

# LORIS ELEMENTARY SCHOOL MAU REPLACEMENT

901 SC-9 BUSINESS, LORIS, SC 29569

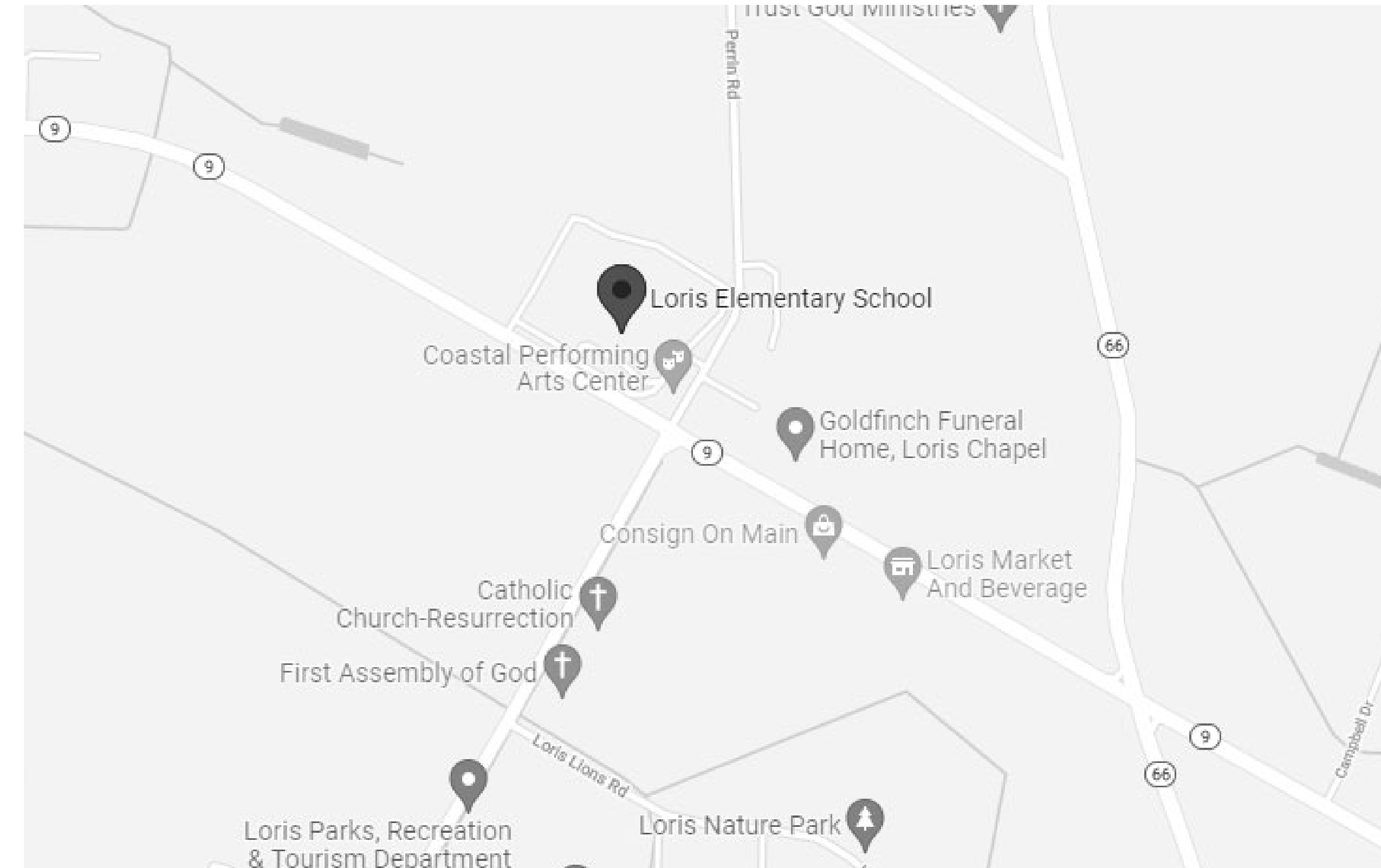


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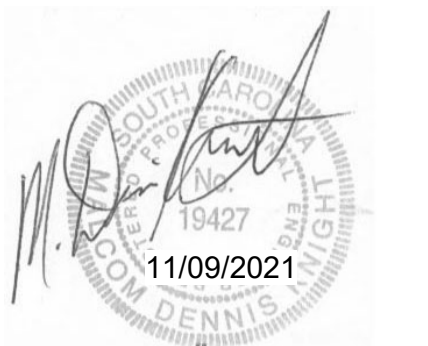
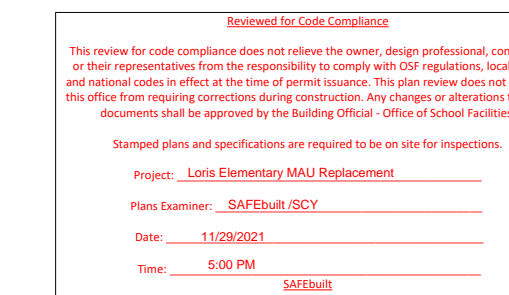
## LOCATION MAP



## NOTES

### GENERAL NOTES (APPLICABLE TO ALL SHEETS)

- A. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS.
- B. VERIFY ALL DIMENSIONS IN FIELD PRIOR TO PROCURING ANY EQUIPMENT OR MATERIALS, AND PRIOR TO FABRICATING ANY WORK.



## PROJECT TEAM

### OWNER

HORRY COUNTY SCHOOL DISTRICT  
OWNER'S REPRESENTATIVE: MR. JOE BURCH

### ENGINEER

WHOLE BUILDING SYSTEMS, LLC  
P.O. BOX 1845  
MT. PLEASANT, SC 29465  
  
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CONTACT: DENNIS KNIGHT  
PHONE: 843-437-3847  
EMAIL: DKNIGHT@WHOLEBUILDINGSYSTEMS.COM

### ARCHITECT

THOMAS & DENZINGER ARCHITECTS  
  
CONTACT: BRYAN BOLIN, AIA  
PHONE: 843-723-6651  
EMAIL: bbolin@thomasanddenzinger.com

### STRUCTURE

ADC ENGINEERING  
  
CONTACT: CHRIS GILGER, P.E.  
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## CODES AND STANDARDS

### APPLICABLE BUILDING CODES AND STANDARDS

- THE FOLLOWING CODES AND STANDARDS APPLY TO THE WORK OF THIS PROJECT:
- A. ALL CURRENTLY ADOPTED BUILDING CODES AND STATUTES ADOPTED BY THE STATE OF SOUTH CAROLINA INCLUDING, BUT NOT LIMITED TO:
    - 1. THE SOUTH CAROLINA BUILDING CODE, 2018 EDITION WITH SC MODIFICATIONS,
    - 2. THE SOUTH CAROLINA MECHANICAL CODE, 2016 EDITION,
    - 3. THE SOUTH CAROLINA FIRE CODE, 2018 EDITION WITH SC MODIFICATIONS,
    - 4. THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2009 EDITION,
    - 5. THE NATIONAL ELECTRICAL CODE (NFPA-70), 2017 EDITION

### SEISMIC AND WIND DESIGN CRITERIA

- WIND RESTRAINT LOADING:
1. ULTIMATE WIND SPEED (3 SEC GUST), Vult: 157 MPH
  2. NOMINAL WIND SPEED, Vasd: 121.6 MPH
  3. BUILDING CLASSIFICATION (RISK) CATEGORY: III
  4. IMPORTANCE FACTOR: 1.15
  5. SURFACE ROUGHNESS: B
  6. EXPOSURE CATEGORY: B
  7. MINIMUM 10 LB/SQ FT MULTIPLIED BY AREA OF THE MECHANICAL COMPONENT PROJECTED ON A VERTICAL PLANE THAT IS NORMAL TO THE WIND DIRECTION, AND 45 DEGREES EITHER SIDE OF NORMAL.

- SEISMIC RESTRAINT LOADING:
1. BUILDING CLASSIFICATION (RISK) CATEGORY: III
  2. SITE CLASSIFICATION: D
  3. Ss = 1.229
  4. S1 = 0.396
  5. SDS = 0.826
  6. SD1 = 0.425
  7. SEISMIC DESIGN CATEGORY: D (IBC 2015, TABLE 1613.3.5 (1) & (2).

SEE SEISMIC AND WIND LOAD SCHEDULE ON SHEET M001 FOR ADDITIONAL INFORMATION REGARDING EQUIPMENT SEISMIC AND WIND LOAD REQUIREMENTS.

LORIS ELEMENTARY  
SCHOOL MAU  
REPLACEMENT  
901 SC-9 BUSINESS, LORIS, SC 29569

PROJ. NO. 2109001  
DATE: 11/09/2021  
DESIGNED BY: MDK  
DRAWN BY: BRW  
CHECKED BY: MDK

### REVISIONS

NO.	DATE	NOTES

TITLE PAGE

G001

FORM F3 BUILDING CODE ANALYSIS FORM
PROJECT: LORIS ELEMENTARY SCHOOL MAU REPLACEMENT
DISTRICT: Horry County, SC
DATE: 11/02/2021

Table with 7 columns: Designated Areas of Building (Area 1-6) and rows for Building Area, Area Limit, Max Area, Total Allowed Area, Area as Designed, Total Designated Area.

Table with 7 columns: Designated Areas of Building (Area 1-6) and rows for Building Height, Height, Allowable Height Increase, Total Height including Allowable Increase.

Table with 7 columns: Designated Areas of Building (Area 4-6) and rows for Building Height, Height, Allowable Height Increase, Total Height including Allowable Increase.

Table with 7 columns: Designated Areas of Building (Area 1-6) and rows for Building Design Occupant Load, Occupancy Type, Area, and Total.

Table: GENERAL FIRE PROTECTION REQUIREMENTS. Columns: Designated Areas of Building (1-6) and rows for Separations, Smoke Barriers, Smoke Partitions, Fire Partitions, Fire Barriers, Alarm & Detection, Emergency Alarm System, SI (Suppression), Standpipes, Sprinklers, Smoke Extractors, Other suppression systems, Smoke & heat vents.

Table: OTHER FIRE AND LIFE SAFETY FEATURES. Columns: Designated Areas of Building (1-6) and rows for Area of Refuge, Separation, Two-way communication, Instruction provided, Exterior Area for Assisted Rescue, Identification provided, OTHER.

Table: FIRE RESISTANCE RATING OF BUILDING ELEMENTS. Columns: Designated Areas of Building (1-6) and rows for Structural Frame, Bearing Walls, Exterior, Bearing Walls, Interior, Nonbearing Walls & Partitions, Exterior, Nonbearing Walls & Partitions, Interior, Fire Walls.

Table: FIRE RESISTANCE RATING OF BUILDING ELEMENTS. Columns: Designated Areas of Building (1-6) and rows for Nonbearing Walls & Partitions, Exterior/Interior, Floor Construction including supporting beams & joists, Roof Construction including supporting beams & joists, Fire Walls.

Table: FIRE RESISTANCE RATING OF BUILDING ELEMENTS. Columns: Designated Areas of Building (1-6) and rows for Designated Areas of Building, Fire Barriers, Shull Enclosures, Fire Partitions, Operating & Protective Listing by Category.

Table: FIRE RESISTANCE RATING OF BUILDING ELEMENTS. Columns: Designated Areas of Building (1-6) and rows for Designated Areas of Building, Others, As Designed, Testing Agency & Design.

Table: FLOOD HAZARD INFORMATION and FLOOD LOADS. Columns: Designated Areas of Building (1-6) and rows for Flood Hazard Area, Base Flood Elevation, Design Flood Elevation, Non High-Velocity Wave Action, Dry Floodproofing, High-Velocity Wave Action.

Table: STRUCTURAL DESIGN INFORMATION, AREA. Columns: Occupancy Category, Area 1, and rows for Live Load, Dead Load, Wind Load, Seismic Load, Snow Load.

Table: SOILS & SITE. Columns: Designated Areas of Building (1-6) and rows for Soils Investigation, Soils Classification, Seismic Site Class, Allowable Footing Bearing Pressure, Minimum Design Soil Bearing Load, Compaction, Footings, ELEVATIONS, Elevation of Water Table, Elevation of lowest footing, Elevation of lowest floor or basement.

Table: STRUCTURAL DESIGN INFORMATION, BUILDING-SEE. Columns: Designated Areas of Building (1-6) and rows for Analysis Procedure, Basic Wind Speed, Exposure Category, Wind Importance Factor, Internal Pressure Coefficient, External Pressure Coefficient, Seismic Importance Factor, Soil Class, Mapped Spectral Response Accelerations, Design Spectral Response Acceleration Parameters, Seismic Use Group, Seismic Design Category, Basic Seismic Force Resisting System, Design Base Shear, Seismic Response Coefficient, Response Modification Factor, Analysis Procedure.

The Designer(s) of Record shall determine the material and/or work on the project requiring Special Inspections. The Special Inspection requirements shall be based on Section 1704 of the 2006 International Building Code.

Table: STATEMENT OF SPECIAL INSPECTIONS. Columns: Material, Type of Inspection, Frequency, Specification Reference, Inspection By.

Table: PLUMBING INFORMATION. Columns: Designated Areas of Building (1-6) and rows for Water System, Sanitary Sewer System, Fixture Units, GPD, Inches/ft, PSI.

Table: FIRE SERVICE INFORMATION - EXISTING. Columns: Designated Areas of Building (1-6) and rows for Service Line Size, Fire Department Connection, Backflow, Fire Hydrant Flow Test.

Table: MECHANICAL INFORMATION. Columns: Designated Areas of Building (1-6) and rows for General Information, Building Location, Climate Zone, Outdoor Design Temperature, Indoor Design Temperature, Outside Air, CO2 Demand Management, Supervisory Control System, Fire Alarm System.

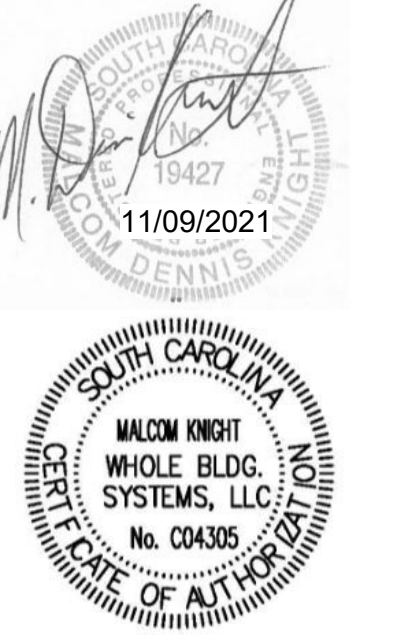
Table: ENERGY INFORMATION - EXISTING. Columns: Designated Areas of Building (1-6) and rows for Insulation, Walls, Underslab, GLAZING, Window to wall ratio, Glass Type.

Table: CODE REQUIRED BUILDING FIXTURE COUNTS - EXISTING. Columns: Designated Areas of Building (1-6) and rows for Water Closets, Lavatories, Showers, Drinking Fountains, Urinals toilet, Service Sinks, Others (list).

Table: ELECTRICAL INFORMATION - EXISTING. Columns: Designated Areas of Building (1-6) and rows for Service Transformer, Electrical Service Information, Emergency Generator, Exit/Emergency Light Backup Power, Fire Alarm System, Lightning Protection Provided.



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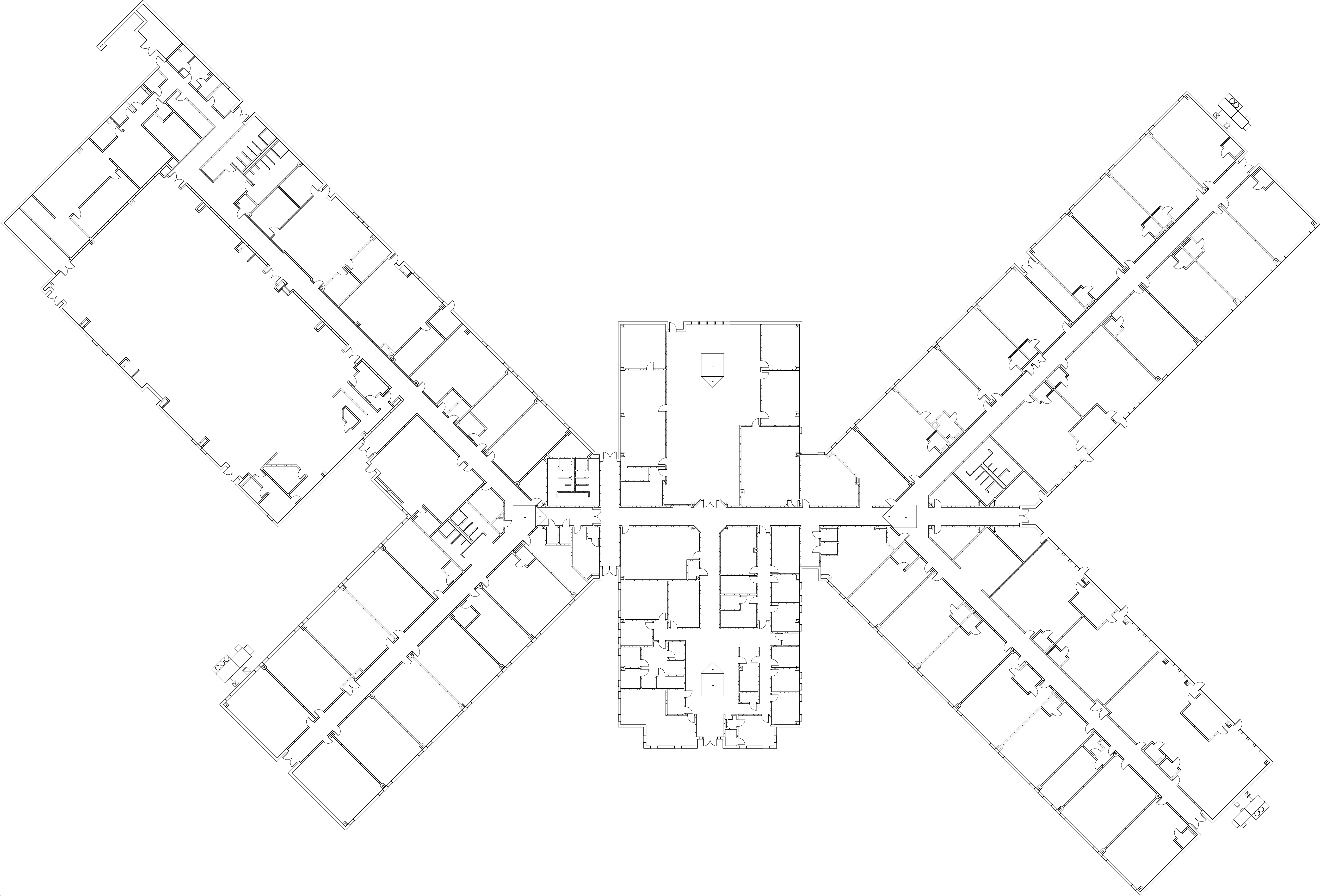
PROJ. NO. 2109001
DATE: 11/09/2021
DESIGNED BY: MDK
DRAWN BY: BRW
CHECKED BY: MDK

REVISIONS
NO. DATE NOTES

Form F3

G002

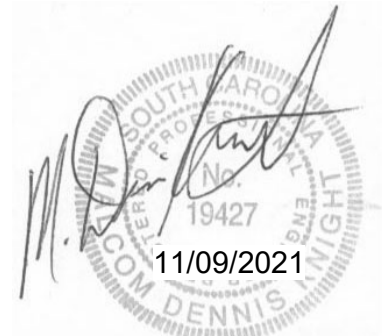
NO CONSTRUCTION IS ALLOWED DURING OCCUPIED HOURS. EXITS ARE TO REMAIN OPEN AND UNOBSTRUCTED AS LONG AS THERE ARE NON-CONSTRUCTION PEOPLE IN THE BUILDING. EXIT EGRESS CORRIDORS SHALL REMAIN OPEN AND UNOBSTRUCTED AS LONG AS THERE ARE NON-CONSTRUCTION PEOPLE IN THE BUILDING. IF CONSTRUCTION IS REQUIRED DURING OCCUPIED HOURS, CONTRACTOR SHALL MARK UP THIS PLAN WITH HOW EXITS AND EXIT EGRESS CORRIDORS ARE TO REMAIN PROTECTED, ACCESSIBLE AND UNOBSTRUCTED AND SUBMIT IT TO THE SC DEPARTMENT OF EDUCATION'S OFFICE OF SCHOOL FACILITIES (OSF) FOR APPROVAL PRIOR TO BEGINNING THE WORK.



