

Liberty School District – Technology Remodel Addendum No: 003 Description Narrative November 01, 2023

This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.

The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

A. CONSTRUCTION MANAGER'S FRONT END MANUAL

Bid time and date change to November 6th, 2023 1:00pm

Reissue Bid Scopes:
 26-1000 – Electrical – Add 03
 32-9000 – Landscaping – Add 03

B. <u>OTHER</u>

Answers to bidder questions.

C. SPECIFICATIONS

1. Please reference the attached Addendum No. 003 issued by Hollis+Miller dated November 01, 2023, for updates to Specifications.

D. DRAWINGS

1. Please reference the attached Addendum No. 003 issued by Hollis+Miller dated November 01, 2023, for updates to Drawings.

Please direct any questions regarding the information in this addenda and the project to Newkirk Novak Construction Partners.



PROJECT: N3-0645 COST CODE: 26-1000

Liberty Public Schools Technology Remodel 26-1000–Electrical Scope of Work – Add 03

Specific scope of work to be performed:

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Electrical** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023, and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01
- 024100 Selective Demolition (As Applies)
- 260010 Supplemental Requirements for Electrical
- 260519 Low-Voltage Electrical Power Conductors and Cables
- 260526 Grounding and Bonding for Electrical Systems
- 260529 Hangers and Supports for Electrical Systems
- 260533 .13 Conduits for Electrical Systems
- 260533 .16 Boxes and Covers for Electrical Systems
- 260536 Cable Trays for Electrical Systems
- 260544 Sleeves and Sleeve Seals for Electrical Raceways and Cabling
- 260553 Identification for Electrical Systems
- 260923 Lighting Control Devices
- 262416 Panelboards
- 262716 Electrical Cabinets and Enclosures
- 262726 Wiring Devices
- 262816 Enclosed Switches and Circuit Breakers
- 263213.13 Diesel-Engine-Driven Generator Sets
- 263600 Transfer Switches
- 265119 LED Interior Lighting
- 280500 Common Work Results for Electronic Safety and Security
- 280513 Conductors and Cables for Electronic Safety and Security
- 283111 Digital, Addressable Fire-Alarm System

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

- 1. All items per Master Scope of Work.
- 2. Provide all demolition as follows:
 - a) Perform all cut, cap, make safe for demo activities.
 - b) Make safe all devices in walls or ceilings for demo.
 - Remove any electrical devices in walls/ceiling not called out to demo.
- 3. Provide conduit raceways and sleeves for the following systems, including but not limited to:
 - a) Temperature Control
 - b) Building Automation System
 - c) Data / communications
 - d) In-wall conduit and openings in masonry walls with masonry contractor. If this contractor fails to coorindate they will be responsible for core drilling, saw cutting, etc. and patch back. There is to be no wall mounted conduit unless specifically noted.



- e) This contractor is to provide any sleeves required for in-wall or underslab work.
- 4. Fire Alarm System complete, including but not limited to:
 - a) Furnish of duct detectors. Include final connection and testing. Installation to be my Mechanical Subcontractor.
 - b) Provide and install all new audio/visible devices. If existing device is deemed re-usable by district, provide credit for new device.
 - c) Testing of all systems
 - d) System shall interface with security electronics systems. Coordinate with security electronics subcontractor. Provide fire alarm system progroamming and auxiliary contracts as required to allow for fire alarm annunciation/control from the security electronics control panels as specified.
 - e) Provide input and output modules for all equipment that must be monitored/controlled for the purpose of smoke evaculation/pressurization.
 - f) Provide all fire alarm wiring including control and monitoring wire from each input/output module to its corresponding piece of smoke evacuation equipment.
 - g) Testing for fire alarm system in conjunction with HVAC contractor, electrical contractor and general contractor to verify accurate function of smoke evacuation/pressurization systems.
 - h) Provide and connect magnetic door holds devices for control. Connect to fire alarm system for monitoring.
- 5. Electrical service to other MEPT systems, including but not limited to:
 - a) Line voltage interlock wiring for mechanical system
 - b) Starters and disconnect switches
 - c) Unit heaters
 - d) Plumbing fixtures
 - e) Duct detectors
- 6. Provide AV system per the contract documents, including but not limited to:
 - a) Cable tray
 - b) Sleeves & sleeve seals
 - c) Enclosures for underground data transition
 - d) Boxes and conduit
 - e) Cabling
 - f) Devices
- 7. Provide and install all power requirements and electrical connections to all equipment, furnishings, etc. requiring electric power including but not liminted to, indicated or not indicated hadicap assist door operators, magnetic hold-open devices, all disconnects, other systems requiring power, etc.
- 8. Provide and Install all electronic security devices/systems as required by contract documents.
- 9. Install exterior diesel generator and pad mount transformer. Generator furnished by Owner and delivered to site.
 a) Provide hoisting / rigging as needed to set generator on pad.
- 10. Provide and install all access control devices, etc. complete.
- 11. Provide and install all video surveillance devices, etc. complete.
- 12. This contractor will be required to pull permits for all work as required.
- 13. Schedule and attend all necessary inspections associated with this scope of work.
- 14. Provide an allowance of \$15,000 to be used as directed by construction manager. Any unused portions will be returned to the owner.

The following work is excluded:

1. Diesel Generator provided by Owner.



PROJECT: N3-0645 COST CODE: 32-8000

Liberty Public Schools Technology Remodel 32-8000–Landscaping Scope of Work – Add 03

Specific scope of work to be performed:

Provide all required labor, material, equipment, permits, freight, labor, and applicable taxes necessary for the **Landscaping** Scope of Work complete as set forth in the drawings and specifications provided by Hollis + Miller Architects on August 31st, 2023 and all other applicable sections of the project manual and all other subcontract documents identified.

- Division 00
- Division 01

JOB SPECIFIC SCOPE INCLUDES (but is not limited to):

- 1. All items per Master Scope of Work.
- 2. Provide demo / removal of existing landscaping, mulch, and black dirt.
- 3. Provide import of new black dirt per project documents.
- 4. Provide all Landscaping as shown on drawings complete, including but not limited to:
 - a) Provide temporary water and maintenance as specified to all areas that receive landscaping to establish growth.
- 5. Provide final grade / box grading of planting areas.

The Following Work is Excluded:

Construction Manager: Newkirk Novak Construction Partners

Liberty School District - District Technology Remodel

	Architec	t: Hollis Miller						Date:	11/1/2023	
Question Issued By:	#	Discipline	Scope of Work	Date Dra	awing / Detail #	Question	Response	Answered By	Date Answered	Issued Addendum
NNCP		1 MEP	Fire Suppression	10/19/2023		It was NNCP's understanding that a clean agent fire suppression system was needed in the new data center. If needed please provide design direction and specifications.	See added information on sheet P101 and added specification section 212200 in Addendum 3.	Smith & Boucher	11/1/2023	Addendum 03
EMI		2 MEP	Ductwork	10/20/2023		I am looking for the Schedule for the ductwork pressure classifications and liner that are supposed to be on the drawings. I also don't see the registers & grills schedule either.	See added schedules on sheet ME302 in Addendum 3.	Smith & Boucher / Hollis + Miller	11/1/2023	Addendum 03
Royal Construction		5 Arch	Carpentry	10/26/2023		123200 - 1.5.A & B – There are no LEED requirements, so I am assuming that FSC materials are not required. Please confirm.	Refer to specification section 123200-2.3 for material requirements.	Hollis + Miller	11/1/2023	Addendum 03
Royal Construction		6 Arch	Carpentry	10/26/2023		Please confirm the notes in the documents that show "Casework NIC" are supplied and installed by owner.	Correct.	Hollis + Miller	11/1/2023	Addendum 03
EMI		7 MEP	Mechanical	10/26/2023		A801 it lists alternate #3. How much of the mechanical is to be excluded for this alternate. Duct, Registers, Boxes, Controls ?	See added information on sheet M101 in Addendum 3.	Smith & Boucher / Hollis + Miller	11/1/2023	Addendum 03
Royal Construction		8 Arch	Carpentry	10/26/2023		Will the solid surface windowsills stay or be removed in Alternates #2 & #3? The notes state that the new windows and blinds will remain, but mentions nothing about the sills.	See Addendum 03	Hollis + Miller	11/1/2023	Addendum 03
DH Pace		9 Arch	Doors / Frames	10/26/2023		081113 2.3 B.3 C&D Show two construction methods. What method is requested.	See Addendum 03	Hollis + Miller	11/1/2023	Addendum 03
DH Pace	1	.0 Arch	Doors / Frames	10/26/2023		081113 2.3 C.3C Shows two construction methods. What method is requested.	See Addendum 03	Hollis + Miller	11/1/2023	Addendum 03
DH Pace	1	.1 Arch	Doors / Frames	10/26/2023		081416 2.2 B.1 & 2 Shows two performance grades. What grade is requested.	See Addendum 03	Hollis + Miller	11/1/2023	Addendum 03
NNCP	1	.3 MEP	MEP	10/31/2023		Please confirm all MEP work to follow arch direction of scope removal per A801.	See Addendum 03	Smith & Boucher / Hollis + Miller	11/1/2023	Addendum 03
NNCP	1	4 Arch	Toilet Partitions	11/1/2023		General Trades Contractors to Assume 66" Toilet Partition Height	General Trades Contractors to Assume 66" Toilet Partition Height	NNCP	11/1/2023	Addendum 03

ADDENDUM NO. 03

Issued: 10/31/2023 Project: Liberty | District Technology Remodel 1000 Kent Street, Liberty, MO 64068

Project No. 23022

Owner: Liberty Public Schools 8 Victory Lane Liberty, MO 64068

Bidding Documents Issued: 10/17/2023 (dated 08/31/2023)

This Addendum includes these 2 pages and the following attachments: Supplemental Information: n/a

Project Manual:

Reissued Section 000110 "Table of Contents" consisting of 4 pages. Revised Section 081113 "Hollow Metal Doors and Frames". Revised Section 081416 "Flush Wood Doors". Refer to Smith & Boucher, MEP Addendum No. 3

Drawings:

Revised Architectural Sheets: A801. Refer to Smith & Boucher, MEP Addendum No. 3

PROJECT MANUAL REVISIONS

A1 SECTION 000110 - TABLE OF CONTENTS

A1.1 REPLACE existing Section 000110 "Table of Contents" with the attached revised Section 000110 "Table of Contents", dated 10.31.2023.

