



BIDDING & CONTRACT REQUIREMENTS

Document 00 20 00 - Addendum No. 1

DATE: November 24, 2025

Project Engineer: RTM Engineering Consultants
20 N.W. 3rd Street Suite 510
Evansville, Indiana 47708-1356
Telephone: 812-401-2260

TO: PROSPECTIVE BIDDERS

SUBJECT: ADDENDUM NO. 1 TO THE BIDDING DOCUMENTS FOR

SE878E Woodland Lodge - Woodland HVAC and Roof Replacement
Indiana University Southeast
IU 20251224

This addendum forms a part of the bidding and contract documents and modifies the original bidding documents, date November 07, 2025. Acknowledge receipt of this addendum in space provided on Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

CLARIFICATIONS:

1. Temperature Controls are furnished by Siemens and installed as part of this contract (Controls Installation Contractor required). Siemens temperature control bid drawings are attached.
2. Contractor shall protect existing flooring in Atrium area throughout project. Cover entire floor area w/ heavy canvas. Lift use shall require 3/4" plywood protection over floor.

SPECIFICATIONS:

1. Section 011000 – SUMMARY
 - a. Paragraph 1.8.B shall be modified as follows:

“B. On-Site Work Hours: Work hours are not limited when facility is unoccupied. Work hours are ~~9am – 5pm~~ 10am – 6pm when facility is occupied.”
2. Section 012200 – UNIT PRICES
 - a. Added entire Section (attached).
3. Section 230713 – DUCT INSULATION
 - a. Paragraphs 3.11 and 3.12 shall be modified as follows:

3.11 INDOOR DUCT AND PLENUM INSULATION SCHEDULE

- A. Unless otherwise noted, ceiling concealed supply air and exhaust air duct insulation shall be the following:
 1. Mineral-Fiber Blanket: ~~1-1/2 inches~~ 2 inches thick, ~~0.75-lb/cu. ft.~~ 1.0-lb/cu. ft. nominal density, installed R-value shall be R-6.
- B. Unless otherwise noted, in attic spaces all concealed supply air and exhaust air duct insulation shall be the following:



1. Mineral-Fiber Blanket: Two layers of 1-1/2 inches thick, 0.75-lb/cu. ft. nominal density, R-6. Total installed minimum R-value shall be R-8.

3.12 OUTDOOR DUCT AND PLENUM INSULATION SCHEDULE

- A. Exposed supply air and exhaust air duct insulation shall be the following:

1. Alumaguard of equal:
 - a. Provide 2" thick flexible elastomeric and aluminum lagging, total installed minimum R-value shall be R-8.
 - b. Provide minimum 6" lap on all seams.
 - c. Seams shall lap from top down (e.g. no outward seams exposed to rain).

DRAWINGS:

1. Sheet G001 – COVER SHEET:
 - a. Updated “VICINITY MAP” to show proposed crane locations and note as indicated on the attached.
 - b. Updated “PROJECT PHASING” as indicated on the attached.
2. Sheet A001 – GENERAL PROJECT INFORMATION:
 - a. Added “DUCT PENETRATION” detail as indicated on attached sketch, ADD1-ASK1.
 - b. Added “PIPE PENETRATION” detail as indicated on attached sketch, ADD1-ASK2.
3. Sheet MD101 – MECHANICAL DEMOLITION PLANS:
 - a. Added Keyed Note 26 as indicated on the attached.
 - b. Modified Keyed Notes in room Electrical Room 198M as indicated on the attached.
 - c. In room 103, Keyed Note 13 was deleted as indicated on the attached.
 - d. Modified Keyed Note 10 as indicated on the attached.
4. Sheet M101 – MECHANICAL PLANS:
 - a. Added Keyed Notes 22, 23, and 24 as indicated on the attached.
 - b. Replaced new exhaust grille and associated branch duct in Electrical Room 198M with new exhaust fan, EF-198M as indicated on the attached.
 - c. Connected new EF-198M to existing exhaust air duct as indicated on the attached.
 - d. Modified Keyed Notes in room Electrical Room 198M as indicated on the attached.
 - e. Modified Keyed Note 5 as indicated on the attached.
5. Sheet M401 – MECHANICAL SCHEDULES:
 - a. Updated “SPLIT SYSTEM SCHEDULE” as indicated on the attached.
 - b. Updated AHU-299A and AHU-299B as indicated on the attached.
 - c. Added “EXHAUST FAN SCHEDULE” as indicated on the attached.
 - d. Update “AHU SCHEDULE” Note 1 as indicated on the attached.
6. Sheet M601 – AIRFLOW DIAGRAM:
 - a. Updated “ERU-1 AIRFLOW DIAGRAM” as indicated on the attached.
7. Sheet ED301 – FIRST FLOOR ELECTRICAL DEMOLITION PLAN – POWER:
 - a. Replace sheet in its entirety with attached.



8. Sheet E301 – FIRST FLOOR ELECTRICAL PLAN – POWER:
 - a. Replace sheet in its entirety with attached.
9. Sheet E501 – PANEL SCHEDULES – ELECTRICAL:
 - a. Replace sheet in its entirety with attached.
10. Sheet E602 – MECHANICAL EQUIPMENT ELECTRICAL DATA SCHEDULE:
 - a. Replace sheet in its entirety with attached.

ATTACHMENTS:

Specification Sections:

Bid Form

012200 – UNIT PRICES

Sheets:

G001 – COVER SHEET

ADD1-ASK1 – DUCT PENETRATION

ADD1-ASK2 – PIPE PENETRATION

MD101 – MECHANICAL DEMOLITION PLANS

M101 – MECHANICAL PLANS

M401 – MECHANICAL SCHEDULES

M601 – AIRFLOW DIAGRAM

ED301 - FIRST FLOOR ELECTRICAL DEMOLITION PLAN – POWER

E301 - FIRST FLOOR ELECTRICAL PLAN – POWER

E501 – PANEL SCHEDULES – ELECTRICAL

E602 – MECHANICAL EQUIPMENT ELECTRICAL DATA SCHEDULE

Siemens Temperature Control Drawings

BID FORM
for

SE878E Woodland Lodge HVAC & Roof Replacement
Indiana University Southeast
New Albany, Indiana
IU 20251224
Revised for Addendum No.1

TO: The Trustees of Indiana University
Bloomington, Indiana

****Submit bid online via www.iuplanroom.com****

FROM:

Bidder's Name _____
Address _____
City, State, Zip Code _____
Phone Number _____ FAX Number _____

CONTACTS:

Bid / Contract Information: Name: _____
Phone: _____ E-mail: _____
Proposed Project Manager: Name: _____
Phone: _____ E-mail: _____

Indicate if your firm is a certified minority-, women-, or veteran-owned business ____ Yes ____ No
If "Yes", please attach a copy of certification

FOR: **Unified Bid** to include General, Mechanical, and Electrical Construction Work

Bidders:

LUMP SUM BASE BID

The undersigned Bidder, with a complete understanding of existing conditions at the Project Site and a complete understanding of the Bidding Documents, including any Addenda acknowledged hereinafter, for SE878E Woodland Lodge HVAC & Roof Replacement on the Indiana University Southeast campus, as prepared by RTM engineering consultants, hereby proposes to complete the project, in full and complete accordance with the requirements of the Bidding documents, for the LUMP SUM BASE BID PRICE of:

_____ Dollars \$ _____
(written amount) (numerals)

MAJOR SUBCONTRACTORS

Subcontractors and other persons and organizations proposed by the Bidder and accepted by the Owner and the Owner's Representative must be used on the work for which they were proposed and accepted and shall not be changed except with the written approval of the Owner and the Owner's Representative.

If requested, the supplemental Subcontractors and Products List will be submitted by email to the Owner, bidtab@iu.edu, and RTM engineering consultants, brad.simms@rtmec.com, within 48 hours of the bid opening. The understanding of the Owner and the design team is that these same Major Subcontractors will be the same subcontractors listed below.

The Contractor proposes to utilize the following primary subcontractors for the work indicated.

List one major subcontractor per trade. Any deviation could result in the Owner removing the bid from consideration.

Indicate which are certified by the State of Indiana as an MBE, WBE, or VBE company by circling the M/W/VBE after the name.

Div. 21 Fire Suppression Contractor: _____ M/W/VBE

Div. 22 Plumbing Subcontractor: _____ M/W/VBE

Div. 23 Mechanical Subcontractor: _____ M/W/VBE

Div. 23 Sheet Metal Subcontractor: _____ M/W/VBE

Div. 23 Test and Balance Subcontractor: _____ M/W/VBE

Div. 23 Controls Installation Contractor: _____ M/W/VBE

Div. 26 Electrical Subcontractor: _____ M/W/VBE

Div. 27 Communications Subcontractor: _____ M/W/VBE

ALTERNATE PROPOSALS

1. Alternate proposals are requested under Alternates of the Bidding Documents. (See Specification Index)
2. The alternate proposal shall indicate the amount to be added to or deducted from the Lump Sum Base Bid if the alternate proposal is accepted by the Owner.
3. The alternate proposal shall include all costs necessary for the complete installation of the materials or items indicated for the alternate proposal, including materials, labor, equipment, operations, administration, overhead, profit, and taxes (as applicable).
4. The alternate proposal shall also include all costs for changes in the work (including work of other Separate Contracts) that will be made necessary by acceptance of the alternate proposal.
5. The Bidder shall submit prices for all the alternates listed below in the manner indicated.

The undersigned Bidder has based his bid upon the materials, products, articles, equipment, brands, manufacturers and processes described in the Bidding Documents or upon approved equivalents. Proof of equivalency of substitutions is the responsibility of the Bidder, but the Architect/Engineer shall be the sole judge of equivalency. Proposed equivalent substitutions shall be equal in all respects to the requirements of the Bidding Documents, including but not limited to the design, quality, physical size, performance characteristics, strength, previous history of use, and to the method of installation, attachment, or connection to related or adjoining work. Determination of equivalency of proposed substitutions shall be by the Architect/Engineer, before the bid opening date, as described in paragraph entitled "Substitutions" in the Instructions to Bidders.

COMPLETION DATE

The Undersigned Bidder agrees to coordinate and expedite his work and shall take into consideration any lead time and schedule parameters with all contractors, and that this Work will be completed no later than July 31, 2026.

ASSIGNMENT OF COORDINATION

The undersigned Bidder agrees to the assignment of Mechanical and Electrical work to the successful General Contractor for the responsibility of complete coordination of the work as stated in the Instructions to Bidders.

PERFORMANCE AND PAYMENT BOND

The undersigned Bidder agrees, if awarded the Contract, to deliver to the Owner a satisfactory Performance Bond, in the full amount (100%) of the total Contract price, not later than the date of execution of the contract. The cost of the Bond shall be included in the Lump Sum Base Bid contained in this Proposal.

SUPPLEMENTAL AND REQUIRED DOCUMENTS

Bid Security; State Form 96 (Revised 2013); Written Drug Testing Program, which must be in full compliance with IC 4-13-18; a completed Minority, Women's and Veteran's Business Enterprise Participation Plan; Contractor Asbestos Certification; Asbestos Protocol for Contractors.

ADDENDA

The following Addenda have been received by the undersigned Bidder; and all costs resulting from these Addenda have been included in the preparation of this Bid Form:

Addendum No. _____	Dated _____
Addendum No. _____	Dated _____
Addendum No. _____	Dated _____

SIGNATURES

1. When a Bidder is an Individual:

Witness

Bidder

Date: _____

Address: _____

2. **When a Bidder is a Partnership:**

Name of Partnership

Date: _____

Address: _____

Partner

Partner

3. **When Bidder is a Corporation:**

Name of Corporation

Date: _____

Address: _____

By: _____
President

Attest: _____
Secretary

CORPORATE SEAL

END

****Submit bid online via www.iuplanroom.com****

1. GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for unit prices.

1.3 DEFINITIONS

- A. Unit price is a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, overhead, and profit.
- B. Measurement and Payment: See individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

2. PRODUCTS (Not Used)

3. EXECUTION

3.1 SCHEDULE OF UNIT PRICES

- A. Unit Price No. 1 – Patching and painting:

- 1. Description: Provide labor and material to patch and paint gyp ceilings to a Level 5 finish.
- 2. Unit of Measurement: Square foot.

B. Unit Price No. 2 – Ceiling Access Panel (20"x20"):

1. Description: Provide all labor and material to install a new ceiling access panel.
2. Unit of Measurement: Each.

C. Unit Price No. 3 – Supply air grille (12"x6" inlet):

1. Description: Provide supply air grille, Price model 32D, with a 12"x6" inlet to replace an existing grille.
2. Unit of Measurement: Each.

D. Unit Price No. 4 – Supply air grille (14"x8" inlet):

1. Description: Provide supply air grille, Price model 40S, with a 14"x8" inlet to replace an existing grille.
2. Unit of Measurement: Each.

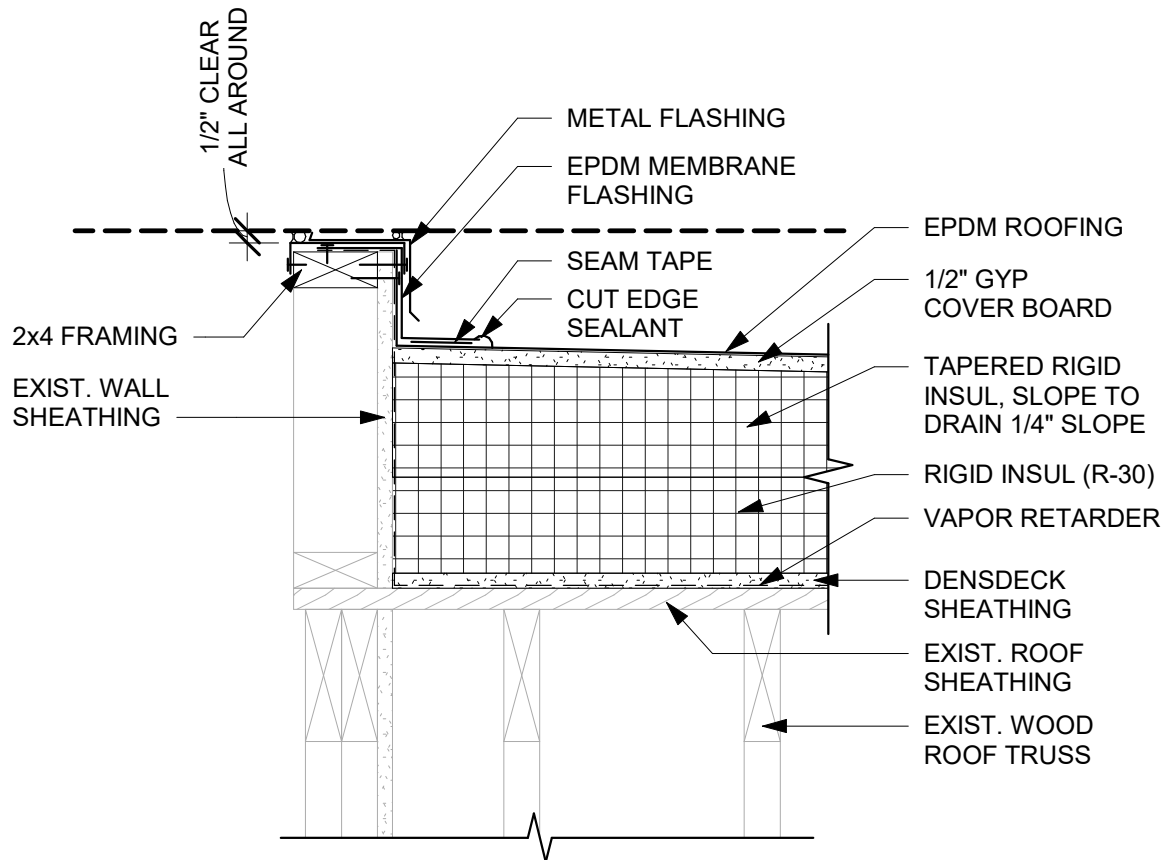
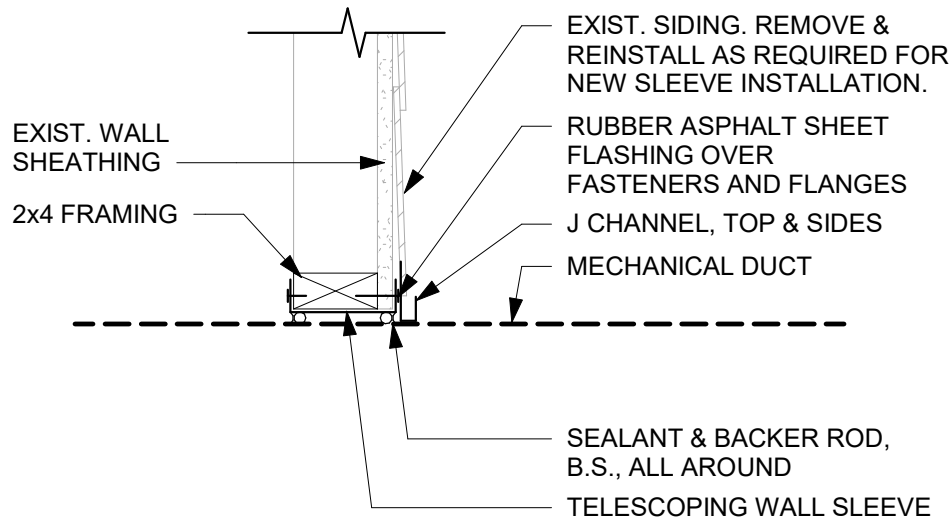
E. Unit Price No. 5 – Return air grille (14"x14" inlet):

1. Description: Provide return air grille, Price model 40R, with a 14"x14" inlet to replace an existing grille.
2. Unit of Measurement: Each.

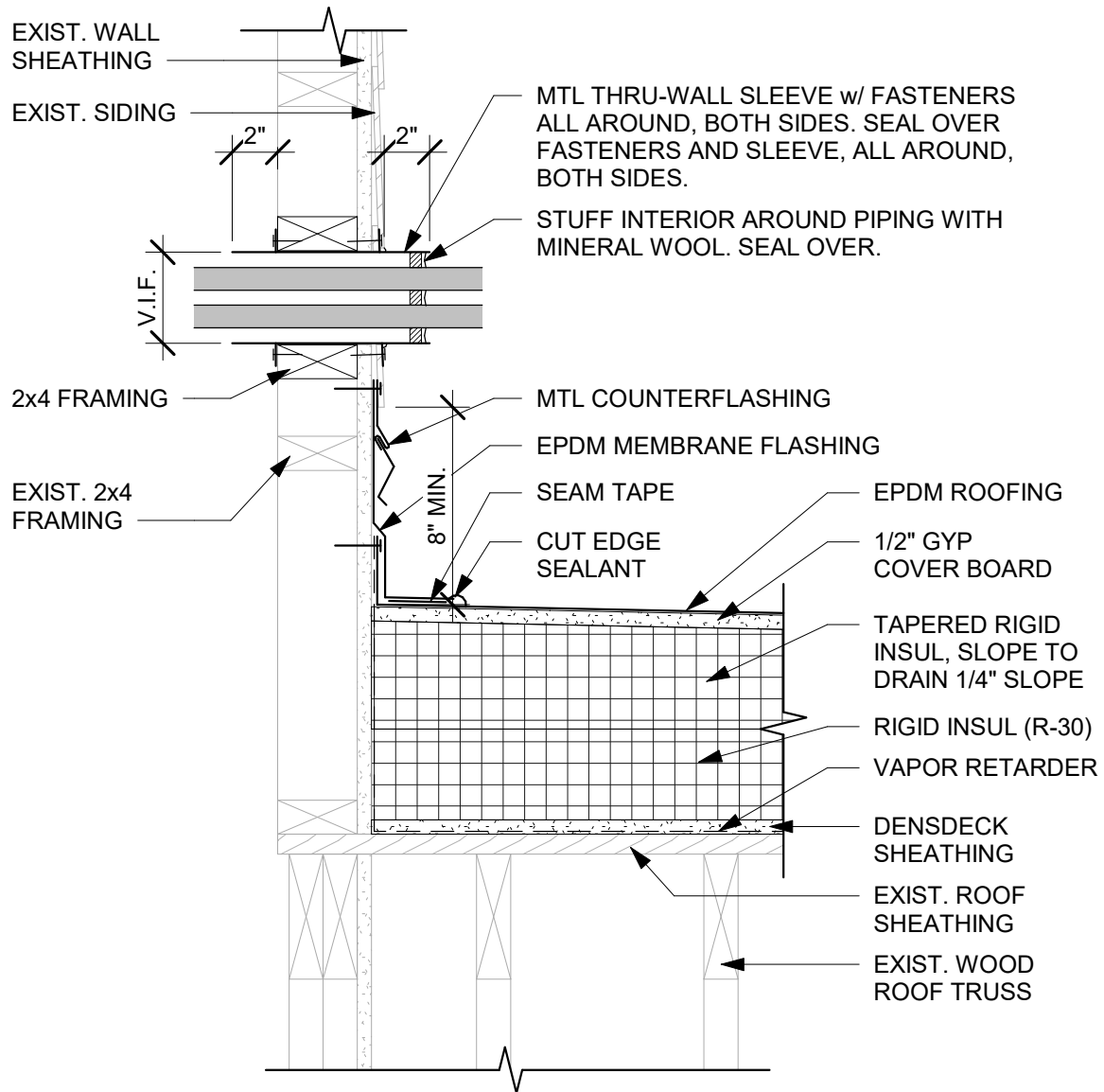
F. Unit Price No. 5 – Return/transfer air grille (24"x24" inlet):

1. Description: Provide return/transfer air grille, Price model PDDR, with a 24"x24" inlet to replace an existing grille.
2. Unit of Measurement: Each.

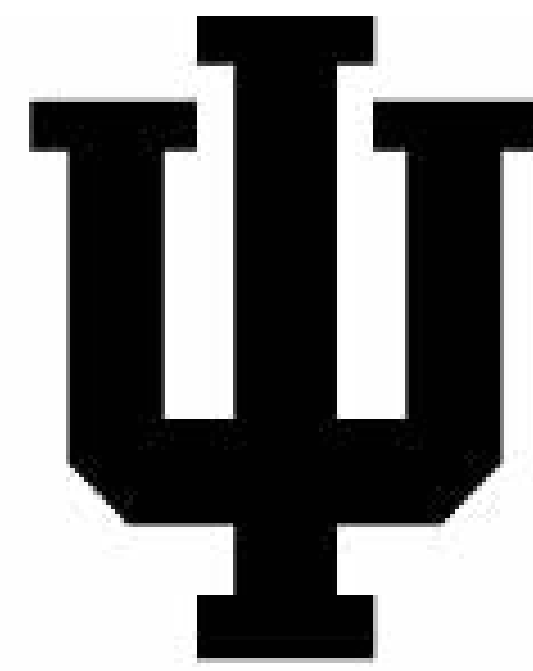
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VPS ARCHITECTURE	Issue Date: 11/21/25	Project Title: MEADOW & WOODLAND LODGE - HVAC AND ROOF REPLACEMENT - DUCT PENETRATION
Client Project No:	Referencing Drawing No:	Drawing No: ADD1-ASK1



VPS ARCHITECTURE	Issue Date: 11/21/25	Project Title: MEADOW & WOODLAND LODGE - HVAC AND ROOF REPLACEMENT - PIPE PENETRATION
Client Project No:	Referencing Drawing No:	Drawing No: ADD1-ASK2



INDIANA UNIVERSITY

INDIANA UNIVERSITY SOUTHEAST SE878E - WOODLAND LODGE - HVAC & ROOF REPLACEMENT

4201 Grant Line Rd, New Albany, IN 47150

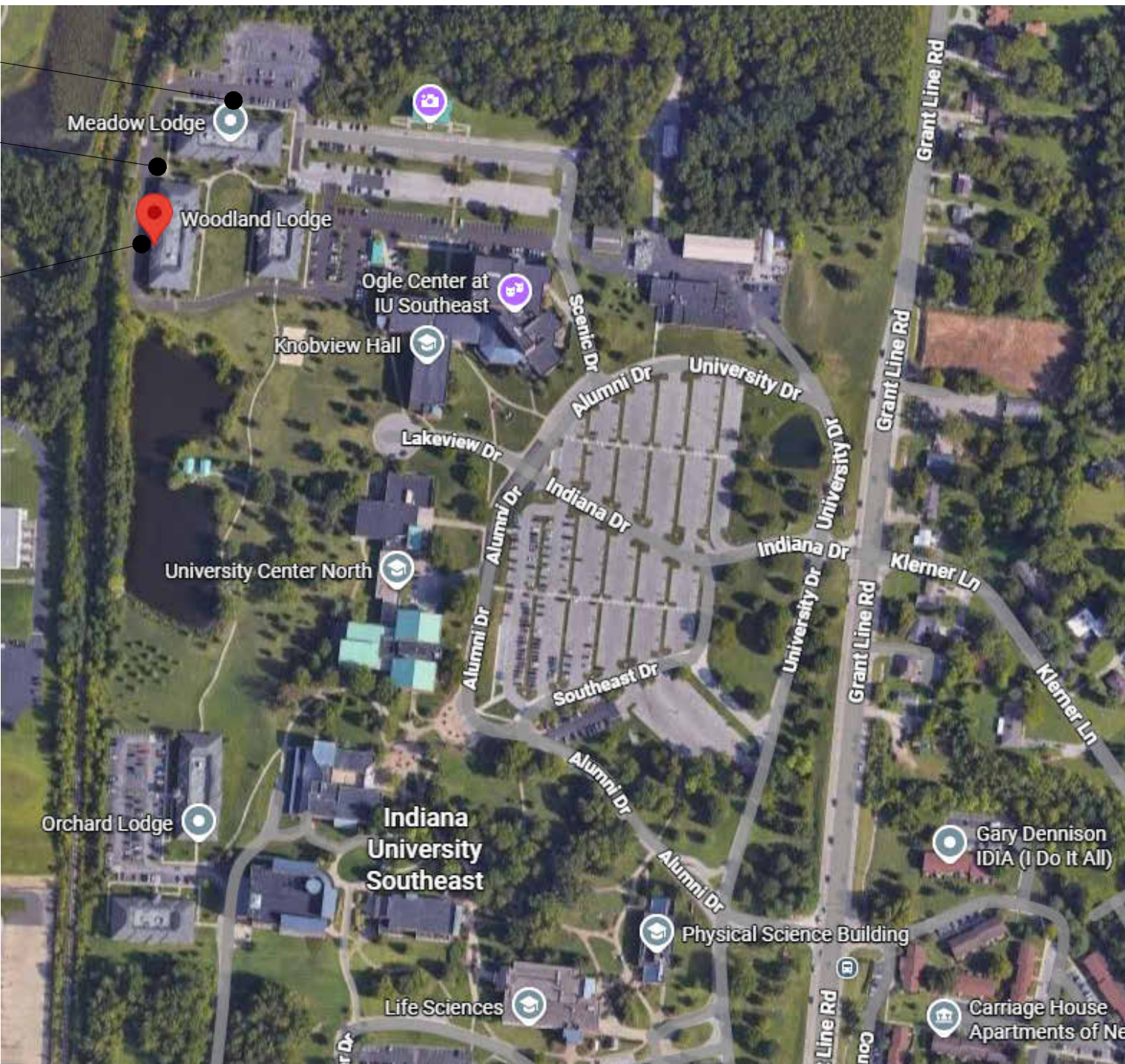
SHEET INDEX	
SHEET NUMBER	SHEET NAME
GENERAL	
G001	COVER SHEET
STRUCTURAL	
S001	GENERAL NOTES
S101	PARTIAL ROOF FRAMING PLAN & DETAILS
ARCHITECTURAL	
A001	GENERAL PROJECT INFORMATION
AD101	DEMOLITION ROOF PLAN
A101	ROOF PLAN AND DETAILS
MECHANICAL	
M001	MECHANICAL GENERAL NOTES AND LEGENDS
MD101	MECHANICAL DEMOLITION PLANS
MD102	ROOF MECHANICAL DEMOLITION PLAN
M101	MECHANICAL PLANS
M102	ROOF MECHANICAL PLAN
M201	MECHANICAL SECTIONS
M202	MECHANICAL SECTIONS
M203	MECHANICAL SECTIONS
M301	MECHANICAL DETAILS
M401	MECHANICAL SCHEDULES
M501	TEMPERATURE CONTROLS
M601	AIRFLOW DIAGRAM
ELECTRICAL	
E001	ELECTRICAL SYMBOLS AND ABBREVIATIONS
ED301	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - POWER
ED302	SECOND FLOOR ELECTRICAL DEMOLITION PLAN - POWER
ED303	ROOF ELECTRICAL DEMOLITION PLAN - POWER
E202	SECOND FLOOR ELECTRICAL PLAN - LIGHTING
E301	FIRST FLOOR ELECTRICAL PLAN - POWER
E302	SECOND FLOOR ELECTRICAL PLAN - POWER
E303	ROOF ELECTRICAL PLAN - POWER
E501	PANEL SCHEDULES - ELECTRICAL
E502	PANEL SCHEDULES - ELECTRICAL
E503	PANEL SCHEDULES - ELECTRICAL
E504	PANEL SCHEDULES - ELECTRICAL
E601	MECHANICAL EQUIPMENT ELECTRICAL DATA SCHEDULE
E602	MECHANICAL EQUIPMENT ELECTRICAL DATA SCHEDULE

DATE: 11/07/2025
CLIENT PROJECT NO. 20251224

BID DOCUMENTS



PROPOSED CRANE LOCATION (MEADOW LODGE)
PROPOSED CRANE LOCATION (BOTH LODGES)
PROPOSED CRANE LOCATION (WOODLAND LODGE)



NOTE: CRANE SHALL STAY ON ASPHALT. CONTRACTOR SHALL PROTECT ALL SURFACES FROM CRANE. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE RELATED TO THE LOADING/UNLOADING, MOVING, AND/OR OPERATION OF THE CRANE AND ITS OUTRIGGERS.