REVISIONS



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 SCHOOL MAU  
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 901 SC-9 BUSINESS, LORIS, SC 29569

PROJ. NO. 2109001  
 DATE: 11/09/21  
 DESIGNED BY: MDK  
 DRAWN BY: BRW  
 CHECKED BY: MDK

REVISIONS

NO.	DATE	NOTES

SITE SAFETY PLAN  
 DURING  
 CONSTRUCTION

**G003**

SITE SAFETY PLAN DURING  
 CONSTRUCTION  
 1" = 20'-0"

## SEISMIC AND WIND LOAD REQUIREMENTS

- A. PER THE INTERNATIONAL BUILDING CODE - 2015, MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-10.
- B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS & ROOF RAILS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTERS 26 TO 29 OF ASCE 7-10.
- C. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.
- D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC. IF STRUCTURAL DRAWINGS ARE NOT INCLUDED IN THE SCOPE OF THE CONTRACT DOCUMENTS, REFERENCE THE SITE SPECIFIC SEISMIC AND WIND LOAD DESIGN INFORMATION HEREIN.
- E. ALL EQUIPMENT AND SYSTEMS FOR THIS PROJECT HAVE A COMPONENT IMPORTANCE FACTOR (Ip) OF 1.0 UNLESS NOTED OTHERWISE.
- F. USE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.
- G. FOR ALL COMPONENTS/SYSTEMS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED (CALCULATIONS AND INSTALLATION DETAILS) AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER THAT IS DIRECTLY EMPLOYED BY THE SEISMIC RESTRAINT MANUFACTURER WITH AT LEAST FIVE YEARS OF SEISMIC DESIGN EXPERIENCE, LICENSED IN THE STATE OF THE JOB LOCATION. ALL RESTRAINING DEVICES SHALL HAVE A PRE-APPROVAL NUMBER FROM CALIFORNIA OSHDP OR SOME OTHER RECOGNIZED GOVERNMENT AGENCY SHOWING MAXIMUM RESTRAINT RATINGS.
- H. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED AND STAMPED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF AN APPROVED SEISMIC SUBMITTAL FROM THE ENGINEER OF RECORD. ALL HOUSEKEEPING PADS DESIGNED AS EXPANSIONS TO EXISTING PADS OR INSTALLED ON TOP OF EXISTING CONCRETE FLOOR SYSTEMS SHALL BE DOWELED INTO THE EXISTING SYSTEMS.
- I. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAY, AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS PER THE SEISMIC ENGINEER.

### COMPONENT/SYSTEM IMPORTANCE FACTOR (Ip) SCHEDULE AND SEISMIC DESIGN INFORMATION

Ip = 1.0	ALL SYSTEMS
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#### SEISMIC DESIGN INFORMATION:

1. RISK CATEGORY = III
2. SITE CLASSIFICATION = D
3. SHORT PERIOD DESIGN SPECTRAL ACCELERATION (Sd1) = 0.425
4. LONG PERIOD DESIGN SPECTRAL ACCELERATION (Sds) = 0.826

### SEISMIC DESIGN CATEGORY TABLE - DESIGN CATEGORIES D, E, & F

COMPONENT/SYSTEM IDENTIFICATION	COMPONENT IMPORTANCE FACTOR (Ip)				
	Ip = 1.0		Ip = 1.5		
	ASCE 7-10 REFERENCE	ASCE 7-10 REFERENCE	ASCE 7-10 REFERENCE	ASCE 7-10 REFERENCE	
ROOF MOUNTED EQUIPMENT	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6	RESTRAIN ALL	13.1.4.6	
FLOOR MOUNTED EQUIPMENT	RESTRAIN ALL (SEE NOTES 1, 2)	13.1.4.6	RESTRAIN ALL	13.1.4.6	
WALL MOUNTED EQUIPMENT	RESTRAIN ALL (SEE NOTES 1, 2)	13.1.4.6	RESTRAIN ALL	13.1.4.6	
COMPONENT SUPPORTS	RESTRAIN ALL (SEE NOTE 1)	13.6.5	RESTRAIN ALL	13.6.5	
SUSPENDED EQUIPMENT	IN LINE WITH DUCT/PIPE	RESTRAIN IF > 75 LBS PROVIDE FLEX. CONN. (SEE NOTE 3)	13.6.7	RESTRAIN IF > 75 LBS PROVIDE FLEX. CONN. (SEE NOTE 3)	13.6.7
	NOT IN LINE WITH DUCT/PIPE	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6	RESTRAIN ALL	13.1.4.6
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)	RESTRAIN IF > 3" (SEE NOTE 4)	13.6.8.3.3.c	RESTRAIN IF > 1" (SEE NOTE 4)	13.6.8.3.3.b	
SUSPENDED NON DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)	RESTRAIN ALL (SEE NOTE 4)	13.6.8.3.3	RESTRAIN ALL (SEE NOTE 4)	13.6.8.3.3	
SUSPENDED PIPE ON TRAPEZE	RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT (SEE NOTE 4)	13.6.8.3.1	RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT (SEE NOTE 4)	13.6.8.3.1	
DUCTWORK	RESTRAIN IF > 6 SQFT AND > 17 LBS/FT (SEE NOTES 4, 5)	13.6.7	RESTRAIN IF > 6 SQFT AND > 17 LBS/FT (SEE NOTES 4, 5)	13.6.7	
MULTIPLE DUCTS ON TRAPEZE	RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT (SEE NOTES 4, 5)	13.6.7	RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT (SEE NOTES 4, 5)	13.1.4.6	
SINGLE CONDUIT	RESTRAIN IF > 2.5" (SEE NOTE 4)	13.6.5.6	RESTRAIN IF > 2.5" (SEE NOTE 4)	13.6.5.6	
CABLE TRAY/BIUS DUCT/TRAPEZED CONDUIT	RESTRAIN IF TOTAL WEIGHT OF RACEWAY > 10 LBS/FT (SEE NOTE 4)	13.6.5.6	RESTRAIN IF TOTAL WEIGHT OF RACEWAY > 10 LBS/FT (SEE NOTE 4)	13.6.5.6	
PENDANT, LAY-IN, AND CAN LIGHTS	REQUIRED (SEE NOTE 6)	13.5.6.2	REQUIRED (SEE NOTE 6)	13.5.6.2	
COMPONENT CERTIFICATION	NOT REQUIRED	13.2.2	REQUIRED (SEE NOTE 7)	13.2.2	

1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE, AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER OF MASS AT 4 FT OR LESS ABOVE FINISHED FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE, AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. FLEXIBLE CONNECTIONS REQUIRED FOR DUCT, PIPE, AND ELECTRICAL CONNECTIONS.
4. RESTRAINT IS NOT REQUIRED IF THE PIPING/DUCTWORK/CONDUIT IS SUPPORTED BY HANGERS AND EACH HANGER IN THE PIPING RUN IS 12" OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12" OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS, OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.
5. ALL DUCTWORK, REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.
6. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY THE ENGINEER OF RECORD.

#### GENERAL NOTES:

1. DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO STARTING WORK.
2. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INTERIOR DIMENSIONS.
3. SEE EQUIPMENT DETAILS FOR CONNECTIONS TO MECHANICAL EQUIPMENT.
4. AIR DISTRIBUTION DEVICES ARE EXISTING AND ARE TO REMAIN WHERE LOCATED IN EXISTING CEILINGS. FOR NEW AIR DISTRIBUTION DEVICES LOCATED IN EXISTING CEILINGS, LOCATE NEW AIR DISTRIBUTION DEVICE WHERE PREVIOUS AIR DEVICE WAS LOCATED.
5. EXISTING TO REMAIN (ETR) EQUIPMENT AND SYSTEMS ARE SHOWN FOR REFERENCE ONLY.
6. REMOVE AND PROTECT CEILING TILES DURING DEMOLITION AND CONSTRUCTION FOR REUSE IN NEW WORK. CEILING TILES BROKEN OR DAMAGED DURING THE COURSE OF DEMOLITION AND/OR CONSTRUCTION SHALL BE REPLACED IN KIND AT NO ADDITIONAL COST TO OWNER.
7. AIRFLOW VALUES ARE SHOWN FOR TAB CONTRACTOR'S REFERENCE. TAB CONTRACTOR SHALL BALANCE THE SYSTEMS TO THE AIRFLOWS INDICATED. NEW AIR DEVICES ARE SHOWN WITH TAG AND AIRFLOW VALUE. SEE AIR DISTRIBUTION SCHEDULE ON SHEET M001 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. LOCATIONS OF RATED WALLS ARE SHOWN BASED ON LIFE SAFETY AS-BUILT PLANS. CONTRACTOR SHALL VERIFY ALL RATED WALL LOCATIONS IN THE FIELD.

#### HVAC LEGEND

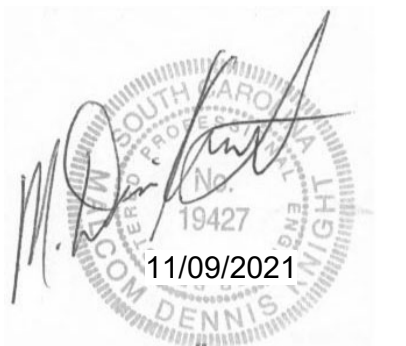
- SUPPLY DUCT RISER
- RETURN DUCT RISER
- EXHAUST DUCT RISER
- NEW DUCTWORK (FIRST DIMENSION IS WIDTH IN INCHES)
- EXISTING DUCTWORK (FIRST DIMENSION IS WIDTH IN INCHES)
- FLEXIBLE DUCTWORK
- DUCTWORK TAKE OFFS (SPIN-IN, CONICAL, SHOE)
- DUCTWORK TRANSITION (CONCENTRIC)
- DUCTWORK TRANSITION (ECCENTRIC)
- DUCTWORK TEE
- TURNING VANE
- RADIUS ELBOW
- INCLINED RISE (R) OR DROP (D), ARROW IN DIRECTION OF AIR FLOW
- MANUAL DAMPER
- HORIZONTAL FIRE (FD), SMOKE (SD), OR COMBINATION FIRE SMOKE (FSD) DAMPER
- MOTORIZED (MD) OR BACKDRAFT (BDD) DAMPER
- SUPPLY DIFFUSER (24"X24" FACE UNLESS NOTED OTHERWISE)
- SUPPLY REGISTER (SIDEWALL)
- RETURN AIR GRILLE (24"X24" FACE UNLESS NOTED OTHERWISE)
- EXHAUST AIR GRILLE (24"X24" FACE UNLESS NOTED OTHERWISE)
- RETURN OR EXHAUST AIR GRILLE (SIDEWALL)
- AREA OF DEMOLITION
- DISCONNECT FROM EXISTING
- CONNECT TO EXISTING
- EXISTING OAU ('X' DENOTES EQUIPMENT TAG)
- EXISTING RTU ('X' DENOTES EQUIPMENT TAG)
- EXISTING SSHP OUTDOOR UNIT ('X' DENOTES EQUIPMENT TAG)
- EXISTING SSHP INDOOR UNIT ('X' DENOTES EQUIPMENT TAG)
- EXISTING CEILING EXHAUST FAN ('X' DENOTES EQUIPMENT TAG)
- EXISTING ROOF MOUNTED EXHAUST FAN ('X' DENOTES EQUIPMENT TAG)
- NEW DOAS ('X' DENOTES EQUIPMENT TAG)
- NEW RTU ('X' DENOTES EQUIPMENT TAG), PRECEDENT STYLE UNIT
- NEW RTU ('X' DENOTES EQUIPMENT TAG), IMPACK STYLE UNIT
- NEW SSHP INDOOR UNIT ('X' DENOTES EQUIPMENT TAG)
- NEW SSHP OUTDOOR UNIT ('X' DENOTES EQUIPMENT TAG)
- NEW CEILING EXHAUST FAN ('X' DENOTES EQUIPMENT TAG)
- NEW ROOF MOUNTED EXHAUST FAN ('X' DENOTES EQUIPMENT TAG)
- NEW DUCTLESS SPLIT SYSTEM INDOOR UNIT ('X' DENOTES EQUIPMENT TAG)
- NEW DUCTLESS SPLIT SYSTEM OUTDOOR (CONDENSING UNIT) ('X' DENOTES EQUIPMENT TAG)
- THERMOSTAT (DOTTED LINE SHOWS ASSOCIATED UNIT(S))

#### ABBREVIATIONS

- A/E ARCHITECT / ENGINEER
- AD ACCESS DOOR
- AFB ABOVE FINISHED FLOOR
- AFMS AIRFLOW MEASURING STATION
- AP ACCESS PANEL
- APD AIR PRESSURE DROP
- BAS BUILDING AUTOMATION SYSTEM
- BDD BACKDRAFT DAMPER
- BHP BRAKE HORSEPOWER
- BTU BRITISH THERMAL UNIT
- BTUH BRITISH THERMAL UNIT PER HOUR
- CC COOLING COIL
- CFM CUBIC FEET PER MINUTE
- CM CARBON MONOXIDE
- CO CLEAN OUT
- CO2 CARBON DIOXIDE
- COP COEFFICIENT OF PERFORMANCE
- CU CONDENSING UNIT
- CV CONSTANT VOLUME
- DB DRY BULB
- DDC DIRECT DIGITAL CONTROLS
- DEG DEGREE
- DOM DOMESTIC
- DHWR DOMESTIC HOT WATER RETURN
- DP DEW POINT
- DX DIRECT EXPANSION
- EA EXHAUST AIR
- EAT ENTERING AIR TEMPERATURE
- EER ENERGY EFFICIENCY RATIO
- ESP EXTERNAL STATIC PRESSURE
- ETR EXISTING TO REMAIN
- EX OR (E) EXISTING
- F FAHRENHEIT
- FA FREE AREA
- FC FLEXIBLE CONNECTION
- FT FEET
- HGR OR HGRH HOT GAS REHEAT
- HOA HAND/OFF/AUTOMATIC
- HP HORSEPOWER
- HX HEAT EXCHANGER
- HZ HERTZ
- IO INPUT/OUTPUT
- IAQ INDOOR AIR QUALITY
- IN INCHES
- IN HG INCHES OF MERCURY
- IN WC INCHES WATER COLUMN
- IPLY INTEGRATED PART LOAD VALUE
- LAT LEAVING AIR TEMPERATURE
- LBS/HR POUNDS PER HOUR
- LF LINEAR FOOT (FEET)
- MAT MIXED AIR TEMPERATURE
- MAX MAXIMUM
- MBH 1000 BTUH
- MCA MINIMUM CIRCUIT AMPACITY
- MERV MINIMUM EFFICIENCY REPORTING VALUE
- MIN MINIMUM
- MCCP MAXIMUM OVERCURRENT PROTECTION
- NA NOT APPLICABLE
- NC NOISE CRITERIA
- NOM NOMINAL
- NTS NOT TO SCALE
- OA OUTSIDE AIR
- OAD OUTDOOR AIR DAMPER
- PD PRESSURE DROP
- PPM PARTS PER MILLION
- PSI POUNDS PER SQUARE INCH
- PSIG POUNDS PER SQUARE INCH - GAGE
- RA RETURN AIR
- RH RELATIVE HUMIDITY
- RHC REHEAT COIL
- RPM REVOLUTIONS PER MINUTE
- SA SUPPLY AIR
- SA SOUND ATTENUATOR
- SAT SUPPLY AIR TEMPERATURE
- SCR SILICON CONTROLLED RECTIFIER
- SP STATIC PRESSURE
- SS STAINLESS STEEL
- TAB TESTING, ADJUSTING, AND BALANCING
- TSP TOTAL STATIC PRESSURE
- TSTAT THERMOSTAT
- VAV VARIABLE AIR VOLUME
- VFD VARIABLE FREQUENCY DRIVE
- W WATTS
- WB WET BULB



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SCHOOL MAU  
REPLACEMENT**  
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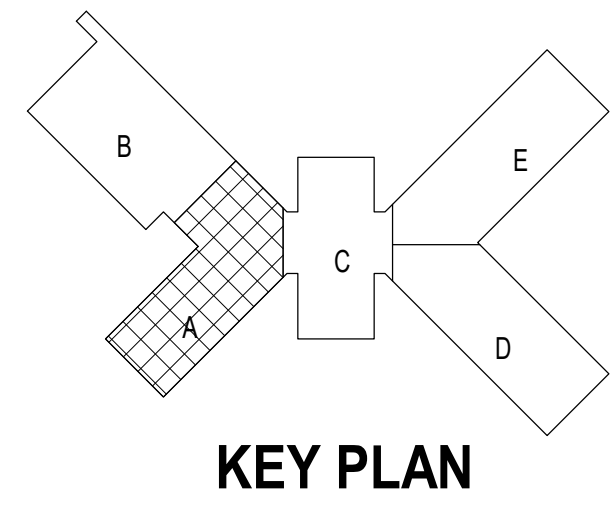
**PROJ. NO.:** 2109001  
**DATE:** 11/09/2021  
**DESIGNED BY:** MDK  
**DRAWN BY:** BRW  
**CHECKED BY:** MDK