A2 SECTION 081113 – HOLLOW METAL DOORS AND FRAMES

- A2.1 DELETE Clause 2.3.B.3.d in its entirety.
- A2.2 DELETE "Knocked down" from Clause 2.3.C.3.c.

A3 SECTION 081416 – FLUSH WOOD DOORS

A3.1 DELETE Subparagraph 2.2.B.2 in its entirety.

P1 REFERENCE ATTACHED MEP ADDENDUM NO. 3

hollis___^{architects*} miller

DRAWINGS REVISIONS

A4 SHEET A801 – ALTERNATES FLOOR PLAN (#2 + #3)

- A4.1 REVISE the plan note in Floor Plan A1 pointing to Alternate #2 Fine Arts Suite to include solid surface window sills in the base bid scope.
- A4.2 REVISE the plan note in Floor Plan A1 pointing to Alternate #3 Kid's Zone Suite to include solid surface window sills in the base bid scope.

M1 REFERENCE ATTACHED MEP ADDENDUM NO. 3

- E1 REFERENCE ATTACHED MEP ADDENDUM NO. 3
- P1 REFERENCE ATTACHED MEP ADDENDUM NO. 3

END OF ADDENDUM NO. 03

DOCUMENT 000110 - TABLE OF CONTENTS

		Revisions	Date
Project Name:	Liberty School District - District Technology Remodel	Addendum 03	10.31.2023
Project No.:	23022		
Site Address	1000 Kent Street		
City, State Zip	Liberty, Missouri 64068		
		Latest Revision	Original Issue
INTRODUCTOR	Y INFORMATION		
000101	Project Team Directory		10.10.2023
000105	Certifications and Seals		10.10.2023
000110	Table of Contents	10.31.2023	10.10.2023

BIDDING REQUIREMENTS

(Refer to Construction Manager's Front End Manual for additional Bidding Requirements)

CONTRACTING REQUIREMENTS

(Refer to Construction Manager's Front End Manual for additional Contracting Requirements)

DIVISION 1 – GE	ENERAL REQUIREMENTS	
011000	Summary	10.10.2023
012100	Allowances	10.10.2023
012200	Unit Prices	10.10.2023
012300	Alternates	10.10.2023
012500	Substitution Procedures	10.10.2023
013100	Project Management and Coordination	10.10.2023
013200	Construction Progress Documentation	10.10.2023
013233	Photographic Documentation	10.10.2023
013300	Submittal Procedures	10.10.2023
014000	Quality Requirements	10.10.2023
014200	References	10.10.2023
014529	Testing and Inspections	10.10.2023
016000	Product Requirements	10.10.2023
017419	Construction Waste Management & Disposal	10.10.2023
017700	Closeout Procedures	10.10.2023
017823	Operation and Maintenance Data	10.10.2023
017839	Project Record Documents	10.10.2023
017900	Demonstration and Training	10.10.2023
DIVISION 2 - EX	(ISTING CONDITIONS	
024119	Selective Demolition	10.10.2023
DIVISION 3 – CO	ONCRETE	
033000	Cast-in-Place Concrete	10.10.2023
DIVISION 4 - MA	ASONRY	
040100	Masonry Restoration and Cleaning	10.10.2023
042000	Unit Masonry	10.10.2023
DIVISION 5 - ME	TALS	
051200	Structural Metal Framing	10.10.2023
054000	Cold-Formed Metal Framing	10.10.2023
055000	Metal Fabrications	10.10.2023

		Latest Revision	Original Issue
	JOD AND PLASTICS		10 10 2022
001000			10.10.2023
062023	Plastic Paneling		10.10.2023
000400	Flastic Falleling		10.10.2023
DIVISION 7 - THE	ERMAL AND MOISTURE PROTECTION		
072419	Exterior Insulation & Finish System (EIFS)		10.10.2023
072500	Weather Barriers		10.10.2023
072726	Fluid-Applied Air Barrier Coatings		10.10.2023
074400	Concrete Faced Rigid Insulation		10.10.2023
076200	Sheet Metal Flashing and Trim		10.10.2023
078413	Penetration Firestopping		10.10.2023
078446	Fire Resistive Joint Systems		10.10.2023
079200	Joint Sealants		10.10.2023
DIVISION 8 - DO	ORS AND WINDOWS		
081113	Hollow Metal Doors and Frames	10.31.2023	10.10.2023
081416	Flush Wood Doors	10.31.2023	10.10.2023
084113	Aluminum Framed Entrances and Storefronts		10.10.2023
085613	Transaction Windows		10.10.2023
087100	Door Hardware		10.10.2023
088000	Glazing		10.10.2023
	ISHES		
092116	Non-Structural Metal Framing		10 10 2023
092900	Gypsum Board		10 10 2023
093000	Tiling		10 10 2023
095113	Acoustical Panel Ceilings		10 10 2023
096513	Resilient Base and Accessories		10.10.2023
096519	Resilient Tile Flooring		10.10.2023
096723	Resinous Flooring		10 10 2023
096813	Tile Carpeting		10.10.2023
097723	Fabric-Wrapped Panels		10.10.2023
099113	Exterior Painting		10.10.2023
099123	Interior Painting		10.10.2023
099600	High-Performance Coatings		10.10.2023
DIVISION 10 - S	PECIALTIES		
101100	Visual Display Units		10 10 2023
101400	Signage		10.10.2023
101423	ADA and Code Signage		10.10.2023
102113	Toilet Compartments		10 10 2023
102600	Wall and Door Protection		10.10.2023
102800	Toilet Bath & Laundry Accessories		10 10 2023
104413	Fire Extinguisher Cabinets		10 10 2023
104416	Fire Extinguishers		10.10.2023
DIVISION 12 - FL	JRNISHINGS		
122113	Horizontal Louver Blinds		10.10.2023
123200	Manufactured Wood Casework		10.10.2023
123666	Solid Surfacing Countertops		10.10.2023

		Latest Revision	Original Issue
DIVISION 21 – FI	RE SUPPRESSION		
212200	Clean-Agent Fire-Extinguishing Systems	10.31.2023	XX.XX.XX
DIVISION 22 - PL	UMBING		
220500	Common Work Results for Plumbing		10.10.2023
220513	Common Motor Requirements for Plumbing Equipment		10.10.2023
220516	Expansion Fittings and Loops for Plumbing Piping		10.10.2023
220519	Meters and Gauges for Plumbing Piping		10.10.2023
220523	General Duty Valves for Plumbing Piping		10.10.2023
220529	Hangers and Supports for Plumbing Piping and Equipment		10.10.2023
220553	Identification for Plumbing Piping and Equipment		10.10.2023
220719	Plumbing Piping Insulation		10.10.2023
221116	Domestic Water Piping		10.10.2023
221119	Domestic Water Piping Specialties		10.10.2023
221123	Domestic Water Piping Pumps		10.10.2023
221316	Sanitary Waste and Vent Piping		10.10.2023
221319	Sanitary Waste Piping Specialties		10 10 2023
223300	Electric. Domestic-Water Heaters		10.10.2023
224000	Plumbing Fixtures		10.10.2023
224700	Drinking Fountains/Water Coolers		10.10.2023
DIVISION 23 - HE	ATING, VENTILATING AND AIR CONDITIONING		
230500	Common Work Results for HVAC		10.10.2023
230529	Hangers and Supports for HVAC Piping and Equipment		10.10.2023
230553	HVAC System Identification		10.10.2023
230593	Testing, Adjusting, and Balancing for HVAC		10.10.2023
230713	Duct Insulation		10.10.2023
230719	HVAC Piping Insulation		10.10.2023
230900	Instrumentation and Control for HVAC		10.10.2023
232113	Hydronic Piping		10.10.2023
232300	Refrigerant Piping		10.10.2023
233113	Metal Ducts		10.10.2023
233300	Duct Accessories		10.10.2023
233416	Centrifugal HVAC Fans		10.10.2023
233600	Air Terminal Units		10.10.2023
233713	Diffusers, Registers, and Grilles		10.10.2023
236200	Packaged Compressor and Condenser Units		10.10.2023
237313.13	Indoor, Basic Air-Handling Units		10.10.2023
238123.18	Computer-Room, Rack-Cooling Equipment		10.10.2023
238239	Cabinet Unit Heaters		10.10.2023
DIVISION 26 - EL	ECTRICAL		
260010	Supplemental Requirements for Electrical		10.10.2023
260519	Low-Voltage Electrical Power Conductors and Cables		10.10.2023
260526	Grounding and Bonding for Electrical Systems		10.10.2023
260529	Hangers and Supports for Electrical Systems		10.10.2023
260533.13	Conduits for Electrical Systems		10.10.2023
260533.16	Boxes and Covers for Electrical Systems		10.10.2023
260536	Cable Trays for Electrical Systems		10.10.2023
260544	Sleeves and Sleeve Seals for Electrical Raceways and Cabling		10.10.2023
260553	Identification for Electrical Systems		10.10.2023
260923	Lighting Control Devices		10.10.2023
262416	Panelboards		10.10.2023