VICINITY MAP

PROJECT PHASING:

- CONSTRUCTION CAN BEGIN ON THE INTERIOR OF THE BUILDING ON MAY 18TH, 2026. THE PROJECT SHALL BE SUBSTANTIALLY COMPLETE BY JULY 31, 2026.

NO.	DATE	ISSUANCE DESCRIPTION
1	11-24-25	ADDENDUM NO. 1

20 NW 3RD STREET
EVANSVILLE, IN 47708
TEL 812.401.2280

engineering consultants

SIGNED: 11/07/2025

PROFESSIONAL SEAL

EXPIRATION DATE: 07/31/2026

DATE	DESIGNED	DRAWN	CHECKED	APPROVED
11-07-2025	JDE	JDE	SRP	

SE878E - WOODLAND LODGE - HVAC AND ROOF REPLACEMENT

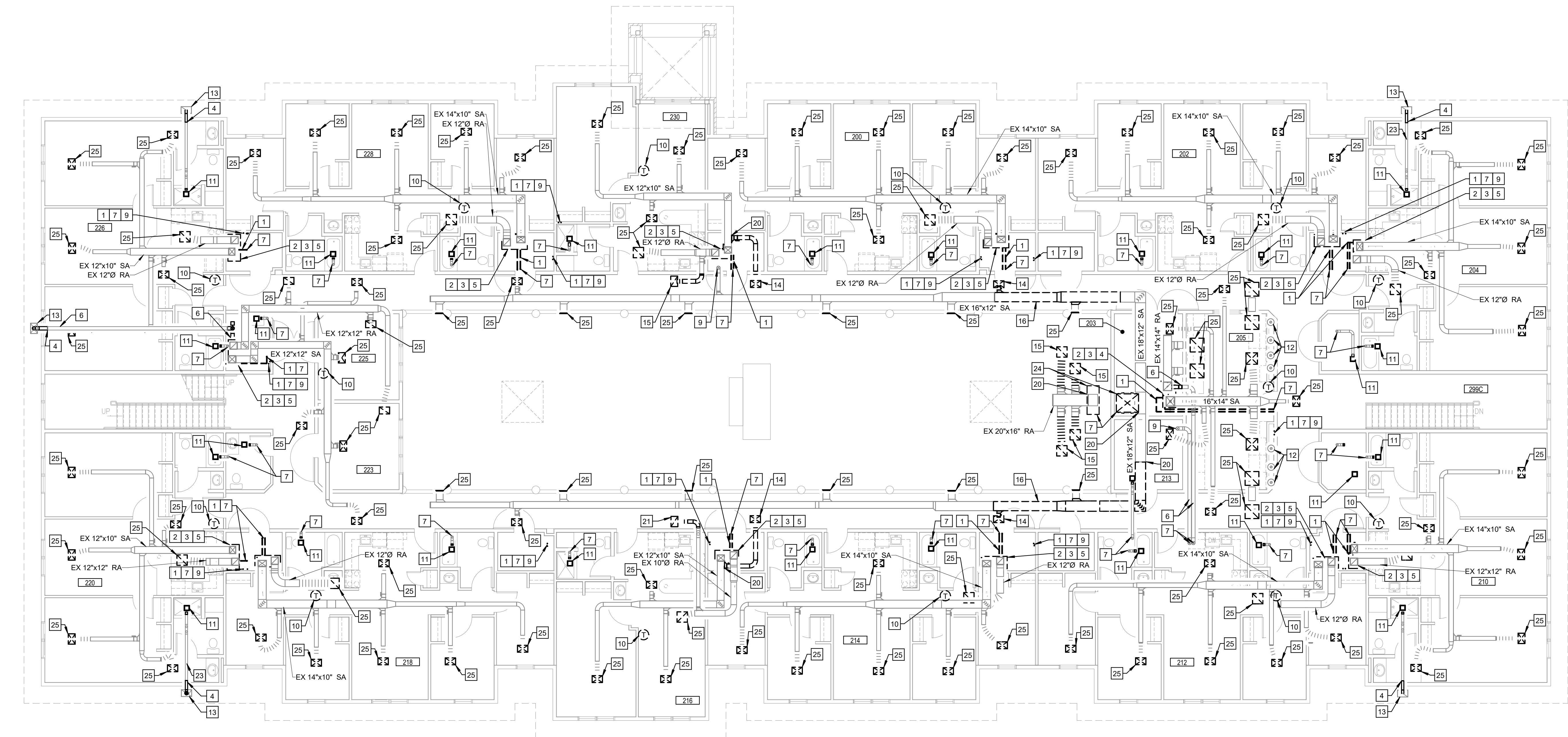
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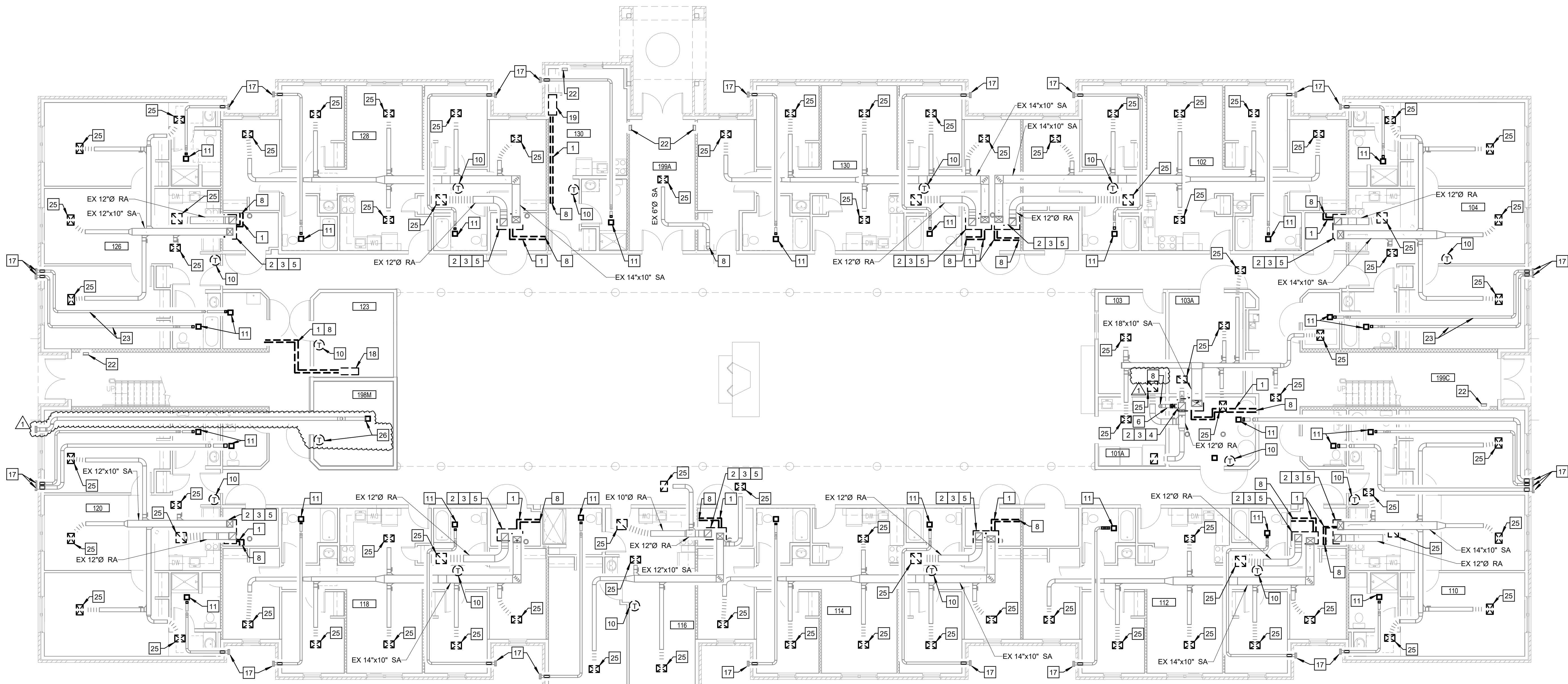
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 **2 SECOND FLOOR MECHANICAL DEMOLITION PLAN**
MD101 SCALE: 1/8" = 1'-0"



 **1 FIRST FLOOR MECHANICAL DEMOLITION PLAN**
MD101 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- REFERENCE M001 FOR ADDITIONAL PROJECT HVAC NOTES, HVAC DEMOLITION NOTES, AND SYMBOLS AND ABBREVIATIONS.
- CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT LOCATIONS, DUCT SIZES/LOCATIONS, AND PIPE SIZES/LOCATIONS PRIOR TO DEMOLITION.
- ALL DUCTWORK, PIPING, AND EQUIPMENT SHOWN LIGHT IS EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
- ALL DUCTWORK, PIPING, AND EQUIPMENT SHOWN WITH HEAVY DASHED LINE AND/OR CROSSHATCHED IS TO BE REMOVED UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL PROTECT ALL EXISTING CASEWORK AND EQUIPMENT FROM DIRT AND DAMAGE THROUGHOUT CONSTRUCTION.
- OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL DEMOLISHED EQUIPMENT.
- REWORK EXISTING ABANDONED FIRE PROTECTION PIPING AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.

KEYED NOTES - DEMOLITION:

- REMOVE EXISTING REFRIGERANT LINE SET COMPLETE.
- REMOVE EXISTING AIR HANDLING UNIT AND ASSOCIATED CONTROLS, SHEET METAL RETURN AIR PLENUM, CONDENSATE PIPING, AND EQUIPMENT SUPPORT LEGS COMPLETE.
- REMOVE EXISTING SUPPLY AIR DUCT AND VOLUME DAMPER AT AIR HANDLING UNIT DISCHARGE. AS REQUIRED FOR NEW INSTALLATION. SEE NEW WORK.
- INSULATE NEW SHEET METAL CAP ON SOFFIT VENT PER DUCT INSULATION SPECIFICATIONS. INSULATE AND SEAL DUCT PENETRATION TO MAINTAIN BUILDING ENVELOPE INSULATION AND VAPOR BARRIER.
- REMOVE EXISTING RETURN AIR DUCT AND EXISTING VOLUME DAMPER. EXISTING FIRE DAMPER ACCESS PANEL TO REMAIN. AS REQUIRED FOR NEW INSTALLATION. CAP OPEN ENDS OF ABANDONED DUCT.
- SEE "ROOF MECHANICAL DEMOLITION PLAN" FOR CONTINUATION.
- SEE "SECOND FLOOR MECHANICAL DEMOLITION PLAN" FOR CONTINUATION.
- SEE "FIRST FLOOR MECHANICAL DEMOLITION PLAN" FOR CONTINUATION.
- REMOVE EXISTING THERMOSTAT AND EXISTING THERMOSTAT WIRING.
- REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK AS INDICATED. CAP OPEN ENDS OF ABANDONED DUCT. TYPICAL.
- EXISTING DRYER EXHAUST FAN AND ASSOCIATED DUCTWORK TO REMAIN.
- EXISTING SOFFIT VENT TO REMAIN. REMOVE SECTION OF ASSOCIATED DUCTWORK AT EXISTING VENT. CAP OPEN ENDS OF ABANDONED DUCT. CAP EXISTING SOFFIT VENT.
- REMOVE EXISTING SUPPLY AIR DIFFUSER AND CAP ASSOCIATED BRANCH DUCT AT MAIN. PATCH OPENING IN CEILING TO MATCH ADJACENT CONSTRUCTION AND FINISHES.
- REMOVE EXISTING RETURN AIR GRILLE AND CAP ASSOCIATED BRANCH DUCT. PATCH OPENING IN CEILING TO MATCH ADJACENT CONSTRUCTION AND FINISHES.
- REMOVE EXISTING SUPPLY AIR DUCT AS INDICATED AND AS REQUIRED FOR NEW INSTALLATION. SEE NEW WORK.
- EXISTING EXHAUST VENT HOOD TO REMAIN. REMOVE SECTION OF ASSOCIATED DUCT AT EXISTING VENT HOOD. PROVIDE SHEET METAL CAP AT EXISTING DUCT AND AT VENT HOOD.
- REMOVE EXISTING CEILING SUSPENDED MINI-SPLIT COMPLETE.
- REMOVE EXISTING WALL MOUNTED MINI-SPLIT. ASSOCIATED 1" CONDENSATE DRAIN IN WALL TO REMAIN FOR REUSE. SEE NEW WORK.
- PROVIDE SHEET METAL CAP AT DEMOLISHED DUCT. INSULATE CAP PER SPECIFICATIONS.
- REMOVE EXISTING RETURN AIR GRILLE AND ASSOCIATED BRANCH DUCT AS INDICATED. PREP EXISTING DUCTWORK FOR NEW DUCT. SEE NEW WORK.
- EXISTING ELECTRIC WALL HEATER TO REMAIN.
- ABANDON EXISTING EXHAUST DUCT IN PLACE. CAP OPEN ENDS OF ABANDONED DUCT. TYPICAL.
- REMOVE EXISTING SUPPLY AND RETURN AIR DUCT UP TO EXISTING PACKAGED ROOFTOP UNIT AS INDICATED.
- BASE BID:
NO WORK.
- ALTERNATE BID #2:
REMOVE EXISTING GRILLE/DIFFUSER COMPLETE. EXISTING CEILING RADIATION DAMPER BOX AND/OR FIRE DAMPER TO REMAIN. PREP CEILING RADIATION DAMPER BOX AND/OR FIRE DAMPER FOR CONNECTION OF NEW GRILLE/DIFFUSER. SEE NEW WORK. TYPICAL.
- REMOVE EXISTING EXHAUST FAN AND ASSOCIATED LINE-VOLTAGE THERMOSTAT. PREP EXISTING DUCTWORK FOR NEW EXHAUST FAN. SEE NEW WORK.

ISSUANCE		DESCRIPTION
NO.	DATE	
1	11-24-25	ADDENDUM NO. 1

20 N.W. 3RD STREET
EVANSVILLE, IN 47708
TEL 812.401.2280



SIGNED: 11/07/2025



PROFESSIONAL SEAL

EXPIRATION DATE: 07/31/2026

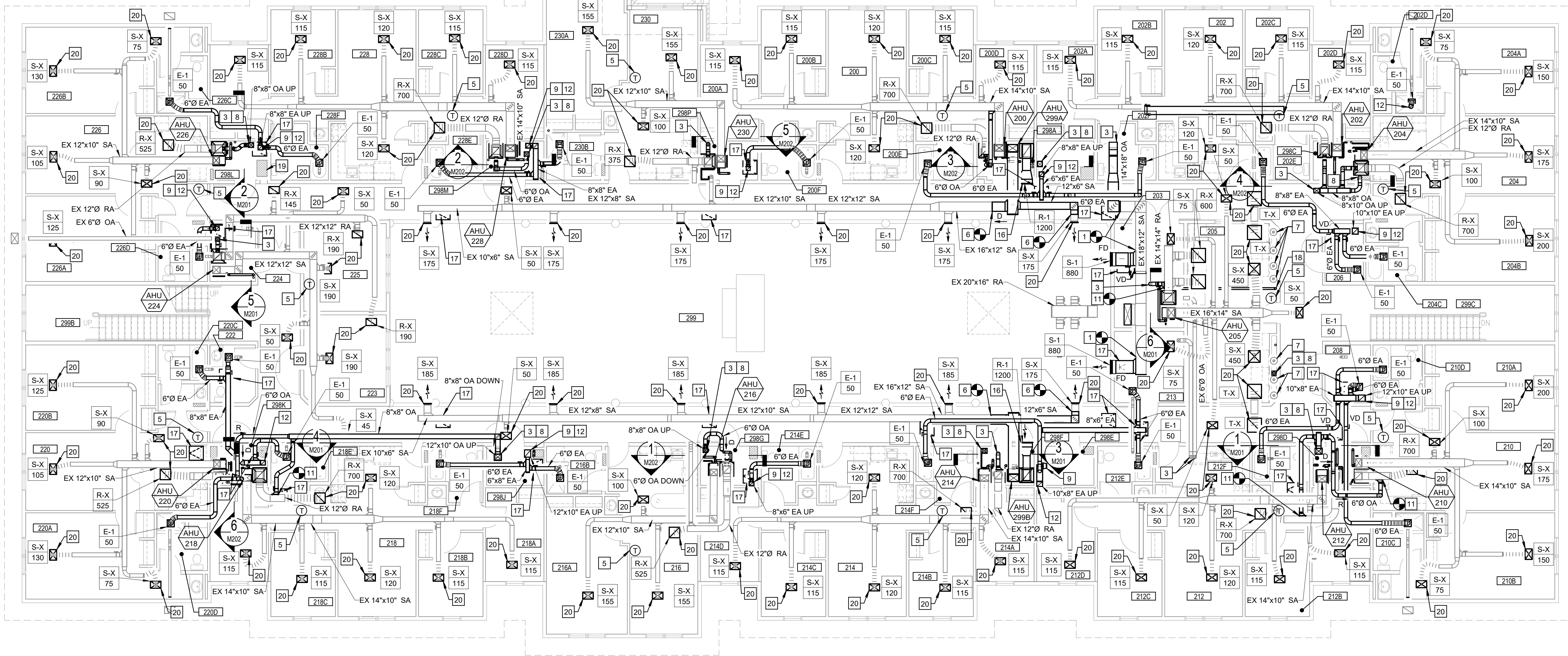
DATE	11-07-2025			
	DESIGNED	DRAWN	CHECKED	APPROVED
	JDE	KC	SRP	

SE878E - WOODLAND LODGE - HVAC AND ROOF REPLACEMENT
INDIANA UNIVERSITY SOUTHEAST
NEW ALBANY, IN
MECHANICAL DEMOLITION PLANS

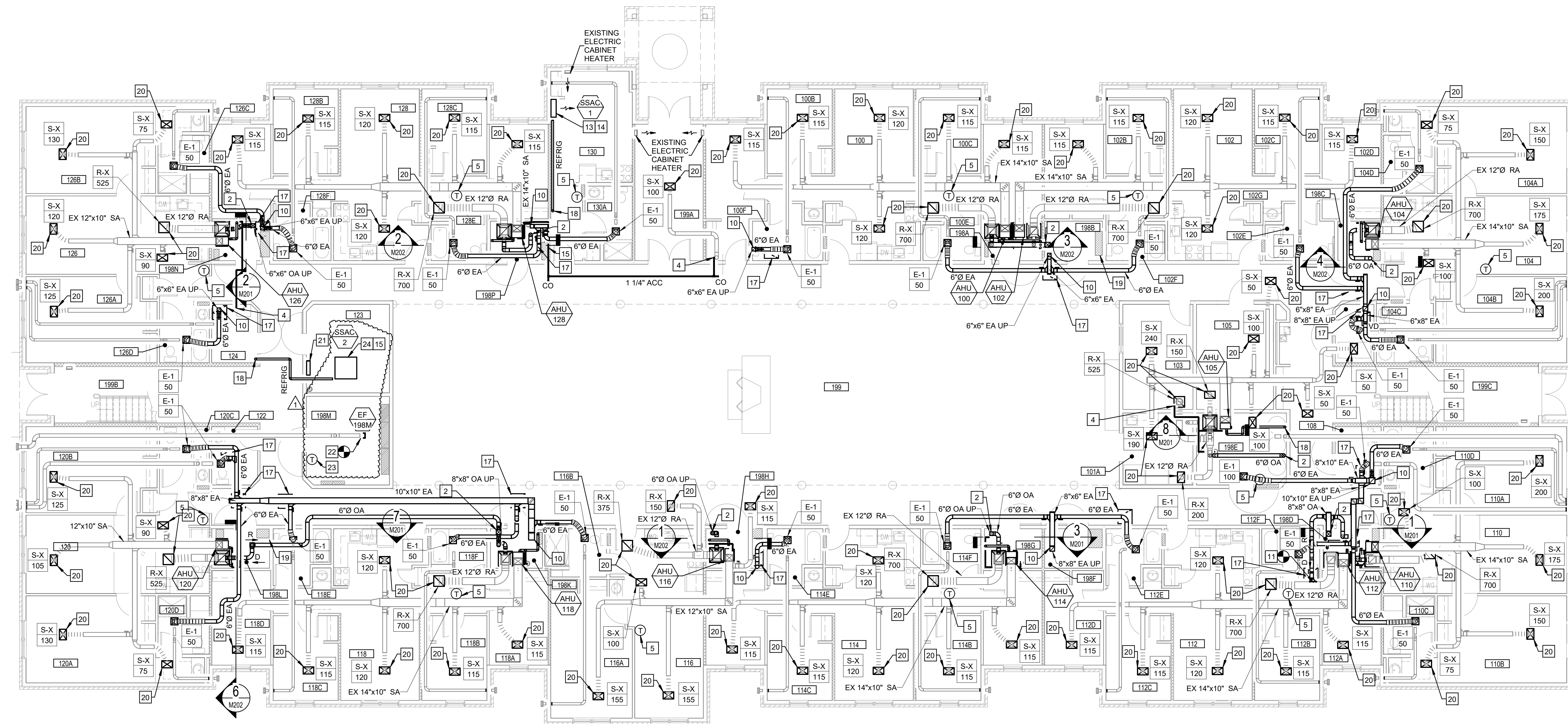
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MD101

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2 SECOND FLOOR MECHANICAL PLAN
M101 SCALE: 1/8" = 1'-0"



1 FIRST FLOOR MECHANICAL PLAN
M101 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- REFERENCE M001 FOR ADDITIONAL PROJECT HVAC NOTES, HVAC DEMOLITION NOTES, AND SYMBOLS AND ABBREVIATIONS.
- OFFSET AND TRANSITION PIPING AS REQUIRED FOR FINAL CONNECTION TO EQUIPMENT.
- COORDINATE FINAL ZONE SENSOR/THERMOSTAT LOCATIONS WITH ENGINEER.
- PROVIDE CONDENSATE TRAP AT ALL COOLING COILS PER ASSOCIATED EQUIPMENT'S MANUFACTURER'S INSTALLATION INSTRUCTIONS. TRAP SHALL NOT BLOCK ACCESS TO EQUIPMENT.
- PROVIDE CLEANOUT FITTING AT ALL 90 DEGREE BENDS IN 1-1/4" CONDENSATE PIPING ASSOCIATED WITH AIR HANDLING UNIT (AHU).
- ROUTE AIR CONDITIONING CONDENSATE TO EXISTING FLOOR DRAIN IN SAME ROOM AS COOLING COIL, UNLESS OTHERWISE INDICATED. INSTALL CONDENSATE PIPING PER EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- CONTRACTORS COORDINATE DUCT ROUTING AND PIPE ROUTING WITH EXISTING WOOD FRAMING.
- COORDINATE DUCT ROUTING WITH EXISTING FIRE PROTECTION PIPING. REWORK SPRINKLER PIPING AS REQUIRED.

