ES, BOILER PUMP MODSYNC CONTR L.W.T. | EK CH, LEAD ROL PANEL. ROL PANEL. ROL PANEL. ROL PANEL. RENCEROM 102 FICE 112 FICE 112 FICE 112 FICE 112 FICE 118 RENCE ROOM 102 FICE 118 RENCE ROOM 102 FICE 118 RENCE ROOM 102 FICE 141A SCHOOL GYM 131 H205 NG COMMONS 143 FICE 141A SROOM 143 FICE 141A SROOM 143 FICE 141A SROOM 145 H206 SCHOOL GYM 179 ARY GYM 177 H207 AFETERIA H209 SROOM 221 SROOM 223 SROOM 223 SROOM 224 SROOM 224 SROOM 225 SROOM 225 SROOM 225 SROOM 225 SROOM 226 SROOM 226 SROOM 227 FICE 239 FICE 240 H211 NG STUDIO 312 | N Image: Arrow of the second seco | MANUFACTURED Segory ROOM A (SQ.F1) ES 9+) 743 ENA 6287 ENA 6287 ENA 6287 ENA 8987 ENA 8987 ENA 8987 ENA 5507 FOOD 4488 Se 9+) 691 ENA 691 ES 9+) 691 ES 9+) <t< td=""><td>BY "H.B. SMITH". BY "POWERFLAME BY "AUBURN". SC. REA PEOPLE T.) 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66 0 81 0 35 10 0.12 0 4 53 0.8 0.8 65 12 150 0.06 0 5

WORK NOTES:

(1) NOT USED

- CIRCUIT NEW EMERGENCY LIGHTING TO EXISTING EMERGENCY CIRCUIT SERVING CORRIDOR. EC TO CONFIRM CIRCUIT IN FIELD. PROVIDE 2#12+1#12G IN 3/4"C FROM NEW LIGHTS TO EXISTING LIGHT FIXTURES.
- CIRCUIT NEW NORMAL LIGHTING ON EXISTING LIGHTING CIRCUIT IN THIS AREA. CIRCUIT NUMBER ARE FOR REFERENCE ONLY. EC TO CONFIRM CIRCUIT # IN FIELD. PROVIDE 2#12+1#12G IN 3/4"C FROM SOURCE PANELBOARD TO FEED NEW LIGHT FIXTURES. PROVIDE NEW KEY SWITCH AS SHOWN.
- 4 circuit exit lights to the em lighting circuit in this area, ahead of any switching.

LIGHTING CONTROL AND SEQUENCE OF OPERATION:

- 1. NEW LEARNING COMMONS ILAB ARE CONTROLLED VIA MANUAL ON DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. IT CONSISTS OF FULL DIMMING CAPABILITY OF THREE ZONES. WALL SWITCHES CONSISTS OF 'A', 'B', 'C' 'OFF', 'RAISE', AND 'LOWER' BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. UL 924 EMERGENCY LIGHTING RELAY ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON 100% IN THE EVENT OF EMERGENCY.
- 2. SMALL GROUP ROOMS ARE CONTROLLED VIA DIMMER SWITCH WITH FULL DIMMING CAPABILITY. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. EMERGENCY LIGHTING RELAY ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON 100% IN THE EVENT OF EMERGENCY.
- 3. OFFICES AND SEMINAR ROOMS ARE CONTROLLED VIA MANUAL ON DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. EACH OFFICE CONSISTS OF FULL DIMMING CAPABILITY. WALL SWITCHES CONSISTS OF 'ON', 'RAISE', 'LOWER', AND 'OFF' BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. UL 924 EMERGENCY LIGHTING RELAY ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF EMERGENCY.
- 4. ALL RENOVATED LOBBY AREAS SHALL BE CONTROLLED VIA EXISTING LOCAL WALL SWITCHES. OVER LAPPED LONG RANGE OCCUPANCY SENSORS (AUTO ON, AUTO OFF) IN EACH CORRIDOR WILL FUNCTION INDEPENDENTLY AS LOCAL ZONES.
- 5. ALL RENOVATED LOBBY AREAS SHALL BE CONTROLLED VIA TWO SEPARATE EXISTING MANUAL WALL MOUNTED KEY SWITCHES AND OCCUPANCY SENSORS. THE OCCUPANCY SENSORS SHALL HAVE AUTO ON-AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS IN THE DESIGNATED ZONE OFF AFTER 20 MINUTES WHEN CORRIDOR IS VACANT. THE OCCUPANCY SENSOR SHALL CONTROL ONLY NORMAL/NON-EMERGENCY LIGHTING. THE LIGHTING FIXTURE DESIGNATED WITH EMERGENCY FEATURE SHALL BE CONTROLLED VIA WALL MOUNTED KEY SWITCH . UL 924 EMERGENCY LIGHTING RELAY (R) ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF LOSS OF POWER.

<u>GENERAL NOTES:</u>

- 1. REFER TO DRAWING E2-001 FOR LEGEND AND LIGHTING CONTROL AND E2-601 FOR LIGHTING FIXTURE SCHEDULE.
- 2. REFER TO DRAWING E2-600 SERIES FOR PANELBOARD SCHEDULES.
- 3. REFER TO DRAWING E2-701 AND E2-702 FOR LIGHTING CONTROL WIRING DIAGRAMS AND DETAILS.
- 4. NORMAL SIDE SENSING LINE ON ALL EMERGENCY LIGHTING RELAY SHALL BE CIRCUITED TO THE NORMAL LIGHTING CIRCUIT IN THE ROOM/AREA IT SERVES.
- 5. FOR ALL AREAS CONTROLLED BY ROOM CONTROLLER "RC", ELECTRICAL CONTRACTOR IS TO CIRCUIT ROOM CONTROLLER, THEN EXTEND LINE VOLTAGE CIRCUITRY TO EACH OF THE LIGHT FIXTURES DEPENDING ON CONTROL ZONES. REFER TO ROOM CONTROLLER WIRING DIAGRAM DETAILS ON DRAWING E2-702.
- 6. ALL EXIT LIGHTS SHALL BE CIRCUITED TO NORMAL LIGHTING CIRCUIT IN THE AREA, AHEAD OF ANY SWITCHING.
- 7. SET LIGHTING CONTROL SENSORS TO HIGHEST SENSITIVITY AVAILABLE PRIOR TO INSTALLATION.

| 1. / | | |
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ALL RENOVATED LOBBY AREAS SHALL BE CONTROLLED VIA TWO SEPARATE EXISTING MANUAL WALL MOUNTED KEY SWITCHES AND OCCUPANCY SENSORS. THE OCCUPANCY SENSORS SHALL HAVE AUTO ON-AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS IN THE DESIGNATED ZONE OFF AFTER 20 MINUTES WHEN CORRIDOR IS VACANT. THE OCCUPANCY SENSOR SHALL CONTROL ONLY NORMAL/NON-EMERGENCY LIGHTING. THE LIGHTING FIXTURE DESIGNATED WITH EMERGENCY FEATURE SHALL BE CONTROLLED VIA WALL MOUNTED KEY SWITCH . UL 924 EMERGENCY LIGHTING RELAY (R) ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF LOSS OF POWER.

(1) CIRCUIT FIXTURE TO EMERGENCY LIGHTING CIRCUIT IN THE AREA.

(2) CIRCUIT FIXTURE TO STAIRWAY EMERGENCY LIGHTING CIRCUIT AND CONTROLS.

| GENERAL NOTES: 1. REMOVAL AND RELOCATING OF ALL SECURITY CAMERAS AND WIRELESS ACCESS POINTS SHALL BE DONE BY OWNER. | |
|---|--|
| 2. COORDINATE EXACT FINAL LOCATION OF ALL AV RELATED BOXES AND EQUIPMENT WITH AV2 DRAWING AND VENDOR BEFORE THE START OF ANYWORK. ELECTRICAL CONTRACTOR SHALL NOT START INSTALLATION UNTIL YOU THEY HAVE A SIGN OF FROM SCHOOL DISTRICT AND CONSTRUCTION MANAGER. | |
| WORK NOTES: | |
| (1) ELECTRICAL CONTRACTOR SHALL CONNECT VFD TO EACH HOT WATER PUMP. | |
| 2 PROVIDE 2#18 WITH DRY CONTACTS FROM PANEL MH-HV-2B TO DISCONNECT. | |
| PROVIDE 2#18 WITH DRY CONTACTS FROM PANEL PP-3 TO DISCONNECT. | |
| PROVIDE 2#18 WITH DRT CONTACTS FROM FANEL FF-5 TO DISCONNECT. PROVIDE RECEPTACLE FOR CHEMICAL FEED. COORDINATE EXACT LOCATION OF RECEPTACLE WITH MECHANICAL CONTRACTOR | |

| -3 SETS OF 4#500KCMIL +1#3/00RD IN 3.5"C T MDB ECT. #2 480V | |
|--|--|
| TORAGE EXTERIOR MOUNTED MAIN ELECTRIC SERVICE AND DISTRIBUTION BOARD EQUIPMENT | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | |
| <u>.S.</u> | |

WORK NOTES:

 \bigcirc UTILIZE THE AVAILABLE 3P–800AMP SPARE BREAKER AND PROVIDE CONDUIT AND WIRE SIZED AS INDICATED. REFER TO FLOOR PLANS FOR CONDUIT RUN.

2 PROVIDE NEW 277/480V DISTRIBUTION BOARD. FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES. X 3 REFER TO PANEL SCHEDULE FOR BREAKER SIZE AND PROVIDE CONDUIT AND FEEDER AS INDICATED TO SERVE NEW

STEP-DOWN TRANSFORMER. 4 PROVIDE NEW PAD MOUNTED STEP-DOWN 225KVA TRANSFORMER RATED 480V DELTA TO 208V WYE. POWER SMITHS E-SAVER 2016-HP. MAINTAIN ALL CLEARANCES AND PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES. REFER TO SPECIFICATION FOR ADDITIONAL TRANSFORMER CRITERIA.

5 PROVIDE NEW 120/208V PANELBOARD AND ALLOW FOR MOUNTING AREA FOR FUTURE SECTION 2. FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES.

6 PROVIDE NEW 3P-200AMP BREAKER IN AVAILABLE SPACE. PROVIDE CONDUIT AND WIRE SIZED AS INDICATED. REFER TO FLOOR PLANS FOR CONDUIT RUN.

PROVIDE NEW 120/208V PANELBOARD. FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES.