		Latest Revision	Original Issue
262716	Electrical Cabinets and Enclosures		10.10.2023
262726	Wiring Devices		10.10.2023
262816	Enclosed Switches and Circuit Breakers		10.10.2023
263213.13	Diesel-Engine-Driven Generator Sets		10.10.2023
263600	Transfer Switches		10.10.2023
265119	LED Interior Lighting		10.10.2023
DIVISION 27 - C	OMMUNICATIONS		
270010	Supplemental Requirements for Communications		10.10.2023
271100	Communications Equipment Room Fittings		10.10.2023
271513	Communications Copper Horizontal Cabling		10.10.2023
DIVISION 28 - EL	ECTRONIC ACCESS CONTROL AND INTRUSION DETECTION		
280500	Common Work Results for Electronic Safety and Security		10.10.2023
280513	Conductors and Cables for Electronic Safety and Security		10.10.2023
283111	Digital, Addressable Fire-Alarm System		10.10.2023
DIVISION 31 - EA	ARTHWORK		10.10.2023
311000	Site Clearing		10.10.2023
312000	Earth Moving		10.10.2023
DIVISION 32 - EX	(TERIOR IMPROVEMENTS		
321216	Asphalt Paving		08.04.2023
321313	Concrete Paving		10.10.2023
321373	Concrete Paving Joint Sealants		10.10.2023
323113	Chain Link Fences and Gates		10.10.2023
323119	Decorative Metal Fences and Gates		10.10.2023
DIVISION 33 - UT	TILITIES		
334100	Storm Utility Drainage Piping		10.10.2023

END OF TABLE OF CONTENTS



ADDENUM No. 3

Liberty School District Technology Remodel Smith & Boucher Project No. 2314706

10/31/2023

To Documents Titled: District Technology Remodel 8/31/2023 Architect-of-Record: Hollis and Miller 1828 Walnut Street Suite 922 Kansas City, MO 64108

The Contract Documents for the above referenced project and the Work covered thereby are modified as described herein.

SPECIFICATIONS

Section 212200 – Clean-Agent Fire-Extinguishing Systems

 Added section.

DRAWINGS

- 2. Sheet ME302 MECHANICAL AND ELECTRICAL SCHEDULES
 - a. Added Ductwork Schedule, Ductwork Insulation Schedule, and Grille, Register & Diffuser Schedule.
- Sheet M101 HVAC PLAN LEVEL 1

 Alternate scopes added.
- Sheet P101 PLUMBING PLAN LEVEL 1

 Plan note number 6 updated.
- Sheet E101 LIGHTING PLAN LEVEL 1

 Alternate scopes added.
- Sheet E101 LIGHTING PLAN LEVEL 1

 Alternate scopes added.
- 7. Sheet E201 POWER PLAN LEVEL 1
 - a. Alternate scopes added.
 - b. Tag added to HVAC box VAV1-11.
- 8. Sheet LV101 TELECOMUNICATIONS PLAN LEVEL 1
- a. Alternate scopes added.
- Sheet ES101 ELECTRONIC SECURITY PLAN LEVEL 1

 Alternate scopes added.
- 10. Sheet F101 FIRE ALARM PLAN LEVEL 1
 - a. Alternate scopes added.

END OF MEP ITEMS FOR ADDENDUM NO. 3

SECTION 212200 - CLEAN-AGENT FIRE-EXTINGUISHING SYSTEMS

PART 1 - GENERAL

- 1.1 SUMMARY
 - A. Section Includes:
 - 1. Pipe and fittings.
 - 2. Valves.
 - 3. Extinguishing-agent containers.
 - 4. Fire-extinguishing clean agent.
 - 5. Discharge nozzles.
 - 6. Manifold and orifice unions.
 - 7. Fire control panels.
 - 8. Detection devices.
 - 9. Manual stations.
 - 10. Switches.
 - 11. Alarm devices.

1.2 DEFINITIONS

A. EPO: Emergency Power Off.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Prepare in accordance with requirements of NFPA 2001, to include, but not be limited to, the following:
 - 1. Include plans, elevations, sections, and attachment details.
 - 2. Include design calculations.
 - 3. Include details of equipment assemblies. Indicate dimensions, weights, loads, manufacturer-required clearances, method of field assembly, components, and location and size of each field connection.
 - 4. Include diagrams for power, signal, and control wiring.
 - 5. Permit-Approved Documents: Working plans and hydraulic calculations approved by authorities having jurisdiction.
- C. Delegated-Design Submittal: For clean-agent fire-extinguishing systems indicated to comply with performance and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.4 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Plans, or BIM model, drawn to scale, showing the items described in this Section, and coordinated with all building trades. Coordinate for enclosure integrity in accordance with NFPA 2001 requirements.

1.5 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For clean-agent fire-extinguishing system to include in emergency, operation, and maintenance manuals.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents. Deliver extra materials to Owner.
 - 1. Detection Devices: Not less than 20 percent of amount of each type installed.
 - 2. Container Valves: Not less than 10 percent of amount of each size and type installed.
 - 3. Nozzles: Not less than 20 percent of amount of each type installed.
 - 4. Extinguishing Agent: Not less than 100 percent of amount installed in largest hazard area. Include pressurerated containers with valves.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by an NRTL, and marked for intended location and application.
- B. UL Compliance: Provide equipment listed in UL's "Fire Protection Equipment Directory."

2.2 CLEAN-AGENT SYSTEMS

- A. Manufacturers: Subject to compliance with requirements, provide products by the following:
 1. Fike Corporation.
- B. Source Limitations: Obtain clean-agent systems from single source from single manufacturer.
- C. Description: Clean-agent fire-extinguishing system shall be an engineered system for total flooding of the hazard area.
- D. Delegated Design: Design clean-agent fire-extinguishing system and obtain approval from authorities having jurisdiction. Design system for Class A fires as appropriate for areas being protected, and include safety factor. Use clean agent indicated and in concentration suitable for normally occupied areas.
- E. Performance Requirements, Discharge ECARO-25: Within 10 seconds and maintain 6.7 percent concentration by volume at 70 deg F for 10-minute holding time in hazard areas.
- F. Verified Detection: Devices located in single zone. Sound alarm on activating single-detection device, and discharge extinguishing agent on actuating second-detection device.
- G. System Operating Sequence for ionization smoke detectors or photoelectric smoke detectors or combination of ionization and photoelectric smoke detectors:
 - 1. Actuating First Detector: Visual indication on annunciator panel. Energize audible and visual alarms (slow pulse), shut down air-conditioning and ventilating systems serving protected area, close doors in protected area, and send signal to fire-alarm system.
 - 2. Extinguishing-agent discharge will operate audible alarms and strobe lights inside and outside the protected area.
- H. Manual stations shall immediately discharge extinguishing agent when activated.
- I. EPO: Will terminate power to protected equipment immediately on actuation.
- J. Low-Agent Pressure Switch: Initiate trouble alarm if sensing less than set pressure.
- K. Power Transfer Switch: Transfer from normal to standby power source.

2.3 PIPE AND FITTINGS

- A. Piping, Valves, and Discharge Nozzles: Comply with types and standards listed in NFPA 2001, Section "Distribution," for charging pressure of system.
- B. Steel Pipe: ASTM A53/A53M, Type S, Grade B or ASTM A106/A106M, Grade A and Grade B; Schedule 40, Schedule 80, and Schedule 160, seamless steel pipe.
 - 1. Threaded Fittings:
 - a. Malleable-Iron Fittings: ASME B16.3, Class 300.
 - b. Flanges and Flanged Fittings: ASME B16.5, Class 300 unless Class 600 is indicated.
 - c. Fittings Working Pressure: 620 psig minimum.
 - d. Flanged Joints: Class 300 minimum.
 - 2. Forged-Steel Welding Fittings: ASME B16.11, Class 3000, socket pattern.
 - 3. Steel, Grooved-End Fittings: FM Approved and NRTL listed, ASTM A47/A47M malleable iron or ASTM A536 ductile iron, with dimensions matching steel pipe and ends factory grooved in accordance with AWWA C606.
- C. Pipe-Flange Gasket Materials: Suitable for chemical and thermal conditions of piping system contents.

- 1. ASME B16.21, nonmetallic, flat, asbestos-free, 1/8-inch-maximum thickness unless thickness or specific material is indicated.
- D. Flange Bolts and Nuts: ASME B18.2.1, carbon steel.
- E. Welding Filler Metals: Comply with AWS D10.12M/D10.12 for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded.
- F. Steel, Keyed Couplings: UL 213, AWWA C606, approved or listed for clean-agent service, and matching steel-pipe dimensions. Include ASTM A536, ductile-iron housing, rubber gasket, and steel bolts and nuts.

2.4 VALVES

- A. General Valve Requirements:
 - 1. UL listed or FM Approved for use in fire-protection systems.
 - 2. Compatible with type of clean agent used.
- B. Container Valves: With rupture disc or solenoid and manual-release lever, capable of immediate and total agent discharge and suitable for intended flow capacity.
- C. Valves in Sections of Closed Piping and Manifolds: Fabricate to prevent entrapment of liquid, or install valve and separate pressure relief device.
- D. Valves in Manifolds: Check valve; installed to prevent loss of extinguishing agent when container is removed from manifold.

2.5 EXTINGUISHING-AGENT CONTAINERS

- A. Description: Steel tanks complying with ASME Boiler and Pressure Vessel Code: Section VIII, for unfired pressure vessels. Include minimum working-pressure rating that matches system charging pressure, valve, pressure switch, and pressure gage.
 - 1. Finish: Manufacturer's standard color, enamel or epoxy paint.
 - 2. Manifold:
 - a. Fabricate with valves, pressure switches, selector switch, and connections for main- and reserve-supply banks of multiple storage containers.
 - 3. Storage-Tank Brackets: Factory- or field-fabricated retaining brackets consisting of steel straps and channels; suitable for container support, maintenance, and tank refilling or replacement.

2.6 FIRE-EXTINGUISHING CLEAN AGENT

A. ECARO-25.

1. Source Limitations: Obtain clean agents from single source from single manufacturer.

2.7 DISCHARGE NOZZLES

- A. Description: Equipment manufacturer's standard one-piece brass or aluminum alloy of type, size, discharge pattern, and capacity required for application.
- B. Material: Corrosion-resistant metal.
- C. Stamped with orifice size and type.