KEYED NOTES:

- CONNECT NEW 18"x12" OUTSIDE AIR DUCT TO EXISTING 18"x12" OUTSIDE AIR DUCT.
- OUTSIDE AIR DUCT UP. SEE "SECOND FLOOR MECHANICAL PLAN" FOR CONTINUATION.
- OUTSIDE AIR DUCT UP. SEE "ROOF MECHANICAL PLAN" FOR CONTINUATION.
- 1 1/4" AIR CONDITIONING CONDENSATE UP. SEE "SECOND FLOOR MECHANICAL PLAN" FOR CONTINUATION.
- INSTALL NEW THERMOSTAT AT SAME LOCATION AS DEMOLISHED THERMOSTAT. FIELD ROUTE NEW THERMOSTAT SENSOR WIRE AND COMMUNICATION BUS WIRE FROM WALL MOUNTED SMART THERMOSTAT TO AHU IN MECHANICAL ROOM. SECOND FLOOR UNITS SHALL HAVE WIRE ROUTED UP IN WALL STUD SPACE TO ATTIC AND ACROSS TO MECHANICAL ROOM. FIRST FLOOR UNITS SHALL HAVE WIRE ROUTED UP IN WALL STUD SPACE AND THROUGH FLOOR JOISTS TO MECHANICAL ROOM. WIRING IN WALL, ATTIC, AND JOIST SPACE SHALL NOT BE REQUIRED TO BE IN CONDUIT. PATCH WALLS AND CEILING TO MATCH EXISTING ADJACENT CONSTRUCTION AND FINISHES.
- CONNECT NEW 16"x12" SUPPLY AIR DUCT UP TO EXISTING 16"x12" SUPPLY AIR DUCT COMPLETE.
- EXISTING DRYER VENT FAN AND ASSOCIATED DUCTWORK TO REMAIN.
- OUTSIDE AIR DUCT DOWN. SEE "FIRST FLOOR MECHANICAL PLAN" FOR CONTINUATION.
- EXHAUST AIR DUCT DOWN. SEE "FIRST FLOOR MECHANICAL PLAN" FOR CONTINUATION.
- EXHAUST AIR DUCT UP. SEE "SECOND FLOOR MECHANICAL PLAN" FOR CONTINUATION.
- CONNECT NEW 6" OUTSIDE AIR DUCT TO EXISTING RETURN AIR DUCT.
- EXHAUST AIR DUCT UP. SEE "ROOF MECHANICAL PLAN" FOR CONTINUATION.
- MOUNT SPLIT SYSTEM AIR CONDITIONER 7'-0" A.F.F. TO BOTTOM OF UNIT. INSTALL SPLIT SYSTEM AIR CONDITIONER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- ROUTE SPLIT SYSTEM AIR CONDITIONER CONDENSATE TO EXISTING FLOOR DRAIN THIS ROOM. INSTALL CONDENSATE TRAP PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- ROUTE SPLIT SYSTEM AIR CONDITIONER CONDENSATE TO EXISTING FLOOR DRAIN THIS ROOM. INSTALL CONDENSATE TRAP PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- MOUNT RETURN AIR DIFFUSER 6'-3" A.F.F. TO BOTTOM OF GRILLE.
- CEILING ACCESS PANEL.
- REFRIGERANT SET UP. TYPICAL.
- EXISTING DATA CABLE RISER PENETRATIONS. TYPICAL.
- BASE BID:
NO WORK
- ALTERNATE BID #2:
PROVIDE NEW GRILLE/DIFFUSER OF EQUIVALENT DUCT CONNECTION SIZE AND PANEL SIZE AS DEMOLISHED GRILLE/DIFFUSER. CONTRACTOR SHALL FIELD VERIFY EXISTING GRILLE/DIFFUSER QUANTITIES, NECK SIZES, AND PANEL SIZES. FOR BIDDING PURPOSES ASSUME GRILLES AND DIFFUSERS ARE PROVIDED WITH VOLUME DAMPERS AND ARE AS FOLLOWS:

SUPPLY DIFFUSERS IN CEILINGS - EXISTING RANGE IN SIZE FROM 12"x6" TO 14"x6". ASSUME A QUANTITY OF 12 PRICE MODEL 32D DIFFUSERS WITH 12"x6" NECK.

SUPPLY DIFFUSERS IN SIDEWALL - ASSUME A QUANTITY OF 12 PRICE MODEL 32D DIFFUSERS WITH 12"x6" NECK.

RETURN GRILLES (EXCEPT IN LAUNDRY ROOM) - EXISTING RANGE IN SIZE FROM 12"x6" TO 14"x14". ASSUME A QUANTITY OF 35 PRICE MODEL 40R GRILLES WITH 14"x14" NECK.

RETURN AND TRANSFER GRILLES (IN LAUNDRY ROOM) - ASSUME A QUANTITY OF 4 PRICE MODEL PDDR GRILLES WITH 24"x24" NECK.

PROVIDE NEW GRILLES/DIFFUSERS WITH ALUMINUM CONSTRUCTION, STANDARD WHITE FINISH, AND MULTI-BLADE VOLUME DAMPER (WHERE EXISTING DIFFUSERS INCLUDED VOLUME DAMPERS). TYPICAL ENTIRE BUILDING.
- TEMPERATURE CONTROL PANEL. COORDINATE FINAL LOCATION WITH OWNER AND ENGINEER. LOCAL AREA NETWORK CONNECTION BY UITS.
- CONNECT EXISTING EXHAUST AIR DUCTWORK TO NEW EXHAUST FAN. INSTALL EXHAUST FAN PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE NEW LINE VOLTAGE THERMOSTAT. CONTRACTOR TO CONNECT EXISTING WIRING TO NEW THERMOSTAT AND EXHAUST FAN AS REQUIRED FOR NEW INSTALLATION.
- MOUNT SPLIT SYSTEM AIR CONDITIONER, EXPOSED BELOW EXISTING GYP CEILING, AND TIGHT TO EXISTING GYP CEILING. INSTALL SPLIT SYSTEM AIR CONDITIONER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

ISSUANCE		DESCRIPTION
NO.	DATE	ADDENDUM NO. 1
1	11-24-25	

20 N.W. 3RD STREET
EVANSVILLE, IN 47708
TEL 812.401.2280

artm
engineering consultants

SIGNED: 11/07/2025

PROFESSIONAL SEAL

EXPIRATION DATE: 07/31/2026

DATE	DESIGNED	DRAWN	CHECKED	APPROVED
11-07-2025	JDE	KC	SRP	

SE878E - WOODLAND LODGE - HVAC AND ROOF REPLACEMENT

INDIANA UNIVERSITY SOUTHEAST
NEW ALBANY, IN

MECHANICAL PLANS

SHEET NO.

M101

ENERGY RECOVERY UNIT SCHEDULE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
SYMBOL	MANUFACTURER	MODEL	OUTDOOR AIR FLOW RATE	SUPPLY FAN DATA				EXHAUST FAN DATA				EXTERNAL STATIC PRESSURE	REFRIGERANT TYPE	DX COOLING DATA			NATURAL GAS HEATING DATA				ELECTRICAL DATA			WEIGHT	NOTES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
				AIRFLOW RATE	FAN RPM	DRIVE TYPE	MOTOR SIZE	OPERATING POWER	AIRFLOW RATE	FAN RPM	DRIVE TYPE			MOTOR SIZE	OPERATING POWER	CAPACITY	ENTERING AIR	LEAVING AIR	INLET PRESSURE	CAPACITY	AIR TEMPERATURES	MCA	MOCp			V/Ph/Hz																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

ENERGY RECOVERY SECTION SCHEDULE																												
SYMBOL	SUPPLY AIRFLOW RATE	AIRFLOW RATE	AIR PRESSURE DROP	OUTSIDE AIR DATA												EXHAUST AIR DATA						EFFECTIVENESS (SUMMER/ WINTER)						
				SUMMER						WINTER						SUMMER			WINTER									
				EAT		WB		LAT		EAT		WB		LAT		EAT		WB		LAT			EAT		WB		LAT	
				DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB		DB	WB	DB	WB		
ERU-1	4,400 CFM	4,400 CFM	0.94 in-wg	95.0°	78.0°	84.0°	70.9°	0.0°	-1.7°	36.6°	31.7°	2,850 CFM	0.73 in-wg	75.0°	62.5°	91.7°	74.8°	72.0°	56.0°	13.2°	13.1°	74.1/79.4						

MISC. EQUIPMENT SCHEDULE	
FH-1	SIDE ACCESS FILTER HOUSING EQUAL TO AMERICAN AIR FILTER "SUREFLO" FILTER HOUSING WITH HINGED AND GASKETED ACCESS DOOR; 16 GAUGE; WELDED STEEL CONSTRUCTION; DUCT FLANGES; HOUSING SHALL BE CONSTRUCTED TO HOLD ONE 24" x 24" x 2" THICK AIR FILTER.

EXHAUST FAN SCHEDULE										
SYMBOL	MANUFACTURER	MODEL	AIRFLOW RATE	TOTAL ESP	FAN MOTOR SIZE	MOTOR DRIVE	MOTOR ENCLOSURE	V/Phz	WEIGHT	NOTES
EF-18M	GREENHECK	SP-B110	97 CFM	0.28 in-wg	79 W	DIRECT	ODP	115/1/60	17 lb	1.2

NOTES:

1. PROVIDE CEILING MOUNTED EXHAUST FAN WITH: GALVANIZED STEEL CONSTRUCTION; WHITE PLASTIC GRILLE; BACKDRAFT DAMPER; ROUND DUCT CONNECTOR; CEILING RADIATION DAMPER; ISOLATION KIT; AND COMPOSITE FAN WHEEL.
2. FAN SHALL BE CONTROLLED BY NEW LINE VOLTAGE THERMOSTAT AND FOLLOW THE EXISTING SEQUENCE OF OPERATION.

GRILLE AND DIFFUSER SCHEDULE														
SYMBOL	MANUFACTURER	MODEL	TYPE	PANEL WIDTH	PANEL HEIGHT	SQUARE NECK HEIGHT	SQUARE NECK WIDTH	ROUND NECK SIZE	MAXIMUM AIRFLOW	THROW	AIR PRESSURE DROP	NC	MOUNTING	NOTES
SA														
S-1	PRICE	32	DIFFUSER	24"	14"	12"	22"		960 CFM	23-32-47	0.05 in-wg	16	SURFACE	1,2,3,4,6
RA														
R-1	PRICE	630	GRILLE	28"	20"	18"	26"		1,244 CFM		0.04 in-wg	16	SURFACE	1,2,3,7
EA														
E-1	PRICE	SCD-FR	3-CONE	12"	12"			6"	78 CFM		0.02 in-wg	<15	SURFACE	1,3,5,8
NOTES:														
1. N.C. VALUES ARE BASED ON ROOM ABSORPTION FOR 10db re 10 ⁻¹² WATTS.														
2. GRILLES AND DIFFUSERS SHALL BE ALUMINUM CONSTRUCTION WITH WHITE POWDER COAT FINISH UNLESS NOTED OTHERWISE.														
3. PRESSURE LOSS SHOWN IS TOTAL PRESSURE FOR SUPPLY GRILLES AND STATIC PRESSURE FOR RETURN AND EXHAUST GRILLES.														
4. THROW VALUES ARE SHOWN IN FEET FOR TERMINAL VELOCITIES OF 150 FPM, 100 FPM, AND 50 FPM RESPECTIVELY.														
5. FURNISH SURFACE MOUNT ADAPTER FRAMES FOR LAY-IN TYPE DIFFUSERS / GRILLES INSTALLED IN DRYWALL CEILINGS. SEE REFLECTED CEILING PLANS.														
6. 1/2" BLADE SPACING; 22.5° DEFLECTION; FRONT BLADES SHALL BE VERTICAL.														
7. 3/4" BLADE SPACING; 45° DEFLECTION.														
8. PRESSURE LOSS SHOWN DOES NOT INCLUDE EFFECTS OF ASSOCIATED CEILING RADIATION DAMPER.														

ROOF DRAIN SCHEDULE					
PLAN MARK	MANUFACTURER	MODEL NUMBER	GRATE MATERIAL	BODY MATERIAL	NOTES
RD-1	JAY R SMITH	1015-CID	CI	CI	-
OD-2	JAY R SMITH	1015-CID	CI	CI	PROVIDE WITH 2" WATER DAM
NOTES:				ABBREVIATIONS: NB NICKEL BRONZE CI CAST IRON PF POLYESTER FIBER REINFORCED POLYMER CONCRETE DI DUCTILE IRON - INDICATES NOT APPLICABLE	

SPLIT SYSTEM SCHEDULE											
SYMBOL	MANUFACTURER	MODEL (INDOOR /OUTDOOR)	TYPE	NOMINAL CAPACITY	HEATING CAPACITY	SEER	REFRIGERANT	ELECTRICAL DATA			NOTES
								V/Ph/Hz	MCA (SYSTEM)	MOCp (SYSTEM)	
SSAC-1/SSCU-1	DAIKIN	FTXC09AXVJU / RXC09AXVJU	HEAT PUMP	0.75 ton	9,400 Bluh	18	R-32	208-230/1/60	3.0 A	15 A	1,2,3
SSAC-2 / SSCU-2	DAIKIN	FCA36AAVJU / RZA36AAVJU	HEAT PUMP	3.00 ton	40,000 Bluh	20	R-32	208-230/1/60	SEE NOTES	SEE NOTES	2,3,4

NOTES:

1. PROVIDE DUCTLESS SPLIT SYSTEM WITH: WALL MOUNTING PLATE AND HARDWARE FOR INDOOR UNIT.
2. FINAL REFRIGERANT CHARGE BY CONTRACTOR.
3. PROVIDE WITH LOW AMBIENT KIT FOR OPERATION DOWN TO ZERO DEGREES F.
4. INDOOR UNIT POWERED SEPARATELY FROM OUTDOOR UNIT. INDOOR UNIT MCA = 1.6A, MOCp = 15A. OUTDOOR UNIT MCA = 34.6A, MOCp = 35A.

AHU SCHEDULE												
SYMBOL	MANUFACTURER	MODEL	SUPPLY FAN DATA			MOTOR POWER	DX COOLING COIL NET TOTAL CAPACITY	ELECTRICAL DATA			WEIGHT (LBS.)	NOTES
			AIRFLOW RATE	EXTERNAL STATIC PRESSURE	INTERNAL STATIC PRESSURE			V/PH/Hz	MCA	MOCp		
AHU-100	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-102	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-104	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-105	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-110	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-112	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-114	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-116	CARRIER	FJ5ANXA18L05	591 CFM	0.30 in-wg	0.33 hp	17.187 Btu/h	5.0 kW	208/1/60	28.3 A	30 A	124 lbs.	1,2,3
AHU-118	CARRIER	FJ5ANXA18L05	591 CFM	0.30 in-wg	0.33 hp	17.187 Btu/h	5.0 kW	208/1/60	28.3 A	30 A	124 lbs.	1,2,3
AHU-120	CARRIER	FJ5ANXA18L05	591 CFM	0.30 in-wg	0.33 hp	17.187 Btu/h	5.0 kW	208/1/60	28.3 A	30 A	124 lbs.	1,2,3
AHU-126	CARRIER	FJ5ANXA18L05	591 CFM	0.30 in-wg	0.33 hp	17.187 Btu/h	5.0 kW	208/1/60	28.3 A	30 A	124 lbs.	1,2,3
AHU-128	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-200	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-202	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-204	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-205	CARRIER	FJ5ANB36L00	1,200 CFM	0.30 in-wg	0.50 hp	34,930 Btu/h	8.0 kW	208/1/60	40.6 A	45 A	152 lbs.	1,2,3
AHU-210	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-212	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-214	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-216	CARRIER	FJ5ANXA18L05	591 CFM	0.30 in-wg	0.33 hp	17.187 Btu/h	5.0 kW	208/1/60	28.3 A	30 A	124 lbs.	1,2,3
AHU-218	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-220	CARRIER	FJ5ANXA18L05	591 CFM	0.30 in-wg	0.33 hp	17.187 Btu/h	5.0 kW	208/1/60	28.3 A	30 A	124 lbs.	1,2,3
AHU-224	CARRIER	FJ5ANXA18L05	591 CFM	0.30 in-wg	0.33 hp	17.187 Btu/h	5.0 kW	208/1/60	28.3 A	30 A	124 lbs.	1,2,3
AHU-226	CARRIER	FJ5ANXA18L05	591 CFM	0.30 in-wg	0.33 hp	17.187 Btu/h	5.0 kW	208/1/60	28.3 A	30 A	124 lbs.	1,2,3
AHU-228	CARRIER	FJ5ANB24L05	792 CFM	0.30 in-wg	0.33 hp	22.908 Btu/h	5.0 kW	208/1/60	29.9 A	30 A	135 lbs.	1,2,3
AHU-230	CARRIER	FJ5ANXA18L05	591 CFM	0.30 in-wg	0.33 hp	17.187 Btu/h	5.0 kW	208/1/60	28.3 A	30 A	124 lbs.	1,2,3
AHU-298A	CARRIER	FJ5ANB36L00	1,200 CFM	0.30 in-wg	0.50 hp	34,930 Btu/h	8.0 kW	208/1/60	40.6 A	45 A	152 lbs.	1,2,3
AHU-299B	CARRIER	FJ5ANB36L00	1,200 CFM	0.30 in-wg	0.50 hp	34,930 Btu/h	8.0 kW	208/1/60	40.6 A	45 A	152 lbs.	1,2,3
NOTES:												
1. PROVIDE AIR HANDLING UNIT (FAN COIL UNIT) WITH UPFLOW CONFIGURATION; VARIABLE SPEED SUPPLY FAN; FIELD INSTALLED ELECTRIC HEATER; DISCONNECT SWITCH; AND FULLY FOIL FACED INSULATED CABINET. SEE TEMPERATURE CONTROLS FOR FURTHER REQUIREMENTS.												
2. PROVIDE FACTORY WARRANTY AS FOLLOWS: FIVE YEAR WARRANTY FOR THE COMPLETE UNIT FROM THE DATE OF START-UP.												
3. CARRIER IS BASIS OF DESIGN. TRANE, YORK, AND BRYANT ARE APPROVED MANUFACTURERS.												

CONDENSING UNIT SCHEDULE												
SYMBOL	MANUFACTURER	MODEL	TYPE	NOMINAL CAPACITY	NET TOTAL CAPACITY	ARI SEER	REFRIGERANT	ELECTRICAL DATA			WEIGHT	NOTES
								VPHPHZ	MCA	MOCBP		
CU-100	CARRIER	27SC5A24A003	HEAT PUMP	2.0 ton	22.908 tlb	15.2	R-454B	208/160	13.5 A	20 A	176 lb	12.34
CU-102	CARRIER	27SC5A24A003	HEAT PUMP	2.0 ton	22.908 tlb	15.2	R-454B	208/160	13.5 A	20 A	176 lb	12.34
CU-104	CARRIER	27SC5A24A003	HEAT PUMP	2.0 ton	22.908 tlb	15.2	R-454B	208/160	13.5 A	20 A	176 lb	12.34
CU-105	CARRIER	27SC5A24A003	HEAT PUMP	2.0 ton	23.400 tlb	15	R-454B	208/160	13.5 A	20 A	178 lb	12.34
CU-110	CARRIER	27SC5A24A003	HEAT PUMP	2.0 ton	22.908 tlb	15.2	R-454B	208/160	13.5 A	20 A	176 lb	12.34
CU-112	CARRIER	27SC5A24A003	HEAT PUMP	2.0 ton	22.908 tlb	15.2	R-454B	208/160	13.5 A	20 A	176 lb	12.34
CU-114	CARRIER	27SC5A24A003	HEAT PUMP	2.0 ton	22.908 tlb	15.2	R-454B	208/160	13.5 A	20 A	176 lb	12.34
CU-116	CARRIER	27SC5A18A003	HEAT PUMP	1.5 ton	17.187 tlb	14.5	R-454B	208/160	10.9 A	15 A	149 lb	12.34
CU-118	CARRIER	27SC5A18A003	HEAT PUMP	1.5 ton	17.187 tlb	14.5	R-454B	208/160	10.9 A	15 A	149 lb	12.34
CU-120	CARRIER	27SC5A18A003	HEAT PUMP	1.5 ton	17.187 tlb	14.5	R-454B	208/160	10.9 A	15 A	149 lb	12.34
CU-122	CARRIER	27SC5A18A003	HEAT PUMP	1.5 ton	17.187 tlb	14.5	R-454B	208/160	10.9 A	15 A	149 lb	12.34
CU-128	CARRIER	27SC5A24A003	HEAT PUMP	2.0 ton	22.908 tlb	15.2	R-454B	208/160	13.5 A	20 A	176 lb	12.34
CU-200	CARRIER	27SC5A24A003	HEAT PUMP	2.0 ton	22.908 tlb	15.2	R-454B	208/160	13.5 A	20 A	176 lb	12.34
CU-202	CARRIER	27SC5A24A003	HEAT PUMP	2.0 ton	22.908 tlb	15.2	R-454B	208/160	13.5 A	20 A	176 lb	12.34
CU-204	CARRIER	27SC5A24A003	HEAT PUMP	2.0 ton	22.908 tlb	15.2	R-454B	208/160	13.5 A	20 A	176 lb	12.34
CU-205	CARRIER	27SC5A36A003	HEAT PUMP	3.0 ton	34.930 tlb	14.5	R-454B	208/160	19.2 A	30 A	173 lb	12.34
CU-210	CARRIER	27SC5A24A003	HEAT PUMP	2.0 ton	22.908 tlb	15.2	R-454B	208/160	13.5 A	20 A	176 lb	12.34
CU-212	CARRIER	27SC5A24A003	HEAT PUMP	2.0 ton	22.908 tlb	15.2	R-454B	208/160	13.5 A	20 A	176 lb	12.34
CU-214	CARRIER	27SC5A24A003	HEAT PUMP	2.0 ton	22.908 tlb	15.2	R-454B	208/160	13.5 A	20 A	176 lb	12.34
CU-216	CARRIER	27SC5A18A003	HEAT PUMP	1.5 ton	17.187 tlb	14.5	R-454B	208/160	10.9 A	15 A	149 lb	12.34
CU-218	CARRIER	27SC5A24A003	HEAT PUMP	2.0 ton	22.908 tlb	15.2	R-454B	208/160	13.5 A	20 A	176 lb	12.34
CU-220	CARRIER	27SC5A18A003	HEAT PUMP	1.5 ton	17.187 tlb	14.5	R-454B	208/160	10.9 A	15 A	149 lb	12.34
CU-224	CARRIER	27SC5A18A003	HEAT PUMP	1.5 ton	17.187 tlb	14.5	R-454B	208/160	10.9 A	15 A	149 lb	12.34
CU-226	CARRIER	27SC5A18A003	HEAT PUMP	1.5 ton	17.187 tlb	14.5	R-454B	208/160	10.9 A	15 A	149 lb	12.34
CU-228	CARRIER	27SC5A18A003	HEAT PUMP	1.5 ton	17.187 tlb	14.5	R-454B	208/160	10.9 A	15 A	149 lb	12.34
CU-230	CARRIER	27SC5A18A003	HEAT PUMP	1.5 ton	17.187 tlb	14.5	R-454B	208/160	10.9 A	15 A	149 lb	12.34
CU-298A	CARRIER	27SC5A36A003	HEAT PUMP	3.0 ton	34.930 tlb	14.5	R-454B	208/160	19.2 A	30 A	173 lb	12.34
CU-299B	CARRIER	27SC5A36A003	HEAT PUMP	3.0 ton	34.930 tlb	14.5	R-454B	208/160	19.2 A	30 A	173 lb	12.34
NOTES:												
1. PROVIDE CONDENSING UNIT WITH: 2-STAGE SCROLL COMPRESSOR; LOW/UNDER HALL GUARDS; SERVICE VALVES; LOW AMBIENT PRESSURE SWITCH; CRANKCASE HEATER; EVAPORATOR FREEZE THERMOSTAT; HARD START KIT; HIGH PRESSURE SWITCH; LOW PRESSURE SWITCH; AND FILTER DRYER.												
2. FINAL REFRIGERANT CHARGE BY CONTRACTOR.												
3. PROVIDE FACTORY WARRANTY AS FOLLOWS: ONE YEAR WARRANTY FOR THE COMPLETE UNIT (PARTS AND LABOR) FROM THE DATE OF START-UP AND FIVE YEAR COMPRESSOR (PARTS ONLY) WARRANTY FROM THE DATE OF START-UP.												
4. CARRIER IS BASIS OF DESIGN. TRANE AND BRYANT ARE APPROVED MANUFACTURERS.												

ISSUANCE	
NO	DATE DESCRIPTION
1	11-24-25 ADDENDUM NO.1

20 NW 3RD STREET
SUITE 510
EVANSVILLE, IN 47708
TEL. 812.401.2260

 **engineering consultants**

SIGNED: _____ 11/07/2025

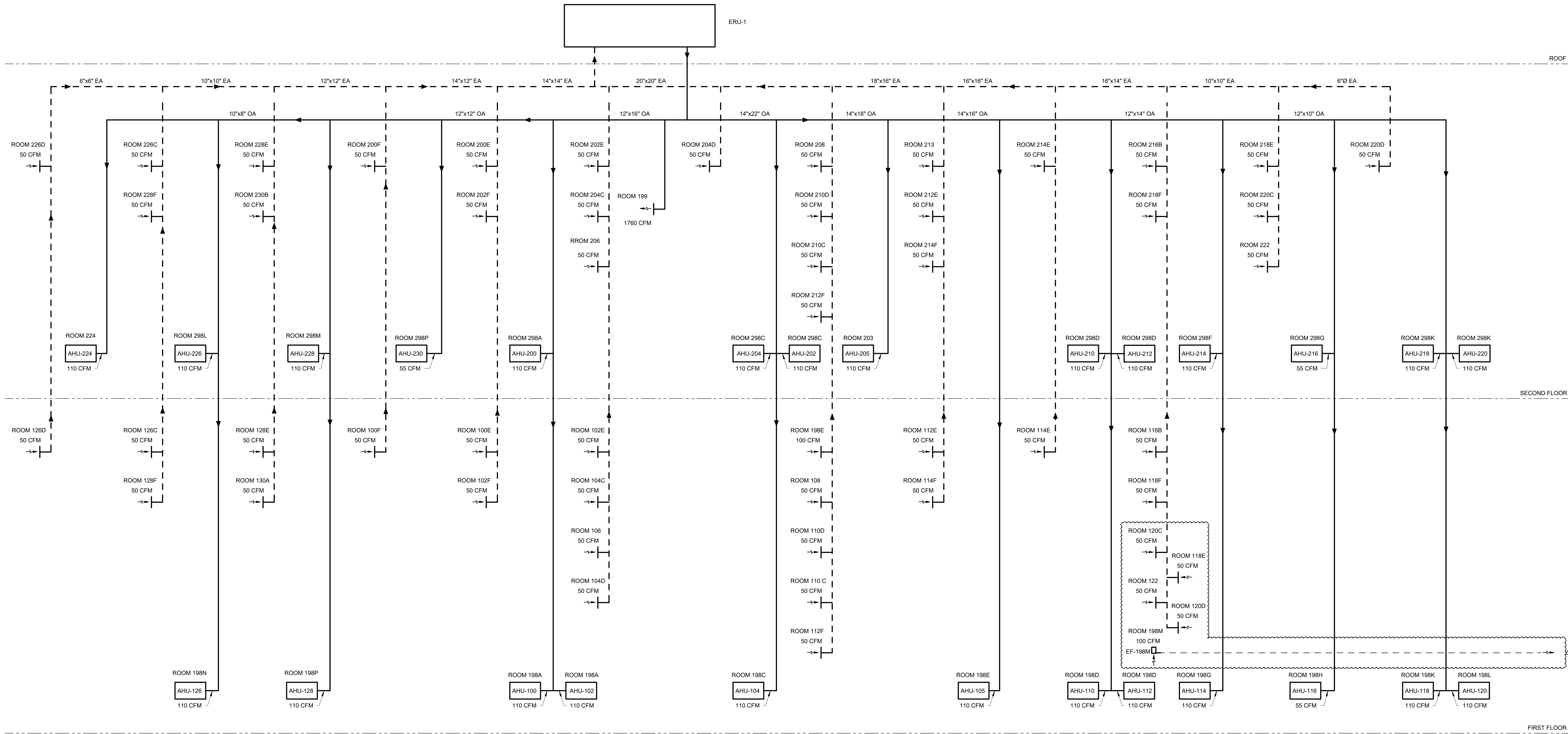


PROFESSIONAL SEAL

EXPIRATION DATE: 07/31/2026

11-07-2025	JDE	KC	SRP	
DATE	DESIGNED	DRAWN	CHECKED	APPROVED

11/24/2025 11:17:41 AM Autodesk Docs://25.823340.6075-USE Woodland Lodge/WOODLAND LODGE MEP 2025.rvt



ERU-1 AIRFLOW DIAGRAM
SCALE: NONE

GENERAL NOTES:
A. AIR HANDLING UNIT TAG CORRESPONDS WITH THE ROOM IT SERVES. ROOM NUMBER INDICATES LOCATION OF AIR HANDLING UNIT.