| (N | EW | /) | ELEC | TR | | NL F | PAM | VEL | SC | HEL | DU | | E | (HIGH SCHOOL) | | | (N) | FИ | <u>()</u> | | FI FC | | 2 |
|-----------------------|-----------------------|--------------------------------------|--------------------------|----------------|----------------|--------------|--------------|---------|-------------------|-----------|-------------|---------------|--------------------------|-------------------------|------------------|--------------|------------|---------------|--------------|------------------|-----------------|-----------|----------|
| NL: | BP-h | v IV | MOUNTING: | SURI | FACE | X | M | AIN LUC | GS ONL | Y | МА | AIN | C BKR- | GROUND | BUS: | x | PNL: | MP. | •) -HV | -2A | MOUNTING: | SUF | N |
| 480Y | /277, 3 | PHASE, 4 WIRE | <u>(NEMA 1)</u> | FL | LUSH | | | DOUB | LE LUG | s | | 20 | 00A/3P | ISOLATED GROUND | BUS: | | 480Y | /277, | 3 PI | HASE, 4 WIRE | <u>(NEMA 1)</u> | | =L |
| 22 NEUT | ,000N <u>TRAL:</u> | 1IN A.I.C. SYM <u>100%</u> | | IN | мсс | | F Sh | FEED TH | IRU LU RIP MAI | G N | | AIN 2 | BUS - 200 A | NUMBER OF PO | DLES: | 42 | 65 NEU1 | ,0001 RAL | MIN : 10 | A.I.C. SYM 0% | | " | // |
| СКТ | TRIP | LOAD | WIRE | CND. | KVA | A/PH/ | 4SE | | KVA / F | PHASE | CN | ID. | WIRE | LOAD | TRIP | скт | СКТ | TRIP | » | LOAD | WIRE | CND | |
| No. | (AMP) | | | (IN.) | Α | В | С | | A B | C | (IN | V.) | | | (AMP) | No. | No. | (AMP) |) | | | (IN., | <u>,</u> |
| 1 | 3 | | - | - | 10.8 | 40.0 | | | | | - | - | - | | 3 | 2 | 1 | 3 | | | | |] |
| 3 5 | 50 | <i>пw</i> -1 | 3#8+1#10G - | 3/4 - | | 10.8 | 10.8 | | | | - 3/ | - | 3#8+1#10G - | <i>ПVVF-2</i> | 50 | 4 6 | 3 5 | 25 | ; | CU-8 | 3#12+1#120 | 3/4 | _ |
| 7 | 3 | | - | - | 7.21 | 7.04 | | | | | - | - | - | | 3 | 8 | 7 | 3 | \uparrow | | | | |
| 9 11 | /30 | 11WF-5 | | - | | 1.21 | 7.21 | | | | - | - | - - | + | 30 | 12 | 9 11 | 25 | ; | C <i>U-</i> 9 | 3#10+1#100 | 3 3/4 | _ |
| 13 | 3 | | - | - | 7.21 | 7.04 | | | | | - | - | - | | 3 | 14 | 13 | 3 | | 011.0 | | | |
| 15 17 | 30 | HWP-5 | 3#10+1#10G - | 3/4 | | 7.21 | 7.21 | | | | 3/ | /4 3 - | 3#10+1#10G - | HWP-6 | /30 | 16 18 | 15 17 | 50 | , | C <i>U-</i> 6 | 3#8+1#10G | G 3/4 | _ |
| 19 | 3 | | - | - | 0.69 | | | 0. | .69 | | - | - | - | | 3 | 20 | 19 | 3 | \uparrow | | | | |
| 21 23 | 20 | HWP-7 | 3#12+1#12G - | 3/4 - | | 0.69 | 0.69 | | 0.6 | 9 0.6 | 3/ 9 - | /4 3 - | 3#12+1#12G - | HWP-8 | 20 | 22 24 | 21 23 | /35 | ; | ERU-6 | 3#8+1#10G | G 3/4 | _ |
| 25 | 3 | | - | - | 0.69 | | | | | | - | | - | SPARE | 20 | 26 | 25 | 20 | SF | PARE | - | - | |
| 27 29 | 20 | HWP-9 | 3#12+1#12G - | 3/4 - | | 0.69 | 0.69 | | | | - | - - | - | SPARE SPARE | 20 20 | 28 30 | 27 29 | 20 20 | SF SF | PARE PARE | - | - | _ |
| 31 | 20 | SPARE | - | - | | | | | | | - | - | - | SPARE | 20 | 32 | 31 | 20 | SF | PARE | - | - | |
| 33 35 | 20 20 | SPARE SPARE | - | - | | | | | | | - | - | - | SPARE SPARE | 20 20 | 34 36 | 33 35 | 20 20 | SF SF | PARE PARE | - | - | |
| 37 | 20 | SPARE | - | - | | | | | | | - | - | - | SPARE | 20 | 38 | 37 | 20 | SF | PARE | - | - | |
| 39 41 | 20 20 | SPARE SPARE | - | - | | | | | | | - | - | - | SPARE SPARE | 20 20 | 40 42 | 39 41 | 20 20 | SF SF | PARE PARE | - | - | _ |
| | | SUBTOTALS | | | 26.6 | 26.6 | 26.6 | 0 | 0.7 0.7 | 7 0.7 | 7 | | | SUBTOTALS | | | | | sι | JBTOTALS | | - | |
| | | TOTAL LOADS | | 27.3 | κνα | PHAS | SE A | | | | | | LIGHTING: | 0.00 KVA | | | | | тс | TAL LOADS | | 81.7 | , |
| | | | | 27.3 | KVA KVA | PHAS PHAS | E B E C | _ | | | R | REC | EPTACLE: KITCHEN: | 0.00 KVA | - | | | | _ | | | 81.7 | , |
| | | TOTAL CONN. LOAD | | 82 | KVA | 99 | A | | | | | | MOTOR: | 81.90 KVA | | | | | тс | TAL CONN. LOAD | | 245 | ; |
| | | TOTAL DEMAND LOA | D | 82 | KVA | 99 | А | _ | | | | | POWER: | 0.00 KVA | - | | | | тс | TAL DEMAND LOAL |) | 245 | |
| | | | | | | | | | | | | | IOTAL. | | | | | | | | | | _ |
| (N | EN | /) | ELEC | CTR | RICA | AL I | PAI | NEL | SC | HE | DU | IL | E | (HIGH SCHOOL) | | | (1 | VE | W |) | ELE | EC7 | 7 |
| PNL | : PP-3 | } | MOUNTING: | SUR | FACE | X | M | IAIN LU | GS ONL | _Y | M | AIN | C BKR- | GROUNL |) BUS: | x | PN | IL: M | 1H-F | IV-2B | MOUNTIN | VG: S | U |
| 208 Y | //120, 3 | 3 PHASE, 4 WIRE | <u>(NEMA 1)</u> | F | LUSH | | | DOUB | LE LUG | s | | 4 | 00A/3P | ISOLATED GROUND | BUS: | _ | 480 | 0Y/27 5 0(| '7, 3 00М | PHASE, 4 WIRE | (NEMA | <u>1)</u> | |
| 42 NFU | ,0001 TRAI | /IN A.I.C. SYM | | IN | мсс | | | FEED TH | HRU LU | IG IN | M. | IAIN | ' BUS - 400 A | NUMBER OF P | TVSS: | 42 | NE | UTR/ | <u>AL:</u> | <u>100%</u> | | | |
| СКТ | | LOAD | WIRE | CND | ĸv | A/PH | ASE | | KVA / I | PHAS | | ND. | WIRE | LOAD | | скт | ск | T TF | RIP | LOAD | WIRE | E C | NI |
| No. | (AMP) | | | (IN.) | A | В | С | | A E | 3 C | : (11 | 'N.) | | | (AMP) | No. | No |). (Al | MP) | | | (/ | 'N |
| 1 | 20 | ROOM RECEPT | 2#12+1#12G | 3/4 | 1.62 | | | 0 | 0.50 | | 3 | 3/4 | 2#12+1#12G | MAG HOLDERS | 20 | 2 | 1 | 3 | Λ | CU-1 | - 3#8+1#1 | 10G 3 | - 3/4 |
| 3 5 | 20 20 | ROOM RECEPT | 2#12+1#12G | 3/4 3/4 | | 1.62 | 1.62 | | 0.9 | 97 1.(| 3 | 3/4 3/4 | 2#12+1#12G 2#12+1#12G | LEARING SUITE | 20 20 | 4 6 | 5 | | 50 | | - | | - |
| 7 | 20 | COORDIOR RECEPT | 2#12+1#12G | G 3/4 | 1.44 | | | 0 | .21 | | 3 | 3/4 | 2#12+1#12G | HP-A. B | 2 | 8 | 7 | 3 | Λ | CU-2 | - | | - |
| 9 | 20 | | 2#12+1#12G | G 3/4 | | 1.20 | 1 09 | | 0.2 | 21 | 20 2 | - | - | | 20 | 10 | 9 11 | , /, | 50 | 00-2 | - 3#0+1#1 | | - |
| 11 13 | 20 20 | COORDIOR RECEPT | 2#12+1#12G 2#12+1#12G | 3/4 3 3/4 | 1.20 | | 1.08 | 0 | .21 | 1.0 | 3 | 3/4 3/4 | 2#12+1#12G 2#12+1#12G | | 20 | 12 14 | 13 | 3 | | 50114 | - | | - |
| 15 | 20 | AV RACK | 2#12+1#12G | G 3/4 | | 1.00 | | | 0.2 | 21 | | - | - | HP-A,C | 20 | 16 | 18 | -/ | / 35 | ERU-1 | 3#8+1#1 | 10G 3 | 3/4 - |
| 17 19 | 20 20 | AV RACK AV RACK | 2#12+1#12G 2#12+1#12G | 3/4 3 3/4 | 1.00 | | 1.00 | 1 | .90 | 1.9 | 0 3 | 3/4 - | 2#12+1#12G - | ERU-8 | 2 | 18 20 | 19 | 3 | 7 | | - | | - |
| 21 | 20 | OUTDOOR RECEPT | 2#12+1#12G | 3/4 | | 1.00 | | | 0.8 | 30 | 3 | 3/4 | 2#12+1#12G | ELEV SHAFT LGT | 20 | 22 | 21 23 | <u> </u> | / 35 | ERU-2 | 3#8+1#1 | 10G 3 | 3/4 |
| 23 25 | 20 20 | FSD EF-4 | 2#12+1#12G 2#12+1#12G | ; 3/4 ; 3/4 | 0.50 | | 0.50 | 1 | .00 | 0.1 | 18 3 3 | 3/4 3/4 | 2#12+1#12G 2#12+1#12G | ELEV SHAFT POWER | 2 20 | 24 26 | 25 | 5 2 | 20 | SPARE | - | | - |
| 27 | 20 | FLAT PANEL | 2#12+1#12G | ; 3/4 | | 1.00 | | | 1.0 | 00 | | - | - | TELECOIL | 20 | 28 | 27 | 7 2) 2 | 20 | SPARE SPARE | - | | - |
| 29 31 | 20 20 | FLAT PANEL FLAT PANFI | 2#12+1#12G | 3/4 | 1.00 | | 1.00 | 1 | 00 | 1.0 | 0 3 | 3/4 3/4 | 2#12+1#12G 2#12+1#12G | FLAT PANEL | 20 20 | 30 32 | 31 | 2 | 20 | SPARE | - | | - |
| 33 | 20 | FLAT PANEL | 2#12+1#12G | G 3/4 | | 1.00 | | | | 00 | 3 | 3/4 | 2#12+1#12G | FLAT PANEL | 20 | 34 | 33 | 2 5 2 | 20 | SPARE SPARE | - | | - |
| 35 | 20 | AV RACK | 2#12+1#12G | 3/4 | 0.50 | | 1.00 | | 50 | 1.0 | 0 3 | 3/4 2/4 | 2#12+1#12G 2#12+1#12G | FLAT PANEL | 20 | 36 38 | 37 | / 2 | 0 | SPARE | - | | - |
| 39 | 20 | SPARE | - | - | 0.00 | | | | | | | - - | - | SPARE | 20 | 40 | 39 |) 2 | 20 | SPARE | - | | - |
| 41 | 20 | SPARE | - | - | | | | | | | | - | - | SPARE | 20 | 42 | | | | SUBTOTALS | | | |
| | | SUBTOTALS | | 126 | 7.26 | 6.82 | 6.20 | 5 | .32 4.1 | 19 6.0 | 8 | | | SUBTOTALS | | | | | | TOTAL LOADS | | 8 | 3. |
| | | TOTAL LOADS | | 11.0 | KVA | PHA: PHA: | SE A SE B | - | | | , | REC | EIGHTING: EPTACLE: | 2.77 KVA 11.08 KVA | | | | | | | | 8 | 3. 2 |
| | | | | 12.3 | KVA | PHAS | SE C | | | | | | KITCHEN: | 0.00 KVA | | | | | - | TOTAL CONN. LOAD |) | 2 | :5 |
| | | TOTAL CONN. LOAD TOTAL DEMAND LOA | D | 35.9 | KVA KVA | ### 98.0 | A A | _ | | | | | MOTOR: POWER: | 5.14 KVA 16.88 KVA | | | | | | TOTAL DEMAND LO | AD | 2 | :5 |
| | | | | 1 | | 1 | | | | | | | TOTAL: | 35.87 KVA | | | | | | | | | |
| | | Δ | | <u> </u> | | <u></u> | | | <u> </u> | | | | | | <u> </u> | | 1 | | | | | | |
| | | /) | ELE | , F | KIC/ | 4 <u>L</u> | PA | NEL | . 50 | | | | | | -) | | | | | | | | |
| <i>PNL</i> 2083 | .: BP- Y/120, | MV 3 PHASE, 4 WIRE | MOUNTING: (NEMA 1) | SUF | RFACE FLUSH | <u>x</u> | | DOUE | IGS ON | LY GS | | /IAIN 1 | N C BKR- | GROUN ISOLATED GROUN | D BUS: D BUS: | <u>×</u> | | | | | | | |
| 22 | ,000 | MIN A.I.C. SYM | | | м мсс | | | FEED T | 'HRU LI | IJG | | //AIN | N BUS - | | TVSS: | , | | | | | | | |
| | | <u>: 100%</u> | | - | . 1 | <u> </u> | S | | RIP MA | | | | 100 A | NUMBER OF F | POLES: | : <u>24</u> | | | | | | | |
| CKT | TRIP (AMP) | LOAD | WIRE | CND (IN.) |) KV | A/PH B | ASE | ┤┟ | KVA/ | PHAS | | :ND. (IN.) | WIRE | LOAD | TRIF (AMP) | CKT | | | | | | | |
| 1 | 30 | BOILER 1 | 2#10+1#100 | G 3/4 | 2.40 | | | | 2.40 | | | 3/4 | 2#10+1#100 | BOILER 3 | 30 | 2 | | | | | | | |
| 3 | | SHUNT TRIP | | | | | | | | | | | _ | SHUNT TRIP | | 4 | | | | | | | |
| 5 7 | 20 20 | SPARE BOILER 2 | - 2#10+1#100 | - 3 3/4 | 2.40 | | | | 0.40 | 0. | 40 : | 3/4 3/4 | 2#12+1#12G | GAS DETECTOR | 20 20 | 6 8 | | | | | | | |
| 9 | | SHUNT TRIP | | | | | | | 1. | 00 | | 3/4 | 2#12+1#120 | CHEMICAL FEED | 20 | 10 | | | | | | | |
| 11 | 20 | SPARE | | | | | | ┤┞ | | | | - | | SPARE | 20 | 12 | | | | | | | |
| 13 | 20 | SPARE | - | | | | | | | | | - | - | SPARE | 20 | 14 16 | | | | | | | |
| 17 | 20 | SPARE | - | - | | | |] [| | | | - | - | SPARE | 20 | 18 | | | | | | | |
| 19 21 | 20 20 | SPARE SPARE | - | - | | | | | | | | - | - | SPARE SPARE | 20 20 | 20 22 | | | | | | | |
| 23 | 20 | SPARE | - | - | | | | | | | | • | - | SPARE | 20 | 24 | | | | | | | |
| | | SUBTOTALS | | _ | 4.80 | 0.00 | 0.00 | | 2.80 1. | 00 0. | 40 | | | SUBTOTALS | | | | | | | | | |
| | | IUIAL LOADS | | 7.6 | KVA KVA | PHA PHA | SE A SE B | - | | | | RE | LIGHTING: CEPTACLE: | U.00 KVA | - | | | | | | | | |
| | | | | 0.4 | KVA | PHA | SE C | | | | | | KITCHEN | 0.00 KVA | | | | | | | | | |
| | | TOTAL CONN. LOAD | AD. | 9.0 9.0 | KVA KVA | 25.0 25.0 | A A | - | | | | | POWER | 4.80 KVA 2.80 KVA | - | | | | | | | | |
| | | | | | | | | - | | | | | TOTAL | 9.00 KVA | | | | | | | | | |