2.8 FIRE CONTROL PANELS

- A. Description: FM Approved or NRTL listed, including equipment and features required for testing, supervising, and operating fire-extinguishing system.
- B. Power Requirements: 120/240 V ac; with electrical contacts for connection to system components and fire-alarm system, and transformer or rectifier as needed to produce power at voltage required for accessories and alarm devices.
- C. Enclosure: NEMA ICS 6, Type 1, enameled-steel cabinet.

- 1. Mounting: Recessed flush with surface.
- D. Supervised Circuits: Separate circuits for each independent hazard area.
 - 1. Detection circuits equal to required number of zones, or addressable devices assigned to required number of zones.
 - 2. Manual pull-station circuit.
 - 3. Alarm circuit.
 - 4. Release circuit.
 - 5. EPO circuit.
- E. Control-Panel Features:
 - 1. Electrical contacts for shutting down fans, activating dampers, and operating system electrical devices.
 - 2. Automatic switchover to standby power at loss of primary power.
 - 3. Storage container, low-pressure indicator.
 - 4. Service disconnect to interrupt system operation for maintenance with visual status indication on the annunciator panel.
- F. Annunciator Panel: Graphic type showing protected, hazard-area plans, as well as locations of detectors and abort, EPO, and manual stations. Include lamps to indicate device-initiating alarm, electrical contacts for connection to control panel, and stainless steel or aluminum enclosure.
- G. Standby Power: Sealed, valve-regulated, recombinant lead acid batteries with capacity to operate system for 24 hours and alarm for minimum of 15 minutes. Include automatic battery charger that has a varying charging rate between trickle and high depending on battery voltage, and that is capable of maintaining batteries fully charged. Include manual voltage control, dc voltmeter, dc ammeter, electrical contacts for connection to control panel, automatic transfer switch, and suitable enclosure.

2.9 DETECTION DEVICES

- A. Description: Comply with NFPA 2001, NFPA 72, and UL 268; 24 V dc, nominal.
- B. Ionization Detectors: Dual-chamber type, having sampling and referencing chambers, with smoke-sensing element.
- C. Photoelectric Detectors: LED light source and silicon photodiode receiving element.
- D. Signals to the Central Fire-Alarm Control Panel: Any type of local system trouble is reported to central fire-alarm control panel as a composite "trouble" signal. Alarms on each system zone are individually reported to central fire-alarm control panel as separately identified zones.

2.10 MANUAL STATIONS

- A. Description: Surface FM Approved or NRTL listed, with clear plastic hinged cover, 120-V ac or low-voltage compatible with controls. Include contacts for connection to control panel.
- B. Manual Release: "MANUAL RELEASE" caption, and red finish. Unit can manually discharge extinguishing agent with operating device that remains engaged until unlocked.
- C. EPO Switch: "EPO" caption, with yellow finish.

2.11 SWITCHES

- A. Description: FM Approved or NRTL listed, where available, 120-V ac or low-voltage compatible with controls. Include contacts for connection to control panel.
 - 1. Low-Agent Pressure Switches: Pneumatic operation.
 - 2. Power Transfer Switches: Key-operation selector, for transfer of release circuit signal from main supply to reserve supply.
 - 3. Door Closers: Magnetic retaining and release device or electrical interlock to cause door operator to drive the door closed.

2.12 ALARM DEVICES

- A. Description: FM Approved or NRTL listed, low voltage, and surface mounting. Comply with requirements in Section 284621.11 "Addressable Fire-Alarm Systems" or Section 284621.13 "Conventional Fire-Alarm Systems" for alarm and monitoring devices.
- B. Bells: Minimum 6-inch diameter.
- C. Horns: 90 to 94 dBA.
- D. Strobe Lights: Translucent lens, with "FIRE" or similar caption.
- E. Oxygen Deficiency Monitor.
 - 1. Sampling Method and Range: Diffusion, zero to 25 percent O₂.
 - 2. 24 V dc.
 - 3. Wall mounted with bracket.
 - 4. Built-in audible alarm 90 dBA.
 - 5. Backlit LCD.
 - 6. 10-year no-calibration sensor.
 - 7. No maintenance required.
 - 8. Signal Outputs: Standard 4- to 20-mA analog.
 - 9. Connections for system control data acquisition system and/or programmable logic controller.
 - 10. Plus or minus 1 percent accuracy of full scale.
 - 11. Operating temperature of minus 40 to plus 122 deg F.

PART 3 - EXECUTION

- 3.1 EXAMINATION
 - A. Examine areas and conditions, with Installer present, for compliance with enclosure integrity requirements, installation tolerances, and other conditions affecting performance of the Work in accordance with NFPA 2001.
 - B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 CLEAN-AGENT SYSTEM INSTALLATION

- A. Install clean-agent containers, piping, and other components level and plumb, in accordance with manufacturers' written instructions.
- B. Grooved Piping Joints: Groove pipe ends in accordance with AWWA C606 dimensions. Assemble grooved-end steel pipe and steel, grooved-end fittings with steel, keyed couplings and lubricant in accordance with manufacturer's written instructions.
- C. Install pipe and fittings, valves, and discharge nozzles in accordance with requirements listed in NFPA 2001, Section "Distribution."
 - 1. Install valves designed to prevent entrapment of liquid, or install pressure relief devices in valved sections of piping systems.
 - 2. Support piping using supports and methods in accordance with NFPA 13.
 - 3. Install control panels, detection system components, alarms, and accessories, in accordance with requirements listed in NFPA 2001, Section "Detection, Actuation, and Control Systems," as required for supervised system application.
- 3.3 PIPING CONNECTIONS
 - A. Drawings indicate general arrangement of piping, fittings, and specialties.
 - B. Where installing piping adjacent to equipment, allow space for service and maintenance.

3.4 ELECTRICAL CONNECTIONS

A. Connect wiring in accordance with Section 260519 "Low-Voltage Electrical Power Conductors and Cables."

- B. Ground equipment in accordance with Section 260526 "Grounding and Bonding for Electrical Systems."
- C. Install electrical devices furnished by manufacturer, but not factory mounted, in accordance with NFPA 70 and NECA 1.
- D. Install nameplate for each electrical connection, indicating electrical equipment designation and circuit number feeding connection.
- E. Connect electrical devices to control panel and to building's fire-alarm system. Electrical power, wiring, and devices are specified in Section 284621.11 "Addressable Fire-Alarm Systems" or Section 284621.13 "Conventional Fire-Alarm Systems."

3.5 CONTROL CONNECTIONS

- A. Install control and electrical power wiring to field-mounted control devices.
- B. Connect control wiring in accordance with Section 260523 "Control-Voltage Electrical Power Cables."

3.6 IDENTIFICATION

- A. Identify system components and equipment. Comply with requirements for identification specified in Section 210553 "Identification for Fire-Suppression Piping and Equipment."
- B. Identify piping, extinguishing-agent containers, other equipment, and panels in accordance with NFPA 2001.
- C. Install signs at entry doors for protected areas to warn occupants that they are entering a room protected with a cleanagent fire-extinguishing system.
- D. Install signs at entry doors to advise persons outside the room the meaning of horn(s), bell(s), and strobe light(s) outside the protected space.

3.7 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect components, assemblies, and equipment installations, including connections.
- B. Tests and Inspections:
 - 1. After installing clean-agent fire-extinguishing system and after electrical circuitry has been energized, test for compliance in accordance with requirements listed in NFPA 2001, Section "Approval of Installation."
 - 2. Clean-agent fire-extinguishing system and associated protected enclosure will be considered defective if either does not pass required tests and inspections.
 - 3. Prepare test and inspection reports in accordance with requirements listed in NFPA 2001, Section "Installation Acceptance."

3.8 CLEANING

A. Each pipe section shall be cleaned internally after preparation and before assembly by means of swabbing, using a suitable nonflammable cleaner. Pipe network shall be free of particulate matter and oil residue before installing nozzles or discharge devices.

3.9 OPERATIONAL CONDITION SYSTEM FILLING

A. Preparation:

- 1. Verify that clean-agent fire-extinguishing system and protected enclosure have passed all required tests and inspections in accordance with NFPA 2001.
- 2. Verify that clean-agent fire-extinguishing piping system installation is completed and cleaned.
- 3. Verify complete enclosure integrity.
- 4. Verify operation of ventilation and exhaust systems.

B. Filling Procedures:

1. Fill clean-agent fire-extinguishing containers with extinguishing agent, and pressurize to indicated charging pressure.

- 2. Install filled containers.
- 3. Energize circuits.
- 4. Adjust operating controls.

3.10 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain clean-agent fire-extinguishing systems.