#### REVISIONS

NO.	DATE	NOTES

HVAC LEGEND,  
NOTES, AND  
ABBREVIATIONS

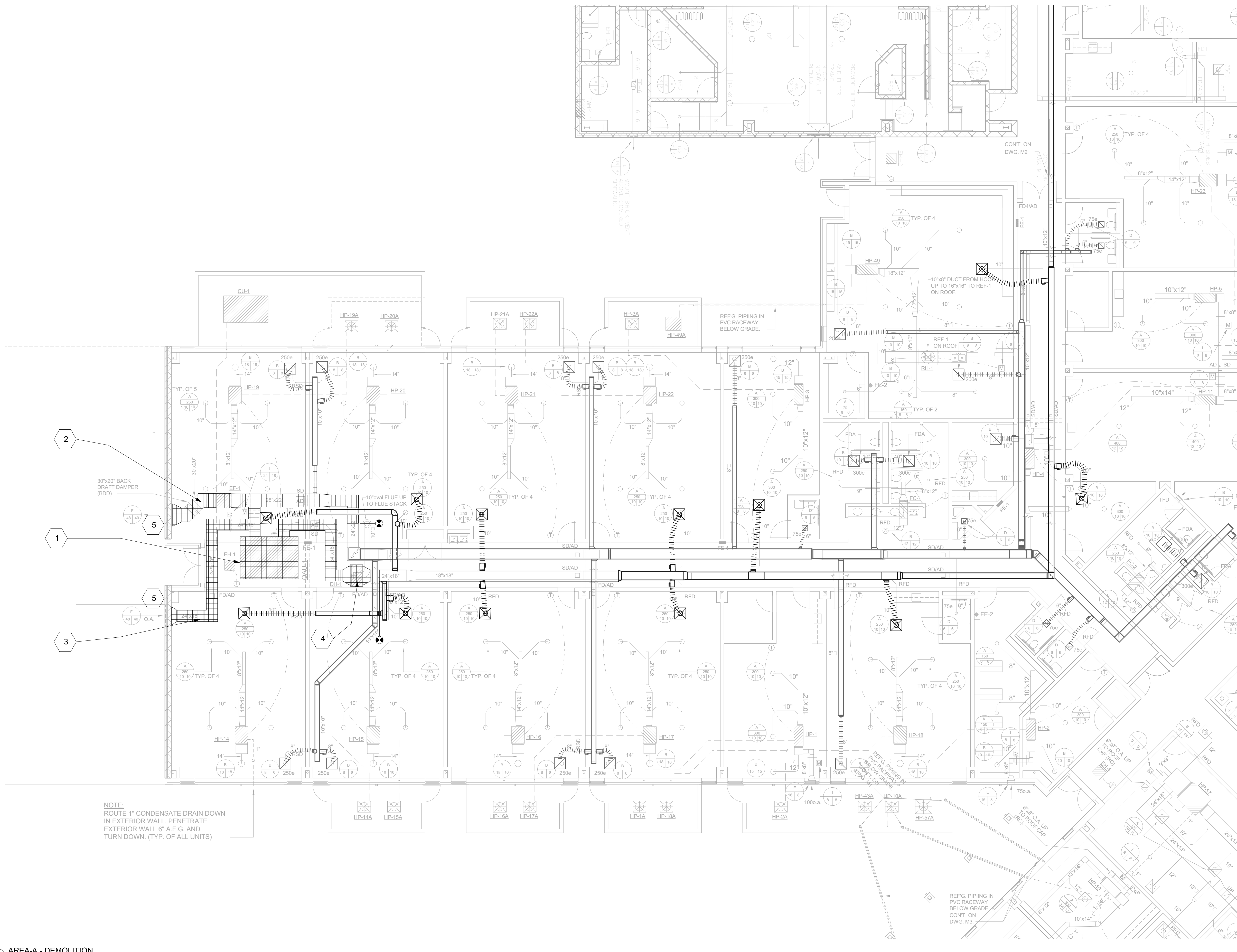
# M001



**DEMOLITION WORK GENERAL NOTE**

1. ALL WORK SHOWN IS EXISTING TO REMAIN UNLESS INDICATED OTHERWISE

DEMOLITION KEYNOTES	
Number	Demolition Keynote
1	REMOVE MAU COMPLETE INCLUDING, BUT NOT LIMITED TO, DUCTWORK CONNECTIONS, REFRIGERANT LINES, CONDENSATE LINES, CONTROLS, POWER CONNECTIONS, ACCESSORIES AND APPURTENANCES.
2	REMOVE EXHAUST DUCT COMPLETE FROM EXHAUST LOUVER TO POINT INDICATED INCLUDING, BUT NOT LIMITED TO, DUCT, HANGERS, INSULATION.
3	REMOVE OUTSIDE AIR INTAKE DUCT COMPLETE FROM INTAKE LOUVER TO MAU DUCT CONNECTION INCLUDING, BUT NOT LIMITED TO, DUCT, HANGERS AND INSULATION.
4	REMOVE DUCT MOUNTED GAS FIRED UNIT HEATER COMPLETE INCLUDING, BUT NOT LIMITED TO, FLUE PIPE DUCT, HANGERS, INSULATION. FLUE PIPE SHALL BE REMOVED TO JUST BELOW THE ROOF. CAP AND WEATHERPROOF THE VENT ABOVE THE ROOF.
5	BLANK-OFF EXISTING LOUVER. BLANK-OFF SHALL INCLUDE 2" POLYISO CLOSED CELL BOARD 100% ADHERED TO SHEETMETAL.



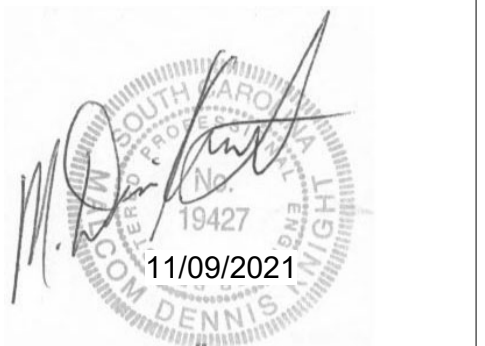
NOTE:  
ROUTE 1" CONDENSATE DRAIN DOWN  
IN EXTERIOR WALL. PENETRATE  
EXTERIOR WALL 6" A.F.G. AND  
TURN DOWN. (TYP. OF ALL UNITS)

1 AREA-A - DEMOLITION  
1/8" = 1'-0"

Revised to Code Compliance  
The user shall verify that the information provided on this drawing is accurate and complete. The user shall be responsible for any errors or omissions on this drawing. The user shall be responsible for any changes to this drawing. The user shall be responsible for any updates to this drawing. The user shall be responsible for any revisions to this drawing. The user shall be responsible for any modifications to this drawing. The user shall be responsible for any alterations to this drawing. The user shall be responsible for any amendments to this drawing. The user shall be responsible for any supplements to this drawing. The user shall be responsible for any additions to this drawing. The user shall be responsible for any deletions to this drawing. The user shall be responsible for any substitutions to this drawing. The user shall be responsible for any replacements to this drawing. The user shall be responsible for any corrections to this drawing. The user shall be responsible for any improvements to this drawing. The user shall be responsible for any enhancements to this drawing. The user shall be responsible for any upgrades to this drawing. The user shall be responsible for any updates to this drawing. The user shall be responsible for any revisions to this drawing. The user shall be responsible for any modifications to this drawing. The user shall be responsible for any alterations to this drawing. The user shall be responsible for any amendments to this drawing. The user shall be responsible for any supplements to this drawing. The user shall be responsible for any additions to this drawing. The user shall be responsible for any deletions to this drawing. The user shall be responsible for any substitutions to this drawing. The user shall be responsible for any replacements to this drawing. The user shall be responsible for any corrections to this drawing. The user shall be responsible for any improvements to this drawing. The user shall be responsible for any enhancements to this drawing. The user shall be responsible for any upgrades to this drawing.



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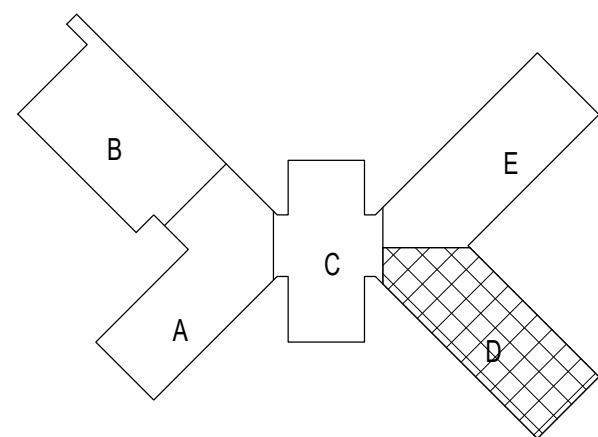
PROJ. NO. 2109001  
DATE: 11/09/2021  
DESIGNED BY: MDK  
DRAWN BY: BRW  
CHECKED BY: MDK

**REVISIONS**

NO.	DATE	NOTES

AREA-A -  
DEMOLITION

**MD101**

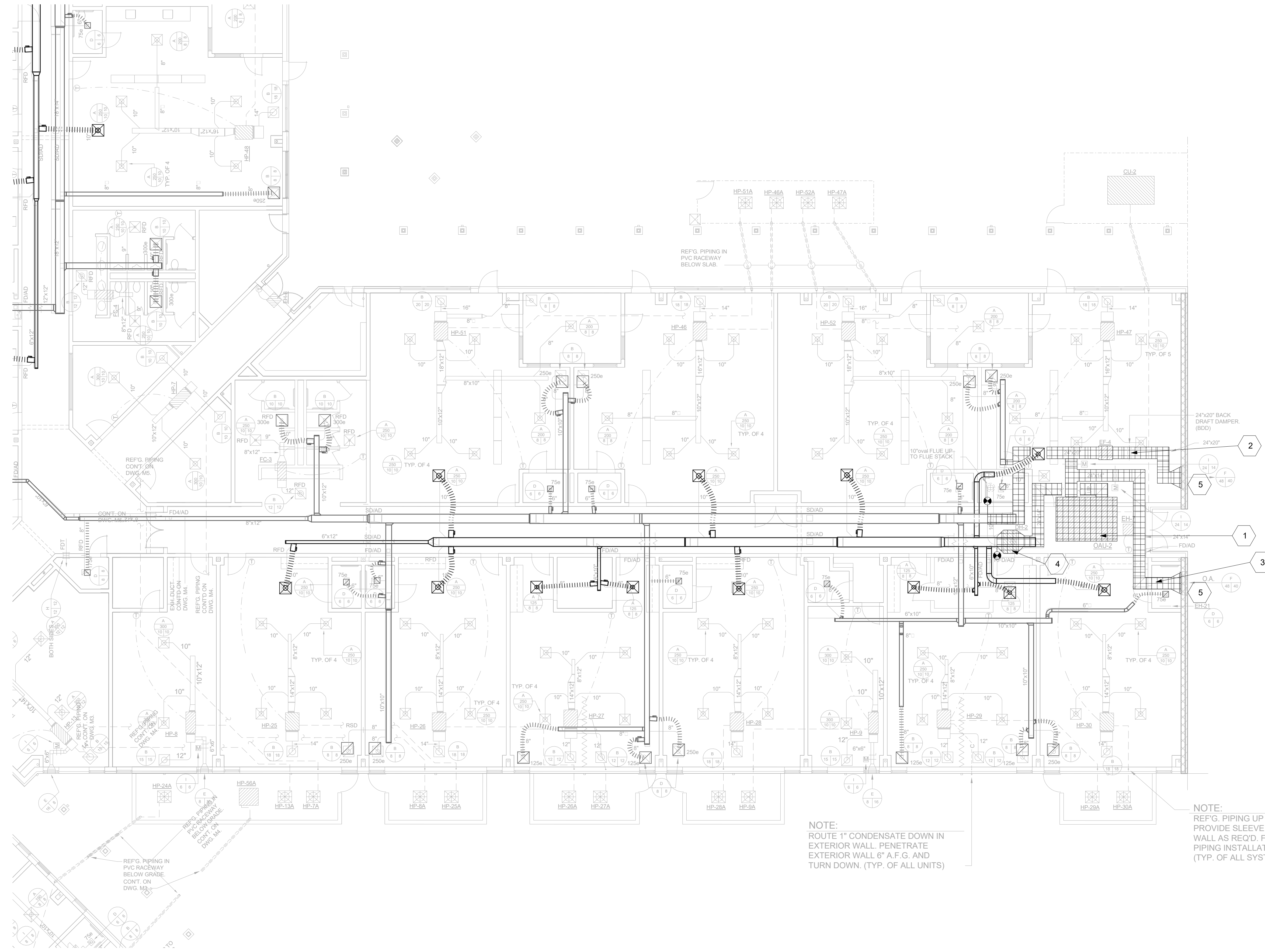


KEY PLAN

**DEMOLITION WORK GENERAL NOTE**

1. ALL WORK SHOWN IS EXISTING TO REMAIN UNLESS INDICATED OTHERWISE

DEMOLITION KEYNOTES	
Number	Demolition Keynote
1	REMOVE MAU COMPLETE INCLUDING, BUT NOT LIMITED TO, DUCTWORK CONNECTIONS, REFRIGERANT LINES, CONDENSATE LINES, CONTROLS, POWER CONNECTIONS, ACCESSORIES AND APPURTENANCES.
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5	BLANK-OFF EXISTING LOUVER. BLANK-OFF SHALL INCLUDE 2" POLYISO CLOSED CELL BOARD 100% ADHERED TO SHEETMETAL.



NOTE:  
ROUTE 1" CONDENSATE DOWN IN EXTERIOR WALL. PENETRATE EXTERIOR WALL 6" A.F.G. AND TURN DOWN. (TYP. OF ALL UNITS)

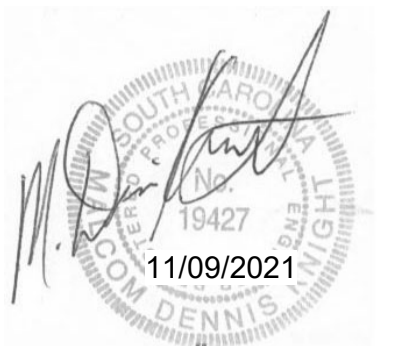
NOTE:  
REF'G. PIPING UP IN WALL. PROVIDE SLEEVE IN CMU WALL AS REQ'D. FOR REF'G. PIPING INSTALLATION. (TYP. OF ALL SYSTEMS)

REVISIONS

1 AREA-D - DEMOLITION  
1/8" = 1'-0"



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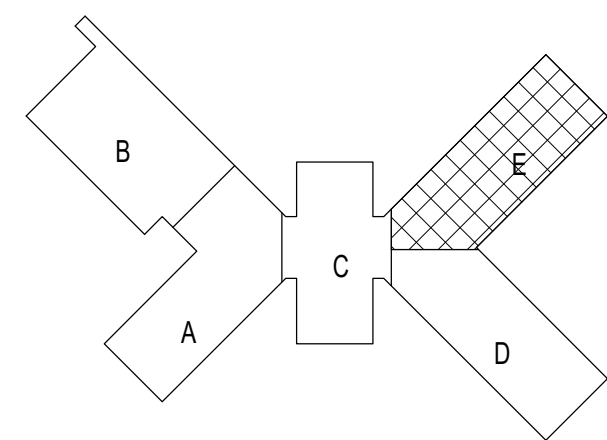
PROJ. NO. 2109001  
DATE: 11/09/21  
DESIGNED BY: MDK  
DRAWN BY: BRW  
CHECKED BY: MDK

REVISIONS

NO.	DATE	NOTES

AREA-D -  
DEMOLITION

**MD102**



KEY PLAN

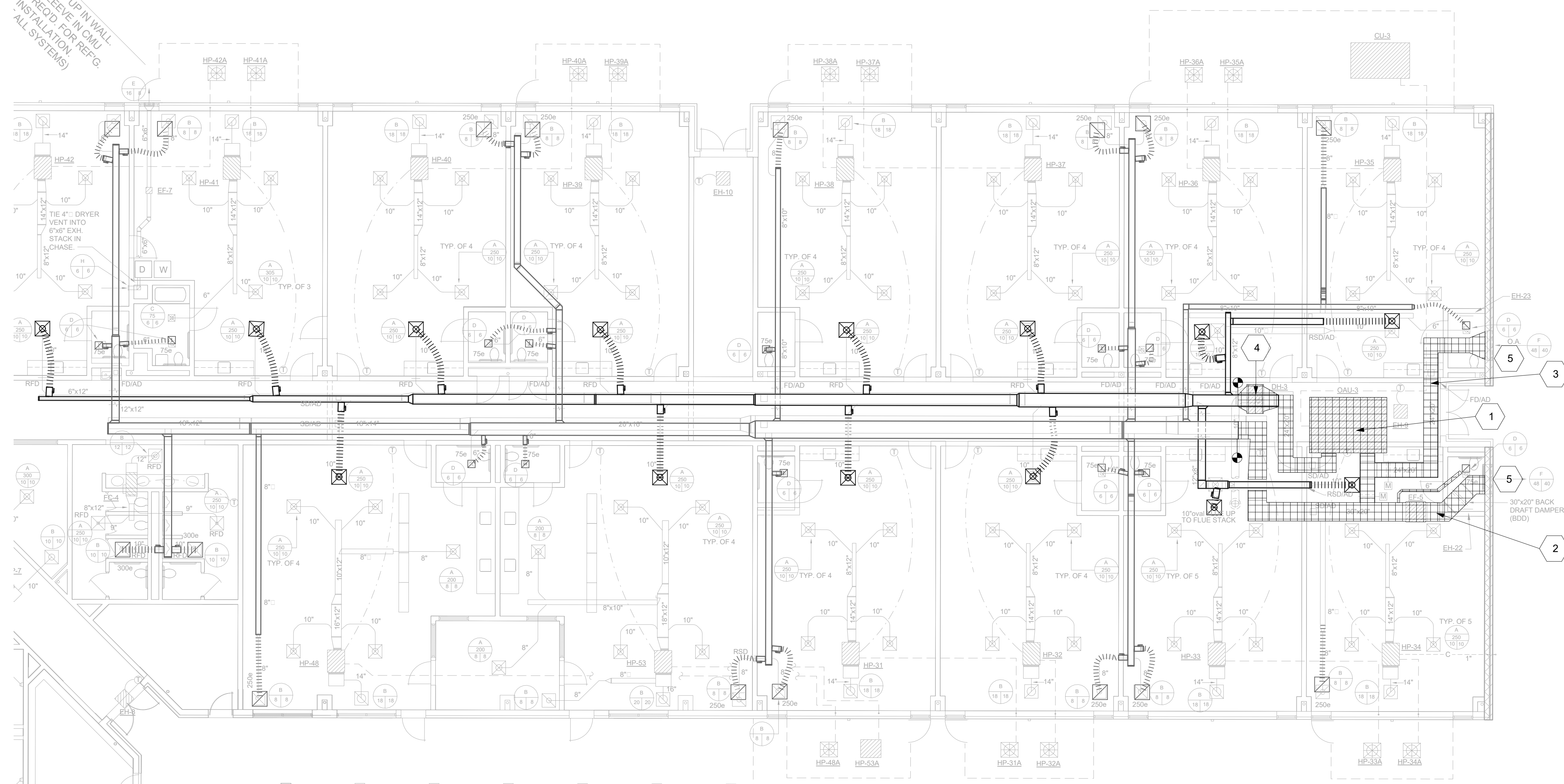
**DEMOLITION WORK GENERAL NOTE**

1. ALL WORK SHOWN IS EXISTING TO REMAIN UNLESS INDICATED OTHERWISE

DEMOLITION KEYNOTES	
Number	Demolition Keynote
1	REMOVE MAU COMPLETE INCLUDING, BUT NOT LIMITED TO, DUCTWORK CONNECTIONS, REFRIGERANT LINES, CONDENSATE LINES, CONTROLS, POWER CONNECTIONS, ACCESSORIES AND APPURTENANCES.
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5	BLANK-OFF EXISTING LOUVER. BLANK-OFF SHALL INCLUDE 2" POLYISO CLOSED CELL BOARD 100% ADHERED TO SHEETMETAL.