| .EC | TR | ICA | AL I | PA | NE | L S | СН | ED | UL | E | (HIGH SCHOOL) | | |
|--------|-------|------|----------|------|--------|--------|---------------|------|-------|-----------|-----------------|-------|-----------|
| ITING: | SURF | ACE | <u>x</u> | M | IAIN L | UGS | ONLY | | MAIN | C BKR- | GROUND | BUS: | <u>x</u> |
| IA 1) | FL | .USH | | | DOL | IBLE L | .UGS | | 8 | 00A/3P | ISOLATED GROUND | BUS: | |
| | IN | мсс | | | FEED | THRU | LUG | | MAIN | I BUS - | ר | vss: | |
| | | | | SI | HUNT | TRIP I | NAIN | | | 800 A | NUMBER OF PC | DLES: | <u>42</u> |
| IRE | CND. | KV | 4 / PH. | ASE | | ĸv | 4 / PH. | ASE | CND. | WIRE | LOAD | TRIP | скт |
| | (IN.) | A | В | С | | A | В | С | (IN.) | | | (AMP) | No. |
| | | 4.5 | | | | 16.6 | | | - | | | 3 | 2 |
| •1#12G | 3/4 | | 4.5 | | | | 16.6 | | 3/4 | 3#4+1#8G | RTU-1 | | 4 |
| | | | | 4.5 | | | | 16.6 | - | | | / 80 | 6 |
| | | 4.5 | | | | 16.6 | | | - | | | 3 / | 8 |
| ·1#10G | 3/4 | | 4.5 | | | | 16.6 | | 3/4 | 3#4+1#8G | RTU-2 | | 10 |
| | | | | 4.5 | | | | 16.6 | - | | | / 80 | 12 |
| | | 11.4 | | | | 7.90 | | | - | | | 3 | 14 |
| 1#10G | 3/4 | | 11.4 | | | | 7.90 | | 3/4 | 3#8+1#10G | CU-13 | | 16 |
| | | | | 11.4 | | | | 7.90 | - | | | / 35 | 18 |
| | | 8.80 | | | | 11.4 | | | - | | | 3 | 20 |
| 1#10G | 3/4 | | 8.80 | | | | 11.4 | | 3/4 | 3#8+1#10G | CU-5 | | 22 |
| | | | | 8.80 | | | | 11.4 | - | | | / 50 | 24 |
| - | - | | | | | | | | - | - | SPARE | 20 | 26 |
| - | - | | | | | | | | - | - | SPARE | 20 | 28 |
| - | - | | | | | | | | - | - | SPARE | 20 | 30 |
| - | - | | | | | | | | - | - | SPARE | 20 | 32 |
| - | - | | | | | | | | - | - | SPARE | 20 | 34 |
| - | - | | | | | | | | - | - | SPARE | 20 | 30 |
| - | - | | | | | | | | - | | TRANSFORMER FOR | | 30 |
| - | | | | | | | | | | | PP-MV-2A | 350 | 40 |
| - | | | | | | | | | _ | | | /300 | 72 |
| | | 29.2 | 29.2 | 29.2 | | 52.5 | 52 <i>.</i> 5 | 52.5 | | | SUBTOTALS | | |
| | 81.7 | KVA | PHAS | SE A | | | | | | LIGHTING: | 0.00 KVA | | |
| | 81.7 | KVA | PHAS | SE B | | | | | REC | CEPTACLE: | 0.00 KVA | | |
| | 81.7 | KVA | PHAS | SE C | | | | | | KITCHEN: | 0.00 KVA | | |
| | 245 | KVA | 295 | A | | | | | | MOTOR: | 245.10 KVA | | |
| | 245 | ĸvA | 295 | A | | | | | | POWER: | 0.00 KVA | | |
| | | | | | | | | | | IUTAL: | 243.10 AVA | | |