END OF SECTION 212200

															15	1	6 17		
VARIABLE AIR VOLUME TI	ERMINAL SC	CHEDULE																	
	VAV1-01	VAV1-02	VAV1-03	VAV1-04			VAV1-07	VAV1-08	VAV1-09 VAV1-10	VAV1-11	VAV1-12	VAV2-01	VAV2-02 V/	/AV2-03 VAV2-	2-04		VAV2-06 VAV2-07	VAV2-08	VAV2-09
MANUFACTURER	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE PRICE	PRICE	PRICE	PRICE	PRICE F	PRICE PRIC	CE	PRICE	PRICE PRICE	PRICE	PRICE
MODEL NO.	SDV	SDV	SDV	SDV	SDV	SDV	SDV	SDV	SDV SDV	SDV	SDV	SDV	SDV	SDV SDV	v	SDV	SDV SDV	SDV	SDV
	7	4	8	7	5	9	6	5	8 8	7	6	8	4	10 7		8	8 9	7	10
MIN. AIRFLOW (CFM)	55U 275	100	625 250	425 85	300 90	425	325 65	210	020 725 125 220	550 220	325 100	300	200 40	220 450 135	5	_້ ນວບ 195	350 950 350	265	440
HEAT AIRFLOW (CFM)	275	175	525	400	300	650	150	210	550 450	450	275	350	175	825 350	0	550	350 600	375	625
님 COIL EAT (DEG. F)	55	55	55	55	55	55	55	55	55 55	55	55	55	55	55 55	5	55	55 55	55	55
UNIT LAT (DEG. F)	80	90	90	90	90	90	80	80	95 90	90	95	90	90	95 95	5	95	85 90	90	95
ບ່ HEATING KW	2.5	2.0	6.0	4.5	3.5	7.5	1.5	2.0	7.0 5.0	5.0	3.5	4.0	2.0	10.5 4.5	5	7.0	3.5 7.0	4.5	8.0
	SCR	SCR	SCR 277/1	SCR 277/1	SCR 277/1	SCR 480/3	SCR 277/1	SCR 277/1	SCR SCR 3277/1	SCR 277/1	SCR 277/1	SCR 277/1	SCR 277/1	SCR SCF	R	SCR 480/3	SCR SCR 277/1 //////////////////////////////////	SCR 277/1	SCR 480/3
PANEL & CIRCUIT	H1-8	H1-10	H1-12	H1-13	H1-14	H1-1,3,5	H1-15	H1-16	H1-2,4,6 H1-17	H1-18	H1-21	H2-14	H2-16 H	H2-1,3,5 H2-1	18	H2-2,4,6	H2-19 H2-7,9,11	H2-22	H2-8,10,12
	(2)#12,#12G,1/2"C	(2)#12,#12G,1/2"C	(2)#10,#10G,1/2"C	C (2)#10,#10G,1/2"C	(2)#12,#12G,1/2"C (4	4)#12,#12G,1/2"C (2)#12,#12G,1/2"C (2)#12,#12G,1/2"C (4)#	2,#12G,1/2"C (2)#10,#10G,	1/2"C (2)#10,#10G,1/2	2"C (2)#12,#12G,1/2"C	(2)#12,#12G,1/2"C (2)	#12,#12G,1/2"C (4)#12	2,#12G,1/2"C (2)#10,#100)G,1/2"C (4)#	#12,#12G,1/2"C (2	2)#12,#12G,1/2"C (4)#12,#12G,1/	2"C (2)#10,#10G,1/2"C	(4)#12,#12G,1/2"C
	20A/1P CB	20A/1P CB	30A/1P CB	25A/1P CB	20A/1P CB	20A/3P CB	20A/1P CB	20A/1P CB	0A/3P CB 25A/1P C	B 25A/1P CB	20A/1P CB	20A/1P CB	20A/1P CB 20/	DA/3P CB 25A/1P	P CB	20A/3P CB	20A/1P CB 20A/3P CB	25A/1P CB	20A/3P CB
										L INTEGRAL					RAL NGS		INTEGRAL INTEGRAL		
REFERENCE DRAWING/DETAIL	M101	M101	M101	M101	M101	M101	M101	M101	M101 M101	M101	M101	M101	M101	M101 M10 ⁻	01	M101	M101 M101	M101	M101
REMARKS																			
	G UNIT SCH	EDULE		IPUTER ROC		TIONING UN	IT SCHEDUI	_E				SPLIT SYST	EM A/C UNIT	SCHEDULE			DLING UNIT SCHED	JLE	_
DESIGNATION MANUFACTURER																	CTURER		AHU-2
MODEL NO.	TTA180	TTA180	DESIGN					CRAC-03					ER	ITAC-1	1		IO.	TWE180	TWE180
NOMINAL TONNAGE	15	15		IODEL		ACRD100	ACRD100	ACRD100	ACRD100	ACRD100	ACRD100	MODEL		TPKA0A0241	- 1KA70A	SYSTEM		SOUTH	NORTH
SYSTEM	AHU-1	AHU-1	⊨ S	ERVICE		DATA CENTER	DATA CENT	ER DATA CENT	R DATA CENTER	DATA CENTER	DATA CENTER			IT		CFM		5600	5300
ТОТАL COOLING @ 105°F AMBIENT (MBH MIN EER @ АНRI	1) 185.4 11.2	185.4	L L L			2290	2290	2290	2290	2290	2290			WALL MOU	JNTED			890	1100
COMPRESSORS QTY./ TYPE	2 / SCROLL	2 / SCROL		EFRIGERANT		325 R410A	325 R410A	325 R410A	325 R410A	325 R410A	325 R410A		NG CAP (MBH)	775				1100	1100
	2	2		ILTER		MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	TOTAL HEATIN	NG CAP (MBH)			BRAKE H	ORSEPOWER	4.1	4.1
	R410A	R410A	w	/EIGHT (LBS)		404	404	404	404	404	404	VOLTAGE/PHA	ASE	208/1			IORSEPOWER	5	5
WEIGHT (LBS) SIZE (H X W X I) (IN)	705 45-1/8"¥46"×95	705 7/16'' 45-1/8''x46''y95	-7/16"			208/1	208/1	208/1	208/1	208/1	208/1	PANEL AND C		NOTE 1	1		- PHASE	480/3 2 15x15 CENTR	480/3 2 15x15 CENTR
VOLTAGE/PHASE	480/3	480/3				40	40	40	40	40	40			(2)#12,#12G, NOTE 1	5,1/2"C	FACE AR	EA (SQ. FT.)(MIN.)	16.3	16.3
	31	31	DAT/	ANEL & CIRCUIT		MDP2-1,3	MDP2-2,4	MDP2-5,7	MDP2-6,8	MDP2-9,11	MDP2-10,12			NOTE 1	1	ENT. AIR	(DB/WB)	78.3/67.0	78.3/67.0
	40	40		/IRE & CONDUIT		(2)#8,#10G,3/4"	C (2)#8,#10G,3/	'4"C (2)#8,#10G,3/	"C (2)#8,#10G,3/4"C	(2)#8,#10G,3/4"C	(2)#8,#10G,3/4"C	CONTROLS		THERMOS	STAT		(DB/WB)	55/54	55/54
	(3)#8 #10G	4 H2-21,23,2				40A/2P CB	40A/2P CE	3 40A/2P CE	40A/2P CB	40A/2P CB	40A/2P CB	OUTDOOR UNIT					N. ROWS OOLING CAPACITY (MBH) (NOTE 1	4/14	4/14
	40A/3P CB	40A/3P CE				30A/2P/NF T-STAT	30A/2P/Nł T-STAT	- 30A/2P/NF T-STAT	T-STAT	30A/2P/NF T-STAT	30A/2P/NF T-STAT	DESIGNATION		ITCU-1	1	SENSIBL	E COOLING CAPACITY (MBH) (NOT	E 1) 141.6	141.6
DISCONNECT	60A/3P/NF	60A/3P/NF	REFERE	ENCE DRAWING/DETAIL	-	M101	M101	M101	M101	M101	M101		ER	TRANE		ᆗ ENT. AIR	(DB)	57	54.2
	RE: DWGS	RE: DWG	REMAR	KS		1	1	1	1	1	1		NG CAP (MBH)	24				60	60
REFERENCE DRAWING/DETAIL	M101	M101		OOR UNIT									NG CAP (MBH) @ 17°F				OF HEATING	10	10
NOTES:	1, 2, 0, 1,0	1, 2, 0, 1,	DESIGN				ACCU-02	ACCU-03				SEER		21.4		뿐 VOLTAGE	E/ PHASE	480/3	480/3
1: CAPACITY WHEN MATCHED WITH ASSOCATED	AIR HANDLING UNIT.		ATA M	IANUFACTURER		ACCED75214	ACCED752	R SCHNEIDE	ACCED75214	ACCED75214	ACCED75214					и Ш ТҮРЕ		MERV 13	MERV 13
2: FURNISH UNIT WITH HOT GAS BYPASS OPERA 3: FURNISH UNIT WITH UNPOWERED GECI CONVE	TION. ENIENCE RECEPTACL	.E.		MBIENT TEMPERATUR	E	95°	95°	95°	95°	95°	95°	VOLTAGE/PHA	ASE	208/1				15"x20"x2"	15"x20"x2"
4: FURNISH WITH VAV CAPABILITY. CONTROL IS	BY BMS CONTRACTO	DR,	5 w	/EIGHT (LBS)		180	180	180	180	180	180	PANEL AND C	IRCUIT	R5-17,1	19	⊐ ∢ PANEL &	CIRCUIT	H1-7,9,11	H2-13,15,17
SAFETIES ARE BY MANUFACTURER. 5: MANUFACTURER TO PROVIDE REFRIGERANT S	SPECIALTIES		V			208/1	208/1	208/1	208/1	208/1	208/1	WIRE AND CO	NDUIT	(2)#10, #10G.,	., 1/2"C.		CONDUIT	(3)#10,#10G,3/4"(C (3)#10,#10G,3/4"C
			M M	IOCP		15	15	15	15	15	15 15			19				25A/3P CB	25A/3P CB
FAN SCHEDULE				ANEL AND CIRCUIT		MDP2-13,15	MDP2-14,1	6 MDP2-17,1	MDP2-18,20	MDP2-21,23	MDP2-22,24	OVERCURREN	T DEVICE	25A/2P C	СВ			30A/3P/NF	30A/3P/NF
DESIGNATION	EF-1	EF-2		/IRE AND CONDUIT		(2)#12,#12G,1/2'	C (2)#12,#12G,1	/2"C (2)#12,#12G,1/	2"C (2)#12,#12G,1/2"C	(2)#12,#12G,1/2"C	(2)#12,#12G,1/2"C	DISCONNECT		30A/NF NEM	MA 3R	REFERENCE DRA		M101	M101
	CEILING	CEILING				15A/2P CB 30A/2P/NF	15A/2P CE 30A/2P/NE	3 15A/2P CE - 30A/2P/NE	15A/2P CB 30A/2P/NF	15A/2P CB 30A/2P/NF	15A/2P CB 30A/2P/NF	REMARKS		1,2,3,4	4	REMARKS		1,2	1,2
FAN TYPE		RESTROOM			-	M101	M101	M101	M101	M101	M101	1: INDOOR UNIT CIRCU	ITED THROUGH OUTDOO		R RATED	NOTES:	N PAIRED WITH ASSOCIATED OUT		REFER TO AIR
FAN TYPE SERVICE MANUEACTURER	RESTROOM	GREENHECK				1	1	1	1	1						1 CAPACITY WHEN			
FAN TYPE SERVICE MANUFACTURER MODEL	RESTROOM GREENHECK SP-A390-VG	GREENHECH SP-A390-VG	REMAR	KS							1	TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH	SCONNECT ADJACENT TO	IO INDOOR UNIT. DSTAT		1: CAPACITY WHEN COOLED CONDE	NSING UNIT SCHEDULE.		
FAN TYPE SERVICE MANUFACTURER MODEL CFM	RESTROOM GREENHECK SP-A390-VG 225	GREENHECH SP-A390-VG 225	REMAR	KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.					1	TOGGLE SWITCH DI 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH	SCONNECT ADJACENT TO DIGITAL WALL THERMON CONDENSATE PUMP AN	IO INDOOR UNIT. DSTAT IND DRAIN PAN LEVEL SEI	NSOR.	1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH M	NSING UNIT SCHEDULE.	IIZER CONTROL.	
FAN TYPE SERVICE MANUFACTURER MODEL CFM STATIC PRESSURE	RESTROOM GREENHECK SP-A390-VG 225 0.3	GREENHECH SP-A390-VG 225 0.3	NOTE 1	KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.				· · · · ·	1	TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH	SCONNECT ADJACENT TO DIGITAL WALL THERMO CONDENSATE PUMP AN LOW AMBIENT WIND BA	IO INDOOR UNIT. DSTAT ND DRAIN PAN LEVEL SEM AFFLES.	NSOR.	1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH N	NSING UNIT SCHEDULE.		
FAN TYPE SERVICE MANUFACTURER MODEL CFM STATIC PRESSURE FAN RPM BRAKE HORSEPOWER	RESTROOM GREENHECK SP-A390-VG 225 0.3 1076 0.04	GREENHECH SP-A390-VG 225 0.3 1076 0.04	NOTE 1	KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.						TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH	SCONNECT ADJACENT TO DIGITAL WALL THERMO CONDENSATE PUMP AN LOW AMBIENT WIND BA	IO INDOOR UNIT. DSTAT IND DRAIN PAN LEVEL SEM AFFLES.		1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH N		SCHEDULE -	ELECTRIC
FAN TYPE SERVICE MANUFACTURER MODEL CFM STATIC PRESSURE FAN RPM BRAKE HORSEPOWER MOTOR HORSEPOWER	RESTROOM GREENHECK SP-A390-VG 225 0.3 1076 0.04 1/15	GREENHECH SP-A390-VG 225 0.3 1076 0.04 1/15	NOTE 1	KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.			 IEDULE			TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH	SCONNECT ADJACENT TO DIGITAL WALL THERMON CONDENSATE PUMP AN LOW AMBIENT WIND BA	IO INDOOR UNIT. DSTAT IND DRAIN PAN LEVEL SEM AFFLES.		1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH N	UNIT HEATEF	IZER CONTROL.	ELECTRIC EUH-02 BASEBOARD