ISSUANCE		DESCRIPTION
NO.	DATE	
1	11-24-25	ADDENDUM NO. 1

20 NW 3RD STREET
EVANSVILLE, IN 47708
TEL 812.401.2280

SIGNED: 11/07/2025

PROFESSIONAL SEAL

EXPIRATION DATE: 07/31/2026

DATE	DESIGNED	DRAWN	CHECKED	APPROVED
11-07-2025	JDE	KC	SRP	

SE878E - WOODLAND LODGE - HVAC AND ROOF REPLACEMENT
INDIANA UNIVERSITY SOUTHEAST
NEW ALBANY, IN

AIRFLOW DIAGRAM

SHEET NO.

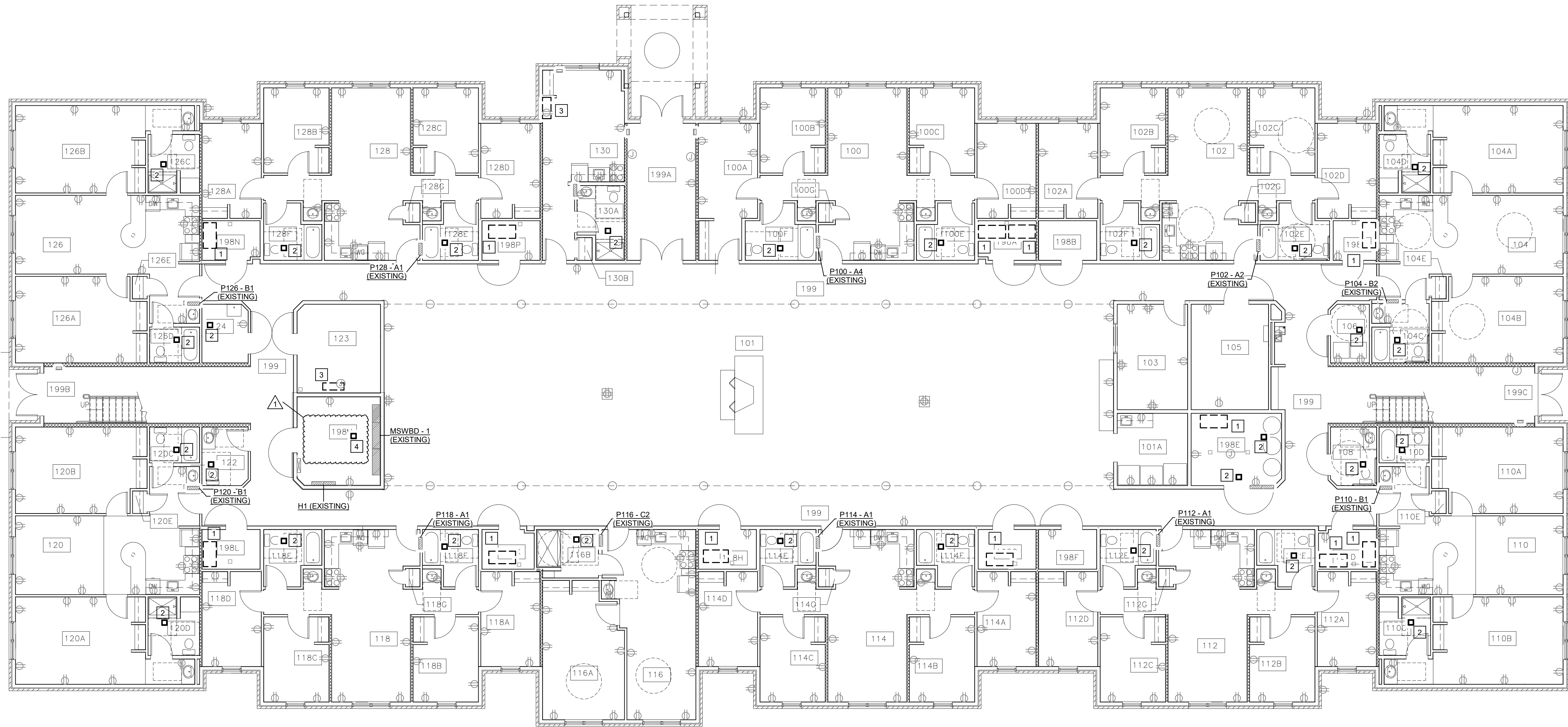
M601

JOB NO.

25.823340.6075

A. SEE SHEET E001 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

1. DISCONNECT EXISTING AIR HANDLING UNIT FOR REMOVAL BY MC. REMOVE BRANCH CIRCUIT BACK TO SOURCE OF FEED.
2. DISCONNECT EXISTING EXHAUST FAN FOR REMOVAL BY MC. REMOVE BRANCH CIRCUIT BACK TO SOURCE OF FEED.
3. DISCONNECT EXISTING MINI SPLIT FOR REMOVAL BY MC. REMOVE BRANCH CIRCUIT BACK TO SOURCE OF FEED.
4. DISCONNECT EXISTING EXHAUST FAN, BRANCH CIRCUIT TO REMAIN FOR REUSE IN NEW CONSTRUCTION.





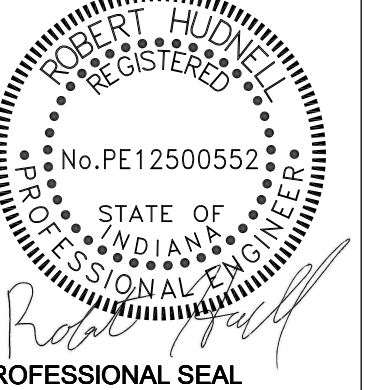
FIRST FLOOR ELECTRICAL DEMOLITION PLAN - POWER
 SCALE: 1/8" = 1'-0"

NO	DATE	DESCRIPTION
1	11-24-25	ADDENDUM NO.1

SUITE 510
EVANSVILLE, IN 47708
TEL 812.401.2260



GNED: 11/07/2025



EXPIRATION DATE:

DATE	DESIGNED	NPH
	DRAWN	NPH
	CHECKED	CH
	APPROVED	RNH

INDIANA UNIVERSITY SOUTHEAST
NEW ALBANY, IN

FIRST FLOOR ELECTRICAL DEMOLITION PLAN - POWER

SHEET NO.

ED301

JOB NO. 25.B23340.6075

A. SEE SHEET E001 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

B. SEE SHEETS E601 AND E602 FOR MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS.

1. PROVIDE 20A RECEPTACLE FOR TEMPERATURE CONTROL PANEL. UTILIZE EXISTING SPARE 20A/1P CIRCUIT BREAKER IN PANEL "H2" FOR CONNECTION TO RECEPTACLE. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
2. PROVIDE PATHWAY FOR DATA CABLE FROM ROOM 123 TO TEMPERATURE CONTROL PANEL VIA J-HOOKS IN CRAWL SPACE. CABLING PROVIDED BY UITS. COORDINATE FINAL TEMPERATURE CONTROL PANEL LOCATION WITH MECHANICAL CONTRACTOR.

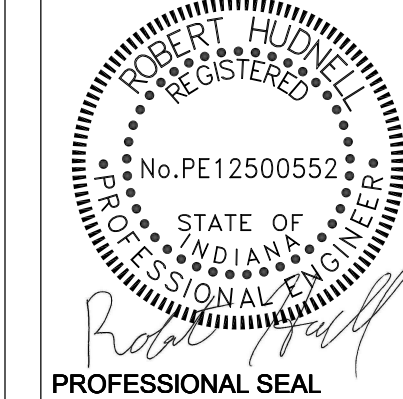


ISSUANCE		
NO	DATE	DESCRIPTION
1	11-24-25	ADDENDUM NO.1

20 N.W. 3RD STREET
SUITE 510
EVANSVILLE, IN 47708
TEL 812 401 2260



SIGNED: 11/07/2025



EXPIRATION DATE:

DATE	11-07-2025
DESIGNED	NPH
DRAWN	NPH
CHECKED	CH
APPROVED	RNH

IND LODGE - HVAC AND ROOF REPLACEMENT
INDIANA UNIVERSITY SOUTH/EAST
NEW ALBANY, IN

SHEET NO.

E301

JOB NO. 25.823340.6075

11/24/2025 9:38:23 AM
Audited Docs\\75.553340.6075\\USE\\Woodland Lodge\\WOODLAND LODGE MEP 2025.V4

Branch Panel: MSWBD - 1 (EXISTING)																
Location: Supply From: MSWBD - 1 (EXISTING) Mounting: Surface Enclosure: Type 1							Volts: 120/208 Wye Phases: 3 Wires: 4				A.I.C. Rating: Maine Type: MLO Bus Amps: 1 A MCB Rating: 2000 A					
CB Info	CKT	Circuit Description			Amps	Trip	Poles	A	B	C	Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	SPARE			--	20 A	3	0 VA	0 VA					SPARE	2	
	3	SPARE						0 VA	0 VA					SPARE	4	
	5	SPARE							0 VA	0 VA				SPARE	6	
	7	P126 - B1			62.32 A	125 A	3	5978 VA 4898 VA	10049... 10231	0 VA	0 VA	3	125 A	61.4 A P102 - A2	8	
	9	P126 - A1			65.49 A	125 A	3	5618 VA 5618 VA	10983... 10983	6425 VA 6993 VA		3	125 A	65.49 A P200 - A1	10	
	11	P202 - A1			65.49 A	125 A	3	5618 VA 5618 VA	10983... 10983	6993 VA 6993 VA		3	125 A	65.99 A P100 - A4	12	
	13	H2			205.1 A	250 A	3	25125 VA 0 VA	23681... 0 VA	25099... 0 VA		3	125 A	SPARE	14	
	15	P130 - D1			48.21 A	125 A	3	8755 VA 9257 VA	3624 VA 4144 VA	4790 VA 6885 VA		3	125 A	56.31 A P230 - C3	16	
	17	P226 - B1			62.32 A	125 A	3	5978 VA 5978 VA	10049... 10049	6425 VA 6425 VA		3	125 A	62.32 A P220 - B1	18	
	19	P226 - A1			65.49 A	125 A	3	5618... 6047...	1098... 4144...	6993 VA 3675 VA		3	125 A	38.49 A P216 - C1	20	
	21	SPARE			--	100 A	3	0 VA 0 VA	0 VA 0 VA	0 VA 0 VA		3	100 A	SPARE	22	
	23	SPARE			--	--	3	--	--	--		3	--	SPACE	24	
	25	SPARE			--	--	3	--	--	--		3	--	SPACE	26	
	27	SPARE			--	--	3	--	--	--		3	--	SPACE	28	
	29	SPARE			--	--	3	--	--	--		3	--	SPACE	30	
	31	SPARE			--	--	3	--	--	--		3	--	SPACE	32	
	33	SPARE			--	--	3	--	--	--		3	--	SPACE	34	
	35	SPARE			--	--	3	--	--	--		3	--	SPACE	36	
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	261	SPARE			--	--	3	--	--	--		3	--	SPACE	262	
	26															

Branch Panel: H2 (EXISTING)												A.I.C. Rating:						
Location: Supply From: MSWBD - 1 (EXISTING) Mounting: Recessed Enclosure: Type 1					Volts: 120/208 Wye Phases: 3 Wires: 4					Type: Bus Amps: 250 A								
CB Info	CKT	Circuit Description			A	Trip	Poles	B		C	Poles	Trip	A	Circuit Description			CKT	CB Info
	1	WASHING MACHINE - LAUNDRY			--	20 A	1	1200 VA	720 VA		1	20 A	--	REC - 2ND FLOOR MECH			2	
	3	WASHING MACHINE - LAUNDRY			--	20 A	1			1200 VA 500 VA	1	20 A	--	REC - 2ND FLOOR MECH			4	
	5	WASHING MACHINE - LAUNDRY			--	20 A	1			1200 VA 1080 VA	1	20 A	--	REC - 2ND FLOOR MECH			6	
	7	WASHING MACHINE - LAUNDRY			--	20 A	1	1200 VA	180 VA		1	20 A	--	REC - 2ND FLOOR LAUNDRY			8	
	9	WASHING MACHINE - LAUNDRY			--	20 A	1	1200 VA	720 VA		1	20 A	--	REC - 1ST FL & OUTSIDE			10	
	11	WASHING MACHINE - LAUNDRY			--	20 A	1			800 VA 450 VA	1	20 A	--	REC - 1ST FL MECH			12	
	13	WASHING MACHINE - 1ST FLOOR			--	20 A	1	600 VA	540 VA		1	20 A	--	REC - 1ST FL MECH			14	
	15	VENDING MACHINE			--	20 A	1	600 VA	450 VA		1	20 A	--	REC - 1ST FL MECH			16	
	17	VENDING MACHINE			--	20 A	1			600 VA 180 VA	1	20 A	--	REC - 1ST FLOOR FELLOWSHIP HALL			18	
	19	VENDING MACHINE			--	20 A	1	600 VA	0 VA		1	20 A	--	SPARE			20	
	21	VENDING ROOM			--	20 A	1			600 VA 0 VA	1	20 A	--	SPARE			22	
	23	COFFEE AREA			--	20 A	1			600 VA 1123 VA	2	20 A	10.8 A	CU - 105			24	E
	25	COFFEE AREA			--	20 A	1	600 VA	1123 VA		2	20 A	15.4 A	CU - 205			26	E
	27	LIGHT - CORR (THIS END)			--	20 A	1			750 VA 1602 VA	1	20 A	--	LIGHTING - STAIR (THIS END)			28	
	29	LIGHT - FELLOWSHIP RM (THIS END)			--	20 A	1			750 VA 1602 VA	1	20 A	--	SPARE			30	
	31	LIGHT - COMMON AREA (THIS END)			--	20 A	1	500 VA	500 VA		1	20 A	--	SPARE			32	
	33	SPRINKLER SYSTEM (AIR COMPRESSOR)			--	20 A	2			1000 VA 0 VA	1	20 A	--	SPARE			34	
N	35	AHU - 205			21.9 A	30 A	2	2278 VA	200 VA		1	20 A	--	GAS SOLENOID			36	
	37	AHU - 105			21.9 A	30 A	2	2278 VA	500 VA		1	20 A	--	HOT WATER CIRC PUMP			38	
	39	CLOTHES DRYER			--	20 A	2			2278 VA 500 VA	1	20 A	--	WATER HEATER AND CONTROLS			40	
	41	CLOTHES DRYER			--	20 A	2	1375 VA	500 VA		1	20 A	--	WATER HEATER AND CONTROLS			42	
	43	CLOTHES DRYER			--	20 A	2	1375 VA	1375 VA		1	20 A	--	WATER HEATER AND CONTROLS			44	
	45	CLOTHES DRYER			--	20 A	2	1375 VA	1375 VA		1	20 A	--	DVF-1			46	
	47	CLOTHES DRYER			--	20 A	2	1375 VA	1375 VA		2	20 A	--	CLOTHES DRYER			48	
	49	CLOTHES DRYER			--	20 A	2	1375 VA	1375 VA		2	20 A	--	CLOTHES DRYER			50	
	51	CLOTHES DRYER			--	20 A	2	1375 VA	1375 VA		2	20 A	--	CLOTHES DRYER			52	
	53	CLOTHES DRYER			--	20 A	2	1375 VA	1375 VA		2	20 A	--	CLOTHES DRYER			54	
	55	CLOTHES DRYER			--	20 A	2	1375 VA	1375 VA		2	20 A	--	CLOTHES DRYER			56	
	57	REC - ATTIC			--	20 A	1	450 VA	2278 VA		2	40 A	21.9 A	AHU - 299B			58	N
	59	SIDE ENTRANCE DOOR - 1950			--	20 A	1			600 VA 2278 VA	2	30 A	15.4 A	CU - 299			60	N
N	61	AHU - 299A			21.9 A	40 A	2	2278 VA	1602 VA		2	30 A	15.4 A	CU - 299			62	N
	63	SPACE			--	--		--	--	1602 VA	2	30 A	15.4 A	CU - 299			64	N
	65	SPACE			--	--		--	--	1602 VA	2	30 A	15.4 A	CU - 299			66	N
	67	SPACE			--	--		--	--	1602 VA	2	30 A	15.4 A	CU - 299			68	N
	71	SPACE			--	--		--	--	1602 VA	2	30 A	15.4 A	CU - 299			70	N
Total Load:					25125 VA			23681 VA		25099 VA								
Total Amps:					211 A			197 A		211 A								
CIRCUIT BREAKER INFORMATION LEGEND: N = PROVIDE CIRCUIT BREAKER, SIZE AS INDICATED E = EXISTING SPARE CIRCUIT BREAKER TO BE REUSED G = GROUND FAULT SENSING S = SHUNT TRIP L = LOCK OUT A = ARC FAULT INTERRUPTER																		
ABBREVIATIONS: MLO = MAIN LUGS ONLY CB = CIRCUIT BREAKER CKT = CIRCUIT																		
Load Classification										Panel Totals								
COOLING										11865 VA 0.01% 1 VA								
Spare										43829 VA 100.00% 43829 VA								
GEN										18220 VA 100.00% 18220 VA								
										Total Conn. Load: 73904 VA								
										Total Est. Demand: 62050 VA								
										Total Conn.: 295 A								
										Total Est. Demand: 172 A								

11/24/2025 9:28:25 AM
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MECHANICAL EQUIPMENT DATA SCHEDULE																							
PLAN MARK	EQUIPMENT	LOCATION	FURNISH BY [1]	MOTOR OR EQUIPMENT DATA			FED FROM	BRANCH CIRCUIT [3]	DISCONNECT SWITCH AT EQUIPMENT				STARTER							REMARKS [7]			
				HP/KW/A [2]	VOLTS/ PHASE	INST. BY/ CONN. BY [1]			TYPE [4]	NEMA ENCLOS. TYPE	SWITCH/ FUSE SIZE	FURNISH. BY [1]	INST. BY/ CONN. BY [1]	NEMA SIZE	TYPE [5]	NEMA ENCLOS. TYPE	SWITCH/ FUSE SIZE	ACCESS. [6]	FURNISH. BY [1]		CONN. BY [1]	CONTROL WIRING BY [1]	
CU - 218	CONDENSER UNIT	ROOF	23	10.8A	208 / 1	23 / 26	EXISTING	2#12, 1#12G, 3/4" C	-	3R	20A	23	23 / 26	-	-	-	-	-	23	23	23	4	
CU - 220	CONDENSER UNIT	ROOF	23	10.8A	208 / 1	23 / 26	EXISTING	2#12, 1#12G, 3/4" C	-	3R	15A	23	23 / 26	-	-	-	-	-	23	23	23	5	
CU - 224	CONDENSER UNIT	ROOF	23	8.8A	208 / 1	23 / 26	EXISTING	2#12, 1#12G, 3/4" C	-	3R	15A	23	23 / 26	-	-	-	-	-	23	23	23	2	
CU - 226	CONDENSER UNIT	ROOF	23	10.8A	208 / 1	23 / 26	EXISTING	2#12, 1#12G, 3/4" C	-	3R	15A	23	23 / 26	-	-	-	-	-	23	23	23	5	
CU - 126	CONDENSER UNIT	ROOF	23	10.8A	208 / 1	23 / 26	EXISTING	2#12, 1#12G, 3/4" C	-	3R	15A	23	23 / 26	-	-	-	-	-	23	23	23	5	
CU - 299	CONDENSER UNIT	ROOF	23	15.4A	208 / 1	23 / 26	H2	2#10, 1#10G, 3/4" C	-	3R	30A	23	23 / 26	-	-	-	-	-	23	23	23	1	
CU - 299	CONDENSER UNIT	ROOF	23	15.4A	208 / 1	23 / 26	H2	2#10, 1#10G, 3/4" C	-	3R	30A	23	23 / 26	-	-	-	-	-	23	23	23	1	
AHU - 299A	AIR HANDLING UNIT	298A	23	32.5A	208 / 1	23 / 26	H2	2#8, 1#8G, 3/4" C	-	-	-	23	23 / 26	-	-	-	-	-	23	23	23	6	
AHU - 299B	AIR HANDLING UNIT	298E	23	32.5A	208 / 1	23 / 26	H2	2#8, 1#8G, 3/4" C	-	-	-	23	23 / 26	-	-	-	-	-	23	23	23	6	
ERU - 1	ENERGY RECOVERY UNIT	ROOF	23	93A	208 / 3	23 / 26	MSWBD-1	3#1, 1#6G, 1 1/2" C	-	-	-	23	23 / 26	-	-	-	-	-	23	23	23	3	
SSCU - 1	SPLIT SYSTEM CONDENSING UNIT	ROOF	23	7.4A	208 / 1	23 / 26	P130-D1	2#12, 1#12G, 3/4" C	NF	3R	15A	23	23 / 26	-	-	-	-	-	23	23	23	5	
SSAC - 1	SPLIT SYSTEM AIR CONDITIONER	130	23	-	-	23 / 26	-	-	-	-	-	-	-	-	-	-	-	-	23	23	23	-	
SSCU - 2	SPLIT SYSTEM CONDENSING UNIT	ROOF	23	27.7A	208 / 1	23 / 26	H1	2#10, 1#10G, 3/4" C	NF	3R	20A	23	23 / 26	-	-	-	-	-	23	23	23	6	
SSAC - 2	SPLIT SYSTEM AIR CONDITIONER	123	23	1.3A	208 / 1	23 / 26	H1	2#12, 1#12G, 3/4" C	-	-	-	-	-	-	-	-	-	-	23	23	23	5	
EF - 198M	EXHAUST FAN	198M	23	0.7A	120 / 1	23 / 26	H1	EXISTING	-	-	-	-	-	-	-	-	-	-	23	-	23	-	
[1]	SPECIFICATION DIVISION NUMBER: DIVISION 22 - PLUMBING DIVISION 23 - MECHANICAL DIVISION 26 - ELECTRICAL GC - GENERAL CONTRACTOR			[3]	REFER TO FEEDER SCHEDULE WHEN THIS COLUMN CONTAINS A FEEDER DESIGNATION INSTEAD OF CONDUCTOR SIZE.			[5]	STARTER TYPE: COMB1 - COMBINATION FULL VOLTAGE NON-REVERSING MAGNETIC STARTER WITH NON-FUSED DISCONNECT SWITCH. COMB2 - COMBINATION FULL VOLTAGE NON-REVERSING MAGNETIC STARTER WITH FUSED DISCONNECT SWITCH. COMB3 - STARTER WITH THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKER DISCONNECT. COMB4 - COMBINATION FULL VOLTAGE NON-REVERSING MAGNETIC STARTER WITH MAGNETIC ONLY MOLDED CASE CIRCUIT BREAKER DISCONNECT.				FVNR - FULL VOLTAGE NON-REVERSING MAGNETIC STARTER WITHOUT DISCONNECT. MAN - MANUAL STARTER WITH PILOT LIGHT. SD1 - STAR DELTA STARTER. PWCP - PREWIRED CONTROL PANEL VFD - VARIABLE FREQUENCY DRIVE. 2S2W - 2 SPEED, 2 WINDING 2S1W - 2 SPEED, SINGLE WINDING				[6]	ACCESSORIES: HOAP - HOA WITH PILOT LIGHT		[7]	KEY TO REMARKS: 1. PROVIDE NEW 30A / 2P CIRCUIT BREAKER AT PANEL FOR CONNECTION TO MECHANICAL EQUIPMENT. 2. EXISTING BRANCH CIRCUIT TO BE REUSED. EC SHALL PROVIDE NEW DISCONNECT AND CONDUCTORS FROM DISCONNECT TO EQUIPMENT AS NOTED ON THIS SHEET. 3. PROVIDE NEW 125A / 3P CIRCUIT BREAKER IN MSWBD FOR CONNECTION TO NEW EQUIPMENT. 4. PROVIDE NEW 20A / 2P CIRCUIT BREAKER AT PANEL FOR CONNECTION TO MECHANICAL EQUIPMENT. 5. PROVIDE NEW 15A / 2P CIRCUIT BREAKER AT PANEL FOR CONNECTION TO MECHANICAL EQUIPMENT. 6. PROVIDE NEW 40A / 2P CIRCUIT BREAKER AT PANEL FOR CONNECTION TO MECHANICAL EQUIPMENT.		
[2]	HORSEPOWER (HP) IS SHOWN UNLESS AMPS (A) OR KILOWATTS (KW) ARE CALLED OUT.			[4]	NF - NON FUSED F- FUSED TOG - TOGGLE																		

GENERAL NOTES:

A. SEE SHEET E001 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

ISSUANCE		DESCRIPTION
NO.	DATE	
1	11-24-25	ADDENDUM NO.1

20 NW 3RD STREET
EVANSVILLE, IN 47708
TEL 812.401.2260

artm

engineering consultants

DESIGNED
DRAWN
CHECKED
APPROVED

NPH
NPH
CH
RNH

DATE
11-07-2025

PROFESSIONAL SEAL

11/07/2025

EXPIRATION DATE:

LIGHT FIXTURE SCHEDULE									
PLAN MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	ACCESSORIES AND REMARKS	LUMINAIRE VOLTAGE	LIGHT SOURCE INFORMATION			MAXIMUM INPUT WATTS
					TYPE	LUMENS	COLOR TEMP		
A	6' x 6' RECESSED PANEL	TLS-ARCHITECTURAL LIGHTING	TLS - LSL - AS - 6.6 - 1 - 1 - 35K - S - SP - BL - 0-10V - CL - LS	ELECTRICAL CONTRACTOR SHALL MEASURE EXISTING OPENING PRIOR TO ORDERING LIGHT FIXTURE AND SIZE FIXTURE TO LEAVE A 1/4" GAP ON ALL SIDES.	UNV	LED	3653	3500K	31
		APPROVED EQUAL	-	FOR ADDITIONAL INFORMATION ON BASIS OF DESIGN FOR FIXTURE, CONTACT GREG ROCHELEU 812-250-1183.					
		APPROVED EQUAL	-						

A. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE, CLIPS, ANGLES, FRAMES, ETC AS REQUIRED TO MOUNT THE FIXTURES IN OR ON THE SURFACES THEY ARE TO BE INSTALLED.

B. WHEN INSTALLING LUMINAIRES, CONTRACTOR SHALL USE THE LIGHT FIXTURE MANUFACTURER'S MOUNTING HARDWARE AND FOLLOW ALL MANUFACTURER'S INSTALLATION DIRECTIONS.