| (NEW) ELECTRICAL PANEL SC | HEDULE | | L | IGHT | ING FIXTURE SCHEDL | JLE |
|---|--|------------------|---------------------------------|------------------------|--|--|
| PNL: PP-SEC MOUNTING: SURFACE X MAIN LUGS ON 208Y/120, 3 PHASE, 4 WIRE (NEMA 1) FLUSH DOUBLE LU | MAIN C BKR- GROUND BUS: X GS 100A/3P ISOLATED GROUND BUS: I | TYPE | | LAMPS 31 WATTS | DESCRIPTION 2X2 RECESSED FIXTURES 4000 LUMENS 3500K | MANUFACTURER & CAT.# MANUFACTURER: LITHONIA LIGHTING |
| 22,000MIN A.I.C. SYM IN MCC FEED THRU L NEUTRAL: 100% SHUNT TRIP M | UG MAIN BUS - TVSS: AIN 225 A NUMBER OF POLES: 42 | R1 | RECESSED MOUNTED | | COLOR TEMP. 80 CRI. WITH DRYWALL ADAPTER | EPANL-2X2-4000LM-80CRI-35K- MIN1-ZT-MV0LT-E10WCP-GGA2 |
| CKT TRIP LOAD WIRE CND. KVA / PHASE KVA / No. (AMP) Image: Ample and the second | PHASE CND. WIRE LOAD TRIP CKT B C (IN.) (AMP) No. 3/4 2#12+1#12G ENTRANCE RECEPT 20 2 | R1 EM | CEILING RECESSED MOUNTED | LED UNV | EMERGENCY LIGHTING CIRCUIT. | EPANL-2X2-4000LM-80CRI-35K- MIN1-ZT-MV0LT-E10WCP-GGA2 |
| 3 20 SEC RECEPT 2#12+1#12G 3/4 5 20 SEC RECEPT 2#12+1#12G 3/4 7 20 SEC RECEPT 2#12+1#12G 3/4 0.10 9 2 2#12+1#12G 3/4 1.04 0.10 | 3/4 2#12+1#12G DRINKING FOUNTAIN 20 4 0.18 3/4 2#12+1#12G ERU-10 20 6 3/4 2#12+1#12G HP-B 2 8 10 | R2 | CEILING RECESSED MOUNTED | 46 WATTS LED UNV | 2X2 RECESSED FIXTURES . 4800 LUMENS, 3500K COLOR TEMP. WITH GRID ADAPTOR. | MANUFACTURER: MARK LIGHTING WHSPR—2X2—90CRI—35K—4800LM—MIN1 —MVOLT—SWC |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1.00 3/4 2#12+1#12G FIRE DOOR 20 12 3/4 2#12+1#12G CP-1 20 14 50 3/4 2#12+1#12G EF-5 20 16 | R2 EM | CEILING RECESSED MOUNTED | 46 WATTS LED UNV | SAME AS FIXTURE "R2" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: MARK LIGHTING WHSPR—2X2—90CRI—35K—4800LM—MIN1 —MVOLT—SWC |
| 17 20 SPARE - </td <td>- - SPARE 20 18 - - SPARE 20 20 - - SPARE 20 20 - - SPARE 20 20</td> <td>R4</td> <td>CEILING RECESSED MOUNTED</td> <td>10 WATTS LED UNV</td> <td>6" SQUARE DOWNLIGHT. 1000 LUMENS, 3500K COLOR TEMP.</td> <td>MANUFACTURER: CALIBER PLUS 6SQLBV—10—35K—E1—DA</td> | - - SPARE 20 18 - - SPARE 20 20 - - SPARE 20 20 - - SPARE 20 20 | R4 | CEILING RECESSED MOUNTED | 10 WATTS LED UNV | 6" SQUARE DOWNLIGHT. 1000 LUMENS, 3500K COLOR TEMP. | MANUFACTURER: CALIBER PLUS 6SQLBV—10—35K—E1—DA |
| 23 20 SPARE - </td <td>- - SPARE 20 24 - - SPARE 20 26 - - SPARE 20 28</td> <td>R4 _{EM}</td> <td>CEILING RECESSED MOUNTED</td> <td>10 WATTS LED UNV</td> <td>SAME AS FIXTURE "R4" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.</td> <td>MANUFACTURER: CALIBER PLUS 6SQLBV—10—35K—E1—DA</td> | - - SPARE 20 24 - - SPARE 20 26 - - SPARE 20 28 | R4 _{EM} | CEILING RECESSED MOUNTED | 10 WATTS LED UNV | SAME AS FIXTURE "R4" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: CALIBER PLUS 6SQLBV—10—35K—E1—DA |
| 29 20 SPARE - - - 31 20 SPARE - - - 33 20 SPARE - - - 35 20 SPARE - - - | - - SPARE 20 30 - - SPARE 20 32 - - SPARE 20 32 - - SPARE 20 34 - - SPARE 20 36 | R4B | CEILING RECESSED MOUNTED | 20 WATTS LED UNV | 6" SQUARE DOWNLIGHT. 1000 LUMENS, 3500K COLOR TEMP. | MANUFACTURER: CALIBER PLUS 6SQLBV—20—35K—E1—DA |
| 37 20 SPARE - 39 20 SPARE - 41 20 SPARE - | - - SPARE 20 38 - - SPARE 20 40 - - SPARE 20 42 | R4B EM | CEILING RECESSED MOUNTED | 20 WATTS LED UNV | SAME AS FIXTURE "R4B" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: CALIBER PLUS 6SQLBV-20-35K-E1-DA |
| SUBTOTALS 0.50 1.04 1.10 0 TOTAL LOADS 1.6 KVA PHASE A | 60 1.18 SUBTOTALS LIGHTING: 0.00 KVA RECEPTACLE: 0.00 KVA | R5 | CEILING RECESSED MOUNTED | 10 WATTS LED UNV | 6" SQUARE DOWNLIGHT. 1000 LUMENS, 3500K COLOR TEMP. | MANUFACTURER: CALIBER PLUS 6SQLBV—10—35K—E1—DA |
| 2.2 KVA PHASE C TOTAL CONN. LOAD 5.5 KVA 14.0 A TOTAL DEMAND LOAD 5.0 KVA 14.0 A | KITCHEN: 0.00 KVA MOTOR: 3.96 KVA POWER: 1.00 KVA | R5 EM | CEILING RECESSED MOUNTED | 10 WATTS LED UNV | SAME AS FIXTURE "R5" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: CALIBER PLUS 6SQLBV—10—35K—E1—DA |
| < Load & Total not equal > | | R8 | CEILING RECESSED MOUNTED | 14 WATTS LED UNV | 4" ROUND RECESSED DOWNLIGHT.STATIC WHITE FINISH. 80 CRI. 3500 COLOR TEMPERATURE. | MANUFACTURER: LUMENWERX VO4RR-OF-ADJ-UNV-14W-D1-VO4 -SW-60-2-80-35-LS-VO4RRB-SDL- SR-TMW-TRM-TMW |
| Image: | ILY MAIN C BKR- GS 800A/3P ISOLATED GROUND BUS: | R8 _{EM} | CEILING RECESSED MOUNTED | 14 WATTS LED UNV | SAME AS FIXTURE "R8" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: LUMENWERX VO4RR-OF-ADJ-UNV-14W-D1-VO4 -SW-60-2-80-35-LS-VO4RRB-SDL- SR-TMW-TRM-TMW |
| 65 ,000MIN A.I.C. SYM IN MCC FEED THRU L NEUTRAL: 100% SHUNT TRIP M. CKT TRIP LOAD WIRE CND. KVA / PHASE KVA | UG MAIN BUS - TVSS: AIN 800 A NUMBER OF POLES: YPHASE CND. WIRE LOAD TRIP | R9 | CEILING RECESSED MOUNTED | 12 WATTS LED UNV | 15/16" 35K COLOR TEMPERATURE. 80 CRI. | MANUFACTURER: TBAR FLEX MODEL #TBFL-MW-22-24-D-A-W |
| No. (AMP) (IN.) A B C A 1 3 - - 12.0 3.50 3 BP-HV 4#3/0+1#6G 2 12.0 5 | B C (IN.) (AMP) No. | R9 _{EM} | CEILING RECESSED MOUNTED | 12 WATTS LED UNV | SAME AS FIXTURE "R9" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: TBAR FLEX MODEL #TBFL—MW—22—24—D—A—W |
| 5 200 - - 12.0 7 3 - - 24.0 3.50 9 RTU-1 3#3/0+1#6G 2 24.0 3 | 3.50 - - /25 6 - - - 3 8 .50 3/4 3#10+1#10G CU-9 10 | R10 | SURFACE REGRESSED MOUNTED | 1.4 W/FT LED 24V | FLEXIBLE LIGHTING SYSTEM. 80 LUMENS PER FOOT. 35K COLOR TEMPERATURE. 80 CRI. | MANUFACTURER: KELVIX SW1-SEE PLAN-35K-E-S-IP67 |
| 11 /200 - - 24.0 13 3 - - 24.0 15 RTU-2 3#3/0+1#6G 2 24.0 | 3.50 - - / 25 12 - - SPARE 20 14 - - SPARE 20 16 | R10 EM | SURFACE REGRESSED MOUNTED | 1.4 W/FT LED 24V | SAME AS FIXTURE "R10" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: KELVIX SW1-SEE PLAN-35K-E-S-IP67 |
| 17 200 - 24.0 19 20 SPARE - - 21 20 SPARE - - 23 20 SPARE - - | - - SPARE 20 10 - - SPARE 20 20 - - SPARE 20 22 - - SPARE 20 22 - - SPARE 20 22 | P1 | CEILING PENDANT MOUNTED | 50 WATTS LED UNV | 8' PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 8 FEET LONG. | MANUFACTURER: AXIS LIGHTING STLDI-8-SLI-500-DML-600-80-35 -W-UNV |
| 25 20 SPARE - </td <td>- SPARE 20 26 - - SPARE 20 28 - - SPARE 20 30</td> <td>P1 EM</td> <td>CEILING PENDANT MOUNTED</td> <td>50 WATTS LED UNV</td> <td>SAME AS FIXTURE "P1" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.</td> <td>MANUFACTURER: AXIS LIGHTING STLDI-8-SLI-500-DML-600-80-35 -W-UNV</td> | - SPARE 20 26 - - SPARE 20 28 - - SPARE 20 30 | P1 EM | CEILING PENDANT MOUNTED | 50 WATTS LED UNV | SAME AS FIXTURE "P1" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: AXIS LIGHTING STLDI-8-SLI-500-DML-600-80-35 -W-UNV |
| 31 20 SPARE - </td <td>- - SPARE 20 32 - - SPARE 20 34 - - SPARE 20 34 - - SPARE 20 36</td> <td>P2</td> <td>CEILING PENDANT MOUNTED</td> <td>50 WATTS LED UNV</td> <td>6' PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 6 FEET LONG.</td> <td>MANUFACTURER: AXIS LIGHTING STLDI—6—SLI—500—DML—600—80—35 —W—UNV</td> | - - SPARE 20 32 - - SPARE 20 34 - - SPARE 20 34 - - SPARE 20 36 | P2 | CEILING PENDANT MOUNTED | 50 WATTS LED UNV | 6' PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 6 FEET LONG. | MANUFACTURER: AXIS LIGHTING STLDI—6—SLI—500—DML—600—80—35 —W—UNV |
| 37 20 SPARE - </td <td>- SEE RISER TRANSFORMER FOR PP-MV-A 3 30 40 - - SEE RISER SUBTOTALS 40<td>P2 EM</td><td>CEILING PENDANT MOUNTED</td><td>50 WATTS LED UNV</td><td>SAME AS FIXTURE "P2" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.</td><td>MANUFACTURER: AXIS LIGHTING STLDI-6-SLI-500-DML-600-80-35 -W-UNV</td></td> | - SEE RISER TRANSFORMER FOR PP-MV-A 3 30 40 - - SEE RISER SUBTOTALS 40 <td>P2 EM</td> <td>CEILING PENDANT MOUNTED</td> <td>50 WATTS LED UNV</td> <td>SAME AS FIXTURE "P2" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.</td> <td>MANUFACTURER: AXIS LIGHTING STLDI-6-SLI-500-DML-600-80-35 -W-UNV</td> | P2 EM | CEILING PENDANT MOUNTED | 50 WATTS LED UNV | SAME AS FIXTURE "P2" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: AXIS LIGHTING STLDI-6-SLI-500-DML-600-80-35 -W-UNV |
| TOTAL LOADS67.0KVAPHASE A67.0KVAPHASE B67.0KVAPHASE C | LIGHTING: 0.00 KVA RECEPTACLE: 0.00 KVA KITCHEN: 0.00 KVA | P3 | CEILING PENDANT MOUNTED | 35 WATTS LED UNV | 4'PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 4 FEET LONG. | MANUFACTURER: AXIS LIGHTING STLDI-4-SLI-500-DML-600-80-35 -W-UNV |
| TOTAL CONN. LOAD 201 KVA 242 A TOTAL DEMAND LOAD 201 KVA 242 A | MOTOR: 165.00 KVA POWER: 36.00 KVA TOTAL: 201.00 KVA | РЗ ЕМ | CEILING PENDANT MOUNTED | 35 WATTS LED UNV | SAME AS FIXTURE "P3 EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: AXIS LIGHTING STLDI-4-SLI-500-DML-600-80-35 -W-UNV |
| 4.4 W/FT LINEAR ANGLED EXTRUSION LED. 35K COLOR LED TEMPERATURE. 24V | MANUFACTURER: LLI LIGHTING MODEL #LLI-ANG-S-F-4.4-35K-24V- | P4 | CEILING PENDANT MOUNTED | 87 WATTS LED UNV | CONTINUOS LINEAR SLOT DIRECT/INDIRECT WALL LIGHT. 400 LUMENS PER FOOT DIRECT AND 600 LUMENS PER FOOT INDIRECT. 35K COLOR TEMPERATURE. 90 CRI. LENGTHS AS PER PLAN | MANUFACTURER: MARK LIGHTING S1LIDP-OPP-PER PLAN-90CRI-35K- 200LMF-I90CRI-I35K-I400LMF-MIN1- MVOLT-WHT-36A-RDCY-WHTCY-WCRD |
| 4.4 W/FT LED 24V SAME AS FIXTURE "WM2" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: LLI LIGHTING MODEL #LLI-ANG-S-F-4.4-35K-24V- | P4 EM | CEILING PENDANT MOUNTED | 87 WATTS LED UNV | SAME AS FIXTURE "P4" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: MARK LIGHTING S1LIDP-OPP-XXFT-90CRI-35K- 200LMF-I90CRI-I35K-I400LMF-MIN1- MVOLT-WHT-36A-RDCY-WHTCY-WCRD |
| 51 WATTS WALL MOUNTED LLED TYPE LIGHTING. NARROW LED OPTIC REFLECTOR. 5000 LUMENS, 80 CRI,4000K 120 COLOR TEMPERATURE. MATTE SILVER FINISH | MANUFACTURER: LUMINIS MODEL #SQ602-L2L25-R15-120-MST -2535 | Р5-В | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | 20" DIAMETER X 5" HEIGHT. GREEN IN COLOR. WHITE FINISH. SINGLE STEM MOUNT. NICKEL TONE STEM FINISH 35K COLOR TEMPERATURE. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680—20—49—45W—G—SSM—N T—35K |
| 51 WATTS LED 120 SAME AS FIXTURE "WM3" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | | P5–B EM | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | SAME AS FIXTURE "P5-B" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680—20—49—45W—G—SSM—N T—35K |
| 16 WATTS WALL MOUNT LED SCONCE. FROSTED FINISH. 80 LED 120 | MANUFACTURER: EUREKA LIGHTING MODEL #3418–LED–35–80–120–DV–BLKE –FRO | P5-W | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | 20" DIAMETER X 5" HEIGHT. WHITE IN COLOR. WHITE FINISH. SINGLE STEM MOUNT. NICKEL TONE STEM FINISH 35K COLOR TEMPERATURE. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680–20–49–45W–WH–SSM–N T–35K |
| 16 WATTS LED 120 SAME AS FIXTURE "WM4" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: EUREKA LIGHTING MODEL #3418–LED–35–80–120–DV–BLKE –FRO | P5–W EM | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | SAME AS FIXTURE "P5-W" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680–20–49–45W–WH–SSM–N T–35K |
| 87 WATTS LED UNV LED UNV | MANUFACTURER: KELVIX LED TAPE MODEL #SE-30K-300-24V | P5–G | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | 20" DIAMETER X 5" HEIGHT. GREEN IN COLOR. WHITE FINISH. SINGLE STEM MOUNT. NICKEL TONE STEM FINISH 35K COLOR TEMPERATURE. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680–20–49–45W–G–SSM–N T–35K |
| 87 WATTS LED UNV SAME AS FIXTURE "WM5" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: KELVIX LED TAPE MODEL #SE-30K-300-24V | P5–G EM | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | SAME AS FIXTURE "P5-G" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680–20–49–45W–G–SSM–N T–35K |
| 40 WATTS 4' STIP LIGHTING, 4000 LUMENS, 400K COLOR LED TEMPERATURE. 0–10V DIMMING. CONNECTED TO UNV EMERGENCY CIRCUIT. | MANUFACTURER: COLUMBIA LIGHTING MODEL #CSLA-4040 | P6 | CEILING PENDANT MOUNTED | 3 WATTS LED UNV | DECORATIVE PENDENT . CYLINDER DIFFUSER. 9" STEM LENGTH. 35K COLOR TEMPERATURE. BRUSHED ALUMINUM FINISH. | MANUFACTURER: ACUITY BRANDS– HEALTHCARE LIGHTING #HPP1–9ST–MVOLT–CYL–LRG–35K–ZT– MIN5–INT–BA |
| 70WWALL MOUNTED QUARTERSHPHERE ARCHITECTURAL70WWALLPACK EXTERIOR LIGHT FIXTURE WITH BUTTONLEDPHOTO CONTROL, PROGRAMMABLE OCCUPANCYUNVSENSOR AND EM BATTERY BACK UP. 4000KCOLOR TEMPERATURE.MOUNTED AS DIRECTED BY | MANUFACTURER: HUBBELL QSP2-32L-40-4K7-3-U-BLT -PC-SCP-EM | P6 EM | CEILING PENDANT MOUNTED | 3 WATTS LED UNV | SAME AS FIXTURE "P6" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: ACUITY BRANDS— HEALTHCARE LIGHTING #HPP1—9ST—MVOLT—CYL—LRG—35K—ZT— MIN5—INT—BA |
| OWNER.70WLEDWALL MOUNTED QUARTERSHPHERE ARCHITECTURAL WALLPACK EXTERIOR LIGHT FIXTURE 4000K COLOR LEDTEMPERATURE.MOUNTED AS DIRECTED BY | MANUFACTURER: HUBBELL QSP2-32L-40-4K7-3-U-BLT | WM 1 | SURFACE WALL MOUNTED | 20 WATTS LED UNV | 8' LINEAR SLOT INDIRECT WALL LIGHT. 400 LUMENS PER FOOT. 35K COLOR TEMPERATURE. 90 CRI. | MANUFACTURER: MARK LIGHTING MODEL #S1LWI-LLP-8FT-MSL8-I90CRI- I35K-I400LMF-MIN1-MVOLT-WHT-ZT-DCF |
| UNVOWNER.1-5WL.E.D. TYPE EXIT LIGHT, STEEL HOUSING, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS. SELF POWERED MODEL WITH 90 MINUTE | MANUFACTURER: ENCORE LIGHITNG CAT.#LSE-8-R-PER DWG | WM1 EM | SURFACE WALL MOUNTED | 20 WATTS LED UNV | SAME AS FIXTURE "WM1" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: MARK LIGHTING MODEL #S1WI–LLP–8FT–MSL8–I90CRI– I35K–I400LMF–MIN1–MVOLT–WHT–ZT–DCF |