ROUTE RFP CONDENSATE DRAIN DOWN IN EXTERIOR WALL TO THE STREET. SEE P-1.5 AND T-10.000.

NOTE: REFRIG. PIPING UP IN WALL TO PROVIDE SLEEVE FOR CHU (HAS REFRIG. FOR ALL SYSTEMS).



**Revised CD Submittal**

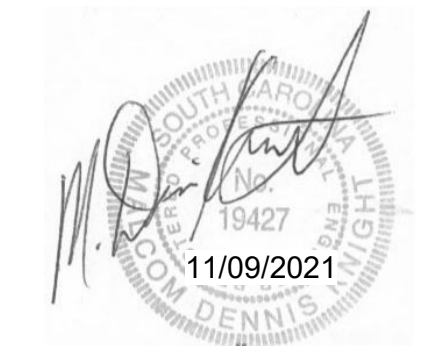
This revision for each component shall not exceed the original design and technical specifications and shall be submitted to the Authority Having Jurisdiction (AHJ) for review and approval. The AHJ's review does not constitute an endorsement of the design or construction of the component. The design and construction of these components shall be approved by the Building Official. Other AHJ's Rules and Regulations.

Approved: \_\_\_\_\_  
 Date: 11/09/2021  
 Time: 1:00 PM  
 Signature: [Signature]

1 AREA-E - DEMOLITION  
1/8" = 1'-0"



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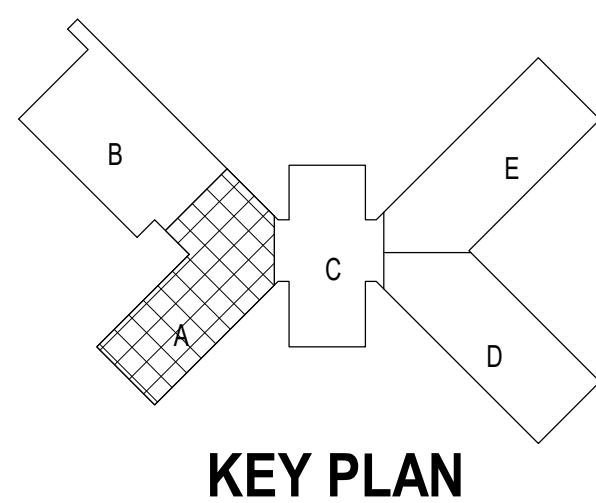
**LORIS ELEMENTARY  
 SCHOOL MAU  
 REPLACEMENT**  
 901 SC-9 BUSINESS, LORIS, SC 29569

PROJ. NO. 2109001  
 DATE: 11/09/2021  
 DESIGNED BY: MDK  
 DRAWN BY: BRW  
 CHECKED BY: MDK

REVISIONS		
NO.	DATE	NOTES

AREA-E - DEMOLITION

**MD103**



**NEW WORK GENERAL NOTE**

1. ALL WORK SHOWN IS NEW UNLESS INDICATED OTHERWISE

New Work Keynotes	
Number	New Work Keynote Text
1	INSTALL NEW UNIT ON NEW EQUIPMENT PAD. EQUIPMENT PAD SHALL BE 12" LARGER ALL AROUND THAN NEW UNIT PROVIDED. PIPE CONDENSATE AWAY FROM UNIT TO PROVIDE PROPER DRAINAGE.
2	NEW DUCT SHALL BE INSULATED AND WRAPPED WITH WEATHERPROOF ALUMINUM JACKET. SUPPORT DUCT TO EXTERIOR WALL AND SEAL AROUND WALL OPENINGS WHERE DUCT PENETRATES INTO BUILDING.
3	TIE NEW DUCT INTO EXISTING DUCT
4	BLANK-OFF EXISTING LOUVER. BLANK-OFF SHALL INCLUDE 2" POLYISO INSULATION 100% ADHERED TO SHEETMETAL.
5	EXISTING DUCT AND EQUIPMENT SHOWN FOR REFERENCE ONLY.
6	TYPICAL FOR ALL DOAS SUPPLY GRILLES - REUSE EXISTING GRILLE AND BALANCE TO NEW AIRFLOW SHOWN
7	TYPICAL FOR ALL DOAS EXHAUST GRILLES - REUSE EXISTING GRILLE AND BALANCE TO NEW AIRFLOW SHOWN
8	ALL GREYED OUT OR LIGHT LINEWORK SYSTEMS AND EQUIPMENT ARE EXISTING TO REMAIN. EXISTING DOAS SUPPLY AND EXHAUST DUCTWORK ARE SHOWN IN HEAVY LINE WEIGHTS FOR CLARITY. - TYPICAL



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 901 SC-9 BUSINESS, LORIS, SC 29569

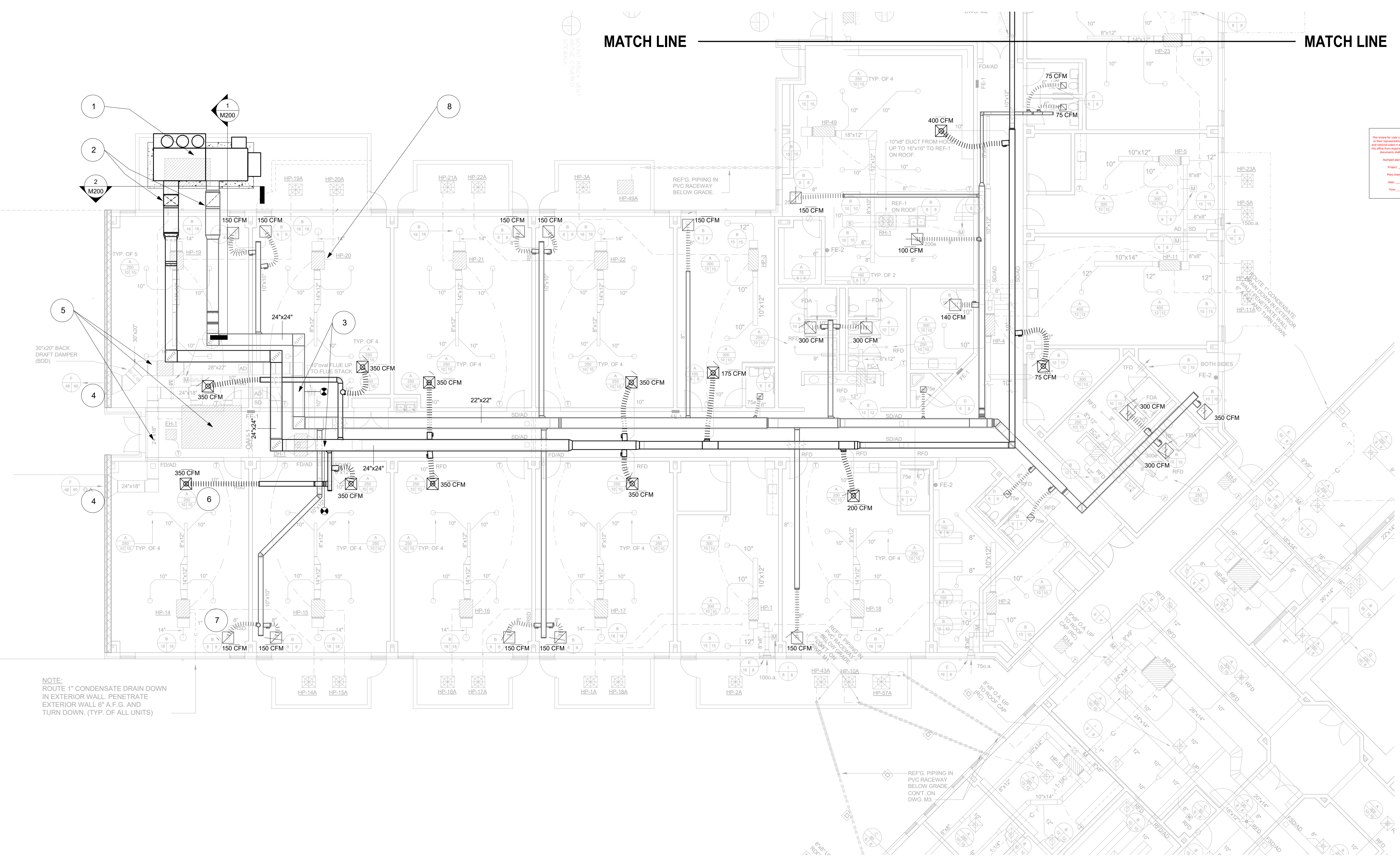
PROJ. NO. 2109001  
 DATE: 11/09/2021  
 DESIGNED BY: MDK  
 DRAWN BY: BRW  
 CHECKED BY: MDK

REVISIONS		
NO.	DATE	NOTES

AREA-A - NEW WORK

**M101**

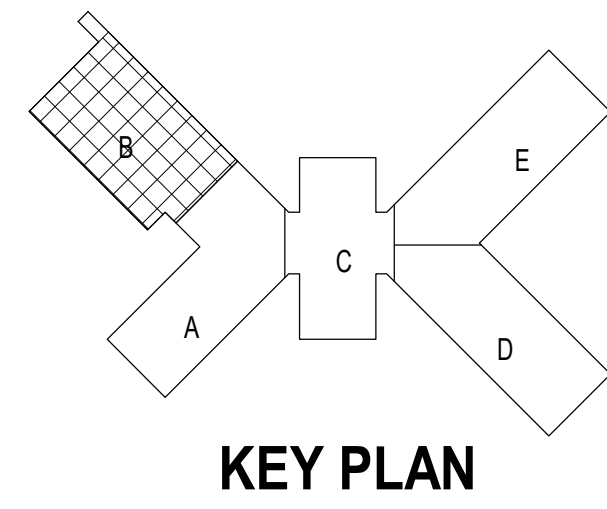
100% CD SUBMITTAL



NOTE:  
 ROUTE 1" CONDENSATE DRAIN DOWN IN EXTERIOR WALL, PENETRATE EXTERIOR WALL 6" A.F.G. AND TURN DOWN. (TYP. OF ALL UNITS)

1 AREA-A - NEW WORK  
 1/8" = 1'-0"

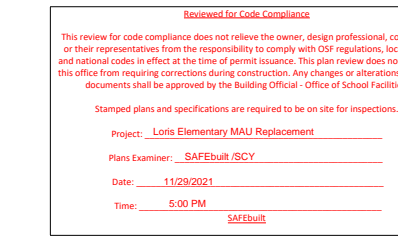




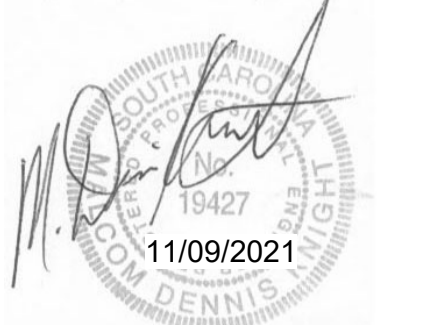
**NEW WORK GENERAL NOTE**

1. ALL WORK SHOWN IS NEW UNLESS INDICATED OTHERWISE

New Work Keynotes	
Number	New Work Keynote Text
1	INSTALL NEW UNIT ON NEW EQUIPMENT PAD. EQUIPMENT PAD SHALL BE 12" LARGER ALL AROUND THAN NEW UNIT PROVIDED. PIPE CONDENSATE AWAY FROM UNIT TO PROVIDE PROPER DRAINAGE.
2	NEW DUCT SHALL BE INSULATED AND WRAPPED WITH WEATHERPROOF ALUMINUM JACKET. SUPPORT DUCT TO EXTERIOR WALL AND SEAL AROUND WALL OPENINGS WHERE DUCT PENETRATES INTO BUILDING.
3	TIE NEW DUCT INTO EXISTING DUCT
4	BLANK-OFF EXISTING LOUVER. BLANK-OFF SHALL INCLUDE 2" POLYISO INSULATION 100% ADHERED TO SHEETMETAL.
5	EXISTING DUCT AND EQUIPMENT SHOWN FOR REFERENCE ONLY.
6	TYPICAL FOR ALL DOAS SUPPLY GRILLES - REUSE EXISTING GRILLE AND BALANCE TO NEW AIRFLOW SHOWN
7	TYPICAL FOR ALL DOAS EXHAUST GRILLES - REUSE EXISTING GRILLE AND BALANCE TO NEW AIRFLOW SHOWN
8	ALL GREYED OUT OR LIGHT LINEWORK SYSTEMS AND EQUIPMENT ARE EXISTING TO REMAIN. EXISTING DOAS SUPPLY AND EXHAUST DUCTWORK ARE SHOWN IN HEAVY LINE WEIGHTS FOR CLARITY - TYPICAL



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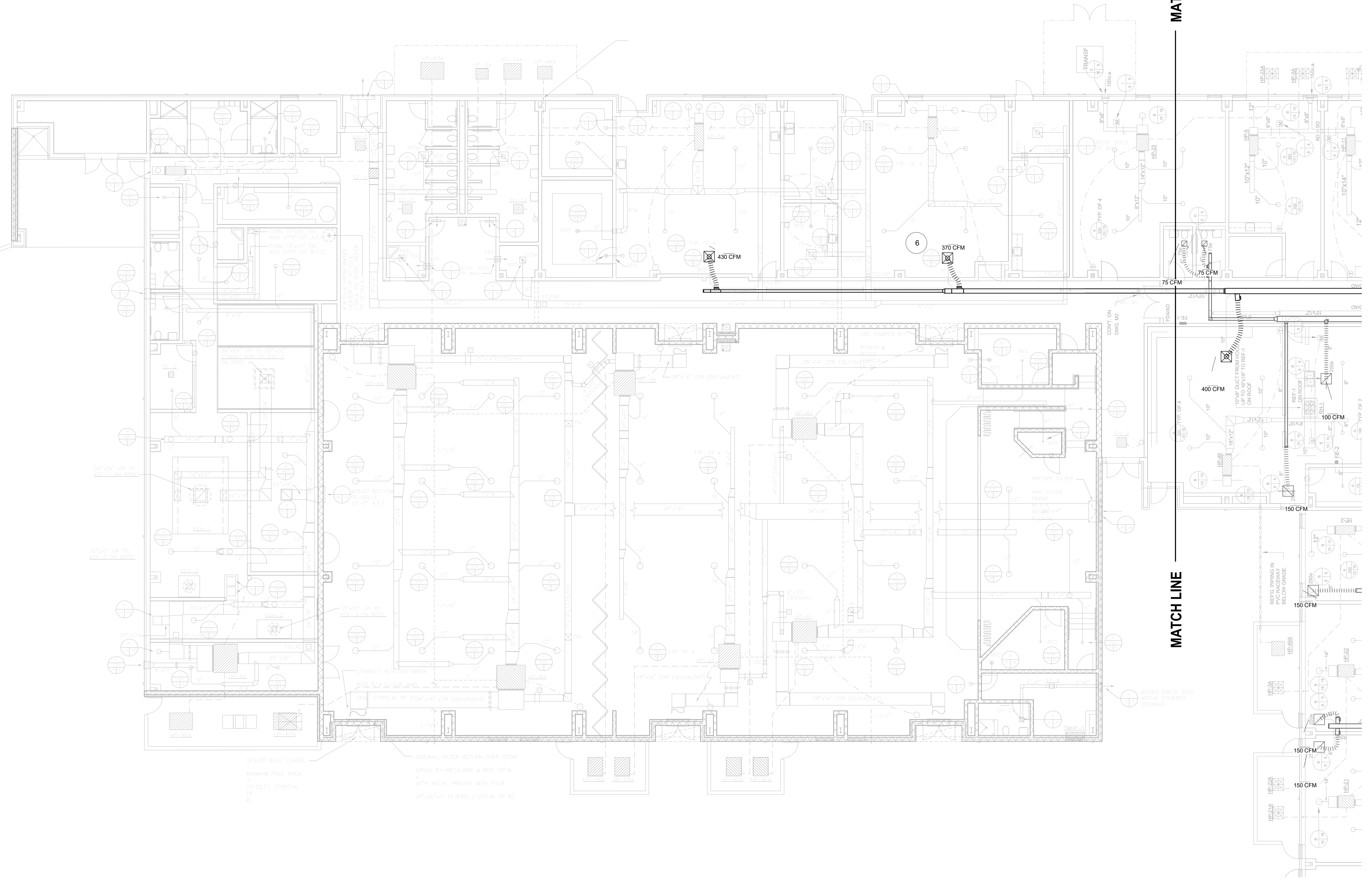
**LORIS ELEMENTARY  
 SCHOOL MAU  
 REPLACEMENT**  
 901 SC-9 BUSINESS, LORIS, SC 29569