C. ALL LIGHT FIXTURES SHALL HAVE A U.L. LABEL.

D. REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING FIXTURES, FINISHES, DRIVERS, ETC.

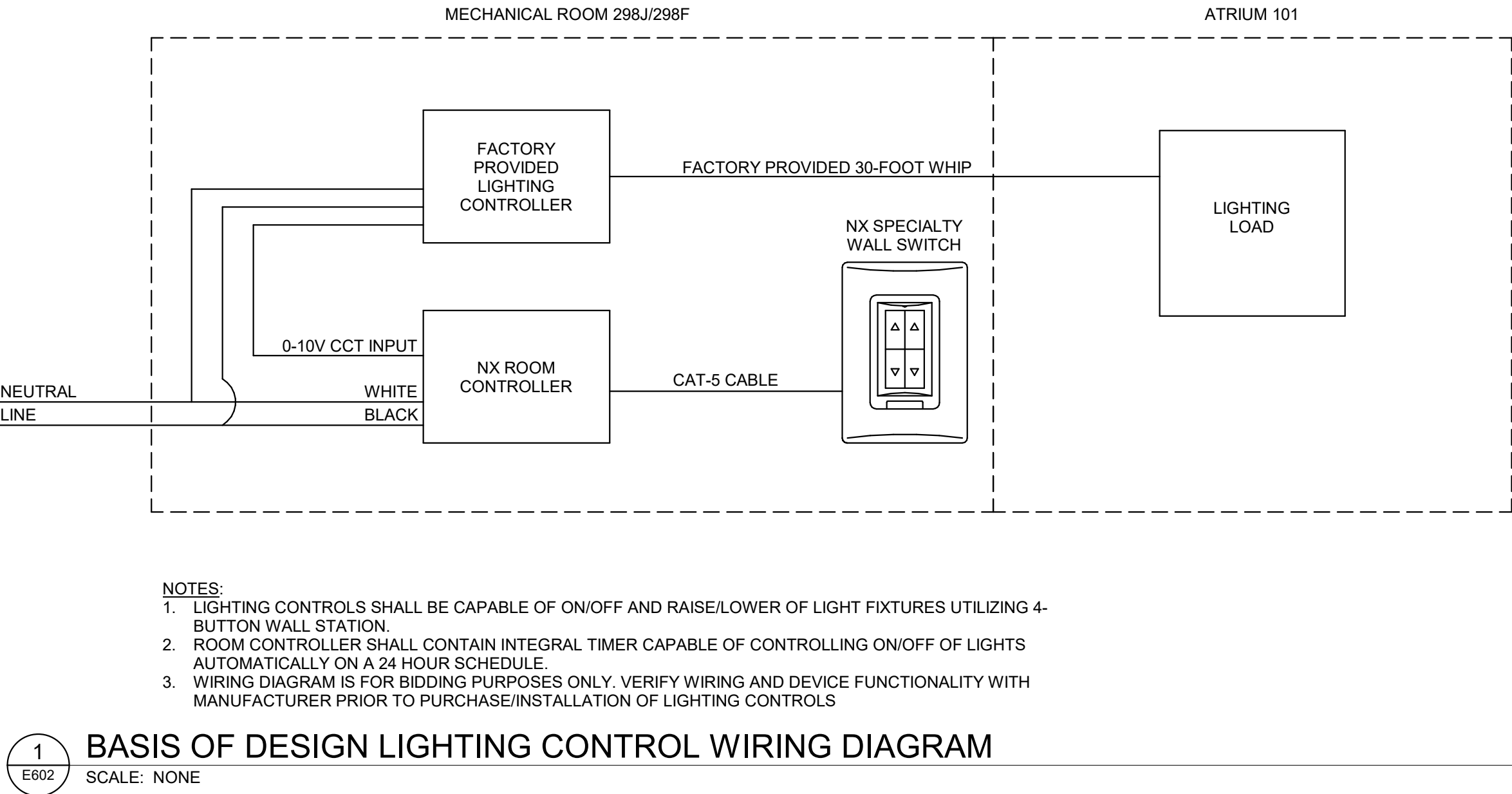
E. INDOOR LED COLOR TEMPERATURE SHALL BE 3500 KELVIN, OUTDOOR LED COLOR TEMPERATURE SHALL BE 4000 KELVIN, UNLESS NOTED OTHERWISE.

F. VERIFY CEILING CONDITIONS AND COORDINATE LIGHT FIXTURE MOUNTING HARDWARE AND TRIMS NEEDED PRIOR TO ORDERING.

G. VERIFY QUANTITIES, MODEL NUMBERS AND DESCRIPTIONS WITH MANUFACTURERS PRIOR TO PLACING ORDER.

H. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURE AND CATALOG NUMBERS ONLY. CONTRACTOR SHALL CONSIDER THE COMPLETE DESCRIPTION, NOTES, SPECIFICATIONS, MOUNTING AND INSTALLATION CONDITIONS IN CONJUNCTION WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURER LISTED ARE THE BASIS OF DESIGN.

I. CONTRACTOR SHALL PROVIDE ALL LIGHT FIXTURES UNLESS NOTED OTHERWISE.



SE878E - WOODLAND LODGE - HVAC AND ROOF REPLACEMENT

INDIANA UNIVERSITY SOUTHEAST
NEW ALBANY, IN

MECHANICAL EQUIPMENT ELECTRICAL DATA SCHEDULE

SHEET NO.

E602

JOB NO. 25.823340.6075



SIEMENS INDUSTRY, INC.
SMART INFRASTRUCTURE

11001 BLUGRASS PKWY
#320
LOUISVILLE, KY 40299
US

PHONE: (502) 267-1571
FAX: (502) 267-0316

SUBMITTAL DATE: 11/19/2025

FOR INFORMATION CONTACT
PROJECT MANAGER: MICHAEL BURTON

ENGINEERING DATA FOR
IUSE WOODLAND LODGE

4201 GRANT LINE RD
NEW ALBANY, IN 47150-2158
US

PROJECT ID: 44OP-406822

RTM ENGINEERING CONSULTANTS
ENGINEER

THE TRUSTEES OF INDIANA UNIVERSITY
CONTRACTOR

DWG DESCRIPTION	
CLR TOCA	GENERAL COVER SHEET CLARIFICATION SHEET TABLE OF CONTENTS
	SCHEDULE FLN SCHEDULE
	REPORTS POINT SUMMARY REPORT
	CONTROL DRAWINGS LEGEND & ABBREVIATIONS COMMUNICATION RISER FLN / MSTP COMMUNICATION BLN / ALN COMMUNICATION ERU-1 FLOW DIAGRAM ERU-1 WIRING DIAGRAM ERU-1 SEQ AHU FLOW DIAGRAM AHU BOM & SEQ DUCTLESS SPLIT SYSTEM DUCTLESS SPLIT SYSTEM WIRING DUCTLESS SPLIT SYSTEM BOM & SEQ
	CONTROL PANEL LAYOUTS WL.PXC1 PANEL LAYOUT WL.PXC1 PANEL BOM
	GENERAL ANIXTER BUILDING AUTO. CABLES P7WR TX-I/O WIRING SPEC TX-I/O TERMINATION SPEC. (1) TX-I/O TERMINATION SPEC. (2) TX-I/O TERMINATION SPEC. (3)
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REVISION HISTORY	SIEMENS 11001 BLUGRASS PKWY #320 LOUISVILLE, KY 40299 US Phone: (502) 267-1571 Fax: (502) 267-0316
	SIEMENS INDUSTRY, INC. SMART INFRASTRUCTURE
IUSE WOODLAND LODGE NEW ALBANY, IN	
ENGINEER AD	
DRAFTER AD	
CHECKED BY MB	
INITIAL RELEASE 11/18/25	
LAST EDIT DATE 11/18/25	
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SIEMENS INDUSTRY, INC.

Point Summary

Revision Date: 11/18/2025
Submittal Date: 11/18/2025

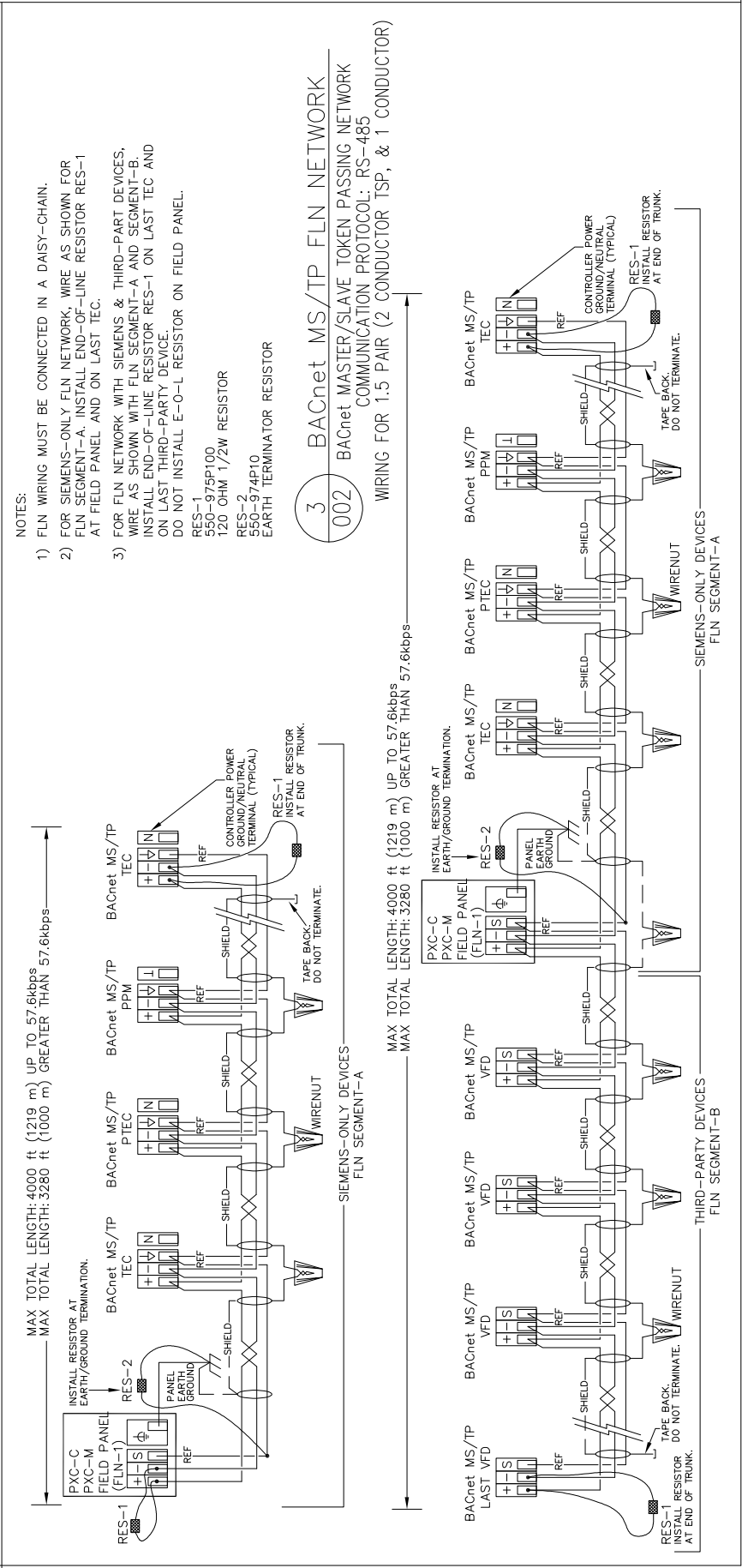
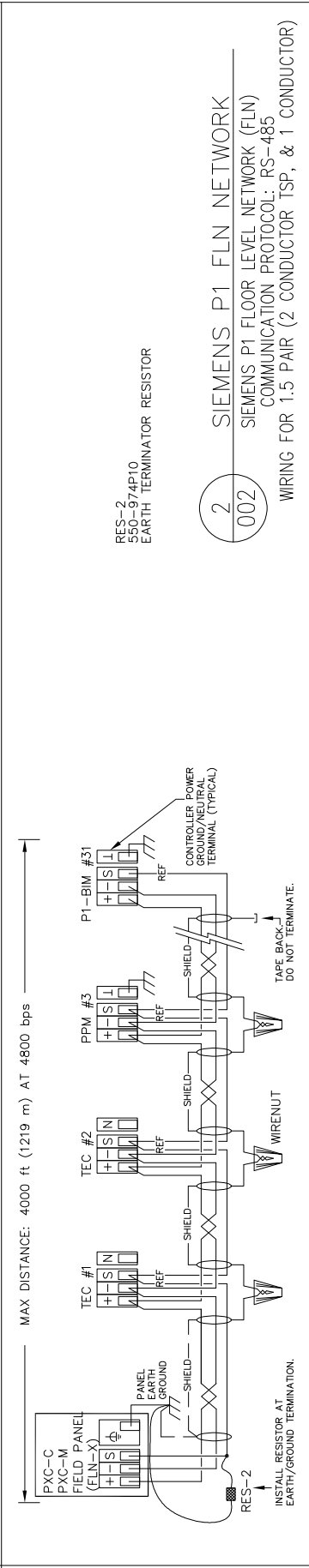
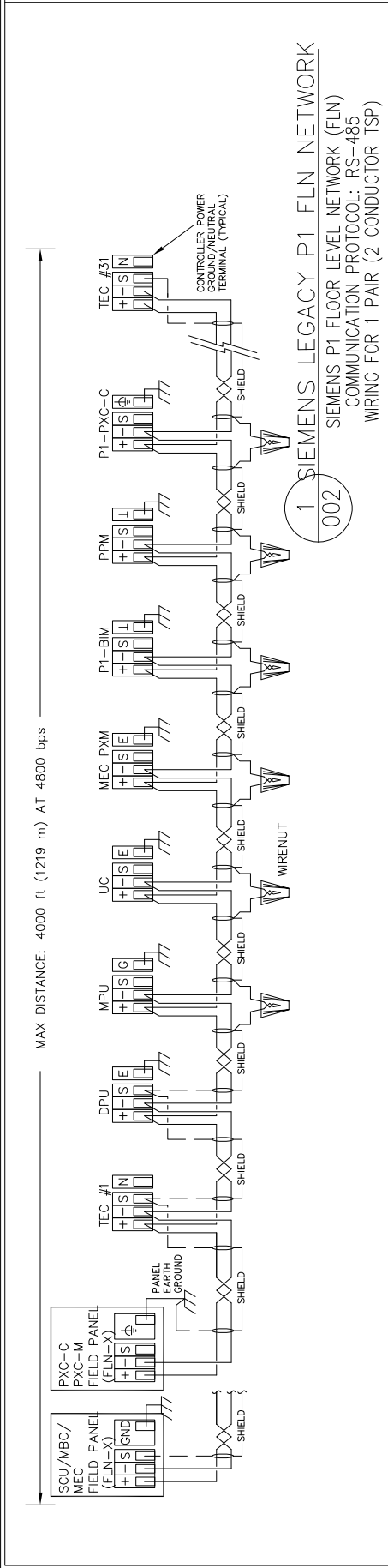
SMART INFRASTRUCTURE

Job Name: IUSE WOODLAND LODGE
Job Number: 440P-406822

Point Name	Type	Description	Function	Address	Field Panel Name
WL.SSAC1.RMT	LAI	SSAC1 RMT	Value	0.1.1	IUSE.WL.PXC1
WL.SSAC2.RMT	LAI	SSAC2 RMT	Value	0.1.2	IUSE.WL.PXC1

CONTROL SYMBOL	CONTROL SYMBOL DESCRIPTION	CONTROL SYMBOL	CONTROL SYMBOL DESCRIPTION	CONTROL SYMBOL	CONTROL SYMBOL DESCRIPTION	CONTROL SYMBOL	CONTROL SYMBOL DESCRIPTION	CONTROL SYMBOL	CONTROL SYMBOL DESCRIPTION
100K	ONE HUNDRED THOUSAND	EAV	EXHAUST AIR VOLUME	MG	MAGNEHELIC GAUGE	SPP	STATIC PRESSURE PROBE	UH	UNIT HEATER
10K	TEN THOUSAND	EF	EXHAUST FAN	MIN	MINIMUM	SR	SPRING RETURN	UPS	UNINTERRUPTIBLE POWER SUPPLY
1K	ONE THOUSAND	ELEC	ELECTRIC	MLN	MANAGEMENT LEVEL NETWORK	SSP	SUPPLY STATIC PRESSURE	V	VALVE
AC	AIR COMPRESSOR	ENB	ENABLE	MPU	MULTI-POINT UNIT	STA	STATUS	V	VOLTS
AC	ALTERNATING CURRENT	ENC	ENCLOSURE	MS/TP	MASTER-SLAVE/TOKEN-PASSING	STG1	STAGE 1	VA	VOLT AMP
ACC	AIR COOLED CONDENSING UNIT	ERH	ELECTRIC RADIANT HEAT	N	NEUTRAL	STG2	STAGE 2	VAC	VOLTS ALTERNATING CURRENT
ACU	AIR CONDITIONING UNIT	EP	ELECTRO-PNEUMATIC VALVE	N/A	NOT APPLICABLE	SU	SUPPLY AIR UNIT	VAV	VARIABLE AIR VOLUME BOX
ADA	AMERICAN DISABILITIES ACT	ESW	ETHERNET SWITCH	NC	NORMALLY CLOSED	SV	SOLENOID VALVE	VDC	VOLTS DIRECT CURRENT
AE	ACTUATOR ELECTRIC	EXH	EXHAUST	NEC	NATIONAL ELECTRIC CODE	SW	SWITCH	VFD	VARIABLE FREQUENCY DRIVE
AEM	APOGEE ETHERNET MICROSERVER	EXP	EXPANSION PANEL	NO	NORMALLY OPEN	SYS	SYSTEM	VLV	VALVE
AFF	ABOVE FINISHED FLOOR	F	FAHRENHEIT	NSR	NON SPRING RETURN	TCP/IP	TRANS. CTRL. PROTOCOL/INTERNET PROTOCOL	VOC	VOLATILE ORGANIC COMPOUND SENSOR
AFMS	AIR FLOW MEASURING STATION	F	FAN	OA	OUTSIDE AIR	TE	THERMOSTAT, ELECTRIC	VP	VOLUME PROBE
AHU	AIR HANDLING UNIT	FA	FIRE ALARM	OAD	OUTSIDE AIR DAMPER	TEC	TERMINAL EQUIPMENT CONTROLLER	VSD	VARIABLE SPEED DRIVE
AI	ANALOG INPUT	FACP	FIRE ALARM CONTROL PANEL	OAM	OFFBOARD AIR MODULE	TEMP	TEMPERATURE	VTE	VELOCITY TRANSMITTER ELECTRICAL
ALM	ALARM	FBD	FACE BYPASS DAMPER	OAV	OUTSIDE AIR VOLUME	TERM	TERMINATION	WC	WATER COLUMN
ALN	AREA LEVEL NETWORK	FFL	FACE BYPASS DAMPER	OC	OCCUPANCY SENSOR	TH	THERMOMETER	WFIL	WINTER FILTER
AO	ANALOG OUTPUT	FFM	FINAL FILTER	ODP	OPERATOR DISPLAY PANEL	TI	TRUNK INTERFACE	WHT	WHITE
AOP	ANALOG OUTPUT, PNUEMATIC	FHC	FUME HOOD CONTROLLER	OS	OCCUPANCY SENSOR	TIE	TRUNK ISOLATOR EXTENDER	XDR	TRANSUDCER
ATEC	ACTUATOR TEC	FIL	FILTER	OSA	OUTSIDE AIR	TMR	TIMER, TIME CLOCK	XFMR	TRANSFORMER
AUX	AUXILIARY	FIRE	FIRE ALARM	OSAT	OUTSIDE AIR TEMPERATURE	TP	TWISTED PAIR	Y1	COOLING STAGE 1
AWG	AMERICAN WIRE GAGE	FLN	FIELD LEVEL NETWORK	P	PUMP	TS	TEMPERATURE SWITCH	Y2	COOLING STAGE 2
AZM	AUTOZERO MODULE	FLNC	FLN CONTROLLER	PE	PRESSURE ELECTRIC SWITCH	TSP	TWISTED SHIELDED PAIR		
BAS	BUILDING AUTOMATION SYSTEM	FLTR	FILTER	PHC	PREHEAT COIL	TT	TEMPERATURE TRANSMITTER		
BB	BASE BOARD	FM	FLOW MTR. (FLOW METER STATION)	PHT	PREHEAT TEMP	TTE	TEMPERATURE TRANSMITTER ELECTRIC		
BCM	BUS CONNECTOR MODULE	FS	FLOW SWITCH	PL	PILOT LIGHT	TXIO	TX-I/O FAMILY CONTROLLER MODULES		
BIM	BUS INTERFACE MODULE	FSD	FIRE SMOKE DAMPER	PM	POWER MONITOR	TXM	TRUNK EXPANSION MODULE		
BLDG	BUILDING	FSS	FAN START/STOP	PMP	PUMP				
BLK	BLACK	FT	FEET	PNL	PANEL ENCLOSURE	01	0 01 01		
BLN	BUILDING LEVEL NETWORK	FT	FINNED TUBE	PPM	PARTS PER MILLION				
BLR	BOILER	GND	GROUND	PPM	POINT PICKUP MODULE				
BPD	BYPASS DAMPER	H	HOT	PRES	PRESSURE				
BRN	BROWN	HC	HEAT COIL	PRESS	PRESSURE				
BSP	BUILDING STATIC PRESSURE	HE	HUMIDIFIER ELECTRIC	PS	POWER SUPPLY				
BYP	BYPASS	HHL	HIGH HUMIDITY LIMIT	PSE	POSITION SENSOR ELECTRIC				
C	CLOSED	HL	HIGH HUMIDITY LIMIT	PTE	PROGRAMMABLE ELEC CONTROLLER				
C	COMMON	HMI	HUMAN MACHINE INTERFACE	PTEC	PROGRAMMABLE ELEC CONTROLLER				
C	COMMON	HOA	HAND-OFF-AUTO SWITCH	PTR	PRINTER				
CBL	CABLES	HP	HORSE POWER	PXC	PXC COMPACT CONTROLLER				
CC	COOLING COIL	HSP	HIGH STATIC PRESSURE	PXCC	PX COMPACT CONTROLLER				
CFM	CUBIC FEET PER MINUTE	HTD	HIGH TEMPERATURE DETECTOR	PXCM	PXC-MODULAR CONTROLLER				
CMD	COMMAND	HTE	HUMIDITY TRANSMITTER ELECTRIC	RA	RETURN AIR				
CMP	COMMUNICATIONS PLENUM CABLE	HZ	HERTZ	RAD	RETURN AIR DAMPER				
CO	CARBON MONOXIDE	IAQ	INDOOR AIR QUALITY	RAD	RADIANT				
CO2	CARBON DIOXIDE	I/O	INPUT/OUTPUT	RAH	RETURN AIR HUMIDITY				
COM	COMMON	IN W.C.	INCHES OF WATER COLUMN	RAT	RETURN AIR TEMP				
COMM	COMMUNICATION	ISD	ISOLATION DAMPER	RAV	RETURN AIR BOX				
COMP	COMPUTER	KWM	ELECTRIC KILOWATT METER	RE	RELAY ELECTRIC				
CP	COMPONENT PANEL	LAI	LOGICAL ANALOG INPUT	RF	RELIEF/RETURN FAN				
CPU	CENTRAL PROCESSING UNIT	LAN	LOCAL AREA NETWORK	RDL	RELIEF AIR DAMPER				
CRAC	COMP ROOM AIR CONDITIONING	LAO	LOGICAL ANALOG OUTPUT	RM	ROOM				
CS	CURRENT SENSOR	LBL	LOGICAL DIGITAL INPUT	RMT	ROOM TEMPERATURE				
CTLR	CONTROLLER	LDI	LOGICAL DIGITAL INPUT	RPC	ROOM PRESSURE CONTROLLER				
CTR	CALL TO RUN	LDO	LOGICAL DIGITAL OUTPUT	RPM	ROOM PRESSURE MONITOR				
CUH	CABINET UNIT HEATER	LEA	FAST ACTING ACTUATOR	RSP	RETURN STATIC PRESSURE				
CV	CONSTANT VOLUME	LIC	LICENSE	RTR	ROUTER				
D	DAMPER	LIS	LIQUID LEVEL SWITCH	SA	SUPPLY AIR				
DC	DIRECT CURRENT	LLSV	LIQUID LINE SUCTION VALVE	SAF	SUPPLY AIR FAN				
DCOMM	DIGITAL COMMON	LLT	LIQUID LEVEL TRANS.	SAH	SUPPLY AIR HUMIDITY				
DDC	DIRECT DIGITAL CONTROLS	LPS	LOW PRESSURE SWITCH	SAT	SUPPLY AIR TEMPERATURE				
DEG F	DEGREES FAHRENHEIT	LRC	LAB ROOM CONTROLLER	SAV	SUPPLY AIR BOX				
DEM	DEMAND ENERGY MONITOR	LTD	LOW TEMP. DETECTOR ELECTRIC	SB	SERVICE BOX				
DI	DIGITAL INPUT	LTDE	LOW TEMP. DETECTOR ELECTRIC	SCU	STAND ALONE CONTROL UNIT				
DI	DIGITAL OUTPUT	LVS	LEVEL SWITCH	SD	SMOKE DAMPER				
DO	DIGITAL INPUT	M	MOTOR	SD	SMOKE DETECTOR				
DP	DIFFERENTIAL PRESSURE	M	MILLIAMPS	SF	SUPPLY FAN				
DPS	DIFFERENTIAL PRESSURE SWITCH	mA	MIXED AIR DAMPERS	SFIL	SUMMER FILTER				
DPTC	DIFF. PRESS. TRANSMITTER ELEC.	MAD	MIXED AIR TEMPERATURE	SHLD	SHIELD				
DSP	DISCHARGE STATIC PRESSURE	MAT	MIXED AIR TEMPERATURE	SIC	STATUS INDICATION CLOSED				
DSP	DISPLAY MODULE	MAU	MAKE-UP AIR UNIT	SIG	SIGNAL				
DXR	ROOM AUTOMATION STATION	MAX	MAXIMUM	SIO	STATUS INDICATION OPEN				
EA	EXHAUST AIR	MBC	MODULAR BUILDING CONTROLLER	SNO	SNOW MELT MOISTURE SENSOR				
EAD	EXHAUST AIR DAMPER	MDM	MODEM	SPD	MOTOR SPEED				
EAV	EXHAUST AIR BOX	MEC	MODULAR EQUIPMENT CONTROLLER						

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	11001 BLUGRASS PKWY #320 LOUISVILLE, KY 40299 US PHONE: (502) 267-1571 FAX: (502) 267-0316					ENGINEER AD		CHECKED BY MB	
	SIEMENS INDUSTRY, INC. SMART INFRASTRUCTURE					INITIAL RELEASE 11/18/25		LAST EDIT DATE 11/14/25	
	LEGEND & ABBREVIATIONS					AD		AD	



FLN TSP CABLE SPECIFICATIONS
TWISTED PAIR SHIELD
TWISTED PAIR 24 AWG (STRANDED) 12 PICOFARAD/FT CAPACITANCE OR LESS 4 TWISTS PER FOOT.
SHIELD 100% OVERALL FOIL
PART NUMBERS
ANNIXTER PART NUMBER: H-AF-TSP24LC-CMPBX-P DESCRIPTION: ALN/FLN24AWG,STR,TSP,LOCAP,CMP (FT-6)

FLN 1.5 PAIR CABLE SPECIFICATIONS
TWISTED PAIR REFERENCE WIRE SHIELD
TWISTED PAIR 24 AWG (STRANDED) 11 PICOFARAD/FT CAPACITANCE CONDUCTOR TO CONDUCTOR. 24 PICOFARAD/FT CAPACITANCE CONDUCTOR TO SHIELD. 4 TWISTS PER FOOT.
REFERENCE WIRE 24 AWG (STRANDED), 3 INCH LAY WITH TWISTED PAIR SHIELD
100% OVERALL FOIL WITH DRAIN WIRE
PART NUMBERS
ANNIXTER PART NUMBER: H-A-1.5TSP24LC-CMP-Y DESCRIPTION: 24-1.5PR STR TC FFEP FT6 SHD YEL (FT-6)
CERCO PART NUMBER: 8304R DESCRIPTION: 22AWG 3C STR FT6 ORG (FT-6)

NOTES:

NEVER RUN NETWORK CABLING CLOSER THAN 5 FEET TO A VARIABLE FREQUENCY DRIVE (VFD) EXCEPT AT THE POINT WHERE THE NETWORK MUST CONNECT TO THE VFD. NETWORK ENTRY INTO A VFD MUST BE THROUGH A SEPARATE CONDUIT AND ALL NETWORK WIRING MUST BE KEPT AS FAR AS POSSIBLE FROM HIGH POWER CABLING IN THE DRIVE.