FAN TYPE SERVICE MANUFACTURER MODEL CFM STATIC PRESSURE FAN RPM BRAKE HORSEPOWER MOTOR HORSEPOWER VOLTAGE/PHASE	RESTROOM GREENHECK SP-A390-VG 225 0.3 1076 0.04 1/15 120/1	GREENHECH SP-A390-VG 225 0.3 1076 0.04 1/15 120/1	NOTE 1	KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.			 IEDULE		DUCT SHAPE	TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH CLASSIFICATION	SCONNECT ADJACENT TO DIGITAL WALL THERMOS CONDENSATE PUMP AN LOW AMBIENT WIND BA SMACNA REQUIREME SEAL CLASS	IO INDOOR UNIT. DSTAT ND DRAIN PAN LEVEL SEM AFFLES. ENTS LEAKAGE CLASS		1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH N	UNIT SCHEDULE.	IIZER CONTROL. SCHEDULE - EUH-01 BASEBOARD VESTIBULE	ELECTRIC EUH-02 BASEBOARD VESTIBULE
FAN TYPE SERVICE MANUFACTURER MODEL CFM STATIC PRESSURE FAN RPM BRAKE HORSEPOWER MOTOR HORSEPOWER VOLTAGE/PHASE DRIVE	RESTROOM GREENHECK SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN	GREENHECH SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN		KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.		CTWORK SC CE LY AIR DUCTS CONNECT	IEDULE	SINGLE ZONE VAV	DUCT SHAPE RECTANGULAR	TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH CLASSIFICATION 2" WG POSITIVE	SCONNECT ADJACENT TO DIGITAL WALL THERMON CONDENSATE PUMP AN LOW AMBIENT WIND BA SMACNA REQUIREME SEAL CLASS B	IO INDOOR UNIT. DSTAT ND DRAIN PAN LEVEL SEM AFFLES. ENTS LEAKAGE CLASS	OTHER	1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH M COOLED CONDE 2: PROVIDE M CONDE 2: PROVIDE M CONDE 2	UNIT SCHEDULE.	IZER CONTROL.	ELECTRIC EUH-02 BASEBOARD VESTIBULE FLOOR
FAN TYPE SERVICE MANUFACTURER MODEL CFM STATIC PRESSURE FAN RPM BRAKE HORSEPOWER MOTOR HORSEPOWER VOLTAGE/PHASE DRIVE PANEL & CIRCUIT WIRE & CONDUIT	RESTROOM GREENHECK SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12 #12G 1/2"C	GREENHECH SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12 #12G 1/2		KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.	3 DU SERVI SUPPI PACK	CTWORK SC CE LY AIR DUCTS CONNECT AGED ROOFTOP UNITS,	HEDULE	SINGLE ZONE VAV OFTOP UNITS AND	DUCT SHAPE RECTANGULAR ROUND	TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH CLASSIFICATION 2" WG POSITIVE 4" WG POSITIVE	SCONNECT ADJACENT TO DIGITAL WALL THERMOS CONDENSATE PUMP AN LOW AMBIENT WIND BA SMACNA REQUIREME SEAL CLASS B B B	IO INDOOR UNIT. DSTAT IND DRAIN PAN LEVEL SEM AFFLES. ENTS LEAKAGE CLASS 12 3	ENSOR.	1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH N COOLED CONDE 2: PROVIDE CONDE 2: PRO	UNIT SCHEDULE.	IIZER CONTROL.	ELECTRIC EUH-02 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C
FAN TYPE SERVICE MANUFACTURER MODEL CFM STATIC PRESSURE FAN RPM BRAKE HORSEPOWER MOTOR HORSEPOWER VOLTAGE/PHASE DRIVE PANEL & CIRCUIT WIRE & CONDUIT OVERCURRENT DEVICE	RESTROOM GREENHECK SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2"C 20A/1P CB	GREENHECH SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2 20A/1P CB	NOTE 1	KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.	3 DU SERVI SUPPI PACKA DOWN	CTWORK SC CE LY AIR DUCTS CONNECT AGED ROOFTOP UNITS, ISTREAM OF TERMINAL	TEDULE ED TO CONSTANT VOLUME, SINGLE ZONE PACKAGED RO	SINGLE ZONE VAV OFTOP UNITS AND	DUCT SHAPE RECTANGULAR ROUND (CONCEALED) ROUND	TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH CLASSIFICATION 2" WG POSITIVE 4" WG POSITIVE SPIRAL SEAM 4" WG POSITIVE	SCONNECT ADJACENT TO DIGITAL WALL THERMOS CONDENSATE PUMP AN LOW AMBIENT WIND BA SMACNA REQUIREME SEAL CLASS B B B	IO INDOOR UNIT. DSTAT ND DRAIN PAN LEVEL SEM AFFLES. ENTS LEAKAGE CLASS 12 3	ENSOR.	1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH M COOLED CONDE 2: PROVIDE CONDE 2: PRO	E	IIZER CONTROL. SCHEDULE - EUH-01 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C 	ELECTRIC EUH-02 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C
FAN TYPESERVICEMANUFACTURERMODELMODELFAN RPMBRAKE HORSEPOWERMOTOR HORSEPOWERVOLTAGE/PHASEDRIVEPANEL & CIRCUITWIRE & CONDUITOVERCURRENT DEVICEDISCONNECT	RESTROOM GREENHECK SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN VARIGREEN (2)#12,#12G,1/2"C 20A/1P CB 20A/120V	GREENHECH SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2 20A/1P CB 20A/120V	REMAR	KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.	3 DU SERVI SUPPI PACKA DOWN	CTWORK SC CE LY AIR DUCTS CONNECT AGED ROOFTOP UNITS, ISTREAM OF TERMINAL	TEDULE ED TO CONSTANT VOLUME, SINGLE ZONE PACKAGED RO	SINGLE ZONE VAV OFTOP UNITS AND	DUCT SHAPE RECTANGULAR ROUND (CONCEALED) ROUND (EXPOSED)	TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH CLASSIFICATION 2" WG POSITIVE 4" WG POSITIVE SPIRAL SEAM 4" WG POSITIVE SPIRAL SEAM	SCONNECT ADJACENT TO DIGITAL WALL THERMOO CONDENSATE PUMP AN LOW AMBIENT WIND BA SMACNA REQUIREME SEAL CLASS B B B B	IO INDOOR UNIT. DSTAT IND DRAIN PAN LEVEL SEM AFFLES. ENTS LEAKAGE CLASS 12 3 3	ENSOR.	1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH N COOLED CONDE 2: PROVIDE CONDE 2:	E	IIZER CONTROL. SCHEDULE - EUH-01 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C 76.9 IN	ELECTRIC EUH-02 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C BCSI 01750C
FAN TYPESERVICEMANUFACTURERMODELMODELSTATIC PRESSUREFAN RPMBRAKE HORSEPOWERMOTOR HORSEPOWERVOLTAGE/PHASEDRIVEPANEL & CIRCUITWIRE & CONDUITOVERCURRENT DEVICEDISCONNECTCONTROL	RESTROOM GREENHECK SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2"C 20A/1P CB 20A/120V NOTE 1	GREENHECH SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2 20A/1P CB 20A/120V NOTE 1		KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.	3 DU SERVI SUPPI PACKA DOWN	CTWORK SC CE LY AIR DUCTS CONNECT AGED ROOFTOP UNITS, ISTREAM OF TERMINAL	TEDULE ED TO CONSTANT VOLUME, SINGLE ZONE PACKAGED RO JNITS. O VAV AIR HANDLING UNITS	SINGLE ZONE VAV OFTOP UNITS AND	DUCT SHAPE RECTANGULAR ROUND (CONCEALED) ROUND (EXPOSED) RECTANGULAR	TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH 4: WG POSITIVE SPIRAL SEAM 4'' WG POSITIVE	SCONNECT ADJACENT TO DIGITAL WALL THERMOS CONDENSATE PUMP AN LOW AMBIENT WIND BA SMACNA REQUIREME SEAL CLASS B B B B B A	IO INDOOR UNIT. DSTAT ND DRAIN PAN LEVEL SEM AFFLES. ENTS LEAKAGE CLASS 12 3 3 6	ENSOR.	1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH N REQUIREMENTS BLB DENSITY LINER ED - SEE SCHEDUL ED - SEE SCHEDUL	E	IIZER CONTROL. SCHEDULE - EUH-01 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C 76.9 IN 1.75 208/1	ELECTRIC EUH-02 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C BCSI 01750C 76.9 IN 1.75 208/1
FAN TYPESERVICEMANUFACTURERMODELMODELCFMSTATIC PRESSUREFAN RPMBRAKE HORSEPOWERMOTOR HORSEPOWERVOLTAGE/PHASEDRIVEPANEL & CIRCUITWIRE & CONDUITOVERCURRENT DEVICEDISCONNECTCONTROLREFERENCE DRAWING/DETAIL	RESTROOM GREENHECK SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2"C 20A/1P CB 20A/120V NOTE 1 M101	GREENHECH SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2 20A/1P CB 20A/120V NOTE 1 M101	C	KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.	J J J J J J J J J J J J J J J J J J J	CTWORK SC CE LY AIR DUCTS CONNECT AGED ROOFTOP UNITS, ISTREAM OF TERMINAL	TEDULE	SINGLE ZONE VAV OFTOP UNITS AND	DUCT SHAPE RECTANGULAR ROUND (CONCEALED) ROUND (EXPOSED) RECTANGULAR ROUND	TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH 2" WG POSITIVE 4" WG POSITIVE SPIRAL SEAM 4" WG POSITIVE SPIRAL SEAM 4" WG POSITIVE SPIRAL SEAM	SCONNECT ADJACENT TO DIGITAL WALL THERMOS CONDENSATE PUMP AN LOW AMBIENT WIND BA SMACNA REQUIREME SEAL CLASS B B B B B B B B B B B B B	IO INDOOR UNIT. DSTAT ND DRAIN PAN LEVEL SEM AFFLES. ENTS LEAKAGE CLASS 12 3 3 6 3	ENSOR.	1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH N COOLED CONDE 2: PROVIDE WITH N COOLED CONDE 2: PROVIDE WITH N COOLED CONDE CON	LE LE LE LE LE LE LE LE LE LOCATION MOUNTING MANUFACTURER MODEL LE LE LE LE LE LE LE LE LE	IIZER CONTROL. EUH-01 EUH-01 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C 76.9 IN 1.75 208/1 R5-2,4	ELECTRIC EUH-02 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C BCSI 01750C 500 1.75 208/1 R5-6,8
FAN TYPE SERVICE MANUFACTURER MODEL FAN RPM STATIC PRESSURE FAN RPM BRAKE HORSEPOWER MOTOR HORSEPOWER VOLTAGE/PHASE DRIVE PANEL & CIRCUIT WIRE & CONDUIT OVERCURRENT DEVICE DISCONNECT CONTROL REFERENCE DRAWING/DETAIL NOTES:	RESTROOM GREENHECK SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2"C 20A/1P CB 20A/120V NOTE 1 M101	GREENHECH SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2 20A/1P CB 20A/120V NOTE 1 M101 		KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.	3 DU SERVI SUPPI PACKA DOWN SUPPI OF TE EXHAI	CTWORK SC CE LY AIR DUCTS CONNECT AGED ROOFTOP UNITS, ISTREAM OF TERMINAL LY DUCTS CONNECTED RMINAL UNITS	TO CONSTANT VOLUME, ED TO CONSTANT VOLUME, SINGLE ZONE PACKAGED RO JNITS. O VAV AIR HANDLING UNITS	SINGLE ZONE VAV OFTOP UNITS AND	DUCT SHAPE RECTANGULAR ROUND (CONCEALED) ROUND (EXPOSED) RECTANGULAR ROUND (EXPOSED) RECTANGULAR ROUND RECTANGULAR ROUND	TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH 2" WG POSITIVE 4" WG POSITIVE SPIRAL SEAM 4" WG POSITIVE SPIRAL SEAM 4" WG POSITIVE SPIRAL SEAM 2" WG POSITIVE	SCONNECT ADJACENT TO DIGITAL WALL THERMOO CONDENSATE PUMP AN LOW AMBIENT WIND BA SMACNA REQUIREME SEAL CLASS B B B B B B B B B B B B B B B B B B	IO INDOOR UNIT. DSTAT IND DRAIN PAN LEVEL SEN AFFLES. ENTS LEAKAGE CLASS 12 3 6 3 R 12 - RECTANGULAR	ENSOR.	1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH N COOLED CONDE 2: PROVIDE CONDE 2: PROVID	E E E E E E E E E E E E E E	IIZER CONTROL.	ELECTRIC EUH-02 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C C. (2)#12, #12G., 1/2" (