PROJ. NO. 2109001  
 DATE: 11/09/21  
 DESIGNED BY: MDK  
 DRAWN BY: BRW  
 CHECKED BY: MDK

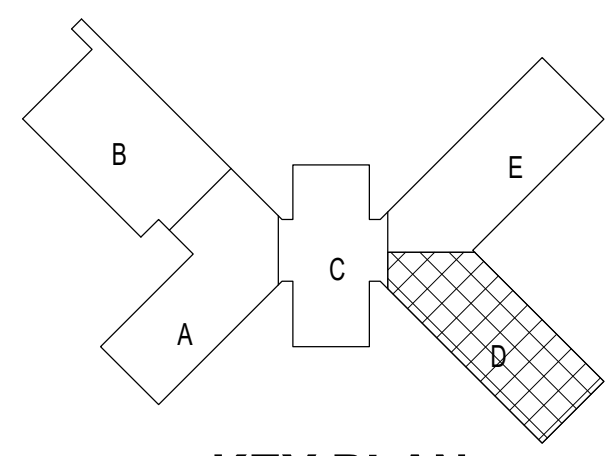
REVISIONS		
NO.	DATE	NOTES

AREA-B - NEW WORK

**M102**



1 AREA-B - NEW WORK  
 1/8" = 1'-0"



KEY PLAN

**NEW WORK GENERAL NOTE**

1. ALL WORK SHOWN IS NEW UNLESS INDICATED OTHERWISE

**REVISIONS**

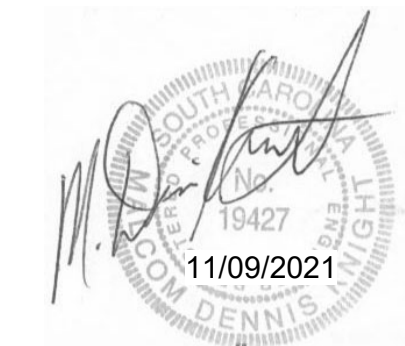
NO.	DATE	NOTES
1	11/09/2021	ISSUED FOR PERMIT

**New Work Keynotes**

Number	New Work Keynote Text
1	INSTALL NEW UNIT ON NEW EQUIPMENT PAD. EQUIPMENT PAD SHALL BE 12" LARGER ALL AROUND THAN NEW UNIT PROVIDED. PIPE CONDENSATE AWAY FROM UNIT TO PROVIDE PROPER DRAINAGE.
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8	ALL GREYED OUT OR LIGHT LINWORK SYSTEMS AND EQUIPMENT ARE EXISTING TO REMAIN. EXISTING DOAS SUPPLY AND EXHAUST DUCTWORK ARE SHOWN IN HEAVY LINE WEIGHTS FOR CLARITY. - TYPICAL



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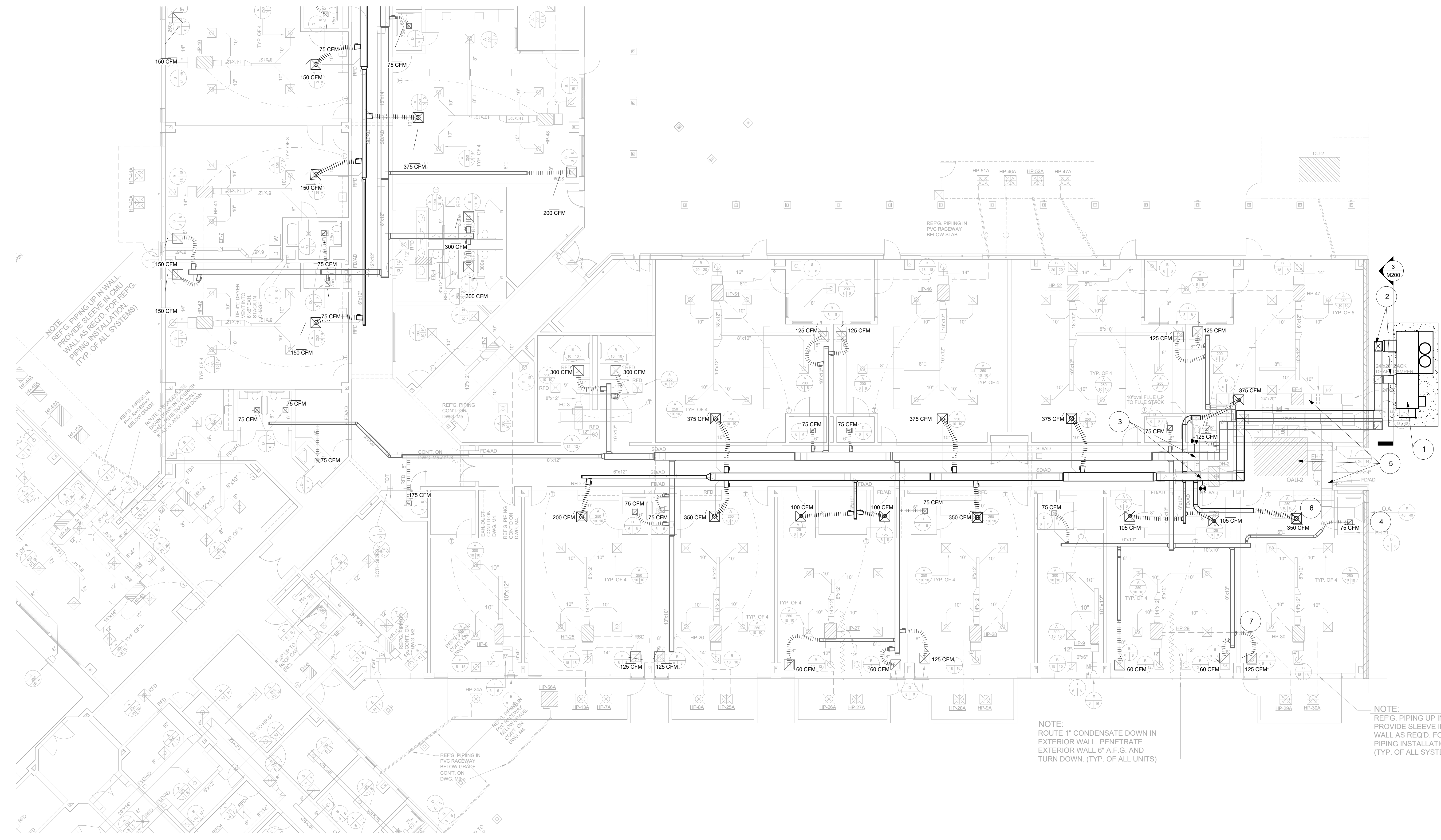
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 DATE: 11/09/2021  
 DESIGNED BY: Designer  
 DRAWN BY: Author  
 CHECKED BY: Checker

**REVISIONS**

NO.	DATE	NOTES
1	11/09/2021	ISSUED FOR PERMIT

AREA-D - NEW WORK

**M103**



1 AREA-D - NEW WORK  
 1/8" = 1'-0"

NOTE:  
 ROUTE 1" CONDENSATE DOWN IN EXTERIOR WALL. PENETRATE EXTERIOR WALL 6" A.F.C. AND TURN DOWN (TYP. OF ALL UNITS)

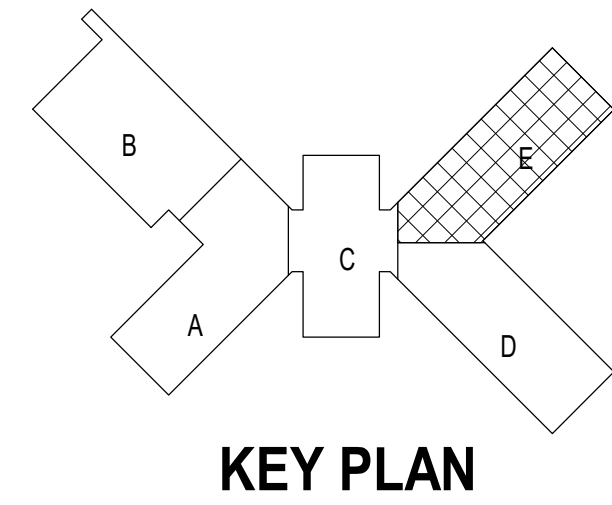
NOTE:  
 REF'G. PIPING UP IN WALL. PROVIDE SLEEVE IN CMU WALL AS REQ'D. FOR REF'G. PIPING INSTALLATION. (TYP. OF ALL SYSTEMS)

NOTE:  
 REF'G. PIPING UP IN WALL. PROVIDE SLEEVE IN WALL AS REQ'D. FOR REF'G. PIPING INSTALLATION. (TYP. OF ALL SYSTEMS)

NOTE:  
 REF'G. PIPING IN PVC RACEWAY BELOW GRADE. CONT. ON DWG. M3.

NOTE:  
 REF'G. PIPING IN PVC RACEWAY BELOW GRADE. CONT. ON DWG. M3.

NOTE:  
 REF'G. PIPING IN PVC RACEWAY BELOW GRADE. CONT. ON DWG. M3.



**NEW WORK GENERAL NOTE**

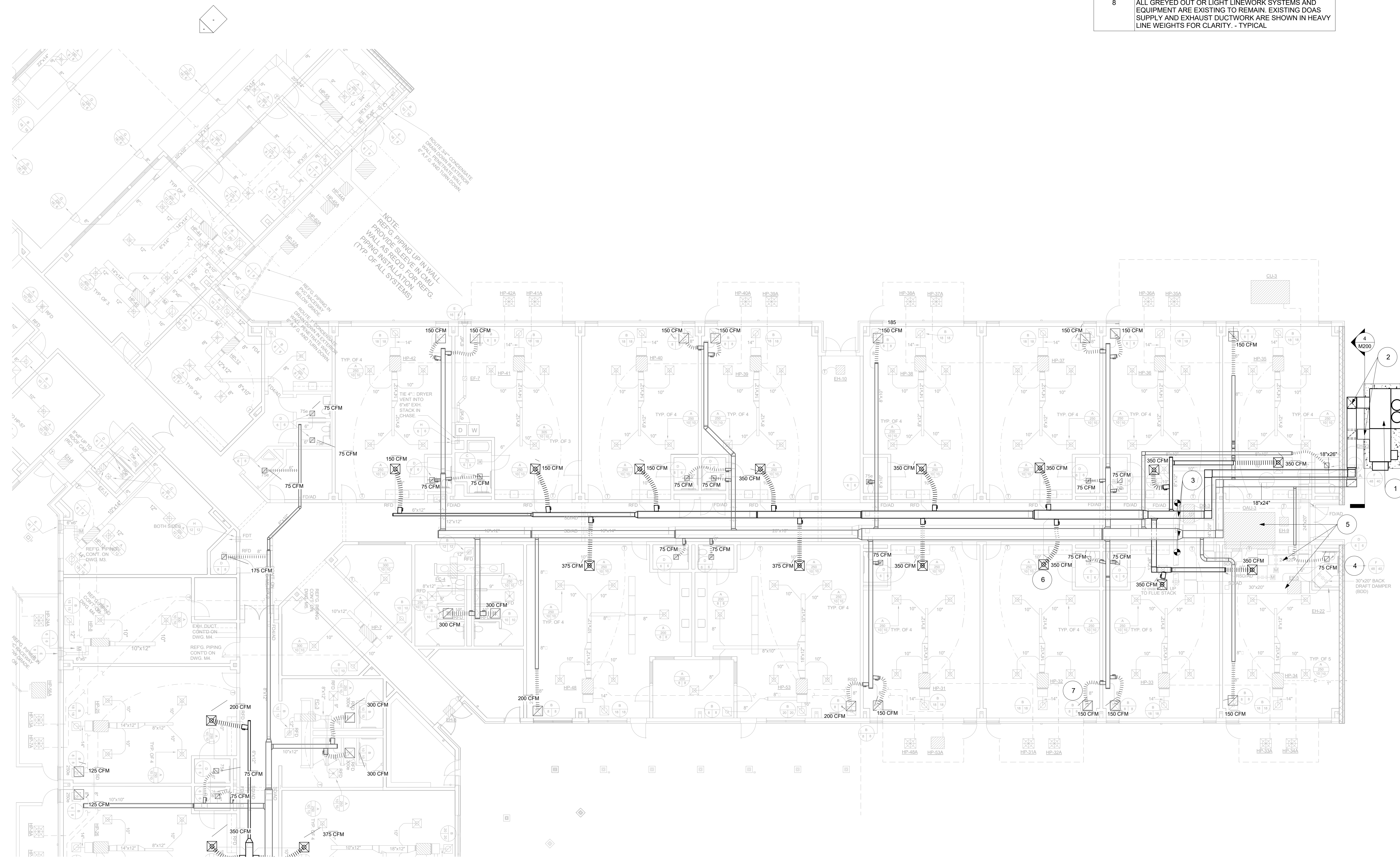
1. ALL WORK SHOWN IS NEW UNLESS INDICATED OTHERWISE

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Revised: 11/09/2021  
 Date: 11/09/2021  
 Time: 8:00 PM

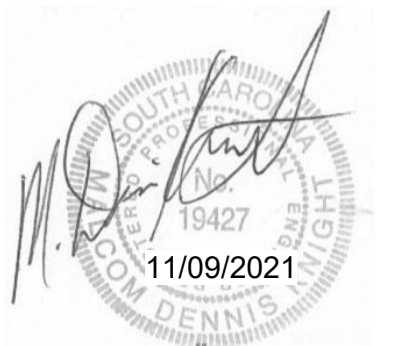
New Work Keynotes	
Number	New Work Keynote Text
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1 AREA-E - NEW WORK  
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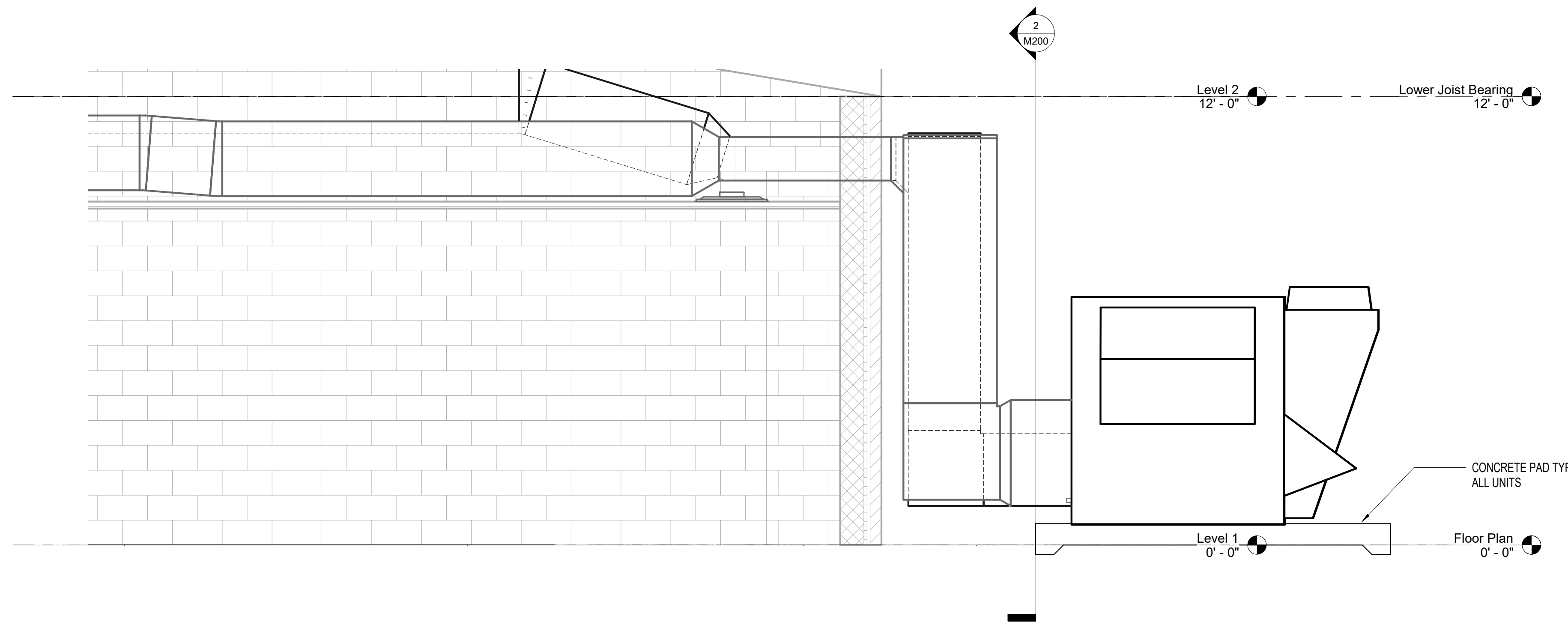
**LORIS ELEMENTARY  
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 901 SC-9 BUSINESS, LORIS, SC 29569

PROJ. NO. 2109001  
 DATE: 11/09/2021  
 DESIGNED BY: Designer  
 DRAWN BY: Author  
 CHECKED BY: Checker