NEVER RUN NETWORK CABLE CLOSER THAN 5 FEET FROM CONDUITS CARRYING 100KVA OR GREATER. ALWAYS CROSS HIGH POWER CABLES (AT A DISTANCE OF 5 FEET) AT A 90° ANGLE.

NETWORK RUN IN OPEN CABLE TRAYS WITH CIRCUITS CARRYING 20 AMPS SHOULD BE NO CLOSER THAN 26 INCHES TO THE HIGHER POWER CABLES.

NETWORK RUN IN ENCLOSED TRAYS WITH CONDUITS CARRYING OVER 20 AMPS SHOULD BE NO CLOSER THAN 18 INCHES TO THE HIGHER POWER CABLES.

REVISION HISTORY

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SIEMENS INDUSTRY, INC.
SMART INFRASTRUCTURE

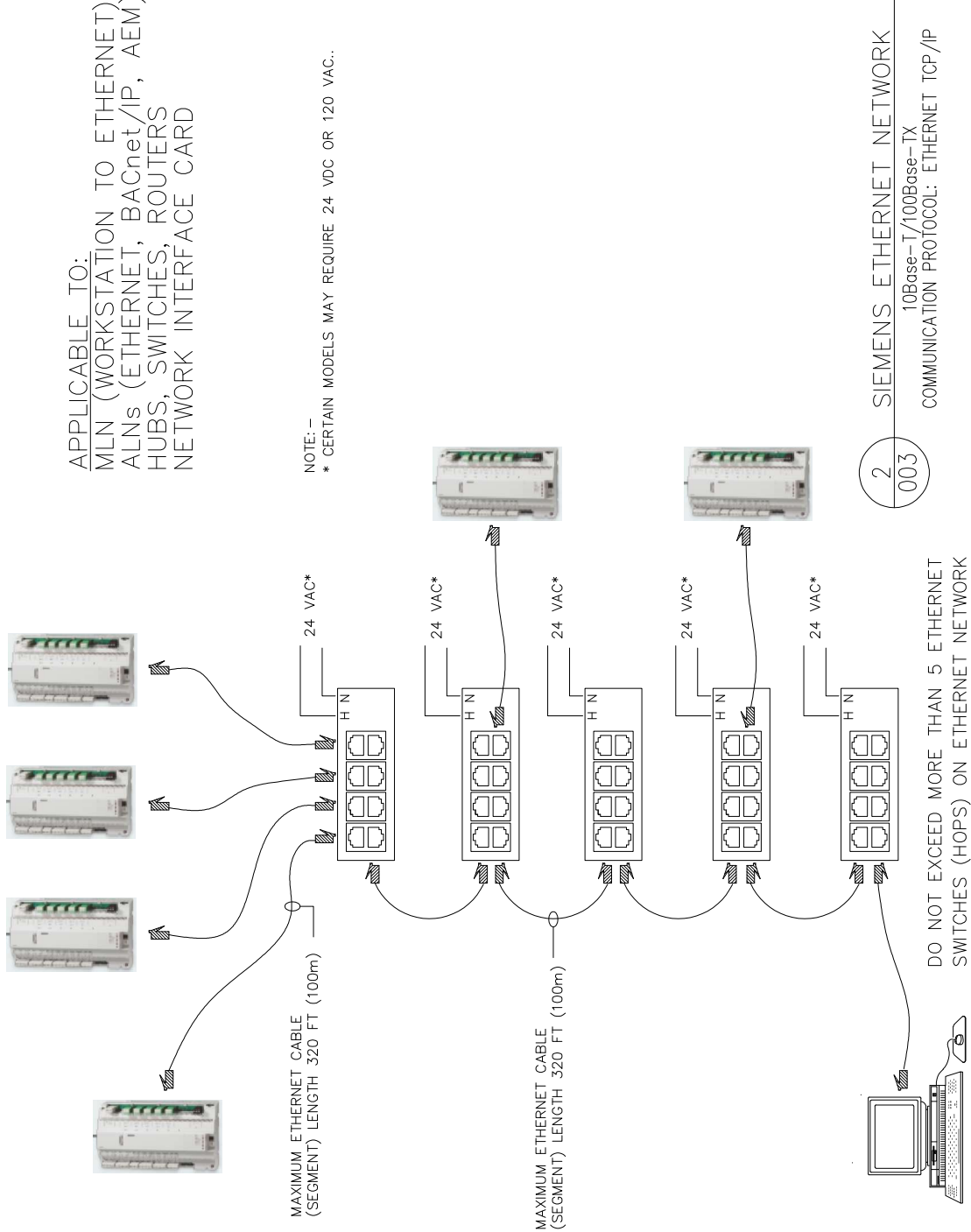
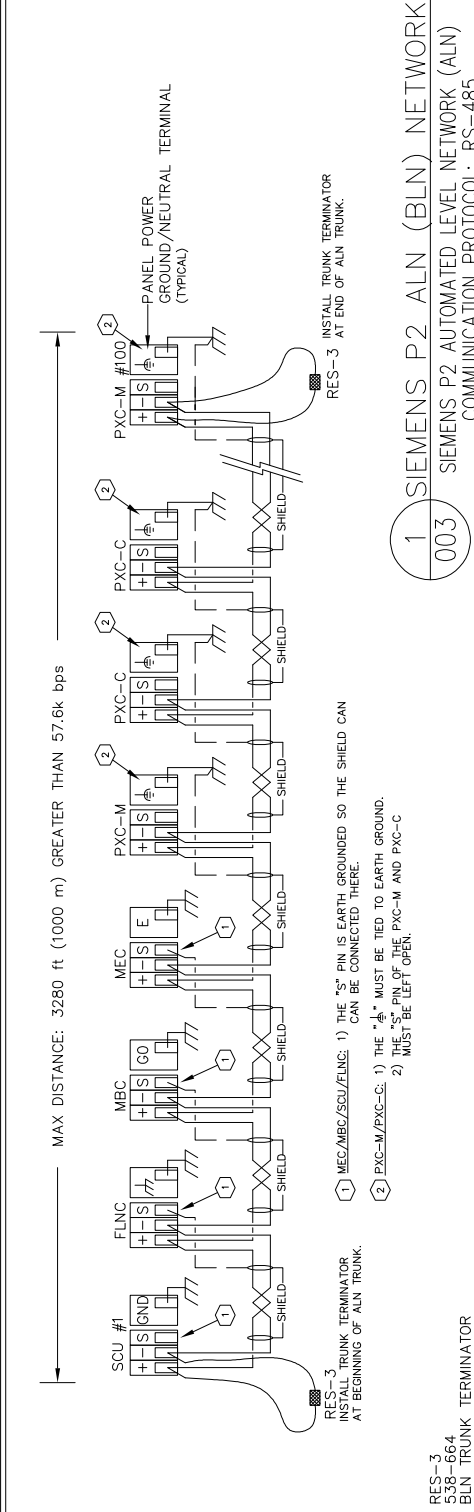
IUSE WOODLAND LODGE
NEW ALBANY, IN

440P-406822

ENGINEER	DRAFTER	CHECKED BY	INITIAL RELEASE	LAST EDIT DATE
AD	AD	MB	11/18/25	11/14/25

FLN / MSTP COMMUNICATION

002



REVISION HISTORY

SIEMENS

SIEMENS INDUSTRY, INC.
SMART INFRASTRUCTURE

11001 BLUGRASS PKWY
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LOUISVILLE, KY 40299
US
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ALN ETHERNET CABLE SPECIFICATIONS	
	TWISTED PAIR
	TWISTED PAIR
	TWISTED PAIR
	TWISTED PAIR
4. UNSHIELDED, TWISTED PAIR (UTP)	
24 AWG (SOLID)	
17 PICOFARAD/FT CAPACITANCE AT 1KHz, 1MHz	
IEEE802.3 CATEGORY 5 CERTIFIED OR BETTER	
SHIELD	
NONE	
PART NUMBERS	
PLEASE REFER TO CERCO AND ANIXTER CABLE PART NUMBERS (SEE DRAWINGS 6A & 6B).	

ALN TSP CABLE SPECIFICATIONS	
	TWISTED PAIR
	TWISTED PAIR
	TWISTED PAIR
	TWISTED PAIR
TWISTED PAIR	
24 AWG (STRANDED)	
12 PICOFARAD/FT CAPACITANCE OR LESS	
4 TWISTS PER FOOT.	
SHIELD	
100% OVERALL FOIL	
PART NUMBERS	
PLEASE REFER TO CERCO AND ANIXTER CABLE PART NUMBERS (SEE DRAWINGS 6A & 6B).	

NOTES:

NEVER RUN NETWORK CABLING CLOSER THAN 5 FEET TO A VARIABLE FREQUENCY DRIVE (VFD) EXCEPT AT THE POINT WHERE THE NETWORK MUST CONNECT TO THE VFD. NETWORK ENTRY INTO A VFD MUST BE THROUGH A SEPERATE CONDUIT AND ALL NETWORK WIRING MUST BE KEPT AS FAR AS POSSIBLE FROM HIGH POWER CABLING IN THE DRIVE.

NEVER RUN NETWORK CABLE CLOSER THAN 5 FEET FROM CONDUITS CARRYING 100KVA OR GREATER. ALWAYS CROSS HIGH POWER CABLES (AT A DISTANCE OF 5 FEET) AT A 90° ANGLE.

NETWORK RUN IN OPEN CABLE TRAYS WITH CIRCUITS CARRYING 20 AMPS SHOULD BE NO CLOSER THAN 26 INCHES TO THE HIGHER POWER CABLES.

NETWORK RUN IN ENCLOSED TRAYS WITH CONDUITS CARRYING OVER 20 AMPS SHOULD BE NO CLOSER THAN 18 INCHES TO THE HIGHER POWER CABLES.

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BLN / ALN COMMUNICATION

440P-406822

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- DRAWING NOTES:
- #

1. EQUIPMENT IS PROVIDED AND WIRED BY THE UNIT MANUFACTURER. THE SIEMENS ELECTRICAL SUBCONTRACTOR MUST FIELD VERIFY ALL LOW VOLTAGE FACTORY WIRING USING THE DIAGRAMS PROVIDED BY THE UNIT MANUFACTURER.

2. UNIT MANUFACTURER PROVIDED CONTROLLER. SIEMENS WILL PROVIDE BACNET MS/TP INTEGRATION FOR MONITORING AND CONTROL. BACNET POINT LIST NEED TO BE FIELD VERIFIED WITH SIEMENS SPECIALIST.

3. REFER COMMUNICATION RISER AND FLN SCHEDULE FOR NETWORK AND CONFIGURATION DETAILS.

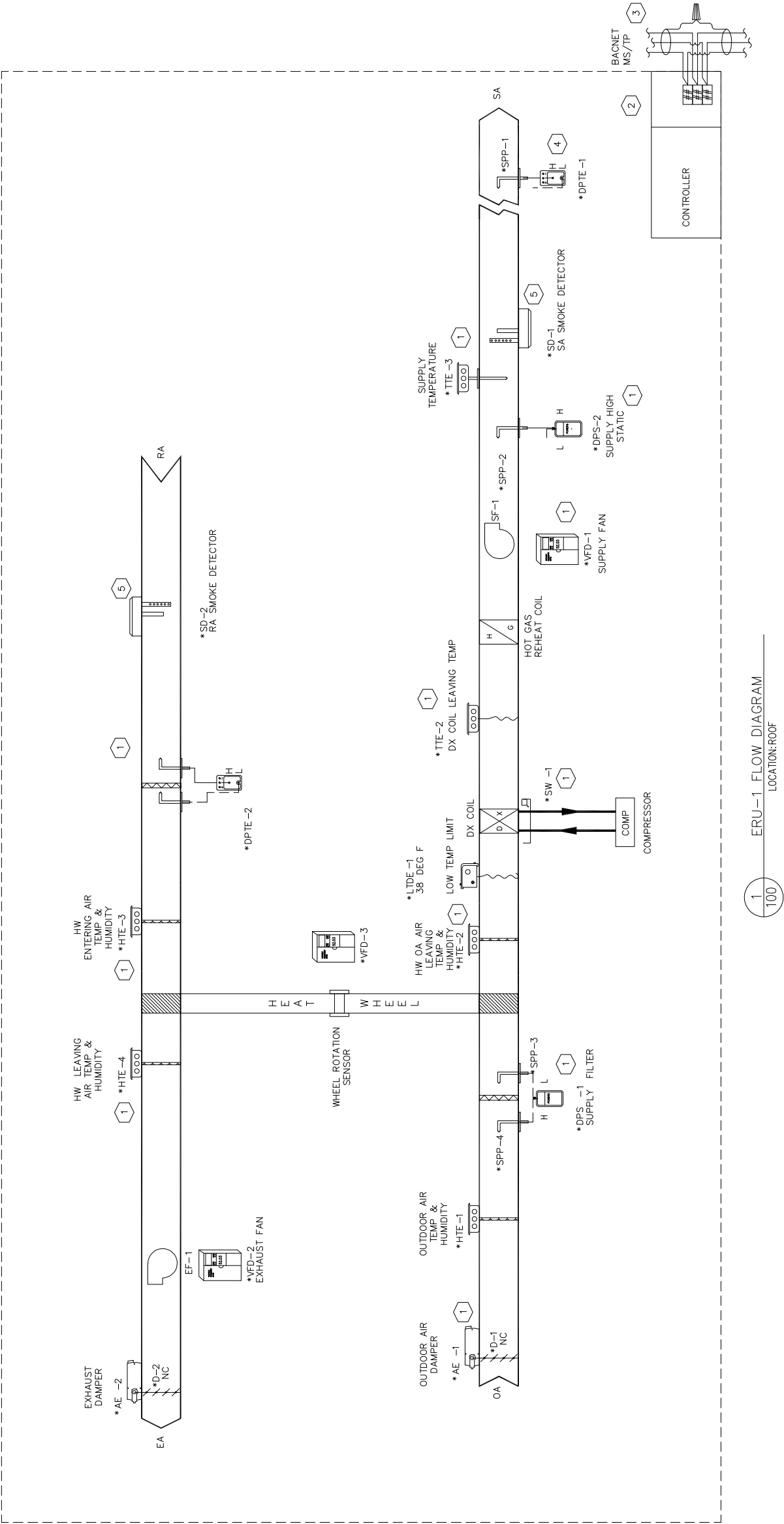
4. MOUNT STATIC PROBE AND SENSOR 2/3 DOWN LONGEST OR CRITICAL DUCT. REFERENCE LOW SIDE TO SPACE. FIELD TO DETERMINE THE LOCATION OF THE STATIC PRESSURE SENSOR. WIRED BY SIEMENS

5. PROVIDE AND INSTALLED BY OTHERS. INTERLOCK WIRING TO UNIT MANUFACTURE PROVIDED CONTROLLER BY SIEMENS.
- GENERAL NOTES:

3. ALL THE SENSORS AND DEVICES REPRESENTATION SHOWN FOR REFERENCE ONLY. EXACT DETAILS TO BE FIELD COORDINATED.

4. "*" DENOTES DEVICES PROVIDED BY UNIT MANUFACTURER.

NOTE: ALL POINTS MONITORED BY DDC SYSTEM VIA A MANUFACTURER SUPPLIED BACNET CONTROLLER



REVISION HISTORY

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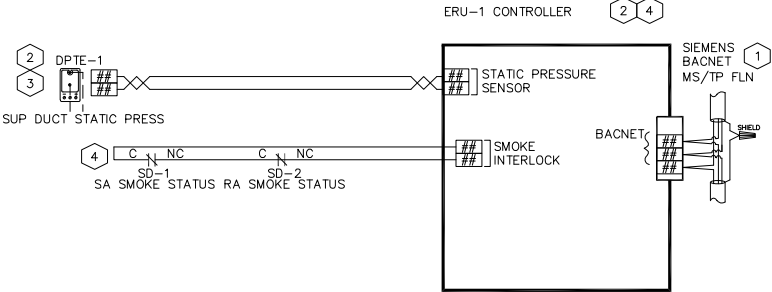
IUSE CAMPUS LODGES DESIGN
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ERU-1 FLOW DIAGRAM

440P-406822

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FIELD WIRING		COMPONENT PANEL / POWER	FIELD PANEL
 ERU-1 WIRING DIAGRAM DRAWING NOTES: 1 REFER COMMUNICATION RISER DRAWING (DWG-001) FOR FLN NETWORK CONFIGURATION AND ADDRESSING. 2 DEVICE PROVIDED BY UNIT MANUFACTURER, WIRED BY SIEMENS. 3 TERMINAL DETAILS NEED TO BE FIELD VERIFIED. 4 SIEMENS TO CO-ORDINATE WITH ELECTRICAL SUB CONTRACTOR FOR WIRING DETAILS.			

REVISION HISTORY

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ERU-1 WIRING DIAGRAM

440P-406822

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NOTES:
THE UNIT MANUFACTURER SHALL BE RESPONSIBLE FOR THE FOLLOWING SEQUENCE OF OPERATIONS: SIEMENS SHALL INSTALL AND WIRE ALL DEVICES THAT ARE PROVIDED LOOSE BY THE UNIT MANUFACTURER, STRICTLY IN ACCORDANCE WITH THE WIRING DIAGRAMS AND INSTALLATION METHODS SUPPLIED BY THE UNIT. ALL WIRING SHALL BE DETERMINED AND VERIFIED ON-SITE PRIOR TO FINAL TERMINATION.

DOAS CONSTANT AIR VOLUME (100% OUTSIDE AIR) PACKAGED ROOFTOP UNIT WITH ENERGY RECOVERY WHEEL (ERU-1) SEQUENCE OF OPERATION:

ERU SHALL BE CONTROLLED BY A DEDICATED DIGITAL CONTROLLER. THIS CONTROLLER SHALL BE CONNECTED TO THE BUILDING TEMPERATURE CONTROL NETWORK. THE CONTROLLER SHALL BE PROVIDED BY THE RTU MANUFACTURER AND SHALL BE APPLICATION SPECIFIC. THE RTU SHALL COMMUNICATE TO THE NEW FACILITY MANAGEMENT SYSTEM TEMPERATURE CONTROL PANEL USING BACNET MS/TP. COORDINATE CONNECTION TO BUILDING LAN WITH OWNER. FACILITY MANAGEMENT SYSTEM SHALL BE CAPABLE OF COMMUNICATION OVER LAN USING BACNET.

ERU SHALL BE CONTROLLED BY A DEDICATED DIGITAL CONTROLLER. THIS CONTROLLER SHALL BE CONNECTED TO THE BUILDING TEMPERATURE CONTROL NETWORK. THE CONTROLLER SHALL BE PROVIDED BY THE ERU MANUFACTURER AND SHALL BE APPLICATION SPECIFIC. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.

T.C.C. SHALL INTERLOCK WITH FIRE ALARM SYSTEM TO SHUT DOWN UNIT UPON DETECTION OF SMOKE. TYPICAL FOR UNITS WITH SMOKE DETECTION. COORDINATE WITH ELECTRICAL CONTRACTOR.

PACKAGED ENERGY RECOVERY UNIT SEQUENCE OF OPERATION:

THE PACKAGED ENERGY RECOVERY UNIT (ERU) SHALL BE CONTROLLED BY A DEDICATED DIGITAL CONTROLLER. THE CONTROLLER SHALL BE APPLICATION SPECIFIC FOR USE WITH PACKAGED EQUIPMENT.

ERU SHALL OPERATE IN OCCUPIED OR UNOCCUPIED MODE BASED ON THE OCCUPANCY SCHEDULE. THE OCCUPANCY SCHEDULE SHALL BE ADJUSTABLE AT THE OPERATOR INTERFACE.

DURING UNOCCUPIED MODE, ERU SHALL BE OFF. THE OUTSIDE AIR DAMPER SHALL BE CLOSED DURING UNOCCUPIED MODE. DURING OCCUPIED MODE, THE ERU SUPPLY FAN AND EXHAUST FAN SHALL RUN CONTINUOUSLY AND AS DESCRIBED BELOW. OUTSIDE AIR DAMPER SHALL BE 100% OPEN.

THE DX COOLING AND ENERGY RECOVERY WHEEL SPEED SHALL BE MODULATED IN SEQUENCE TO MAINTAIN COOLING COIL LEAVING AIR TEMPERATURE BETWEEN 50 DEGREES F (ADJ) AND 52 DEGREES F (ADJ). GAS HEAT OR HOT GAS REHEAT SHALL MODULATE TO MAINTAIN UNIT SUPPLY AIR TEMPERATURE BETWEEN 70 DEGREES F (ADJ) AND 72 DEGREES F (ADJ). THE HEATING AND COOLING SHALL NOT OPERATE SIMULTANEOUSLY.

THE UNIT MODE OF OPERATION SHALL BE BASED ON OUTDOOR AIR TEMPERATURE AND OUTDOOR AIR DEWPOINT TEMPERATURE.

THE ENERGY RECOVERY WHEEL SHALL BE ENABLED AND SHALL MODULATE TO MAINTAIN COOLING COIL LEAVING AIR TEMPERATURE SETPOINTS. THE ENERGY RECOVERY WHEEL SHALL BE DISABLED BASED ON DIFFERENTIAL ENTHALPY BETWEEN OUTDOOR AIRSTREAM AND THE EXHAUST AIRSTREAM. THE ENERGY RECOVERY WHEEL SHALL BE DISABLED IF OUTDOOR AIR AND EXHAUST AIR CONDITIONS DO NOT ALLOW ENERGY RECOVERY.

THE UNIT LEAVING AIR TEMPERATURE SETPOINT SHALL BE RESET BASED ON OUTDOOR AIR TEMPERATURE.

THE CONTROLLER SHALL MODULATE THE ENERGY RECOVERY WHEEL SPEED TO CONTROL CAPACITY AND TO PREVENT FROST FROM ACCUMULATING ON THE WHEEL.

SAFETIES:

ERU SHALL BE STOPPED AND AN ALARM GENERATED AT THE OPERATOR INTERFACE WHENEVER A SAFETY DEVICE IS TRIPPED. SAFETY DEVICES SHALL CONSIST OF LOW TEMPERATURE DETECTION THERMOSTATS. ALL SAFETY DEVICES SHALL BE HARDWIRED.

ALARMS:

- EXHAUST FAN FAILURE
- WHEEL FAILURE
- SUPPLY FAN FAILURE
- COOLING FAILURE

REVISION HISTORY

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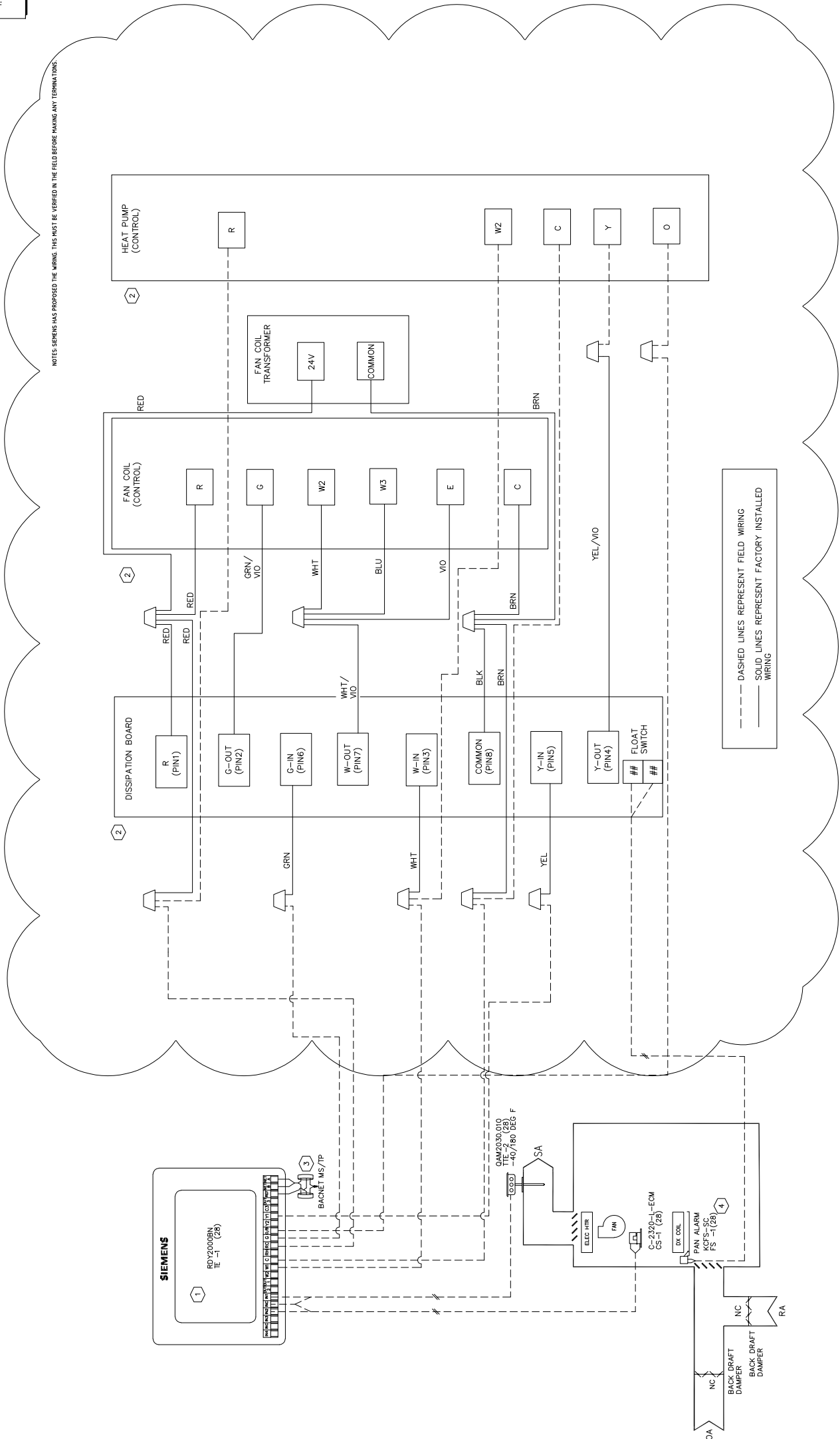
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ERU-1 SEQ

44OP-406822
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- DRAWING NOTES:** 
1. WSPH UNITS ARE BEING PROVIDED WITH TERMINAL STRIP FOR CONTROLLER. SEMI-INS WILL WIRE TO RHT, THERMOSTAT AND THERMOSTAT WIRE TO THERMOSTAT. WIRE TO THERMOSTAT MECHANICAL DMC M101 FOR THERMOSTAT LOCATION.
 2. ALL TERMINALS NEED TO BE VERIFIED IN FIELD BEFORE FINAL TERMINAL WITH WIRING MANIPULATOR.
 3. WIRING DIAGRAMS, TERMINAL DETAILS NOT PROVIDED AT THE TIME OF DESIGN.
 3. REFER RISER DIAGRAM FOR BACNET MSTRP COMMUNICATION DETAILS.
 4. CONSERVATIVE OVER FLOW SWITCH PROVIDED BY SUBURBS AND WREED TO UNIT MANUFACTURER. CONTROLLER TERMINATION DETAILS TO UNIT TO BE DETERMINED.