| R | | AL I | PA | NE | L S | СН | ED | UL | E | (HIGH SCHOOL) | | |
|------|----------------|--------|-----------|------|--------|---------|----------|----------------------|------------|-----------------|-------|-----------|
| URI | RFACE X MAIN L | | UGS ONLY | | | MAIN | I C BKR- | GROUND | <u>x</u> | | | |
| FL | FLUSH DOL | | JBLE LUGS | | | 8 | 00A/3P | ISOLATED GROUND BUS: | | | | |
| IN | мсс | | | FEED | THRU | LUG | | MAIN | I BUS - | TVSS: | | |
| | | | Sł | HUNT | TRIP I | MAIN | | | 800 A | NUMBER OF PC | DLES: | <u>42</u> |
| ND. | KV | 4 / PH | ASE | | KV | 4 / PH. | ASE | CND. | WIRE | LOAD | TRIP | СКТ |
| IN.) | A | В | ВС | | Α | В | С | (IN.) | | | (AMP) | No. |
| - | 10.6 | | | | 10.6 | | | - | - | | 3 / | 2 |
| 3/4 | | 10.6 | | | | 10.6 | | 3/4 | 3#8+1#10G | CU-10 | | 4 |
| - | | | 10.6 | | | | 10.6 | - | - | | / 50 | 6 |
| - | 10.6 | | | | 9.90 | | | - | - | | 3 / | 8 |
| 3/4 | | 10.6 | | | | 9.90 | | 3/4 | 3#8+1#10G | CU-12 | | 10 |
| - | | | 10.6 | | | | 9.90 | - | - | | 50 | 12 |
| - | 8.9 | | | | 3.60 | | | - | - | | 3 | 14 |
| 3/4 | | 8.9 | | | | 3.60 | | 3/4 | 3#12+1#12G | CU-14 | | 16 |
| - | | | 8.9 | | | | 3.60 | - | - | | / 20 | 18 |
| - | 8.9 | | | | 12.0 | | | - | - | | 3 | 20 |
| 3/4 | | 8.9 | | | | 12.0 | | 3/4 | 4#3/0+1#6G | BP-HV | | 22 |
| - | | | 8.9 | | | | 12.0 | - | - | | /200 | 24 |
| - | | | | | 8.50 | | | - | - | | 3 | 26 |
| - | | | | | | 8.50 | | 1 | 3#6+1#10G | ELEVATOR | | 28 |
| - | | | | | | | 8.50 | - | - | | / 60 | 30 |
| - | | | | | | | | - | - | SPARE | 20 | 32 |
| - | | | | | | | | - | - | SPARE | 20 | 34 |
| - | | | | | | | | - | - | SPARE | 20 | 36 |
| - | | | | | | | | - | | TRANSFORMER FOR | 3 | 38 |
| - | | | | | | | | - | SEE RISER | PP-MV-2B | | 40 |
| - | | | | | | | | - | | | /350 | 42 |
| | 39.0 | 39.0 | 39.0 | | 44.6 | 44.6 | 44.6 | | | SUBTOTALS | | |
| 3.6 | KVA | PHAS | SE A | | | | | | LIGHTING: | 0.00 KVA | | |
| 3.6 | KVA | PHAS | SE B | | | | | REG | CEPTACLE: | 0.00 KVA | | |
| 3.6 | KVA | PHAS | SE C | | | | | | KITCHEN: | 0.00 KVA | | |
| 251 | KVA | 302 | Α | | | | | | MOTOR: | 214.83 KVA | | |
| 251 | KVA | 302 | A | | | | | | POWER: | 36.00 KVA | | |
| | | | | | | | | | TOTAL: | 250.83 KVA | | |