FAN TYPE SERVICE MANUFACTURER MODEL CFM STATIC PRESSURE FAN RPM BRAKE HORSEPOWER MOTOR HORSEPOWER VOLTAGE/PHASE DRIVE PANEL & CIRCUIT WIRE & CONDUIT OVERCURRENT DEVICE DISCONNECT CONTROL REFERENCE DRAWING/DETAIL NOTES: 1: EXHAUST FAN TO OPERATE DURING OCCUP	RESTROOM GREENHECK SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2"C 20A/1P CB 20A/1P CB 20A/120V NOTE 1 M101	GREENHECH SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2 20A/1P CB 20A/120V NOTE 1 M101		KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.	J J J J J J J J J J J J J J J J J J J	CTWORK SC CE LY AIR DUCTS CONNECT AGED ROOFTOP UNITS, ISTREAM OF TERMINAL LY DUCTS CONNECTED RMINAL UNITS	TEDULE	SINGLE ZONE VAV OFTOP UNITS AND	DUCT SHAPE RECTANGULAR ROUND (CONCEALED) ROUND (EXPOSED) RECTANGULAR ROUND (EXPOSED) RECTANGULAR ROUND (EXPOSED) RECTANGULAR ROUND OR ROUND	TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH 2" WG POSITIVE 4" WG POSITIVE SPIRAL SEAM 4" WG POSITIVE SPIRAL SEAM 4" WG POSITIVE SPIRAL SEAM 2" WG POSITIVE	SCONNECT ADJACENT TO DIGITAL WALL THERMOO CONDENSATE PUMP AN LOW AMBIENT WIND BA SMACNA REQUIREME SEAL CLASS B B B B B B B B B B B B B B B B B B	IO INDOOR UNIT. DSTAT ND DRAIN PAN LEVEL SEM AFFLES. ENTS LEAKAGE CLASS 12 3 6 3 R 12 - RECTANGULAR 3 - ROUND	INSULATE	1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH M COOLED CONDE 2: PROVIDE CONDE	E E E E E E E E E E E E E E	IIZER CONTROL. EUH-01 EUH-01 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C O T T T E E E E FLOOR INDEECO BCSI 01750C T E	ELECTRIC EUH-02 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C C. (2)#12, #12G., 1/2" (15A/2P CB
FAN TYPE SERVICE MANUFACTURER MODEL CFM STATIC PRESSURE FAN RPM BRAKE HORSEPOWER MOTOR HORSEPOWER VOLTAGE/PHASE DRIVE PANEL & CIRCUIT WIRE & CONDUIT OVERCURRENT DEVICE DISCONNECT CONTROL REFERENCE DRAWING/DETAIL NOTES: 1: EXHAUST FAN TO OPERATE DURING OCCUP UNIT. PROVIDE RELAYS ON FAN ELECTRICA BMS.	RESTROOM GREENHECK SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2"C 20A/1P CB 20A/120V NOTE 1 M101	GREENHECH SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2 20A/1P CB 20A/120V NOTE 1 M101 OCIATED AIR HANDL W FOR CONTROL BY		KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.	J J J J J J J J J J J J J J J J J J J	CTWORK SC CE LY AIR DUCTS CONNECT AGED ROOFTOP UNITS, ISTREAM OF TERMINAL LY DUCTS CONNECTED RMINAL UNITS JST DUCTS TO THE INLE	TO CONSTANT VOLUME, SINGLE ZONE PACKAGED RO JNITS.	SINGLE ZONE VAV OFTOP UNITS AND UPSTREAM	DUCT SHAPE RECTANGULAR ROUND (CONCEALED) ROUND (EXPOSED) RECTANGULAR ROUND (EXPOSED) RECTANGULAR ROUND RECTANGULAR ROUND RECTANGULAR OR ROUND RECTANGULAR OR ROUND RECTANGULAR	TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH 4: WG POSITIVE 4" WG POSITIVE SPIRAL SEAM 4" WG POSITIVE SPIRAL SEAM 4" WG POSITIVE SPIRAL SEAM 2" WG POSITIVE SPIRAL SEAM 2" WG POSITIVE	SCONNECT ADJACENT TO DIGITAL WALL THERMOS CONDENSATE PUMP AN LOW AMBIENT WIND BA SMACNA REQUIREME SEAL CLASS B B B B B B B B B B B B B B B B B B	IO INDOOR UNIT. DSTAT ND DRAIN PAN LEVEL SEN AFFLES. ENTS LEAKAGE CLASS 12 3 6 3 R 12 - RECTANGULAR 3 - ROUND 12	ENSOR. OTHER 1/2", 3L INSULATE INSULATE INSULATE R 1/2", 3L	1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH N REQUIREMENTS BLB DENSITY LINER ED - SEE SCHEDUL ED - SEE SCHEDUL ED - SEE SCHEDUL	E E E E E E E E E E E E E E E E E E E	IIZER CONTROL. EUH-01 EUH-01 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C 76.9 IN 1.75 208/1 R5-2,4 (2)#12, #12G., 1/2" (2) VICE INTEGRAL	ELECTRIC EUH-02 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C BCSI 01750C C. (2)#12, #12G., 1/2" (15A/2P CB INTEGRAL INTEGRAL
FAN TYPE SERVICE MANUFACTURER MODEL CFM STATIC PRESSURE FAN RPM BRAKE HORSEPOWER MOTOR HORSEPOWER VOLTAGE/PHASE DRIVE PANEL & CIRCUIT WIRE & CONDUIT OVERCURRENT DEVICE DISCONNECT CONTROL REFERENCE DRAWING/DETAIL NOTES: 1: EXHAUST FAN TO OPERATE DURING OCCUP UNIT. PROVIDE RELAYS ON FAN ELECTRICA BMS.	RESTROOM GREENHECK SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2"C 20A/1P CB 20A/120V NOTE 1 M101	GREENHECH SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2 20A/1P CB 20A/120V NOTE 1 M101 OCIATED AIR HANDL W FOR CONTROL BY		KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.	J J J J J J J J J J J J J J J J J J J	CTWORK SC CE AGED ROOFTOP UNITS, ISTREAM OF TERMINAL LY DUCTS CONNECTED RMINAL UNITS JST DUCTS TO THE INLE RN AIR DUCTWORK S: UCTWORK INSULATION	IEDULE ED TO CONSTANT VOLUME, ED TO CONSTANT, ED TO CONST	SINGLE ZONE VAV OFTOP UNITS AND UPSTREAM	DUCT SHAPE RECTANGULAR ROUND (CONCEALED) ROUND (EXPOSED) RECTANGULAR ROUND (EXPOSED) RECTANGULAR ROUND RECTANGULAR OR ROUND RECTANGULAR OR ROUND RECTANGULAR OR ROUND	TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH 2" WG POSITIVE 4" WG POSITIVE SPIRAL SEAM 4" WG POSITIVE SPIRAL SEAM 4" WG POSITIVE SPIRAL SEAM 2" WG POSITIVE SPIRAL SEAM 2" WG POSITIVE	SCONNECT ADJACENT TO DIGITAL WALL THERMOO CONDENSATE PUMP AN LOW AMBIENT WIND BA SMACNA REQUIREME SEAL CLASS B B B B B B B B B B B B B B B B B B	IO INDOOR UNIT. DSTAT IND DRAIN PAN LEVEL SEN AFFLES. ENTS LEAKAGE CLASS 12 3 6 3 R 12 - RECTANGULAR 3 - ROUND 12	ENSOR.	1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH N COOLED CONDE 3LB DENSITY LINER COOLED CONDE 2: PROVIDE WITH N COOLED CONDE 3LB DENSITY LINER COOLED CONDE 2: PROVIDE WITH N COOLED CONDE 3LB DENSITY LINER COOLED CONDE 2: PROVIDE CONDE 3LB DENSITY LINER COOLED CONDE 2: PROVIDE CONDE 2: PROVIDE CONDE 3LB DENSITY LINER COOLED CONDE 2: PROVIDE CONDE 3LB DENSITY LINER COOLED CONDE 2: PROVIDE CONDE 3LB DENSITY LINER COOLED CONDE 3LB DENSITY LINER	E E E E E E E E E E E E E E	IIZER CONTROL. SCHEDULE - EUH-01 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C O TOBESI 01750C O TOBESI 01750C DECSI 01750C O TOBESI 01750C D TOBESI 01750C O TOBESI 01750C D TOBESI 01750C	ELECTRIC EUH-02 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C BCSI 01750C COUPTION COUP
FAN TYPE SERVICE MANUFACTURER MODEL CFM STATIC PRESSURE FAN RPM BRAKE HORSEPOWER MOTOR HORSEPOWER VOLTAGE/PHASE DRIVE PANEL & CIRCUIT WIRE & CONDUIT OVERCURRENT DEVICE DISCONNECT CONTROL REFERENCE DRAWING/DETAIL NOTES: 1: EXHAUST FAN TO OPERATE DURING OCCUP UNIT. PROVIDE RELAYS ON FAN ELECTRICA BMS.	RESTROOM GREENHECK SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2"C 20A/1P CB 20A/120V NOTE 1 M101	GREENHECH SP-A390-VG 225 0.3 1076 0.04 1/15 120/1 VARIGREEN R5-7 (2)#12,#12G,1/2 20A/1P CB 20A/120V NOTE 1 M101 OCIATED AIR HANDL W FOR CONTROL BY		KS : UNIT PROVIDED BY C	OTHERS AND INSTALLED	BY CONTRACTOR.	JUU SERVI SUPPI PACKA DOWN SUPPI OF TE EXHAU RETUR NOTES 1: SEE D	CTWORK SC CE LY AIR DUCTS CONNECT AGED ROOFTOP UNITS, ISTREAM OF TERMINAL LY DUCTS CONNECTED RMINAL UNITS JST DUCTS TO THE INLE RN AIR DUCTWORK S: UCTWORK INSULATION	IEDULE ED TO CONSTANT VOLUME, SINGLE ZONE PACKAGED ROUNITS. O VAV AIR HANDLING UNITS OF THE FAN SCHEDULE FOR REQUIREME	SINGLE ZONE VAV OFTOP UNITS AND UPSTREAM	DUCT SHAPE RECTANGULAR ROUND (CONCEALED) ROUND (EXPOSED) RECTANGULAR ROUND (EXPOSED) RECTANGULAR ROUND RECTANGULAR OR ROUND RECTANGULAR OR ROUND RECTANGULAR OR ROUND RECTANGULAR	TOGGLE SWITCH DIS 2: PROVIDE UNIT WITH 3: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH 4: PROVIDE UNIT WITH 2" WG POSITIVE 4" WG POSITIVE SPIRAL SEAM 4" WG POSITIVE SPIRAL SEAM 4" WG POSITIVE SPIRAL SEAM 2" WG POSITIVE 2" WG POSITIVE	SCONNECT ADJACENT TO DIGITAL WALL THERMOO CONDENSATE PUMP AN LOW AMBIENT WIND BA SMACNA REQUIREME SEAL CLASS B B B B B B B B B B B B B B B B B B	IO INDOOR UNIT. DSTAT ND DRAIN PAN LEVEL SEM AFFLES. ENTS LEAKAGE CLASS 12 3 C 12 3 C 12 3 C 12 3 C 12 12 12 12 12 12 12 12 12 12	NSOR.	1: CAPACITY WHEN COOLED CONDE 2: PROVIDE WITH N REQUIREMENTS BLB DENSITY LINER ED - SEE SCHEDUL ED - SEE SCHEDUL ED - SEE SCHEDUL	E E E E E E E E E E E E E E	IIZER CONTROL.	ELECTRIC EUH-02 BASEBOARD VESTIBULE FLOOR INDEECO BCSI 01750C BCSI 01750C CONTRON ECSI 01750C BCSI 01750C CONTRON ECSI 01750C CONTRON ECSI 01750C ECSI 01750C
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PROJ AUTO LAST PLOT