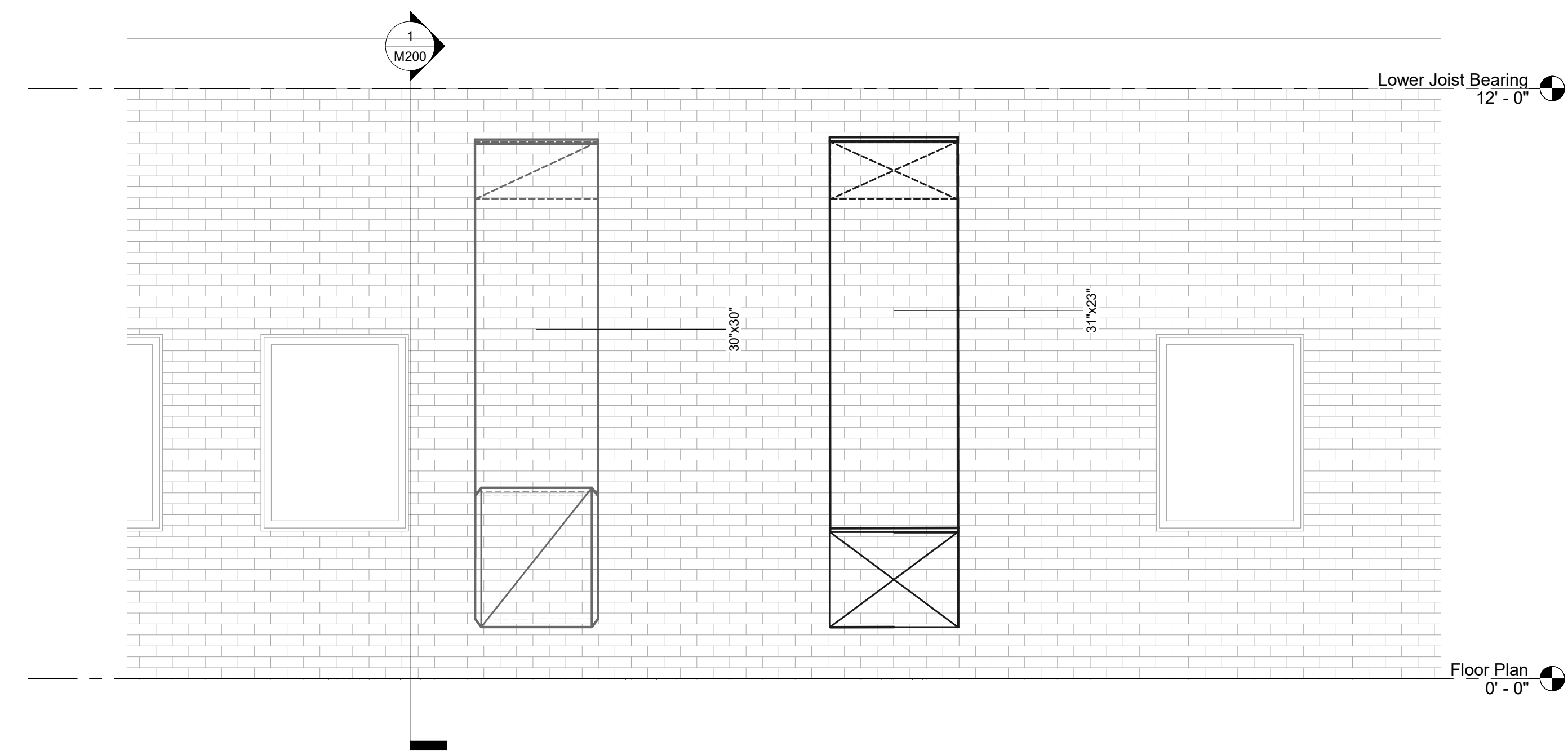
REVISIONS		
NO.	DATE	NOTES

AREA-E - NEW WORK

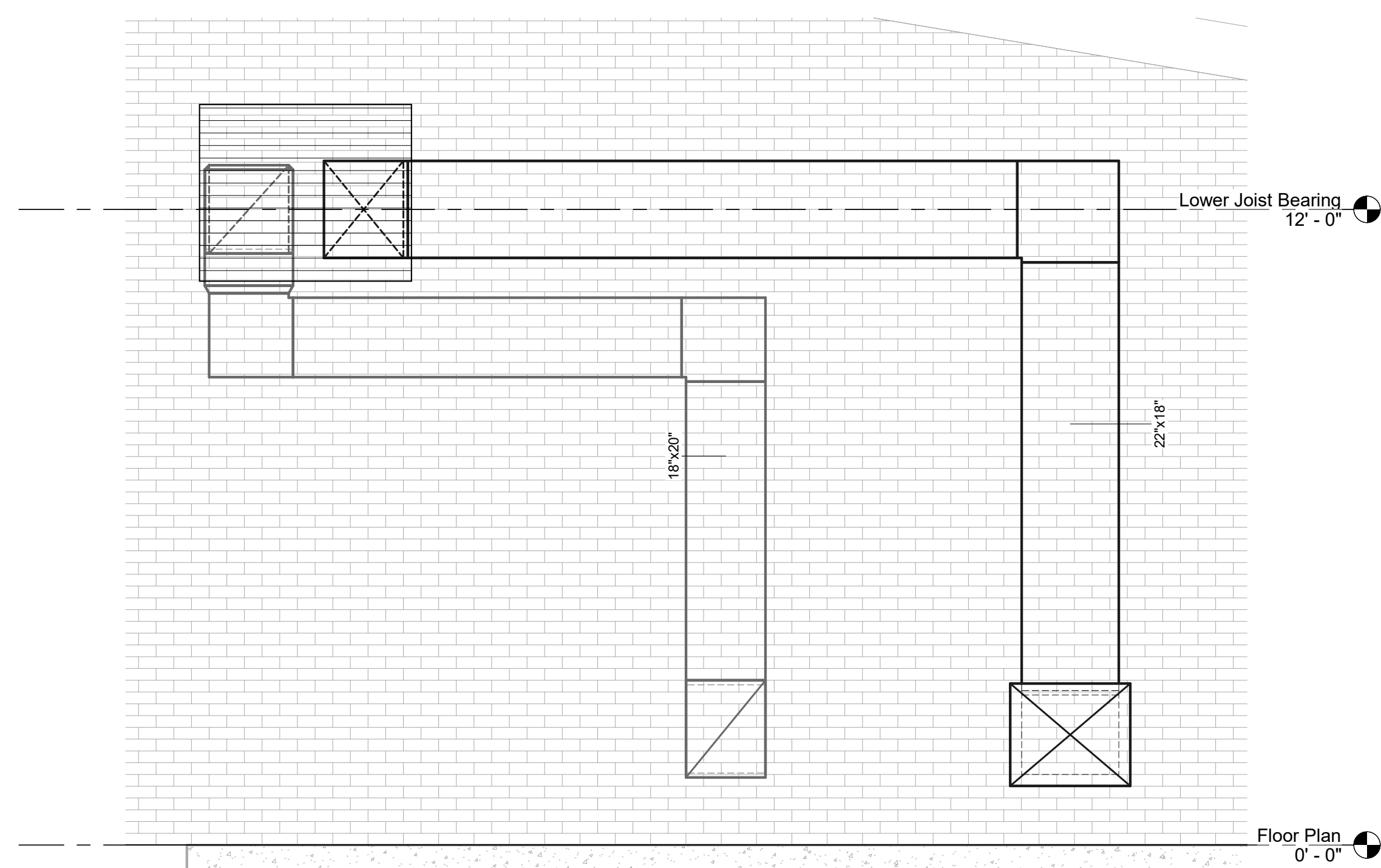
**M104**



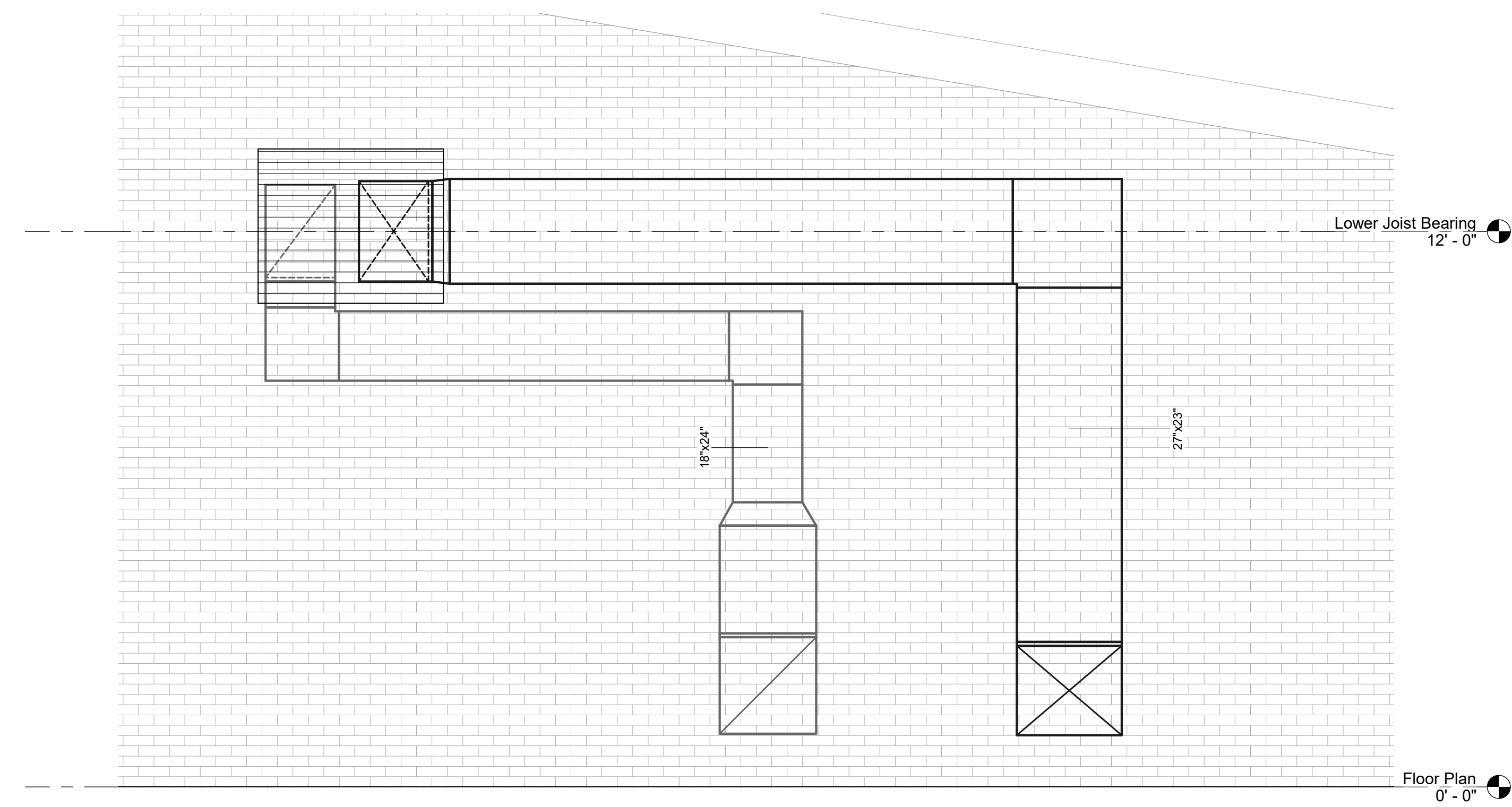
1 DOAS-1 SIDE ELEVATION  
1/2" = 1'-0"



2 DOAS-1 ELEVATION  
1/2" = 1'-0"



3 DOAS-2 ELEVATION  
1/2" = 1'-0"



4 DOAS-3 ELEVATION  
1/2" = 1'-0"

Reviewed for Code Compliance

This review for code compliance does not relieve the owner, design professional, contractor or their representatives from the responsibility to comply with all applicable local, state and national codes in effect at the time of permit issuance. This plan review does not prevent this office from requiring correction during construction. Any changes or alterations to these documents shall be approved by the Building Official - Office of School Facilities.

Stamped plans and specifications are required to be on site for inspections.

Project: Loris Elementary MAU Replacement

Plans Examiner: SAF/Ebuilt/SCY

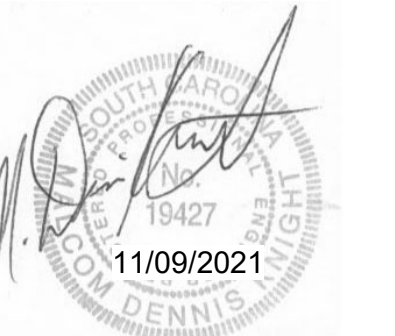
Date: 11/29/2021

Time: 5:00 PM

SAF/Ebuilt



Whole Building Systems LLC  
P.O. Box 1845  
Mt. Pleasant, South Carolina  
29465  
PH: (843) 637-3358  
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**LORIS ELEMENTARY  
SCHOOL MAU  
REPLACEMENT**  
901 SC-9 BUSINESS, LORIS, SC 29569

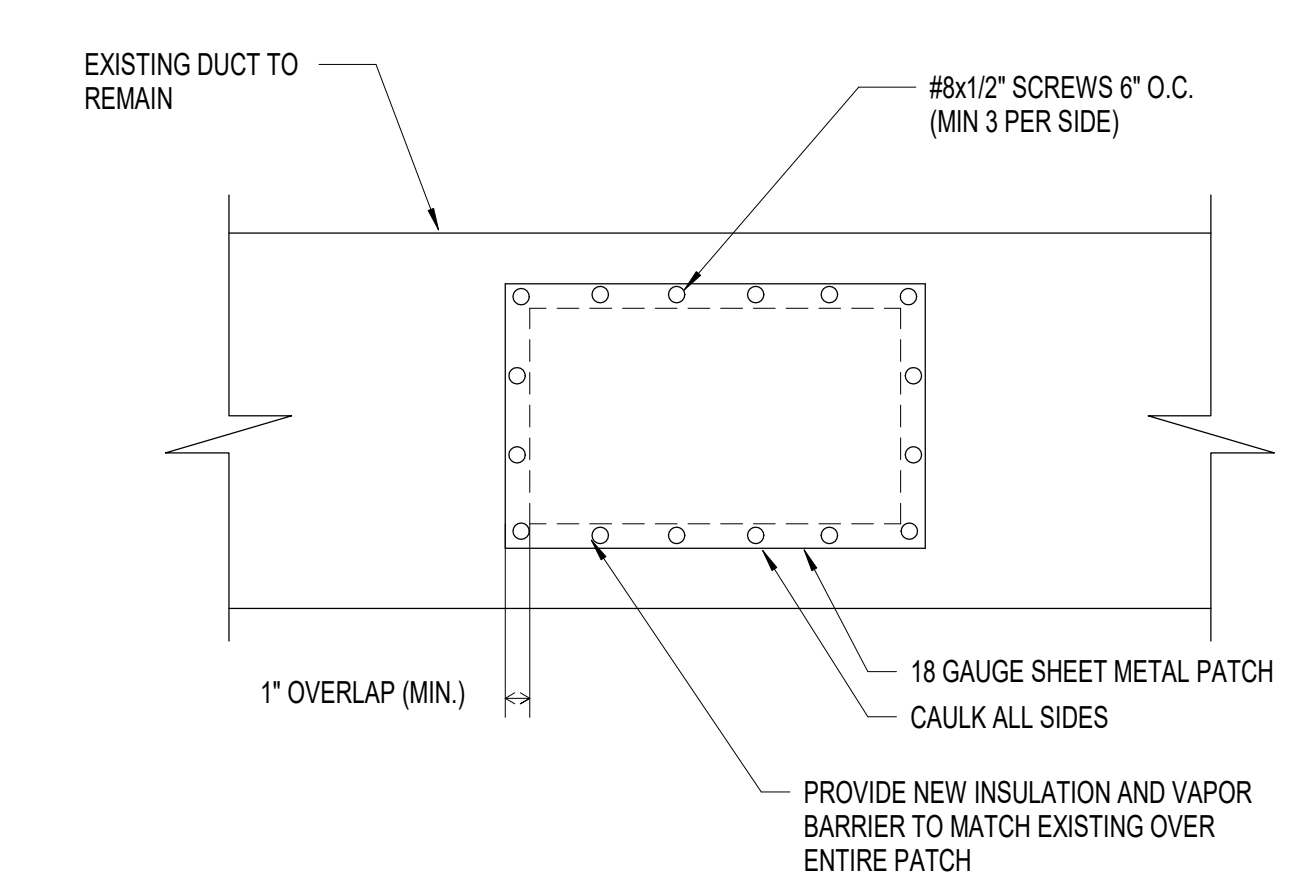
PROJ. NO. 2109001  
DATE: 11/09/2021  
DESIGNED BY: MDK  
DRAWN BY: BRW  
CHECKED BY: MDK