Control Device	Qty	Product Number	Manufacturer	Document Number	Description
Field Mounted Devices					
CS 1	28	C-2320-L-ECM	SENVA	N/A	0.25-200A ADJ CURRENT SWITCH FOR ECM
FS 1	28	KCFS-SC	KELE INC	N/A	SPDT FLOAT SWITCH W/SPRING CLIP
RE 1	28	RIBU1C	FUNCTIONAL DEVICES	1208cut013	RIB 120VAC 24VAC/DC SPDT
TE 1	28	RDY2000BN	SIEMENS	N/A	BACNET RTU THERMOSTAT
TTE 2	28	QAM2030.010	SIEMENS	149915	DUCT POINT TEMP, 10K OHM TYPE 2, 4"

AIR HANDLING UNIT/CONDENSING UNIT SEQUENCE OF OPERATION:

SPLIT SYSTEM SHALL BE CONTROLLED BY A DEDICATED DIGITAL CONTROLLER. THIS CONTROLLER SHALL BE CONNECTED TO THE BUILDING TEMPERATURE CONTROL NETWORK. THE CONTROLLER SHALL BE PROVIDED BY T.C.C. AND SHALL BE APPLICATION SPECIFIC. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.

CONTROLLER SHALL STAGE HEATING AND COOLING AS REQUIRED TO MAINTAIN ZONE TEMPERATURE.

MONITOR ZONE HUMIDITY AND ALARM

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SMART INFRASTRUCTURE

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- DRAWING NOTES:

#
1.

HIGH VOLTAGE POWER WIRING BY OTHERS. SIEMENS WILL PROVIDE LOW VOLTAGE INTERLOCK WIRING AND ALL TERMINATIONS TO BE FIELD COORDINATED. SHOWN FOR REFERENCE ONLY.
2.

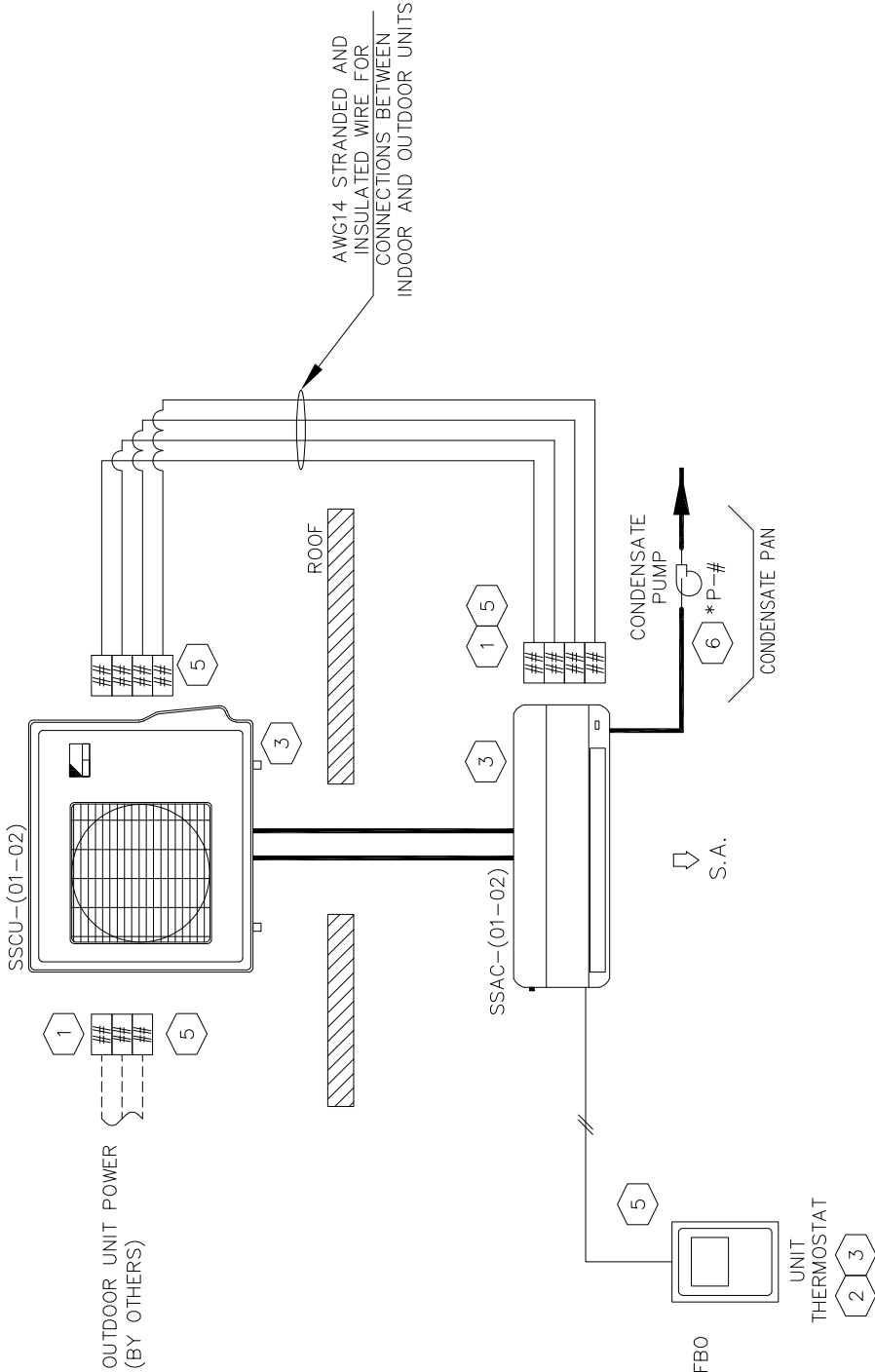
MANUFACTURER PROVIDED THERMOSTAT MODEL TO BE FIELD VERIFIED.
3.

UNITS AND ACCESSORIES FURNISHED BY OTHERS. LOCATE AS SHOWN ON PLANS/CONTRACT DOCUMENTS DWG M101.
5.

TERMINAL DETAILS WILL BE FIELD VERIFIED.
6.

FURNISHED AND WIRED BY OTHERS.
- GENERAL NOTES:

1. FBO MEANS FURNISHED BY OTHERS.



SLNO	SPLIT SYSTEM TAG	LOCATION
1	SSAC-1	198M
2	SSAC-2	130A

1

DUCTLESS SPLIT SYSTEM

FIRST FLOOR

501

TYPICAL OF QUANTITY (2)

REF #	FIELD PANEL NAME	FIELD PANEL NODE NAME
001	WL.PXC1	

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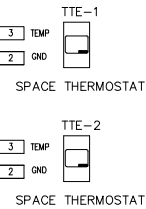
DUCTLESS SPLIT SYSTEM

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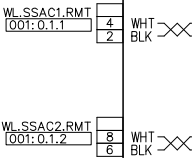
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GENERAL NOTES:
1. ALL WIRING TO MEET REQUIREMENTS OF
STANDARD WIRING SPECIFICATION DRAWINGS.

FIELD WIRING



COMPONENT PANEL / POWER



FIELD PANEL

REF.# FIELD PANEL NAME

001 IUSE.WL.PXC1

FIELD PANEL NODE NAME

REVISION HISTORY

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DUCTLESS SPLIT SYSTEM WIRING

440P-406822
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Control Device	Qty	Product Number	Manufacturer	Document Number	Description
Field Mounted Devices					
TTE 1-2	2	QAA2212.ESN	SIEMENS	149708	RTS, 1K OHM PT (385), BLANK FRONT

SPLIT SYSTEM

SPLIT SYSTEM COOLING ONLY UNITS SHALL OPERATE ON ITS FACTORY SUPPLIED CONTROLS TO CYCLE DX COOLING TO MAINTAIN ZONE SETPOINT OF 75°F (ADJ). UNIT TO BE SUPPLIED WITH WALL MOUNT THERMOSTAT.

REVISION HISTORY

IUSE WOODLAND LODGE NEW ALBANY, IN					
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DUCTLESS SPLIT SYSTEM BOM & SEQ					

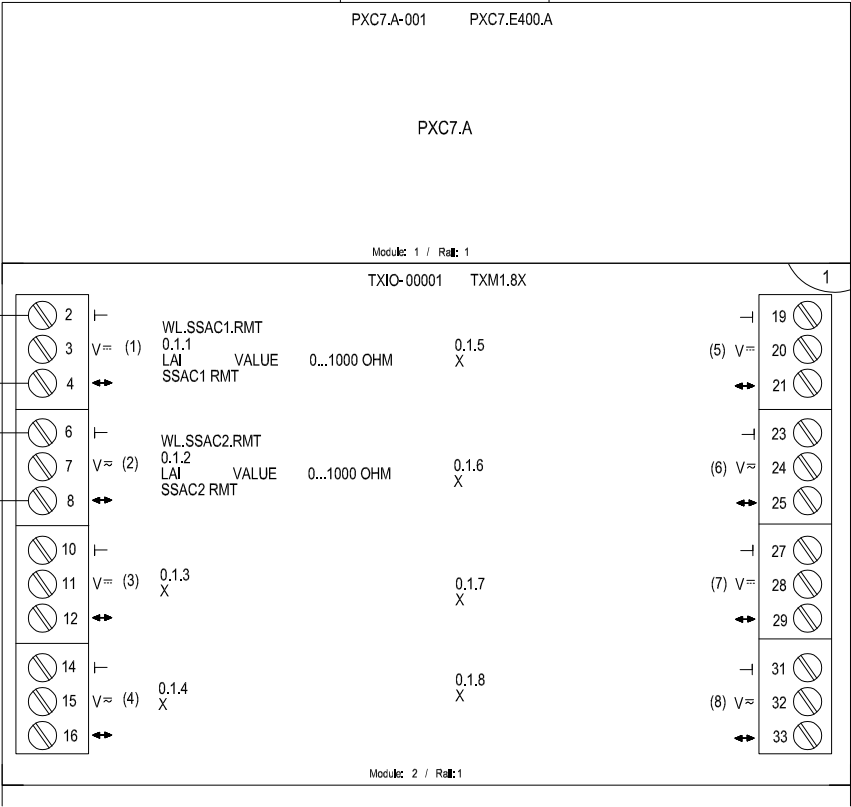
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WL.PXC1 PANEL LAYOUT

440P-406822
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NO1

Control Device	Qty	Product Number	Manufacturer	Document Number	Description
Field Mounted Devices					
PNL 1	1	PXA-ENC19	SIEMENS	149475	ENCLOSURE ASSY 19"
	1	PXA-SB115V192VA	SIEMENS	588783	SERVICE BOX 115V, 24VAC, 192VA
Panel Mounted Devices					
PXC7 001	1	PXC7.E400.A	SIEMENS	N/A	PXC7.E400.A Modular, BACnet, APOGEE
	1	TXA1.K24	SIEMENS	149476	@ADDRESS KEY 1-24
	1	TXM1.8X	SIEMENS	149476	8 UNIV I/O MODULE W/ 4-20MA

REVISION HISTORY		SIEMENS		11001 BLUGRASS PKWY #320 LOUISVILLE, KY 40299 US PHONE: (502) 267-1571 FAX: (502) 267-0316		IUSE WOODLAND LODGE NEW ALBANY, IN		440P-406822 0	
		SEMENS INDUSTRY, INC. SMART INFRASTRUCTURE				ENGINEER AD DRAFTER AD CHECKED BY MB INITIAL RELEASE 11/18/25 LAST EDIT DATE 11/18/25		NO1A	
						WL.PXC1 PANEL BOM			

N01A

Anixter Building Automation Cables

Non-Plenum

SBT Part Number	Description	Print Legend
H-TP20-CM	20AWG,STR,1TP,CM,BLUE JACKET	NORTHFLEX® H-TP20-CM "DI, DO, AI, AO" (Mfg E#) 20AWG 1P 75°C CM (UL) C(UL)
H-3C20-CM	20AWG,STR,3COND,CM,BLUE JACKET	NORTHFLEX® H-3C20-CM "TEC VID" (Mfg E#) 20 AWG 3C 75°C CM (UL) C(UL)
H-TP18-CMR	18AWG,STR,1TP,CMR,BLUE JACKET	NORTHFLEX® H-TP18-CMR "DI, DO, AI, AO" (Mfg E#) 18AWG 1P 75°C CMR (UL) C(UL)
H-3C18-CMR	18AWG,STR,3COND,CMR,BLUE JACKET	NORTHFLEX® H-3C18-CMR "TEC VID" (Mfg E#) 18 AWG 3C 75°C CMR (UL) C(UL)
H-2C14-CL3R	14AWG,STR,2COND,CL3R,DARK BLUE JACKET	H-2C14-CL3R "LV POWER" (Mfg E#) 14 AWG 2C 75°C CL3R (UL) C(UL)
H-B-TSP24LC-CM	BLN24AWG,STR,TSP,LOCAP,CM,ORANGE JACKET	H-B-TSP24LC-CM "BLN" (Mfg E#) 24 AWG 1P 75°C CM (UL) C(UL)
H-F-TSP24LC-CM	FLN24AWG,STR,TSP,LOCAP,CM,ORANGE JACKET W/ BLUE STRIPE	NORTHFLEX® H-F-TSP24LC-CM "FLN" (Mfg E#) 24 AWG 1P 75°C CM (UL) C(UL)
H-3P24-CMR	24AWG,SOL,3P,CMR,BLUE JACKET	NORTHFLEX® H-3P24-CMR "TEC STAT" (Mfg E#) 24 AWG 3P 75°C CMR (UL) C(UL)
LON-1P22-CM	22AWG,STR,1PAIR,CM,ORANGE JACKET W/ WHITE STRIPE	NORTHFLEX® LON-1P22-CM "LON FLN" (Mfg E#) 22AWG 1P 750 C CM (UL) C(UL)
LON-2P22-CM	22AWG,STR,2PAIR,CM,ORANGE JACKET W/ WHITE STRIPE	NORTHFLEX® LON-2P22-CM "LON FLN" (Mfg E#) 22AWG 2P 750 C CM (UL) C(UL)
LON-1PS22-CM	22AWG,STR,1PAIR,OAS,CM,ORANGE JACKET W/ WHITE STRIPE	NORTHFLEX® LON-1PS22-CM "LON FLN" (Mfg E#) 22AWG 1P 750 C CM (UL) C(UL)
LON-2PS22-CM	22AWG,STR,2PAIR,OAS,CM,ORANGE JACKET W/ WHITE STRIPE	NORTHFLEX® LON-2PS22-CM "LON FLN" (Mfg E#) 22AWG 2P 750 C CM (UL) C(UL)
E-4TP24CAT5-CM	24AWG,SOL,4TP,CAT5,CM	NORTHFLEX® E-4TP24CAT5-CM "ETHERNET" (Mfg E#) 24AWG 4P 750 C CM (UL) C(UL)
H-A-1.5TSP24LC-CM	ALN485, 24AWG, STR, TP+1C, OAS, LOCAP, CM	NORTHFLEX® H-A-1.5TSP24LC-CM "ALN485" 24 AWG 1P+1C 75°C CM (UL) C(UL) (Mfg E#)
H-F-1.5TSP24LC-CM	FLN485, 24AWG, STR, TP+1C, OAS, LOCAP, CM	NORTHFLEX® H-A-1.5TSP24LC-CM "FLN485" 24 AWG 1P+1C 75°C CM (UL) C(UL) (Mfg E#)

Plenum

SBT Part Number	Description	Print Legend
H-TP20-CMP	20AWG,STR,1TP,CMP,BLUE JACKET	NORTHFLEX® H-TP20-CMP "DI, DO, AI, AO" (Mfg E#) 20 AWG 2C 75°C CMP (UL) C(UL)
H-3C20-CMP	20AWG,STR,3COND,CMP,BLUE JACKET	NORTHFLEX® H-3C20-CMP "TEC VID" (Mfg E#) 20 AWG 3C 75°C CMP (UL) C(UL)
H-TP18-CMP	18AWG,STR,1TP,CMP,BLUE JACKET	NORTHFLEX® H-TP18-CMP "DI, DO, AI, AO" (Mfg E#) 18 AWG 2C 75°C CMP (UL) C(UL)
H-3C18-CMP	18AWG,STR,3COND,CMP,BLUE JACKET	NORTHFLEX® H-3C18-CMP "TEC VID" (Mfg E#) 18 AWG 3C 75°C CMP (UL) C(UL)
H-2C14-CL3P	14AWG,STR,2COND,CL3P,DARK BLUE JACKET	NORTHFLEX® H-2C14-CL3P "LV POWER" (Mfg E#) 14 AWG 2C 75°C CL3P (UL) C(UL)
H-B-TSP24LC-CMP	BLN24AWG,STR,TSP,LOCAP,CMP,ORANGE JACKET	NORTHFLEX® H-B-TSP24LC-CMP "BLN" (Mfg E#) 24 AWG TSP 75°C CMP (UL) C(UL)
H-F-TSP24LC-CMP	FLN24AWG,STR,TSP,LOCAP,CMP,ORANGE JACKET W/ BLUE STRIPE	NORTHFLEX® H-F-TSP24LC-CMP "FLN" (Mfg E#) 24 AWG TSP 75°C CMP (UL) C(UL)
H-3P24-CMP	24AWG,SOL,3PAIR,CMP,BLUE JACKET	NORTHFLEX® H-3P24-CMP "TEC STAT" (Mfg E#) 24 AWG 3P 75°C CMP (UL) C(UL)
LON-1P22-CMP	22AWG,STR,1PAIR,CMP,ORANGE JACKET W/ WHITE STRIPE	NORTHFLEX® LON-1P22-CMP "LON FLN" (Mfg E#) 22AWG 1P 750 C CMP (UL) C(UL)
LON-2P22-CMP	22AWG,STR,2PAIR,CMP,ORANGE JACKET W/ WHITE STRIPE	NORTHFLEX® LON-2P22-CMP "LON FLN" (Mfg E#) 22AWG 2P 750 C CMP (UL) C(UL)
LON-1PS22-CMP	22AWG,STR,1PAIR,OAS,CMP,ORANGE JACKET W/ WHITE STRIPE	NORTHFLEX® LON-1PS22-CMP "LON FLN" (Mfg E#) 22AWG 1P 750 C CMP (UL) C(UL)
LON-2PS22-CMP	22AWG,STR,2PAIR,OAS,CMP,ORANGE JACKET W/ WHITE STRIPE	NORTHFLEX® LON-2PS22-CMP "LON FLN" (Mfg E#) 22AWG 2P 750 C CMP (UL) C(UL)
E-4TP24CAT5-CMP	24AWG,SOL,4TP,CAT5,CMP	NORTHFLEX® E-4TP24CAT5-CMP "ETHERNET" (Mfg E#) 24AWG 4P 750 C CMP (UL)
H-A-1.5TSP24LC-CMP	ALN485, 24AWG, STR, TP+1C, OAS, LOCAP, CMP	NORTHFLEX® H-A-1.5TSP24LC-CM "ALN485" 24 AWG 1P+1C 75°C CM (UL) C(UL) (Mfg E#)
H-F-1.5TSP24LC-CMP	FLN485, 24AWG, STR, TP+1C, OAS, LOCAP, CMP	NORTHFLEX® H-A-1.5TSP24LC-CM "FLN485" 24 AWG 1P+1C 75°C CM (UL) C(UL) (Mfg E#)

Assemblies

Part Number	Description	Print Legend
550-827	CABLE ASSEMBLY TEC TO SSB 3 POS 10 FT	N
550-828	CABLE ASSEMBLY TEC TO SSC 3 POS 10 FT	N
B6320FE	18AWG, SOL, 2COND,CMP, WHITE JACKET	BELDEN 6330FE CMP 75C 2C18 Shielded (UL) E108998-M C(UL) 2801 2008 158 ROHS (UL)

REVISION HISTORY

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SIEMENS INDUSTRY, INC.
SMART INFRASTRUCTURE

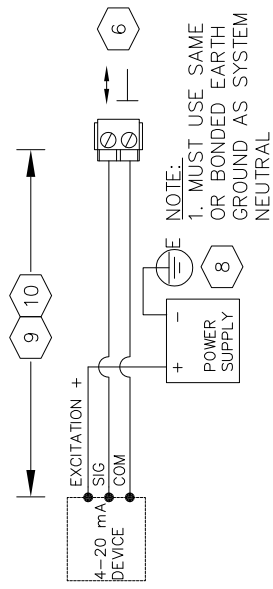
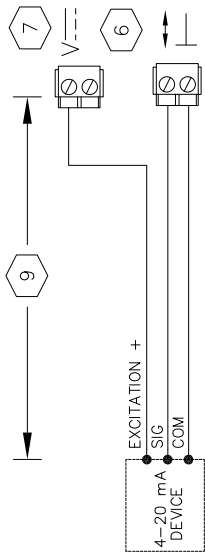
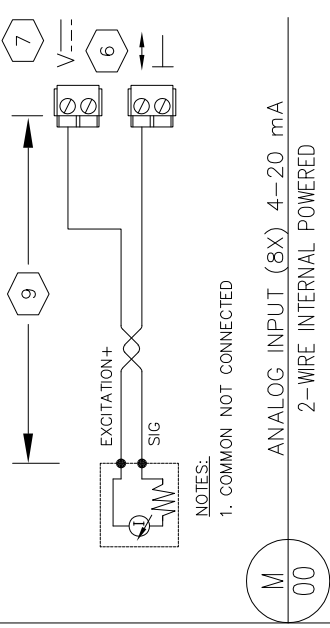
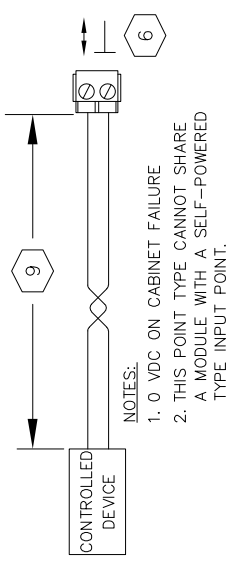
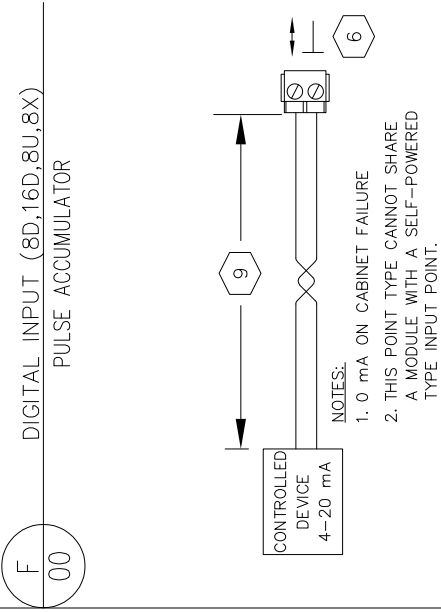
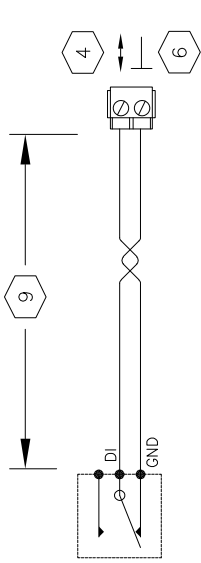
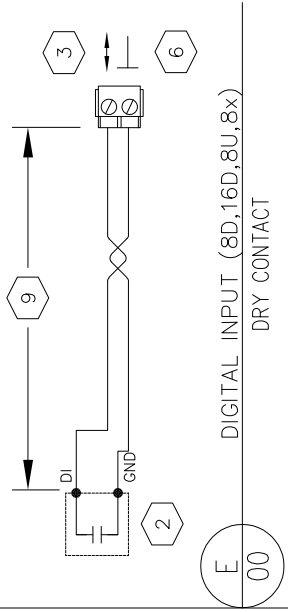
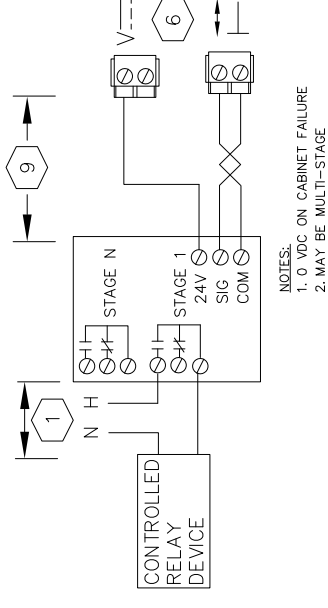
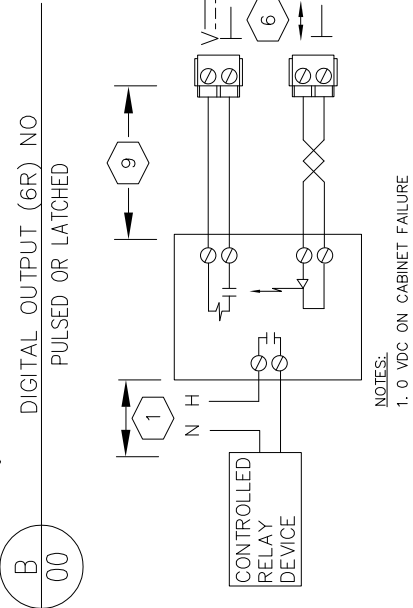
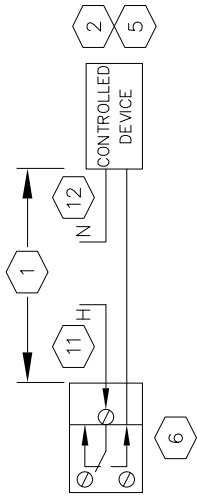
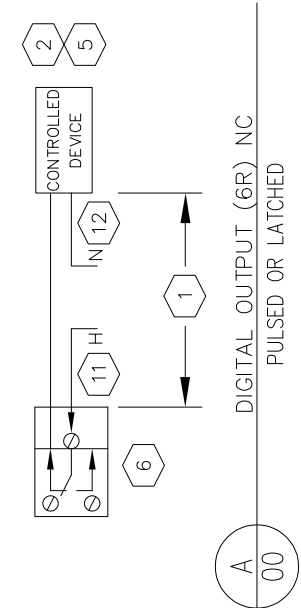
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ENGINEER	DRAFTER	CHECKED BY	INITIAL RELEASE	LAST EDIT DATE
AD	AD	MB	11/18/25	11/14/25

ANIXTER BUILDING AUTO. CABLES

440P-406822
0

ABAC



NOTES:

1 MAXIMUM WIRE RUN LENGTHS ARE BASED ON THE CURRENT DRAW AND WIRE GAGE. SEE DRAWING TWIR.

2 SEE CONTROL DRAWINGS FOR NORMAL DE-ENERGIZED CONTACT STATE

3
MAXIMUM CONTACT CLOSURE RATE IS
10 PER SECOND

8D, 16d EXCITATION = 24VDC, 8mA
8U, 8X EXCITATION = 24VDC, 8mA,
20ms, 100mA

8D, 16D MAXIMUM PULSE RATE = 10Hz
(50ms PER STATE, 100ms PER PULSE)

8U, 8X MAXIMUM PULSE RATE = 20Hz
(25ms PER STATE, 50ms PER PULSE)

PXC MODULAR DO CONTACT RATINGS

AC OPERATION:
4A @ 240VAC (RESISTIVE)
3A @ 240VAC (INDUCTIVE)
SIZE 4 MOTOR STARTER

DC OPERATION:
40W @ < 50VDC
20W @ > 50VDC

REFER TO PXC MODULAR PANEL FOR
ACTUAL POINT ADDRESSES. REFER TO
TXMI TERMINATION TABLES FOR ACTUAL
TERMINALS FOR EACH PANEL ADDRESS.
COMMON TERMINAL MAY BE SHARED BY
2 POINTS.