| (NEW) | ELECTRICAL PANEL SC | CHEDULE | | | Ĺ | IGHT | ING FIXTURE SCHEDU | JLE |
|---|---|--|---|------------------|---------------------------------|------------------------|--|--|
| PNL: PP-SEC 208Y/120, 3 PHASE, 4 WIRE | MOUNTING:SURFACEXMAIN LUGS ON(NEMA 1)FLUSHDOUBLE LUNUMCOFEED FUNCTION | IGS 100A/3P ISO | GROUND BUS: X DLATED GROUND BUS: | TYPE | MOUNTING | LAMPS 31 WATTS | DESCRIPTION 2X2 RECESSED FIXTURES . 4000 LUMENS .3500K | MANUFACTURER & CAT.# MANUFACTURER: LITHONIA LIGHTING |
| 22 ,000MIN A.I.C. SYM <u>NEUTRAL: 100%</u> | IN MCC FEED THRU L SHUNT TRIP M | Imain BUS - AIN 225 A | TVSS: NUMBER OF POLES: 42 | R1 | RECESSED MOUNTED | LED UNV 31 WATTS | COLOR TEMP. 80 CRI. WITH DRYWALL ADAPTER | EPANL-2X2-4000LM-80CRI-35K- MIN1-ZT-MVOLT-E10WCP-GGA2 MANUFACTURER: LITHONIA LIGHTING |
| CK I IRIP LOAD No. (AMP) | WIRE CND. KVA / PHASE KVA / (IN.) A B C A 2#12+1#12G 3/4 | PHASE CND. WIRE B C (IN.) 3/4 2#12+1#12G ENTR | LOAD TRIP CKT (AMP) No. TRANCE RECEPT 20 2 | R1 EM | CEILING RECESSED MOUNTED | LED UNV | EMERGENCY LIGHTING CIRCUIT. | EPANL-2X2-4000LM-80CRI-35K- MIN1-ZT-MVOLT-E10WCP-GGA2 |
| 3 20 SEC RECEPT 5 20 SEC RECEPT 7 20 SEC RECEPT 0 20 SEC RECEPT | 2#12+1#12G 3/4 2#12+1#12G 3/4 2#12+1#12G 3/4 0.10 2#12+1#12Q 2/4 | 3/4 2#12+1#12G DRIN 0.18 3/4 2#12+1#12G ERU- 3/4 2#12+1#12G ERU- | NKING FOUNTAIN 20 4 J-10 20 6 HP-B 2 8 10 | R2 | CEILING RECESSED MOUNTED | 46 WATTS LED UNV | 2X2 RECESSED FIXTURES . 4800 LUMENS, 3500K COLOR TEMP. WITH GRID ADAPTOR. | MANUFACTURER: MARK LIGHTING WHSPR—2X2—90CRI—35K—4800LM—MIN1 —MVOLT—SWC |
| 9 2 ERU-3 11 15 13 20 SPARE 15 20 SPARE | 2#12+1#12G 3/4 1.04 0 - - 1.04 1.00 - - 0.50 1.00 | 1.00 - - 1.00 3/4 2#12+1#12G 3/4 2#12+1#12G CP-1 50 3/4 2#12+1#12G | 20 10 E DOOR 20 12 1 20 14 5 20 16 | R2 _{EM} | CEILING RECESSED MOUNTED | 46 WATTS LED UNV | SAME AS FIXTURE "R2" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: MARK LIGHTING WHSPR—2X2—90CRI—35K—4800LM—MIN1 —MVOLT—SWC |
| 13 20 SPARE 17 20 SPARE 19 20 SPARE 21 20 SPARE | | SPAF | 20 10 NRE 20 18 NRE 20 20 NRE 20 22 | R4 | CEILING RECESSED MOUNTED | 10 WATTS LED UNV | 6" SQUARE DOWNLIGHT. 1000 LUMENS, 3500K COLOR TEMP. | MANUFACTURER: CALIBER PLUS 6SQLBV-10-35K-E1-DA |
| 23 20 SPARE 25 20 SPARE 27 20 SPARE | | SPAF | RE 20 24 RE 20 26 RE 20 28 | R4 _{EM} | CEILING RECESSED MOUNTED | 10 WATTS LED UNV | SAME AS FIXTURE "R4" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: CALIBER PLUS 6SQLBV-10-35K-E1-DA |
| 29 20 SPARE 31 20 SPARE 33 20 SPARE | | - - SPAH - - SPAH - - SPAH - - SPAH | RE 20 30 RE 20 32 RE 20 34 | R4B | CEILING RECESSED MOUNTED | 20 WATTS LED UNV | 6" SQUARE DOWNLIGHT. 1000 LUMENS, 3500K COLOR TEMP. | MANUFACTURER: CALIBER PLUS 6SQLBV—20—35K—E1—DA |
| 35 20 SPARE 37 20 SPARE 39 20 SPARE | | - - SPAF - - SPAF - - SPAF - - SPAF | RE 20 36 RE 20 38 RE 20 40 | R4B FM | CEILING RECESSED MOUNTED | 20 WATTS LED UNV | SAME AS FIXTURE "R4B" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: CALIBER PLUS 6SQLBV—20—35K—E1—DA |
| 41 20 SPARE SUBTOTALS TOTAL LOADS | 0.50 1.04 1.04 1.10 0 | 0.60 1.18 SPAF LIGHTING: | RE 20 42 BTOTALS 0.00 KVA 0.00 KVA | R5 | CEILING RECESSED MOUNTED | 10 WATTS LED UNV | 6" SQUARE DOWNLIGHT. 1000 LUMENS, 3500K COLOR TEMP. | MANUFACTURER: CALIBER PLUS 6SQLBV—10—35K—E1—DA |
| TOTAL CONN. LOAD | 1.6 KVA PHASE B 2.2 KVA PHASE C 5.5 KVA 14.0 A | RECEPTACLE: KITCHEN: MOTOR: | 0.00 KVA 0.00 KVA 3.96 KVA | R5 | CEILING RECESSED | 10 WATTS LED UNV | SAME AS FIXTURE "R5" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: CALIBER PLUS 6SQLBV—10—35K—E1—DA |
| TOTAL DEMAND LOA < Load & Total no | AD 5.0 KVA 14.0 A | POWER: TOTAL: | 1.00 KVA 4.96 KVA | EM R8 | CEILING | 14 WATTS | 4" ROUND RECESSED DOWNLIGHT.STATIC WHITE | MANUFACTURER: LUMENWERX |
| (NEW) | ELECTRICAL PANEL SC | CHEDULE | | πο | RECESSED MOUNTED | LED UNV | FINISH. 80 CRI. 3500 COLOR TEMPERATURE. | V04RR-OF-ADJ-UNV-14W-D1-V04 -SW-60-2-80-35-LS-V04RRB-SDL- SR-TMW-TRM-TMW |
| PNL: MP-HV-1A 480Y/277, 3 PHASE, 4 WIRE | MOUNTING: SURFACE X MAIN LUGS OF (NEMA 1) FLUSH DOUBLE LU | NLY MAIN C BKR- IGS 800A/3P ISO | GROUND BUS: X OLATED GROUND BUS: | R8 EM | CEILING RECESSED MOUNTED | 14 WATTS LED UNV | SAME AS FIXIORE R8 EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: LUMENWERX V04RR-OF-ADJ-UNV-14W-D1-VO4 -SW-60-2-80-35-LS-VO4RRB-SDL- SR-TMW-TRM-TMW |
| 65 ,000MIN A.I.C. SYM NEUTRAL: 100% CKT TRIP LOAD | IN MCC FEED THRU L SHUNT TRIP M WIRE CND. KVA / PHASE KVA | UG MAIN BUS - AIN 800 A /PHASE CND. | TVSS: NUMBER OF POLES: 42 LOAD TRIP CKT | <i>R9</i> | CEILING RECESSED MOUNTED | 12 WATTS LED UNV | 15/16" 35K COLOR TEMPERATURE. 80 CRI. | MANUFACTURER: TBAR FLEX MODEL #TBFL-MW-22-24-D-A-W |
| No. (AMP) | (IN.) A B C A - - 12.0 3.50 4#3/0+1#6G 2 12.0 3 | B C (IN.) 3.50 3/4 3#10+1#10G | (AMP) No. 3 2 CU-8 4 | R9 _{EM} | CEILING RECESSED MOUNTED | 12 WATTS LED UNV | SAME AS FIXTURE "R9" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: TBAR FLEX MODEL #TBFL-MW-22-24-D-A-W |
| 5 200 7 3 9 RTU-1 | - - 12.0 - - 24.0 3.50 3#3/0+1#6G 2 24.0 3 | 3.50 - - - 3.50 3/4 | CU-9 | R10 | SURFACE REGRESSED MOUNTED | 1.4 W/FT LED 24V | FLEXIBLE LIGHTING SYSTEM. 80 LUMENS PER FOOT. 35K COLOR TEMPERATURE. 80 CRI. | MANUFACTURER: KELVIX SW1-SEE PLAN-35K-E-S-IP67 |
| 11 /200 13 3 15 RTU-2 | - - 24.0 - 24.0 | 3.50 SPAI | ARE 20 14 ARE 20 16 | R10 EM | SURFACE REGRESSED MOUNTED | 1.4 W/FT LED 24V | SAME AS FIXTURE "R10" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: KELVIX SW1-SEE PLAN-35K-E-S-IP67 |
| 17 /200 19 20 SPARE 21 20 SPARE 23 20 SPARE | | SPAI | ARE 20 18 ARE 20 20 ARE 20 22 ARE 20 24 | P1 | CEILING PENDANT MOUNTED | 50 WATTS LED UNV | 8' PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 8 FEET LONG. | MANUFACTURER: AXIS LIGHTING STLDI-8-SLI-500-DML-600-80-35 -W-UNV |
| 25 20 SPARE 27 20 SPARE 29 20 SPARE 29 20 SPARE | | SPAI | ARE 20 26 ARE 20 26 ARE 20 28 ARE 20 30 | P1 EM | CEILING PENDANT MOUNTED | 50 WATTS LED UNV | SAME AS FIXTURE "P1" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: AXIS LIGHTING STLDI-8-SLI-500-DML-600-80-35 -W-UNV |
| 31 20 SPARE 33 20 SPARE 35 20 SPARE | | SPAI | ARE 20 32 ARE 20 34 ARE 20 36 | P2 | CEILING PENDANT MOUNTED | 50 WATTS LED UNV | 6' PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 6 FEET LONG. | MANUFACTURER: AXIS LIGHTING STLDI-6-SLI-500-DML-600-80-35 -W-UNV |
| 37 20 SPARE 39 20 SPARE 41 20 SPARE | | - SEE RISER TRAI | ANSFORMER FOR PP-MV-A 3 40 350 42 | P2 _{FM} | CEILING PENDANT MOUNTED | 50 WATTS LED UNV | SAME AS FIXTURE "P2" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: AXIS LIGHTING STLDI—6—SLI—500—DML—600—80—35 —W—UNV |
| TOTAL LOADS | 60.0 60.0 60.0 7.00 7 67.0 KVA PHASE A 67.0 67. | LIGHTING: RECEPTACLE: KITCHEN | 0.00 KVA 0.00 KVA 0.00 KVA | P3 | CEILING PENDANT MOUNTED | 35 WATTS LED UNV | 4'PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 4 FEET LONG. | MANUFACTURER: AXIS LIGHTING STLDI-4-SLI-500-DML-600-80-35 -W-UNV |
| TOTAL CONN. LOAD | 201 KVA 242 A AD 201 KVA 242 A | MOTOR: POWER: TOTAL: | 165.00 KVA 36.00 KVA 201.00 KVA | P3 EM | CEILING PENDANT MOUNTED | 35 WATTS LED UNV | SAME AS FIXTURE "P3 EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: AXIS LIGHTING STLDI-4-SLI-500-DML-600-80-35 -W-UNV |
| 4.4 W/FT LINEAR ANGL LED TEMPERATURE 24V | ED EXTRUSION LED. 35K COLOR E. | MANUFACTURER: LLI LIGH MODEL #LLI—ANG—S—F—4 | HTING 4.4–35K–24V– | P4 | CEILING PENDANT MOUNTED | 87 WATTS LED UNV | CONTINUOS LINEAR SLOT DIRECT/INDIRECT WALL LIGHT. 400 LUMENS PER FOOT DIRECT AND 600 LUMENS PER FOOT INDIRECT. 35K COLOR TEMPERATURE. 90 CRI. LENGTHS AS PER PLAN | MANUFACTURER: MARK LIGHTING S1LIDP-OPP-PER PLAN-90CRI-35K- 200LMF-I90CRI-I35K-I400LMF-MIN1- MV0LT-WHT-36A-RDCY-WHTCY-WCRD |
| 4.4 W/FT SAME AS FIX LED EMERGENCY 24V | (TURE "WM2" EXCEPT CONNECTED TO LIGHTING CIRCUIT. | MANUFACTURER: LLI LIGH MODEL #LLI—ANG—S—F—4 | HTING 4.4–35K–24V– | P4 EM | CEILING PENDANT MOUNTED | 87 WATTS LED UNV | SAME AS FIXTURE "P4" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: MARK LIGHTING S1LIDP-OPP-XXFT-90CRI-35K- 200LMF-I90CRI-I35K-I400LMF-MIN1- MVOLT-WHT-36A-RDCY-WHTCY-WCRD |
| 51 WATTS WALL MOUNT LED OPTIC REFLE 120 COLOR TEMP | ED LLED TYPE LIGHTING. NARROW CTOR. 5000 LUMENS, 80 CRI,4000K PERATURE. MATTE SILVER FINISH | MANUFACTURER: LUMINIS MODEL #SQ602–L2L25–R –2535 | R15–120–MST | Р5-В | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | 20" DIAMETER X 5" HEIGHT. GREEN IN COLOR. WHITE FINISH. SINGLE STEM MOUNT. NICKEL TONE STEM FINISH 35K COLOR TEMPERATURE. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680–20–49–45W–G–SSM–N T–35K |
| 51 WATTS SAME AS FIX LED EMERGENCY 120 | (TURE "WM3" EXCEPT CONNECTED TO LIGHTING CIRCUIT. | MANUFACTURER: LUMINIS MODEL #SQ602–L2L25–R –2535 | R15-120-MST | P5-B EM | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | SAME AS FIXTURE "P5–B" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680–20–49–45W–G–SSM–N T–35K |
| 16 WATTS WALL MOUNT LED CRI. 35K CO 120 | LED SCONCE. FROSTED FINISH. 80 DLOR TEMPERATURE. | MANUFACTURER: EUREKA MODEL #3418–LED–35–8 –FRO | LIGHTING 80—120—DV—BLKE | P5-W | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | 20" DIAMETER X 5" HEIGHT. WHITE IN COLOR. WHITE FINISH. SINGLE STEM MOUNT. NICKEL TONE STEM FINISH 35K COLOR TEMPERATURE. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680–20–49–45W–WH–SSM–N T–35K |
| 16 WATTS SAME AS FIX LED EMERGENCY 120 | (TURE "WM4" EXCEPT CONNECTED TO LIGHTING CIRCUIT. | MANUFACTURER: EUREKA MODEL #3418–LED–35–8 –FRO | LIGHTING 80—120—DV—BLKE | P5-W EM | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | SAME AS FIXTURE "P5–W" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680–20–49–45W–WH–SSM–N T–35K |
| 87 WATTS LED COVE TA LED FIXTURE. | APE LIGHT REMOTE DRIVER. DIMMABLE | MANUFACTURER: KELVIX L MODEL #SE-30K-300-24 | LED TAPE 24V | P5-G | CEILING PENDANT MOUNTFD | 45 WATTS LED | 20" DIAMETER X 5" HEIGHT. GREEN IN COLOR. WHITE FINISH. SINGLE STEM MOUNT. NICKEL TONE STEM FINISH 35K COLOR TEMPERATURE | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680–20–49–45W–G–SSM–N T–35K |
| 87 WATTS SAME AS FIX LED EMERGENCY | (TURE "WM5" EXCEPT CONNECTED TO LIGHTING CIRCUIT. | MANUFACTURER: KELVIX L MODEL #SE-30K-300-2 | LED TAPE 24V | P5–G EM | CEILING PENDANT MOUNTED | 45 WATTS | SAME AS FIXTURE "P5-G" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680-20-49-45W-G-SSM-N |
| 40 WATTS 4' STIP LIG LED TEMPERATUR UNV EMERGENCY | CHTING, 4000 LUMENS, 400K COLOR RE. 0–10V DIMMING. CONNECTED TO ′ CIRCUIT. | MANUFACTURER: COLUME MODEL #CSLA-4040 | IBIA LIGHTING | P6 | CEILING PENDANT | UNV 3 WATTS LED | DECORATIVE PENDENT . CYLINDER DIFFUSER. 9" STEM LENGTH. 35K COLOR TEMPERATURE. BRUSHED | MANUFACTURER: ACUITY BRANDS- HEALTHCARE LIGHTING |
| WALL MOUNT 70W WALLPACK EX LED PHOTO CONT | ED QUARTERSHPHERE ARCHITECTURAL XTERIOR LIGHT FIXTURE WITH BUTTON TROL, PROGRAMMABLE OCCUPANCY | MANUFACTURER: HUBBE QSP2-32L-40-4K7-3 -PC-SCP-EM | BELL 3—U—BLT | P6_ | MOUNTED CEILING PENDANT | UNV 3 WATTS LED | SAME AS FIXTURE "P6" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MINTER931-MVOLI-CTL-LKG-35K-21- MIN5-INT-BA MANUFACTURER: ACUITY BRANDS- HEALTHCARE LIGHTING #HPP1-9ST-MVOLT-CYL-LRG-35K-7T- |
| UNV SENSOR AND COLOR TEMP OWNER. WALL MOUNT | D EM BATTERY BACK UP. 4000K PERATURE. MOUNTED AS DIRECTED BY | MANUFACTURER: HUBBE | BELL | EM WM1 | MOUNTED SURFACE WALL | 20 WATTS LED | 8' LINEAR SLOT INDIRECT WALL LIGHT. 400 LUMENS PER FOOT. 35K COLOR TEMPERATURE. 90 CRI. | MIN5-INT-BA MANUFACTURER: MARK LIGHTING MODEL #S1LWI-LLP-8FT-MSL8-I90CRI- |
| I.F.D. TYPE | XIERIUR LIGHT FIXTURE 4000K COLOR E. MOUNTED AS DIRECTED BY EXIT LIGHT. STEEL HOUSING NUMBER | QSP2-32L-40-4K7-3 MANUFACTURER: ENCO | 3-U-BLT DRE LIGHITNG | WM1 | MOUNTED SURFACE WALL | UNV 20 WATTS LED | SAME AS FIXTURE "WM1" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | IS5K-I4UULMF-MIN1-MVOLT-WHT-ZT-DCF MANUFACTURER: MARK LIGHTING MODEL #S1WI-LLP-8FT-MSL8-I90CRI- |
| 1–5W 120V EMERGENCY | ND DIRECTIONAL ARROWS AS INDICATED SELF POWERED MODEL WITH 90 MINUTE BATTERY PACK. | CAT.#LSE-8-R-PER D | DWG | EM | MOUNTED | UNV | | 135K—1400LMF—MIN1—MV0LT—WHT—ZT—DCF |