REVISIONS

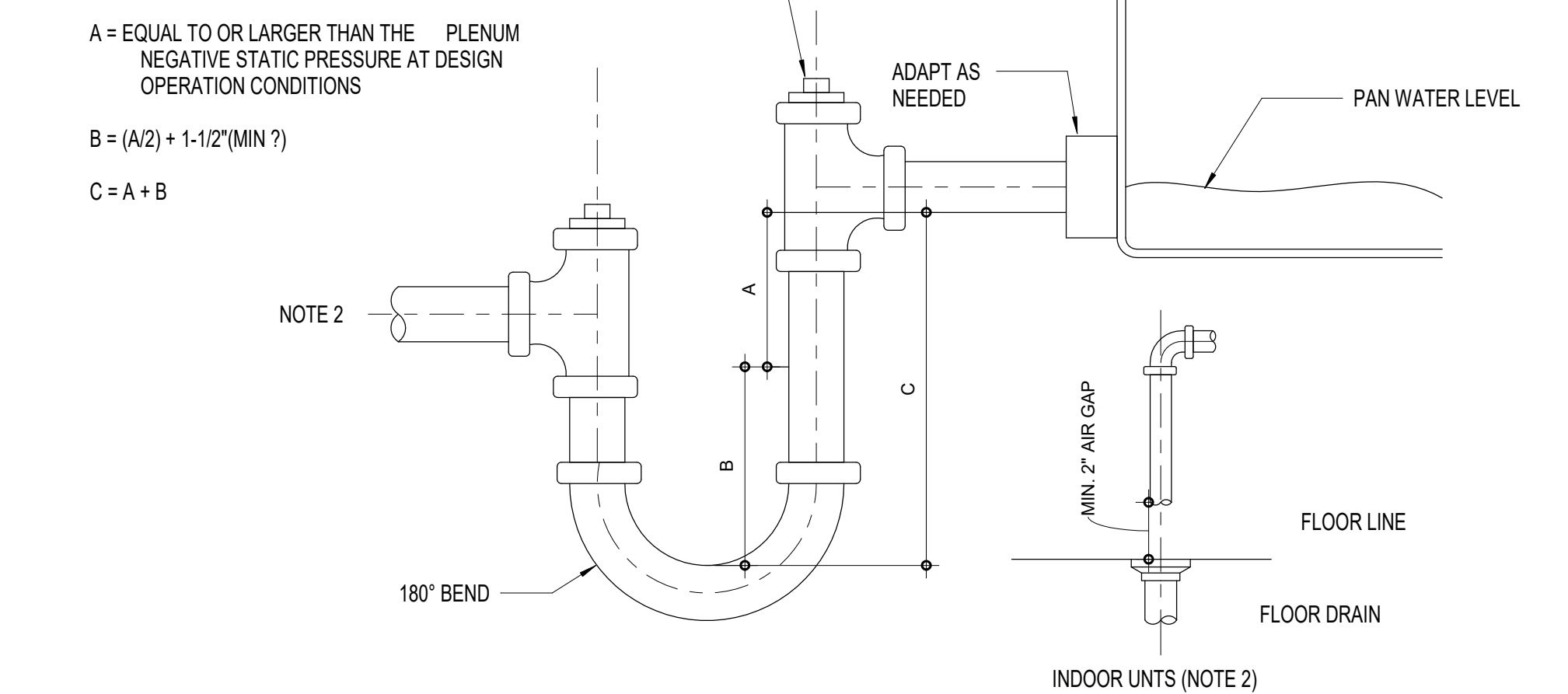
NO.	DATE	NOTES

ELEVATIONS

M200



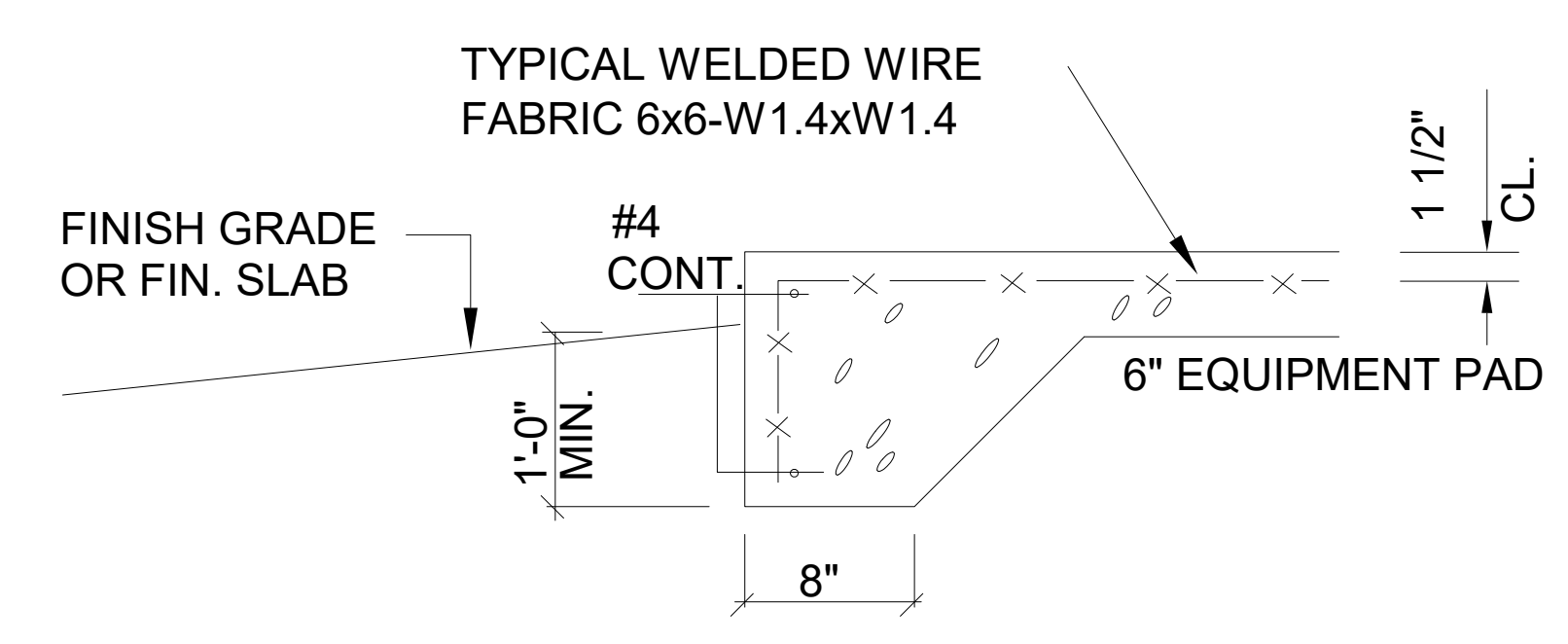
1 DUCT PATCH DETAIL  
NOT TO SCALE



A = EQUAL TO OR LARGER THAN THE PLENUM NEGATIVE STATIC PRESSURE AT DESIGN OPERATION CONDITIONS  
 B = (A/2) + 1-1/2\"/>

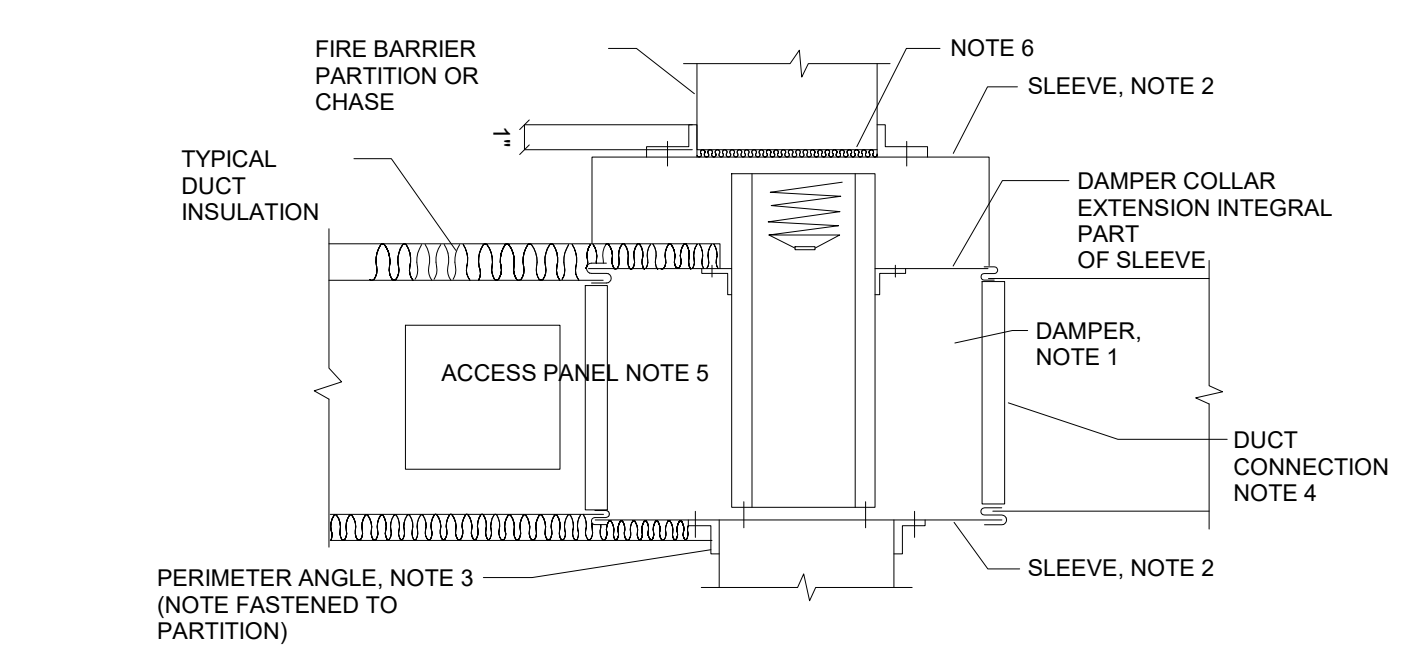
NOTES:  
 1. PROVIDE CONDENSATE DRAIN TRAP SIZED AS INDICATED, OR ALTERNATIVELY AS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL COORDINATE TRAP HEIGHT WITH UNIT DRAIN LOCATION AND EQUIPMENT CURB.  
 2. ROUTE DRAIN PIPING AS INDICATED ON DRAWINGS. FOR EQUIPMENT LOCATED ON ROOF, SEE PIPING SUPPORTS ON ROOF DETAIL. FOR EQUIPMENT LOCATED INDOORS, PROVIDE MINIMUM 2\"/>

2 CONDENSATE DRAIN PIPING FOR DRAW-THRU UNIT DETAIL  
NOT TO SCALE



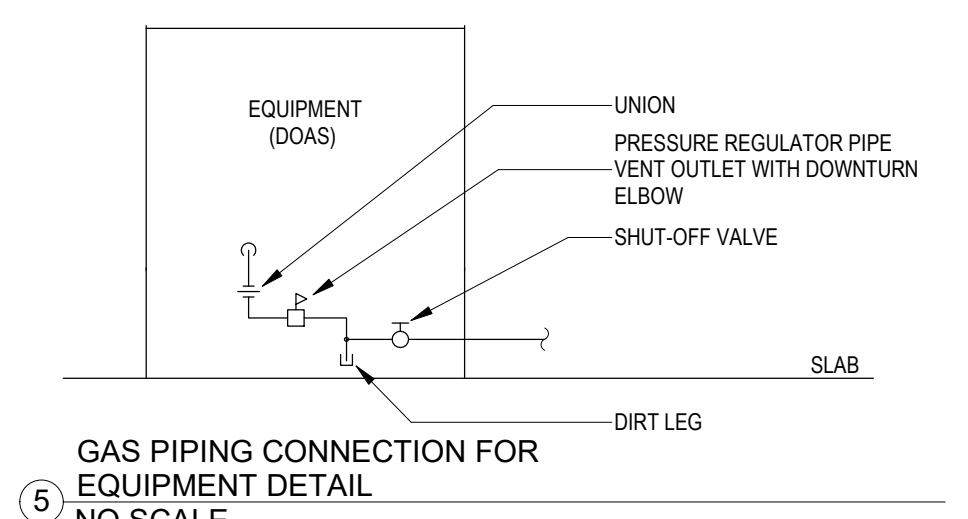
TYPICAL WELDED WIRE FABRIC 6x6-W1.4xW1.4  
 #4 CONT.  
 6\"/>

3 PAD DETAIL  
NOT TO SCALE

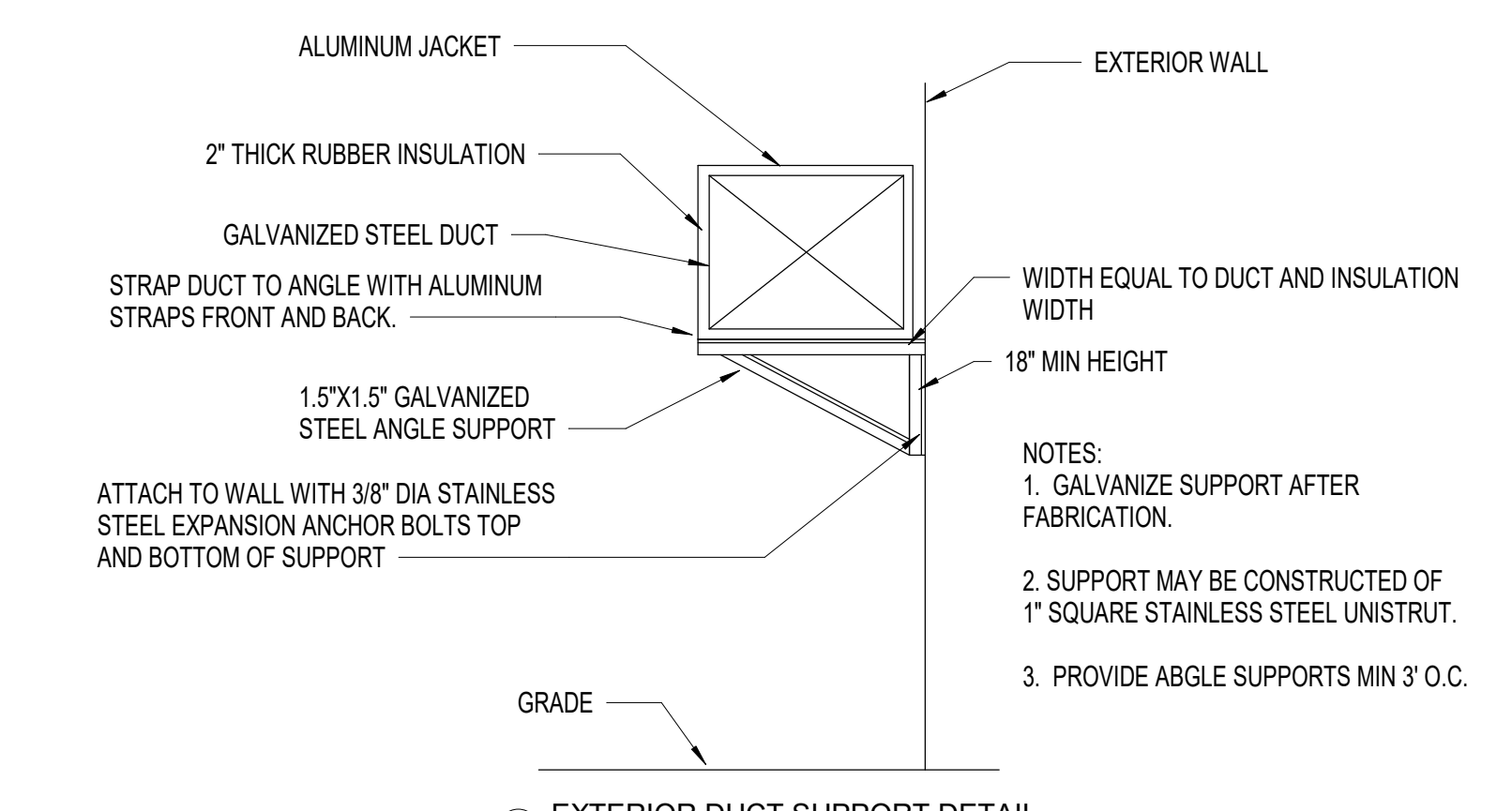


NOTES:  
 1. A VERTICAL DAMPER IS SHOWN. HORIZONTAL DAMPER INSTALLATION IS SIMILAR. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENER OPTIONS AND GAGES FOR SLEEVE AND PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR AND NOT OUTSIDE THE PENETRATION.  
 2. GALVANIZED SLEEVE: GAGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES.  
 3. PERIMETER ANGLES: GALVANIZED STEEL, NOT LESS THAN 1/2\"/>

4 FIRE DAMPER DETAIL  
NOT TO SCALE



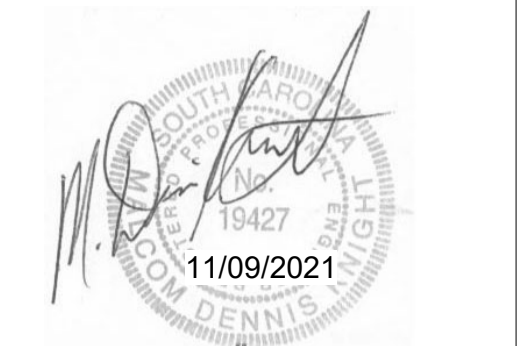
5 GAS PIPING CONNECTION FOR EQUIPMENT DETAIL  
NO SCALE



6 EXTERIOR DUCT SUPPORT DETAIL  
NO SCALE



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**LORIS ELEMENTARY SCHOOL MAU REPLACEMENT**  
 901 SC-9 BUSINESS, LORIS, SC 29569

PROJ. NO. 2109001  
 DATE: 11/09/2021  
 DESIGNED BY: MDK  
 DRAWN BY: BRW  
 CHECKED BY: MDK

REVISIONS		
NO.	DATE	NOTES

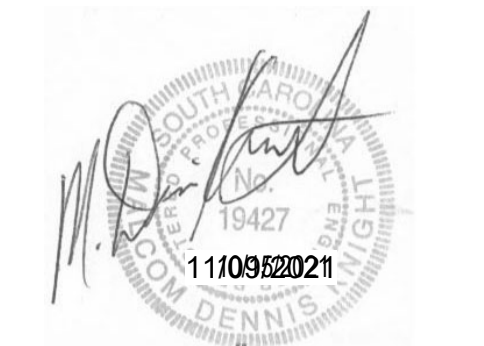
**Business Code Compliance**  
 This code for code compliance does not reflect the owner, design professional, contractor or their representative's responsibility to comply with all applicable local, state, state and national codes in effect at the time of permit issuance. This plan review does not prevent the owner from making corrections as the local authority. Any changes or additions to these documents must be approved by the local authority. Other all other codes apply.  
 Stamped plans and specifications are required to be on file for inspections.  
 Project: Loris Elementary MAU Replacement  
 Plans Examined: RAF/EMD/BCV  
 Date: 11/09/2021  
 Time: 5:00 PM MDK/BRW

HVAC DETAILS

M500



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**LORIS ELEMENTARY  
 SCHOOL MAU  
 REPLACEMENT**  
 901 SC-9 BUSINESS, LORIS, SC 29569

PROJ. NO. 2109001  
 DATE: 11/09/2021  
 DESIGNED BY: MDK  
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 CHECKED BY: MDK

REVISIONS		
NO.	DATE	NOTES

HVAC SCHEDULES

M600

MAKEUP AIR UNIT (DOAS) SCHEDULE																			
EQUIPMENT TAG	SUPPLY FAN							EXHAUST FAN						COOLING COIL					
	AIRFLOW (CFM)	ESP (IN. WC)	FAN TYPE	DRIVE TYPE	FAN RPM	BRAKE HP	MOTOR HP	AIRFLOW (CFM)	ESP (IN. WC)	FAN TYPE	DRIVE TYPE	FAN RPM	BRAKE HP	MOTOR HP	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT (°F DB/WB)	LAT OFF COIL (DB °F)	ISMRE lb/kWh
DOAS-1A	4450	2.0	PLENUM	DIRECT	1586	4.1	5	3475	1.0	PLENUM	DIRECT	1184	1.75	3	307.8	143.4	78.5/71.3	49.3/49.3	6
DOAS-2A	3160	1.8	PLENUM	DIRECT	2111	3.24	5	2775	1.0	PLENUM	DIRECT	1767	1.92	3	195.1	96.7	78.4/70.3	50.6/50.6	5.5
DOAS-3A	4350	1.7	PLENUM	DIRECT	1516	3.6	5	3850	1.0	PLENUM	DIRECT	1274	2.2	5	250.6	132.2	77.6/68.8	50/49.9	6.3
DOAS-1	4450	2.0	PLENUM	DIRECT	2059	3.94	5	3475	1.0	PLENUM	DIRECT	1365	1.87	3	268.1	142.0	77.4/68.5	48.6/48.3	
DOAS-2	3160	2	PLENUM	DIRECT	2207	2.51	3	2775	1.0	PLENUM	DIRECT	1820	1.45	2	205.5	102.0	78.2/70	49.1/48.7	
DOAS-3	4350	1.6	PLENUM	DIRECT	1960	3.42	5	3850	1.0	PLENUM	DIRECT	1352	1.82	3	241.8	130.4	77.3/68.4	50.2/50.1	