REFER TO DRAWING P1 ON TWR FOR
MAXIMUM CURRENT PROVIDED BY THE
24VDC SENSOR SUPPLY ON P1 BIM OR
BUS POWER SUPPLY

EXTERNAL POWER SUPPLY CAN EITHER BE A 24VDC POWER SUPPLY OR A 24VAC TRANSFORMER DEPENDING ON THE SENSOR SELECTED. IF NOT AN ISOLATED NC CLASS 2 CIRCUIT THEN POWER SOURCE, NEUTRAL AND PXC MODULAR COMMON MUST BE BOTH CONNECTED TO THE SAME OR BONDED BUILDING APPROVED EARTH GROUND. FOR FURTHER DETAILS SEE EARTH GROUNDING RULES (125—3002) APOGEE WIRING GUIDELINES FOR FIELD PANELS AND EQUIPMENT CONTROLLERS.

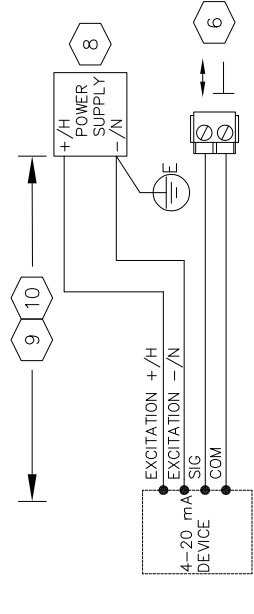
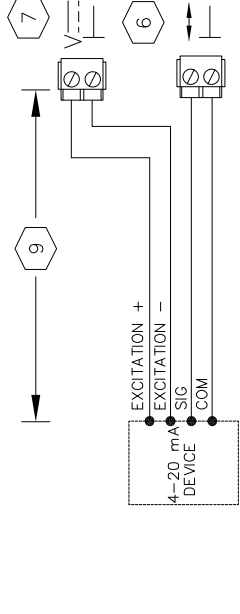
50mA OR LESS – 750ft/230m
50mA TO 100mA – 375ft/115m

100mA TO 150mA – 250ft/76m
150mA TO 200mA – 187ft/57m
200mA TO 250mA – 150ft/46m

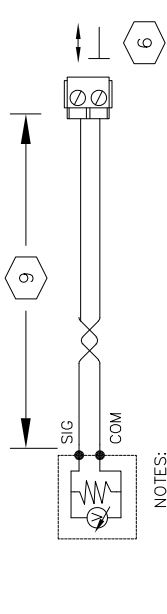
WHERE H TERMINAL IS NOT A NEC CLASS 2 CIRCUIT, RELAY COMMON TERMINAL BRANCH CURRENT MUST BE EXTERNALLY LIMITED TO 10A MAXIMUM BY AN NEC APPROVED MEANS. NOT A FUSE.

WHERE REQUIRED, N TERMINAL BRANCH
CURRENT MUST BE EXTERNALLY LIMITED
BY AN NEC APPROVED MEANS.

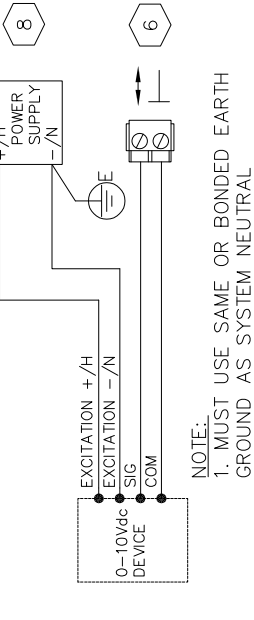
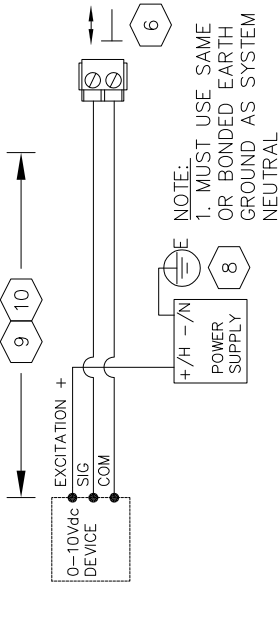
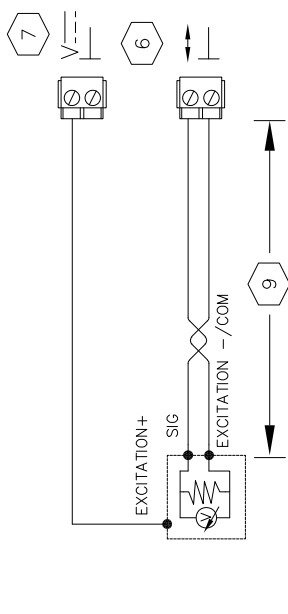
REVISION HISTORY		SIEMENS		11001 BLUGRASS PKWY #320 LOUISVILLE, KY 40298 US PHONE: (502) 267-1571 FAX: (502) 267-0316		440P-406822 0											
		SIEMENS INDUSTRY, INC. SMART INFRASTRUCTURE				TTRM1											
				IUSE WOODLAND LODGE NEW ALBANY, IN													
				<table><tr><td>ENGINEER</td><td>DRAFTER</td><td>CHECKED BY</td><td>INITIAL RELEASE</td><td>LAST EDIT DATE</td></tr><tr><td>AD</td><td>AD</td><td>MB</td><td>11/18/25</td><td>11/14/25</td></tr></table>		ENGINEER	DRAFTER	CHECKED BY	INITIAL RELEASE	LAST EDIT DATE	AD	AD	MB	11/18/25	11/14/25		
ENGINEER	DRAFTER	CHECKED BY	INITIAL RELEASE	LAST EDIT DATE													
AD	AD	MB	11/18/25	11/14/25													
				TX-I/O TERMINATION SPEC. (1)													



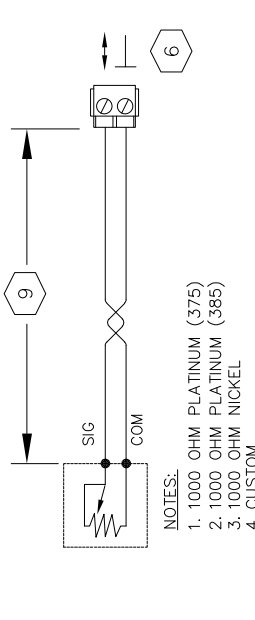
NOTE:
1. MUST USE SAME OR BONDED EARTH
GROUND AS SYSTEM NEUTRAL



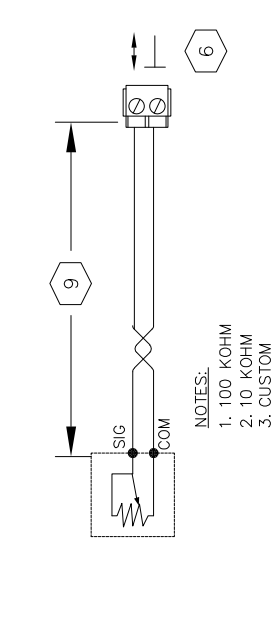
NOTES:
1. TRANSDUCER POWERED FROM ISOLATED INPUT
2. TRANSDUCER OUTPUT VOLTAGE



NOTE:
1. MUST USE SAME OR BONDED EARTH
GROUND AS SYSTEM NEUTRAL



NOTES:
1. 1000 OHM PLATINUM (375)
2. 1000 OHM PLATINUM (385)
3. 1000 OHM NICKEL
4. CUSTOM



NOTES:
1. 100 KOHM
2. 10 KOHM
3. CUSTOM



TXM1 TERMINATION TABLES

1. ALL TXM1 TERMINALS (MEASURING, NEUTRAL, RELAY, SUPPLY) ARE CONNECTED IN THE PLUG-IN I/O MODULE, NOT IN THE TERMINAL BUS.

TXM1.8D, TXM1.16D							
I/O POINT	(1)	(2)	(3)	(4)	(5)	(6)	(7) (8)
SYSTEM NEUTRAL ¹	└┘ (–)		1	3	5	7	9 11 13 15
DIGITAL INPUT	┆┆ (+)		2	4	6	8	10 12 14 16

1. NEUTRAL CAN BE CONNECTED TO ANY NEUTRAL TERMINAL ON SAME MODULE AND SEVERAL CAN SHARE SAME NEUTRAL TERMINAL.

TXM1.16D							
I/O POINT	(9)	(10)	(11)	(12)	(13)	(14)	(15) (16)
SYSTEM NEUTRAL	└┘ (–)		18	20	22	24	26 28 30 32
DIGITAL INPUT ¹	┆┆ (+)		19	21	23	25	27 29 31 33

1. NO PULSE ACCUMULATOR

TXM1.8U, TXM1.8U–ML							
I/O POINT	(1)	(2)	(3)	(4)	(5)	(6)	(7) (8)
SYSTEM NEUTRAL	└┘ (–)		2	6	10	14	19 23 27 31
UNIVERSAL I/O	┆┆ (+)		4	8	12	16	21 25 29 33
24V AC/DC ACTUATOR SUPPLY ¹	≈		7	15	23	31	32

1. 24V DC ONLY AVAILABLE WITH BUS CONNECTOR MODULE (BCM) POWERED EXTERNALLY BY DC SUPPLY.

TXM1.8X, TXM1.8X–ML							
I/O POINT	(1)	(2)	(3)	(4)	(5)	(6)	(7) (8)
SYSTEM NEUTRAL	└┘ (–)		2	6	10	14	19 23 27 31
UNIVERSAL I/O	┆┆ (+)		4	8	12	16	21 25 29 33
24V AC/DC ACTUATOR SUPPLY ²	≈		7	15	23	31	32
24V DC SENSOR SUPPLY ³	==		3	11	20	28	

1. 4–20 mA OUTPUT AVAILABLE ON POINTS 5–8 ONLY.

2. 24V DC ONLY AVAILABLE WITH BUS CONNECTOR MODULE (BCM) POWERED EXTERNALLY BY DC SUPPLY.

3. MAY POWER EXTERNAL SENSORS 0.6w (25mA) OR 1.2w (50mA) PER TERMINATION UP TO 2.4w (100mA) MAXIMUM FOR ALL TERMINATIONS.

TXM1.6R, TXM1.6R–M							
I/O POINT	(1)	(2)	(3)	(4)	(5)	(6)	
COMMON ¹	┆┆ (C)		3	9	15	20	26 32
NORMALLY CLOSED	┆┆ (NC)		4	10	16	19	25 31
NORMALLY OPEN	┆┆ (NO)		2	8	14	21	27 33

1. COMMONS ARE NOT INTERNALLY CONNECTED.

NOTE: REFER TO TERMINATION SHEET #1 FOR INSTALLATION DETAILS.

REVISION HISTORY

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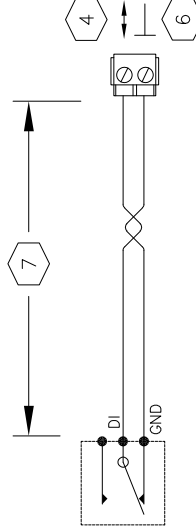
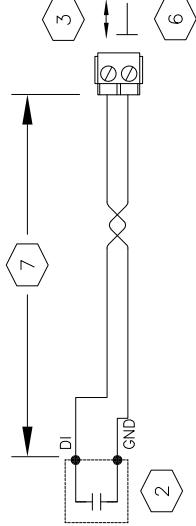
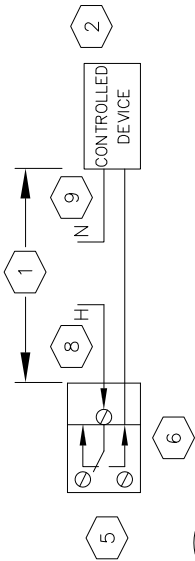
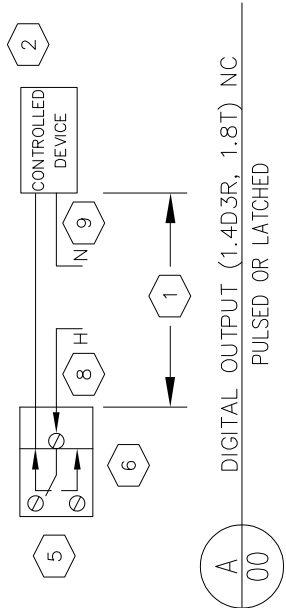
IUSE WOODLAND LODGE
NEW ALBANY, IN

440P-406822
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TTRM2

ENGINEER	DRAFTER	CHECKED BY	INITIAL RELEASE	LAST EDIT DATE
AD	AD	MB	11/18/25	11/14/25

TX-I/O TERMINATION SPEC. (2)



NOTES:

1
MAXIMUM WIRE RUN LENGTHS ARE BASED
ON THE CURRENT DRAW AND WIRE GAUGE.
SEE DRAWING P7WIR.

2 SEE CONTROL DRAWINGS FOR NORMAL DE-ENERGIZED CONTACT STATE

3
MAXIMUM CONTACT CLOSURE RATE IS
10 PER SECOND

1.4D3R MAXIMUM PULSE RATE UP TO 10Hz

DO CONTACT RATINGS
AC OPERATION:
4A @ 250VAC (RESISTIVE)
3A @ 250VAC (INDUCTIVE)

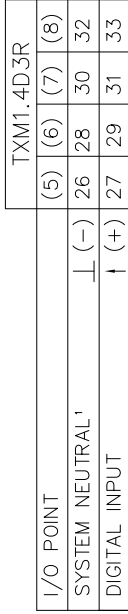
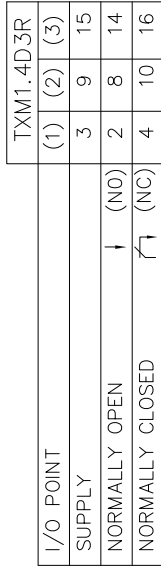
DC OPERATION:
4A @ 30VDC (RESISTIVE), UL APPLICATIONS
3A @ 30VDC GENERAL PURPOSE
3A @ 30VDC (RESISTIVE)

6 REFER TO PX7 PANEL FOR ACTUAL POINT ADDRESSES. REFER TO TXM TERMINATION TABLES FOR ACTUAL TERMINALS FOR EACH PANEL ADDRESS. COMMON TERMINAL MAY BE SHARED BY 2 POINTS.

50mA OR LESS - 750ft/230m
50mA TO 100mA - 375ft/115m

8 WHERE H TERMINAL IS NOT A NEC CLASS 2 CIRCUIT, RELAY COMMON TERMINAL BRANCH CURRENT MUST BE EXTERNALLY LIMITED TO 10A MAXIMUM BY AN NEC APPROVED MEANS. NOT A FUSE.

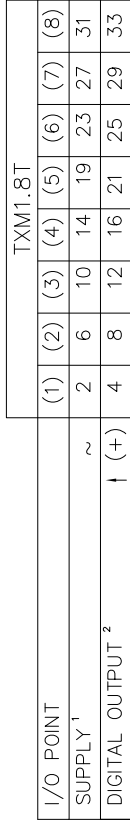
9 WHERE REQUIRED, N TERMINAL BRANCH CURRENT MUST BE EXTERNALLY LIMITED BY AN NEC APPROVED MEANS



1. TERMINALS 26, 28, 30, 32 ARE SYSTEM NEUTRAL TERMINALS.

THEY ARE INTERCONNECTED, NOT IN THE TERMINAL BASE BUT IN THE PLUG-IN I/O MODULE. WHEN I/O MODULE IS REMOVED, THERE IS NO CONNECTION.

THE SYSTEM NEUTRAL OF A DIGITAL INPUT CAN BE CONNECTED TO ANY SYSTEM NEUTRAL TERMINAL.



1.THE LOAD CAN BE CONNECTED DIRECTLY TO THE CORRESPONDING OUTPUT TERMINALS. NO SEPARATE 24VAC SUPPLY IS REQUIRED.

2. THE TRIAC CLOSSES THE CONTACT TO | (SYSTEM NEUTRAL).

REVISION HISTORY

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SIEMENS

**SIEMENS INDUSTRY, INC.
SMART INFRASTRUCTURE**

**USE WOODLAND LODGE
NEW ALBANY, IN**

440P-406822
0

ENGINEER	DRAFTER	CHECKED BY	INITIAL RELEASE	LAST
AD	AD	MB	11/18/25	11/18/25

TX-I/O TERMINATION SPEC. (3)

TTRM3

PXC7 MODULAR WIRING TYPE AND GAUGE REQUIREMENTS

TABLE 1

CIRCUIT TYPE	CLASS	WIRE TYPE	MAX. DISTANCE	CONDUIT SHARING ²
AC LINE POWER ¹	POWER	#12-14 THHN	REFER TO NEC	CHECK LOCAL CODES
DIGITAL OUTPUT	1 & 2	TP not required, check job specs & local codes #18 to #24 AWG	SEE TABLE 3	CHECK LOCAL CODES
DIGITAL INPUT	2	TP not required, check job specs & local codes #18 to #24 AWG	750ft (230 m)	CHECK LOCAL CODES
ANALOG INPUT ⁴	2	#18-#24 TP ^{3/6} or TSP ⁵ CM(FT4) or CMP(FT6)	750ft (230 m)	CHECK LOCAL CODES
ANALOG INPUT ⁴	2	#18-#24 TP ^{3/6} or TSP ⁵ CM(FT4) or CMP(FT6)	750ft (230 m)	CHECK LOCAL CODES
ANALOG INPUT	2	#18-#24 TP ^{3/6} or TSP ⁵ CM(FT4) or CMP(FT6)	750ft (230 m)	CHECK LOCAL CODES
ANALOG INPUT	2	#18-#24 TP ^{3/6} or TSP ⁵ CM(FT4) or CMP(FT6)	750ft (230 m)	CHECK LOCAL CODES
ANALOG OUTPUT	2	#18-#24 TP ^{3/6} or TSP ⁵ CM(FT4) or CMP(FT6)	750ft (230 m)	CHECK LOCAL CODES
ANALOG OUTPUT	2	#18-#24 TP ^{3/6} or TSP ⁵ CM(FT4) or CMP(FT6)	750ft (230 m)	CHECK LOCAL CODES
ETHERNET	2	#24 (4) TP ⁶ CAT5 OR BETTER	300ft (100 m)	CHECK LOCAL CODES

MAXIMUM DO WIRE RUN LENGTHS

TABLE 3

NOMINAL INRUSH	STARTER SIZE	WIRE SIZE	
200 VA	0	#18	#14
	1	500ft (152m)	900ft (427m)
550 VA	2	200ft (61m)	300ft (91m)
	3	100ft (30m)	150ft (46m)
1150 VA	4	70ft (21m)	100ft (30m)
			200ft (61m)

TABLE 3 NOTES:

1. DISTANCES SHOWN ASSURE LESS THAN 10% VOLTAGE DROP ACROSS THE WIRE FOR A TYPICAL STARTER.

GENERAL NOTES:

- COMPLY WITH LOCAL BUILDING CODES
- SIZE WIRE FOR LOAD, CURRENT, AND VOLTAGE.
- ALL WIRE TO BE APPROVED OR LISTED FOR THE INTENDED APPLICATION BY AGENCIES SUCH AS UL, NEC, CSA.
- ALWAYS REFER TO LOCAL CODES FOR CONDUIT SHARING.
- WIRING MUST HAVE INSULATION RATED FOR HIGHEST VOLTAGE CIRCUIT IN CONDUIT.
- THE ALN TRUNK MUST BE AN UNINTERRUPTED RUN BETWEEN CABINETS. NO SPLICES ALLOWED.
- CM/CMP/MM/MMP WIRE IS NOT USABLE FOR CLASS 1 CIRCUITS.
- FOR EXTENDED TEMPERATURE INSTALLATIONS USE ONLY COPPER WIRE LISTED FOR 90°C OR HIGHER

PXC7 WIRE SPECIFICATIONS

LOW-VOLTAGE POINT APPLICATIONS		POINT USAGE	ALN TRUNK	EALN
CABLE CONFIGURATION	TWISTED PAIR OR TSP	TWISTED PAIR (UNJACKETED) OR TSP	TWISTED SHIELDED PAIR	(4) TWISTED PAIR
GAUGE	#18 TO #22 AWG (STRANDED)	#18 TO #22 AWG (STRANDED)	24 AWG (STRANDED)	24AWG(STRANDED)
CAPACITANCE	n.a.	n.a.	12.5 pF/ft OR LESS	13 pF/ft OR LESS
TWISTS PER FOOT	6 MINIMUM	6 MINIMUM	6 MINIMUM	CATEGORY 5 Min
SHIELDS	NOT REQUIRED (IN CASE OF TSP, 100% FOIL W/ DRAIN WIRE)	NOT REQUIRED (IN CASE OF TSP, 100% FOIL W/ DRAIN WIRE)	100% FOIL W/ DRAIN WIRE	NOT REQUIRED
NEC CLASS	CM, CMP (75°C OR HIGHER)	NOT SPECIFIED	CM, CMP (75°C OR HIGHER)	MM, MMP
CEC CLASS	FT4, FT6 (75°C OR HIGHER)	NOT SPECIFIED	FT4, FT6 (75°C OR HIGHER)	NOT SPECIFIED
UL VOLTAGE RATING	NOT SPECIFIED	300 VAC ²	NOT SPECIFIED	NOT SPECIFIED
UL TEMP. RATING	NOT SPECIFIED	75°C (167°F)	NOT SPECIFIED	NOT SPECIFIED

1. UL RECOGNIZED WIRE (LABELED WITH A BACKWARDS 'RU') IS NOT FIELD INSTALLABLE. USE ONLY UL-LISTED WIRE.
2. 300 VAC WIRE CAN BE USED IN FIELD PANELS CONTAINING VOLTAGES BELOW 150 VAC.

REVISION HISTORY

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PXC7 CONDUIT PENETRATIONS

T100

THESE CONNECTIONS MADE IN FIELD

115VAC W/GND WIRE NUT (TYP)

WIRE COVER

AC EARTH GROUND LUG FOR TRANSFORMER OUTLET AND INPUT GROUND UNDER WIRE COVER.

PXA ENCLOSURE AND SERVICE BOX

POWER BOX

JUNCTION BOX

COVER WITH DUPLEX RECEPTACLE (115VAC ONLY)

NOTES:

1. NO MORE THAN THREE (3) 384VA OR SIX (6) 192VA FULLY LOADED PXA CABINETS CAN BE WIRING IN A SINGLE WIRE 115VAC CIRCUIT.
2. RECEPTACLE IS PREWIRED AND MOUNTED IN FACTORY, FOR 115VAC SERVICE BOX ONLY.
3. DC INPUT/OUTPUT ONLY AVAILABLE ON BUS CONNECTION MODULES.

PXC7 FAMILY VA RATINGS & SENSOR SUPPLY			
PRODUCT	24VDC (W)	24VAC INPUT VA	24VAC OUTPUT VA
PXC7E400.A	7.2	71	48
TX-I/O MODULE 24VDC LOAD (W) MAX.			
TXM1.8D	1.1		
TXM1.16D	1.4		
TXM1.8U	1.5		
TXM1.8U-ML	1.8		
TXM1.8X	2.2		
TXM1.8X-ML	2.3		
TXM1.6R	1.7		
TXM1.6R-M	1.9		
TXM1.8T	1.0		
TXM1.4D3R	1.0		

PXC7 POWER WIRING

T200

A: ETHERNET SWITCH 1 RJ-45 SHIELDED JACK FOR ETHERNET PATCH CABLE

D: TX-I/O BUS CONNECTOR (BOTTOM) FOR ETHERNET PATCH CABLE

24V AC/DC

G: COM3 SWITCH POLAR TERM OFF

J: MODBUS

B: ETHERNET SWITCH 2 RJ-45 SHIELDED JACK FOR ETHERNET PATCH CABLE

E: COM1 SWITCH POLAR TERM OFF

H: COM4 SWITCH POLAR TERM OFF

K: KNX

C: ETHERNET TOOL PORT

F: COM2 SWITCH POLAR TERM OFF

L: DIGITAL INPUT

QR CODE

NOTES:

1. COMMUNICATION CONNECTORS PLUG INTO PXC7.
2. THE TERMINAL FOR THE FUNCTIONAL GROUND MUST BE CONNECTED ON THE INSTALLATION SIDE OF THE BUILDING GROUNDING SYSTEM (PE).

T300

PXC7 COMMUNICATION TERMINATIONS FOR PXC7, SERIES CONTROLLERS AND SUPPLY MODULES

440P-406822
0

IUSE WOODLAND LODGE
NEW ALBANY, IN

P7WIR

ENGINEER AD
DRAFTER AD
CHECKED BY MB
INITIAL RELEASE 11/18/25
LAST EDIT DATE 11/14/25
PXXCM TX-I/O WIRING SPEC