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3	4	5	6	7	8	9	10	11	12







	13	14	15	16	17
					SHEET KEYNOTE LEGEND
	1"				
	<u>CRAC-3</u>				
	(TYP.6) (TYP.6) (TYP.6) (TYP.6) (TYP.6)				
	3 (TYP.6)				PLAN NOTES:
2	CRAC-5				 MOTORIZED CONTROL DAMPERS FOR AIR-SIDE ECONOMIZER CONTROL. TERMINATE CONDENSATE DRAIN OVER FLOOR DRAIN.
Office 131	2410 SD-1 225 CFM				 REFRIGERANT PIPING TO CRAC UNIT. INSTALL AND SI PER MANUFACTURERS INSTRUCTIONS. CONDENSATE DRAIN TUBING DOWN TO CRAC UNIT.
22"					5 ALTERNATE #2: DO NOT PROVIDE SUPPLY DIFFUSERS FLEXIBLE DUCTS, OR RETURN GRILLES. PROVIDE ALL SCOPE SHOWN.
22"					6 ALTERNATE #3: DO NOT PROVIDE SUPPLY DIFFUSERS FLEXIBLE DUCTS, OR RETURN GRILLES. PROVIDE ALL SCOPE SHOWN.
241					
	CFM				
	2410 SD-1 225 CFM				
a					
	2408 SD-1 200 CFM				
136	2410 SD-1				
	225 CFM				
→					
"X8" 0-2 5 CFM					
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					smith & bouc
_		1	PLA	N NORTH TRUE NORTH	25618 west 103rd St olathe, F phone 913.345.2127 fax 913.3 project number
	13	14	15	16	

Please consider the environment before printing this.