| | SCHOOL) | | (NEW) | ELECTRICAL PAN | EL SCHEDULE | | | | LIGHT | ING FIXTURE SCHEDL | ILE |
|--|-----------------------------------|--|---|---|---|--|-----------------------------------|---------------------------------|---------------------------|---|---|
| | | s: <u>x</u> | PNL: PP-SEC 2087/120 3 PHASE 4 WIRE | MOUNTING: SURFACE <u>X</u> MAI | N LUGS ONLY MAIN C BK | KR- GROUND BUS: | <u>×</u> TYPE | MOUNTING | LAMPS | DESCRIPTION | MANUFACTURER & CAT.; |
| | עטעס ש פאטעאס ש TVS | s. S: | 22 ,000MIN A.I.C. SYM | | ED THRU LUG MAIN BUS | TVSS: | R1 | CEILING RECESSED | 31 WATTS LED I INIV | 2X2 RECESSED FIXTURES . 4000 LUMENS, 3500K COLOR TEMP. 80 CRI. WITH DRYWALL ADAPTER | MANUFACTURER: LITHONIA LIGHTING EPANL-2X2-4000LM-80CRI-35K- MIN1-7T-MV0LT-F10WCP-CCA2 |
| | IBER OF POLE | S: <u>42</u> IP CKT | CKT TRIP LOAD | WIRE CND. KVA/PHASE | KVA / PHASE CND. | NUMBER OF POLES: | <u>42</u> СКТ No R1 | MOUNTED CEILING RECESSED | 31 WATTS LED | SAME AS FIXTURE "R1" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: LITHONIA LIGHTING EPANL-2X2-4000LM-80CRI-35K- MIN1-7T-MV0LT-E10W0D-0040 |
| | (AM | 1P) No. | No. (AMP) 1 20 SEC RECEPT | (IN.) A B C 2#12+1#12G 3/4 | A B C (IN.) | (AMP) +1#12G ENTRANCE RECEPT 20 | No. EM | MOUNTED | UNV | | MINT-ZT-MVOLT-ETOWCP-GGAZ |
| | U-1 | / 4 80 6 / 8 | 3 20 SEC RECEPT 5 20 SEC RECEPT 7 20 SEC RECEPT | 2#12+1#12G 3/4 2#12+1#12G 3/4 2#12+1#12G 3/4 | 3/4 2#12+ 0.18 3/4 2#12+ 0.10 3/4 2#12+ | +1#12G DRINKING FOUNTAIN 20 +1#12G ERU-10 20 +1#12G 2 | 4 6 8 R2 | CEILING RECESSED MOUNTED | 46 WATTS LED UNV | 2X2 RECESSED FIXTURES . 4800 LUMENS, 3500K COLOR TEMP. WITH GRID ADAPTOR. | MANUFACTURER: MARK LIGHTING WHSPR-2X2-90CRI-35K-4800LM-M -MVOLT-SWC |
| | U-2 | / <u>10</u> 80 12 | 9 2 ERU-3 11 15 | 2#12+1#12G 3/4 1.04 1.04 | 0.10 - 1.00 3/4 2#12+ | - <i>HP-B</i> /20 +1#12G FIRE DOOR 20 +1#12C CP-1 | 10 12 14 | CEILING RECESSED | 46 WATTS LED UNV | SAME AS FIXTURE "R2" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: MARK LIGHTING WHSPR-2X2-90CRI-35K-4800LM-M -MVOLT-SWC |
| | I-13 | 14 16 35 18 | 13 20 SPARE 15 20 SPARE 17 20 SPARE | | 1.00 3/4 2#12+ 0.50 3/4 2#12+ - - - | +1#12G CP-1 20 +1#12G EF-5 20 - SPARE 20 | 14 R2 16 18 | MOUNTED | 10 WATTS | 6" SQUARE DOWNLIGHT. 1000 LUMENS, 3500K | MANUFACTURER: CALIBER PLUS |
| | | 20 22 | 19 20 SPARE 21 20 SPARE | | | - SPARE 20 - SPARE 20 | 20 <i>R4</i> 22 | RECESSED MOUNTED | LED UNV | COLOR TEMP. | 6SQLBV-10-35K-E1-DA |
| | 20 | 50 24 0 26 0 28 | 23 20 SPARE 25 20 SPARE 27 20 SPARE | | | - SPARE 20 - SPARE 20 - SPARE 20 | 24 26 28 R4 FM | CEILING RECESSED MOUNTED | 10 WATTS LED UNV | SAME AS FIXTURE "R4" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: CALIBER PLUS 6SQLBV-10-35K-E1-DA |
| | 20 | 0 30 0 32 | 29 20 SPARE 31 20 SPARE 22 20 SPARE | | | - SPARE 20 - SPARE 20 | 30 32 24 R4B | CEILING RECESSED MOUNTED | 20 WATTS LED UNV | 6" SQUARE DOWNLIGHT. 1000 LUMENS, 3500K COLOR TEMP. | MANUFACTURER: CALIBER PLUS 6SQLBV—20—35K—E1—DA |
| | | 0 36 | 35 20 SPARE 37 20 SPARE | | | - SPARE 20 - SPARE 20 | 36 38 | CEILING | 20 WATTS LED | SAME AS FIXTURE "R4B" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: CALIBER PLUS 6SQLBV–20–35K–E1–DA |
| | RMERFOR | 40 50 42 | 39 20 SPARE 41 20 SPARE | | | - SPARE 20 - SPARE 20 | 40 R4B 42 EM | RECESSED MOUNTED | UNV 10 WATTS | 6" SOUARE DOWNLIGHT, 1000 LUMENS, 3500K | MANUFACTURER: CALIBER PLUS |
| | .S KVA KVA | | SUBTOTALS TOTAL LOADS | 0.50 1.04 1.04 1.6 KVA PHASE A 1.6 KVA PHASE B | 1.10 0.60 1.18 LIGH RECEPTA | SUBTOTALS ITING: 0.00 KVA ACLE: 0.00 KVA | R5 | RECESSED MOUNTED | LED UNV | COLOR TEMP. | 6SQLBV-10-35K-E1-DA |
| value <th< td=""><td>KVA D KVA KVA</td><td></td><td>TOTAL CONN. LO</td><td>2.2 KVA PHASE C AD 5.5 KVA 14.0 A LOAD 5.0 KVA 14.0 A</td><td>KITC MC</td><td>CHEN: 0.00 KVA OTOR: 3.96 KVA OWER: 1.00 KVA</td><td>R5 EM</td><td>CEILING RECESSED MOUNTED</td><td>10 WATTS LED UNV</td><td>SAME AS FIXTURE "R5" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.</td><td>MANUFACTURER: CALIBER PLUS 6SQLBV—10—35K—E1—DA</td></th<> | KVA D KVA KVA | | TOTAL CONN. LO | 2.2 KVA PHASE C AD 5.5 KVA 14.0 A LOAD 5.0 KVA 14.0 A | KITC MC | CHEN: 0.00 KVA OTOR: 3.96 KVA OWER: 1.00 KVA | R5 EM | CEILING RECESSED MOUNTED | 10 WATTS LED UNV | SAME AS FIXTURE "R5" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: CALIBER PLUS 6SQLBV—10—35K—E1—DA |
| | 0 KVA | | < Load & Total | not equal > | TC | OTAL: 4.96 KVA | | CEILING RECESSED | 14 WATTS LED UNV | 4" ROUND RECESSED DOWNLIGHT.STATIC WHITE FINISH. 80 CRI. 3500 COLOR TEMPERATURE. | MANUFACTURER: LUMENWERX V04RR-OF-ADJ-UNV-14W-D1-V04 -SW-60-2-80-35-LS-V04RRB-SD |
| NUMBER NUMER NUMER NUMER <td>GH SCHOOL) GROUND</td> <td>BUS: <u>X</u></td> <td>(NEW) pnl: mp-hv-1a</td> <td>ELECTRICAL PAN</td> <td>EL SCHEDULE</td> <td>KR- GROUND BUS:</td> <td><u>x</u> R8</td> <td>CEILING RECESSED</td> <td>14 WATTS LED UNV</td> <td>SAME AS FIXTURE "R8" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT.</td> <td>SR-TMW-TRM-TMW MANUFACTURER: LUMENWERX V04RR-OF-ADJ-UNV-14W-D1-V04 -SW-60-2-80-35-LS-V04RRB-SD</td> | GH SCHOOL) GROUND | BUS: <u>X</u> | (NEW) pnl: mp-hv-1a | ELECTRICAL PAN | EL SCHEDULE | KR- GROUND BUS: | <u>x</u> R8 | CEILING RECESSED | 14 WATTS LED UNV | SAME AS FIXTURE "R8" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | SR-TMW-TRM-TMW MANUFACTURER: LUMENWERX V04RR-OF-ADJ-UNV-14W-D1-V04 -SW-60-2-80-35-LS-V04RRB-SD |
| | TED GROUND T | BUS: VSS: LES: 42 | 480Y/277, 3 PHASE, 4 WIRE 65 ,000MIN A.I.C. SYM | (NEMA 1) FLUSH IN MCC FE | DOUBLE LUGS 800A/3 ED THRU LUG MAIN BUS | 3P ISOLATED GROUND BUS: 5- TVSS: | | WOUNTED | 12 WATTS | 15/16" 35K COLOR TEMPEDATURE PO OD | SR-TMW-TRM-TMW MANUFACTURER: TRAP FLEY |
| | LOAD | <i>TRIP CKT</i> (<i>AMP</i>) <i>No.</i> | NEUTRAL: 100% CKT TRIP LOAD No (AMP) LOAD | WIRE CND. KVA/PHASE | KVA / PHASE CND. A B C | A NUMBER OF POLES: | <u>42</u> СКТ | CEILING RECESSED MOUNTED | LED UNV | SAME AS FIXTURE "R9" FXCEPT CONNECTED TO | MODEL #TBFL-MW-22-24-D-A-W |
| $ \begin{array}{ $ | CU-10 | 3 2 4 | 1 3 BP-HV | 12.0 4#3/0+1#6G 2 12.0 | 3.50 - 3.50 3/4 3#10+ | | 2 4 <i>R9</i> <i>EM</i> | CEILING RECESSED MOUNTED | LED UNV | EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: TBAR FLEX MODEL #TBFL-MW-22-24-D-A-W |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | CU-12 | 50 6 3 8 10 50 12 | 5 /200 7 3 9 / RTU-1 | 24.0 3#3/0+1#6G 2 24.0 | 3.50 - 3.50 - 3.50 3.4 | - /25 - 3 +1#10G CU-9 | 6 8 10 R10 | SURFACE REGRESSED MOUNTED | 1.4 W/FT LED 24V | FLEXIBLE LIGHTING SYSTEM. 80 LUMENS PER FOOT. 35K COLOR TEMPERATURE. 80 CRI. | MANUFACTURER: KELVIX SW1–SEE PLAN–35K–E–S–IP67 |
| Max Image: marked | SU-14 | 3 12 14 16 20 18 | 11 /200 13 3 15 RTU-2 17 /200 | - - 24.0 - 24.0 - 3#3/0+1#6G 2 24.0 - - 24.0 | 3.50 - - - - | - / 25 - SPARE 20 - SPARE 20 - SPARE 20 | 12 14 16 18 R10 EM | SURFACE REGRESSED MOUNTED | 1.4 W/FT LED 24V | SAME AS FIXTURE "R10" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: KELVIX SW1—SEE PLAN—35K—E—S—IP67 |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | 3P-HV | 3 20 22 200 24 | 19 20 SPARE 21 20 SPARE 23 20 SPARE | | | - SPARE 20 - SPARE 20 - SPARE 20 | 20 22 24 | CEILING PENDANT MOUNTED | 50 WATTS LED UNV | 8' PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 8 FEET LONG. | MANUFACTURER: AXIS LIGHTING STLDI-8-SLI-500-DML-600-80-35 -W-UNV |
| $ \begin{array}{ $ | EVATOR | 3 26 28 60 30 | 23 20 SPARE 25 20 SPARE 27 20 SPARE 29 20 SPARE | | | - SPARE 20 - SPARE 20 - SPARE 20 - SPARE 20 - SPARE 20 | 24 26 28 30 P1 EM | CEILING PENDANT MOUNTED | 50 WATTS LED UNV | SAME AS FIXTURE "P1" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: AXIS LIGHTING STLDI-8-SLI-500-DML-600-80-35 -W-UNV |
| $ \frac{1}{1000} \frac{1}{100$ | 0000000 | 20 32 20 34 20 36 3 38 | 31 20 SPARE 33 20 SPARE 35 20 SPARE 37 20 SPARE | | | - SPARE 20 - SPARE 20 - SPARE 20 - SPARE 20 | 32 34 36 72 | CEILING PENDANT MOUNTED | 50 WATTS LED UNV | 6' PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 6 FEET LONG. | MANUFACTURER: AXIS LIGHTING STLDI-6-SLI-500-DML-600-80-35 -W-UNV |
| NMA | UKMER FOR -MV-2B ALS | 40 350 42 | 3920SPARE4120SPARESUBTOTALS | | 7.00 7.00 7.00 7.00 7.00 7.00 | RISER TRANSFORMER FOR 3 PP-MV-A SUBTOTALS | 40 42 P2 EM | CEILING PENDANT MOUNTED | 50 WATTS LED UNV | SAME AS FIXTURE "P2" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: AXIS LIGHTING STLDI-6-SLI-500-DML-600-80-35 -W-UNV |
| $ \frac{1}{2} 1$ | 00 KVA 00 KVA 00 KVA | | TOTAL LOADS | 67.0 KVA PHASE A 67.0 KVA PHASE B 67.0 KVA PHASE C | LIGH RECEPTA KITC | HTING: 0.00 KVA ACLE: 0.00 KVA CHEN: 0.00 KVA | P3 | CEILING PENDANT MOUNTED | 35 WATTS LED UNV | 4'PENDENT DIRECT/INDIRECT FIXTURE. 500 LUMENS PER FOOT UP 600 LUMENS PER FOOT DOWN. 35K COLOR TEMPERATURE. 80 CRI. 4 FEET LONG. | MANUFACTURER: AXIS LIGHTING STLDI-4-SLI-500-DML-600-80-35 -W-UNV |
| $ \frac{1}{12} \frac{1}{12}$ | .83 KVA .00 KVA .83 KVA | | TOTAL CONN. LO TOTAL DEMAND | AD 201 KVA 242 A LOAD 201 KVA 242 A | PO | OTOR: 165.00 KVA DWER: 36.00 KVA | P3 _{FM} | CEILING PENDANT | 35 WATTS LED | SAME AS FIXTURE "P3 EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: AXIS LIGHTING STLDI-4-SLI-500-DML-600-80-35 -W-UNV |
| $\frac{1}{2} = \frac{1}{2} + \frac{1}$ | NM2 S | SURFACE MOUNTED | 4.4 W/FT LINEAR AN LED TEMPERATE 24V | IGLED EXTRUSION LED. 35K COLOR URE. | MANUFACTURER. MODEL #LLI-AN | R: LLI LIGHTING NG-S-F-4.4-35K-24V- | P4 | CEILING PENDANT MOUNTED | 87 WATTS LED UNV | CONTINUOS LINEAR SLOT DIRECT/INDIRECT WALL LIGHT. 400 LUMENS PER FOOT DIRECT AND 600 LUMENS PER FOOT INDIRECT. 35K COLOR TEMPERATURE. 90 CRI. I FNGTHS AS PER PLAN | MANUFACTURER: MARK LIGHTING S1LIDP-OPP-PER PLAN-90CRI-35K 200LMF-190CRI-135K-1400LMF-MIN1 MV0LT-WHT-36A-RDCY-WHTCY-WC5 |
| West | WM2 EM | SURFACE MOUNTED | 4.4 W/FT LED 24V SAME AS EMERGENO | FIXTURE "WM2" EXCEPT CONNECTED CY LIGHTING CIRCUIT. | TO MANUFACTURER. MODEL #LLI—AN | R: LLI LIGHTING NG—S—F—4.4—35K—24V— | P4 EM | CEILING PENDANT MOUNTED | 87 WATTS LED UNV | SAME AS FIXTURE "P4" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: MARK LIGHTING S1LIDP-OPP-XXFT-90CRI-35K- 200LMF-I90CRI-I35K-I400LMF-MIN1 MVOLT-WHT-36A-RDCY-WHTCY-WCR |
| M_{L} < | NM3 | WALL IOUNTED | 51 WATTS WALL MOU LED OPTIC REF 120 COLOR TE | INTED LLED TYPE LIGHTING. NARROW FLECTOR. 5000 LUMENS, 80 CRI,400 MPERATURE. MATTE SILVER FINISH | MANUFACTURER. OK MODEL #SQ602 –2535 | R: LUMINIS 2-L2L25-R15-120-MST | Р5-В | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | 20" DIAMETER X 5" HEIGHT. GREEN IN COLOR. WHITE FINISH. SINGLE STEM MOUNT. NICKEL TONE STEM FINISH 35K COLOR TEMPERATURE. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680–20–49–45W–G–SSM- T–35K |
| MM4 Wull Image: Source of the second construction of the second consecond construction of the second construction of the | WM3 EM M | WALL MOUNTED | 51 WATTS SAME AS LED EMERGENC | FIXTURE "WM3" EXCEPT CONNECTED Y LIGHTING CIRCUIT. | TO MANUFACTURER: MODEL #SQ602 -2535 | : LUMINIS 2-L2L25-R15-120-MST | Р5—В ЕМ | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | SAME AS FIXTURE "P5-B" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680–20–49–45W–G–SSM- T–35K |
| WML EM IS WML ED IS | NM4 | WALL IOUNTED | 16 WATTS LED 120 WALL MOU CRI. 35K | INT LED SCONCE. FROSTED FINISH. & COLOR TEMPERATURE. | 80 MANUFACTURER. MODEL #3418– –FRO | R: EUREKA LIGHTING -LED-35-80-120-DV-BLKE | P5-W | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | 20" DIAMETER X 5" HEIGHT. WHITE IN COLOR. WHITE FINISH. SINGLE STEM MOUNT. NICKEL TONE STEM FINISH 35K COLOR TEMPERATURE. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680–20–49–45W–WH–SSM T–35K |
| MAS SURFACE 87 witts LED CONC TAPE LIGHT REMOTE DRIVER. BINAMBLE MANUFACTURER: KELVX LED TAPE MODEL #SE-30X-300-24V MMS SURFACE 87 witts LED CONC TAPE LIGHT REMOTE DRIVER. BINAMBLE MANUFACTURER: KELVX LED TAPE MODEL #SE-30X-300-24V 45 witts LED 20" DUMETER FINISH. SINCLE STEM MOUNT. NICKEL TONE BHERGENCY LIGHTING CIRCUIT. MANUFACTURER: FELVIX LED TAPE MODEL #SE-30X-300-24V MMS SURFACE 87 witts SAME. AS FRITURE 'WILS' EXCEPT CONNECTED TO LINK MANUFACTURER: FELVIX LED TAPE MODEL #SE-30X-300-24V 58 witts LED SURFACE STEM FINISH SINCLE STEM MOUNT. NICKEL TONE BHERGENCY LIGHTING CIRCUIT. MANUFACTURER: FERWINELED LIGHT MODEL #SE-30X-300-24V S SURFACE 40 witts LED '' STP LIGHTING, GOD LIMENS, 400K COLOR TEMERGENCY CIRCUIT. MANUFACTURER: COLUMBIA LIGHTING MODEL #SE-30X-300-24V 45 witts LED SUME AS FRITURE ''PS-0" EXCEPT CONNECTED TO WONTED MANUFACTURER: FERWINELE LIGHT MODEL #SE-30X-300-24V S SURFACE 40 witts LED '' STP LIGHTING, GOD LIMENS, 400K COLOR MANUFACTURER: COLUMBIA LIGHTING MODEL #SENSOF SUME AS FRITURE ''DE-0" EXCEPT CONNECTED TO WANUFACTURER: ACMUT BENESS HERGENCY LIGHTING CIRCUIT. MANUFACTURER: ACMUT BENESS HERGENC | VM4 EM M | WALL MOUNTED | 16 WATTS SAME AS LED EMERGENO | FIXTURE "WM4" EXCEPT CONNECTED | TO MANUFACTURER. MODEL #3418– –FRO | R: EUREKA LIGHTING -LED-35-80-120-DV-BLKE | P5–W EM | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | SAME AS FIXTURE "P5-W" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680–20–49–45W–WH–SSM T–35K |
| MMS SumFace Number of the control Manufacturer: Number of the control < | VM5 S | SURFACE MOUNTED | 87 WATTS LED COVE LED FIXTURE. UNV | TAPE LIGHT REMOTE DRIVER. DIMMA | NBLE MANUFACTURER. MODEL #SE—30 | R: KELVIX LED TAPE 0K-300-24V | P5-G | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | 20" DIAMETER X 5" HEIGHT. GREEN IN COLOR. WHITE FINISH. SINGLE STEM MOUNT. NICKEL TONE STEM FINISH 35K COLOR TEMPFRATURF | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680–20–49–45W–G–SSM- T–35K |
| $S_{EM} = \frac{40 \text{ warts}}{100 \text{ warts}} = \frac{40 \text{ warts}}{100 $ | WM5 EM | SURFACE MOUNTED | 87 WATTS SAME AS LED UNV | FIXTURE "WM5" EXCEPT CONNECTED SY LIGHTING CIRCUIT. | TO MANUFACTURER MODEL #SE-30 | R: KELVIX LED TAPE OK-300-24V | P5–G EM | CEILING PENDANT MOUNTED | 45 WATTS LED UNV | SAME AS FIXTURE "P5-G" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: BROWNLEE LIGHTING MODEL #2680-20-49-45W-G-SSM- T-35K |
| $\frac{1}{M} = \frac{1}{M} = \frac{1}$ | S EM | SURFACE MOUNTED | 40 WATTS 4' STIP LED TEMPERA UNV EMERGEN | LIGHTING, 4000 LUMENS, 400K COLO TURE. 0–10V DIMMING. CONNECTED ICY CIRCUIT. | DR MANUFACTUREI TO MODEL #CSLA: | R: COLUMBIA LIGHTING A-4040 | P6 | CEILING PENDANT MOUNTED | 3 WATTS LED UNV | DECORATIVE PENDENT . CYLINDER DIFFUSER. 9" STEM LENGTH. 35K COLOR TEMPERATURE. BRUSHED ALUMINUM FINISH. | MANUFACTURER: ACUITY BRANDS– HEALTHCARE LIGHTING #HPP1–9ST–MVOLT–CYL–LRG–35K–2 |
| Image: Collock remperators. Mounted AS Directed BT OWNER. OWNER. Manufactures in the presentation of the presentation of the presentation of the presentation. Manufactures in the presentation of the presentation. Manufactures in the presentatin the presentation. Manufacture | ^{ЕМ} Ф _Z м | WALL OUNTED | 70W WALL MOU 70W WALLPACK LED PHOTO CO UNV SENSOR A | INTED QUARTERSHPHERE ARCHITECTU EXTERIOR LIGHT FIXTURE WITH BUT ONTROL, PROGRAMMABLE OCCUPANCY AND EM BATTERY BACK UP. 4000K | IRAL MANUFACTUR TON QSP2-32L-4 -PC-SCP-EI | RER: HUBBELL 40–4K7–3–U–BLT M | P6 EM | CEILING PENDANT MOUNTED | 3 WATTS LED UNV | SAME AS FIXTURE "P6" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: ACUITY BRANDS– HEALTHCARE LIGHTING #HPP1–9ST–MVOLT–CYL–LRG–35K–. MIN5–INT–BA |
| Z1 UNV OWNER. MANUFACTURER: ENCORE LIGHITNG SURFACE 1-5W L.E.D. TYPE EXIT LIGHT, STEEL HOUSING, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED MANUFACTURER: ENCORE LIGHITNG CAT.#LSE-8-R-PER DWG WM1 EM SURFACE WALL EM 20 WATTS LED WALL EM SAME AS FIXTURE "WM1" EXCEPT CONNECTED TO MANUFACTURER: MARK LIGHTING EMERGENCY LIGHTING CIRCUIT. MANUFACTURER: MARK LIGHTING MODEL #S1WI-LLP-8FT-MSL8-19C UNV | | WALL | TOW WALL MOU 70W WALL MOU LED TEMPERAT | INTED QUARTERSHPHERE ARCHITECTU EXTERIOR LIGHT FIXTURE 4000K (URE. MOUNTED AS DIRECTFD BY | IRAL MANUFACTUR COLOR QSP2-32L-4 | RER: HUBBELL 40–4K7–3–U–BLT | WM 1 | SURFACE WALL MOUNTED | 20 WATTS LED UNV | 8' LINEAR SLOT INDIRECT WALL LIGHT. 400 LUMENS PER FOOT. 35K COLOR TEMPERATURE. 90 CRI. | MANUFACTURER: MARK LIGHTING MODEL #S1LWI—LLP—8FT—MSL8—I9OC I35K—I400LMF—MIN1—MVOLT—WHT—ZT |
| | Z1 SU SU WALL | URFACE L/CEILING | UNV OWNER. | PE EXIT LIGHT, STEEL HOUSING, NUN S AND DIRECTIONAL ARROWS AS INDI | IBER MANUFACTUR CATED CAT.#LSE-8- | RER: ENCORE LIGHITNG RPER DWG | WM1 EM | SURFACE WALL MOUNTED | 20 WATTS LED UNV | SAME AS FIXTURE "WM1" EXCEPT CONNECTED TO EMERGENCY LIGHTING CIRCUIT. | MANUFACTURER: MARK LIGHTING MODEL #S1WI-LLP-8FT-MSL8-I90CR I35K-I400LMF-MIN1-MVOLT-WHT-ZT- |