MAKEUP AIR UNIT (DOAS) SCHEDULE - CONTINUED																								
ENTHALPY WHEEL PERFORMANCE																								
EQUIPMENT TAG	SUMMER CONDITIONS															WINTER CONDITIONS								
	OUTSIDE AIR			VENTILATION SUPPLY			RETURN AIR			EXHAUST AIR			OUTSIDE AIR			VENTILATION SUPPLY			RETURN AIR			EXHAUST AIR		
	ENT AIRFLOW (CFM)	ENT AIR DB (DEG F)	ENT AIR WB (DEG F)	LVG AIRFLOW (CFM)	LVG AIR DB (DEG F)	LVG AIR WB (DEG F)	ENT AIRFLOW (CFM)	ENT AIR DB (DEG F)	ENT AIR WB (DEG F)	LVG AIRFLOW (CFM)	LVG AIR DB (DEG F)	LVG AIR WB (DEG F)	ENT AIRFLOW (CFM)	ENT AIR DB (DEG F)	ENT AIR WB (DEG F)	LVG AIRFLOW (CFM)	LVG AIR DB (DEG F)	LVG AIR WB (DEG F)	ENT AIRFLOW (CFM)	ENT AIR DB (DEG F)	ENT AIR WB (DEG F)	LVG AIRFLOW (CFM)	LVG AIR DB (DEG F)	LVG AIR WB (DEG F)
DOAS-1A	4450	84.4	80.2	4450	78.5	71.3	3475	75	62.5	3475	82.4	75.5	4450	27	22.7	4450	54	43.7	3475	72	55.8	3475	36.5	32.4
DOAS-2A	3160	84.4	80.2	3160	78.4	70.3	2775	75	62.5	2775	81.7	75.3	3160	27	22.7	3160	54.8	44.8	2775	72	55.8	2775	39.7	34.2
DOAS-3A	4350	84.4	80.2	4350	77.6	68.8	3850	75	62.5	3850	82.6	76.6	4350	27	22.7	4350	58.9	47.5	3850	72	55.8	3850	35.5	30.7
DOAS-1	4450	84.4	80.2	4450	77.4	68.5	3475	75	62.5	3475	82.8	77	4450	27	15	4450	59.9	45.4	3475	72	54.5	3475	34.5	24.2
DOAS-2	3160	84.4	80.2	3160	78.2	70	2775	75	62.5	2775	81.5	74.9	3160	27	15	3160	55.7	42.2	2775	72	54.5	2775	40.9	30.3
DOAS-3	4350	84.4	80.2	4350	77.3	68.4	3850	75	62.5	3850	82.8	77	4350	27	22.7	4350	60	45.6	3850	72	55.8	3850	34.4	24.1

MAKEUP AIR UNIT (DOAS) SCHEDULE - CONTINUED															
EQUIPMENT TAG	HOT GAS REHEAT CAPACITY			GAS HEATER						ELECTRICAL			MANUFACTURER	MODEL	NOTES
	HGR MBH	EAT (°F DB)	LAT OFF COIL (°F DB)	FUEL	INPUT MBH	OUTPUT MBH	EAT (°F DB)	LAT OFF COIL (°F DB)	CONTROL	V/PH/Hz	MIN CIRCUIT AMPACITY (MCA)	MAX FUSE/CKT BREAKER...			
DOAS-1A	121.4	49.3	74.6	LP	300	240	54	104.0	12:1 MODULATING	460/3/60	58.6	70	GREENHECK	RVE-85-52-15H-25D-J	
DOAS-2A	72.7	50.6	71.9	LP	200	160	54.8	101.7	12:1 MODULATING	460/3/60	41.8	50	GREENHECK	RVE-40-41-30H-15D-G	
DOAS-3A	106.2	50	72.6	LP	300	240	58.9	110.0	12:1 MODULATING	460/3/60	52.3	60	GREENHECK	RVE-85-52-30L-20D-J	
DOAS-1	177.6	48.6	71.8	LP	200	160	59.9	93.1	8:1 MODULATING	460/3/61	55.1	70	TRANE	OAKD240D4	
DOAS-2	118.8	49.1	83.9	LP	150	120	55.7	90.7	8:1 MODULATING	460/3/62	41.4	50	TRANE	OADG017F3	
DOAS-3	105.7	50.2	72.7	LP	200	160	60	93.9	8:1 MODULATING	460/3/63	52.2	60	TRANE	OAKD240D4	

- Notes Applicable to All Units
1. Provide units with circuit breaker disconnect sized for units MOCF.
  2. Provide energy recovery wheel with MERV 13 filters on OA intake and MERV 8 filters on exhaust upstream of wheel.
  3. Provide with modulating scroll compressors
  4. Sea-Coast Protected Coat all Coils
  5. Modulating Hot Gas Reheat.
  6. Modulating LP gas heater.
  7. Provide outside air intake hood. Include Open/Closed OA damper actuator and recirculating damper for unoccupied periods or morning warmup.
  8. Coordinate controls with BAS provider (CMI) prior to bid.

Revised by: MDK

This review for code compliance does not affect the owner. Design professional assumes no responsibility for the responsibility to review and approve. Any changes or alterations to these drawings shall be made by the design professional. The design professional shall be responsible for the accuracy of the information provided. All dimensions shall be in feet and inches unless otherwise specified. All dimensions shall be to the center of the member unless otherwise specified.

Standard plans and specifications are required to be on site for inspection.

Project: Loris Elementary MAU Replacement  
 Drawn by: MDK  
 Date: 11/09/2021  
 Time: 8:00 PM

**ELECTRICAL LEGEND**

□ PANEL

**ABBREVIATIONS**

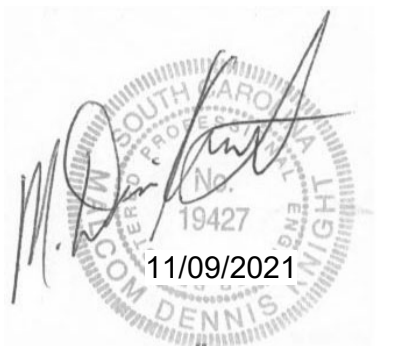
A OR AMPS	AMPERES
BKR	BREAKER
C	CONDUIT
CKT	CIRCUIT
(E) OR EX	EXISTING
ELEC	ELECTRICAL
ETR	EXISTING TO REMAIN
FLA	FULL LOAD AMPS
G	GROUND
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFS	MAXIMUM FUSE SIZE
MOP OR MOCP	MAXIMUM OVERCURRENT PROTECTION

**GENERAL NOTES:**

1. ELECTRICAL FLOOR PLANS ARE SHOWN FOR EQUIPMENT AND PANEL LOCATION REFERENCE ONLY; REFER TO ELECTRICAL EQUIPMENT SCHEDULE ON E600 FOR ADDITIONAL INFORMATION.
2. REFER TO MECHANICAL FLOOR PLANS FOR RATED WALL LOCATIONS.



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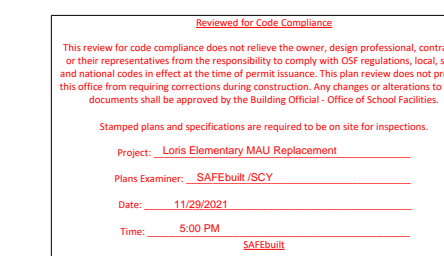


**LORIS ELEMENTARY  
SCHOOL MAU  
REPLACEMENT**  
901 SC-9 BUSINESS, LORIS, SC 29569

**PROJ. NO. 2109001**  
**DATE: 10/15/2021**  
**DESIGNED BY: MDK**  
**DRAWN BY: MDK**  
**CHECKED BY: MDK**

**REVISIONS**

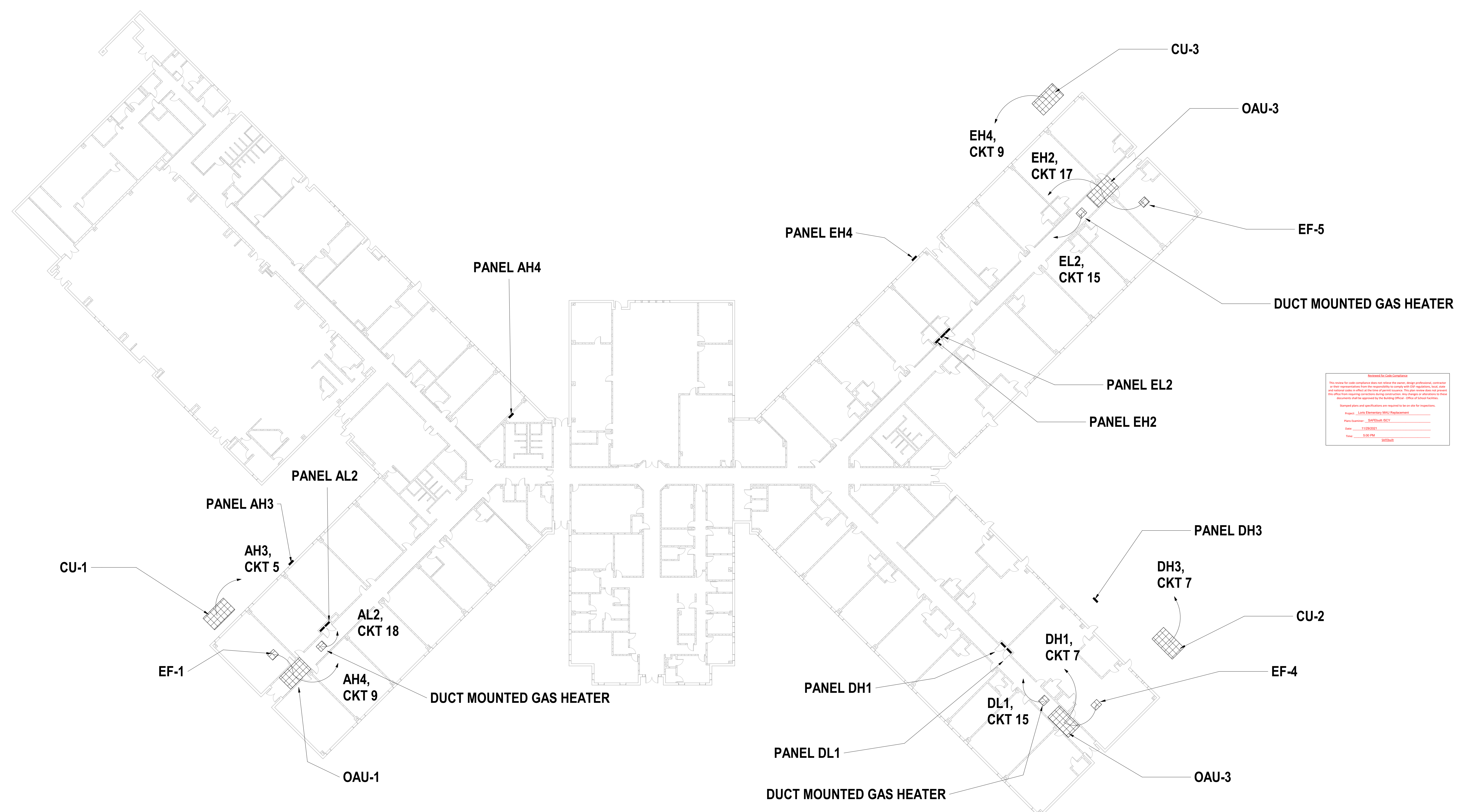
NO.	DATE	NOTES



**ELECTRICAL  
LEGEND, NOTES,  
AND  
ABBREVIATIONS**

**E001**

ELECTRICAL DEMOLITION KEYNOTES	
Number	Electrical Demolition Keynote Text
1	DISCONNECT POWER CIRCUIT CONDUCTORS FROM UNIT, EXHAUST FAN AND POWER PANEL. REMOVE CONDUCTORS FROM RACEWAY BETWEEN UNIT AND PANEL COMPLETE. REMOVE CONDUIT FROM UNIT TO NEAREST JUNCTION BOX, PLUG OPENING IN JUNCTION BOX AND REPLACE COVER. REMOVE CONDUIT FROM PANEL TO NEAREST JUNCTION BOX, PLUG OPENING IN PANEL AND JUNCTION BOX AND REPLACE ALL COVERS.
2	DISCONNECT POWER CIRCUIT FROM UNIT. PROTECT CONDUCTORS AND RACEWAY FOR CONNECTION TO NEW WORK.
3	DISCONNECT 120 V POWER FROM DUCT MOUNTED GAS HEATER. REMOVE CONDUCTORS FROM RACEWAY TO NEAREST JUNCTION BOX AND TERMINATE IN ACCORDANCE WITH NEC. REMOVE CONDUIT FROM UNIT TO NEAREST JUNCTION BOX, PLUG OPENING IN JUNCTION BOX AND REPLACE COVER.

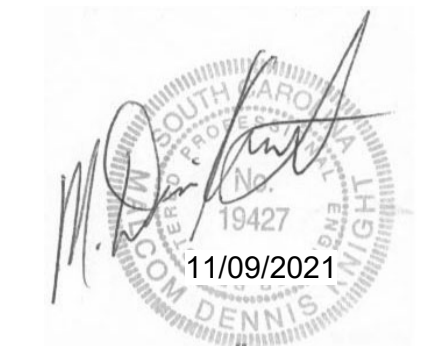


**NOTED TO CODE COMPLIANCE**  
 This drawing is for code compliance only and does not constitute a design professional's seal or signature. It is not intended to be used for construction. The user assumes all liability for any errors or omissions. The user assumes all liability for any errors or omissions. The user assumes all liability for any errors or omissions.

Project: Loris Elementary (MC) Replacements  
 Date: 11/03/21  
 Time: 1:30 PM  
 Scale: AS SHOWN



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 SCHOOL MAU  
 REPLACEMENT**  
 901 SC-9 BUSINESS, LORIS, SC 29569

PROJ. NO. 2109001  
 DATE: 11/03/21  
 DESIGNED BY: Designer  
 DRAWN BY: Author  
 CHECKED BY: Checker

REVISIONS		
NO.	DATE	NOTES

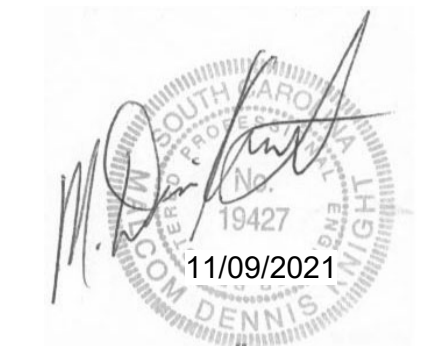
ELECTRICAL  
 POWER PLAN -  
 DEMOLITION

**ED101**





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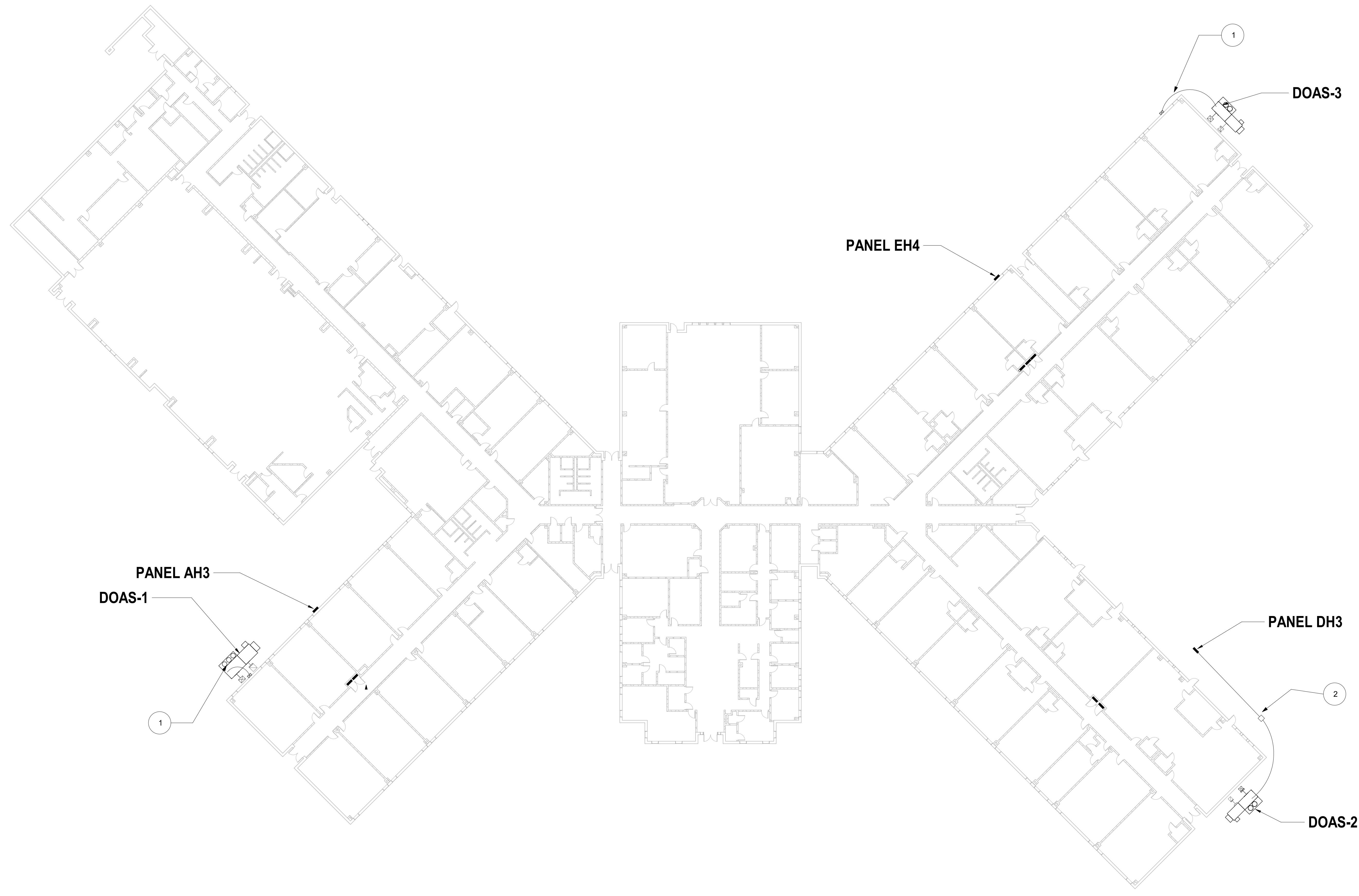
PROJ. NO. 2109001  
 DATE: 11/04/21  
 DESIGNED BY: Designer  
 DRAWN BY: Author  
 CHECKED BY: Checker

REVISIONS  
 NO. DATE NOTES

ELECTRICAL  
 POWER PLAN -  
 NEW WORK

**E101**

ELECTRICAL NEW WORK KEYNOTES	
Number	Electrical New Work Keynote
1	REPLACE DISCONNECT WITH 6"X6"X6" NEMA 3R JUNCTION BOX. PROVIDE 1-INCH SCH 80 PVC CONDUIT FROM JUNCTION BOX UNDERGROUND TO NEW DOAS UNIT POWER CONNECTION. SPLICE EXISTING POWER CONDUCTORS AND GROUND IN JUNCTION BOX TO NEW CONDUCTORS AND GROUND. PULL SPLICED CONDUCTORS FROM JUNCTION BOX TO DOAS UNIT AND CONNECT POWER TO UNIT'S CIRCUIT BREAKER DISCONNECT SWITCH.
2	PROVIDE MINIMUM 12"X12"X12" WATERPROOF UNDERGROUND QUAZITE ELECTRICAL ENCLOSURE. SET TOP OF ENCLOSURE FLUSH WITH EXISTING GRADE. CONNECT TO EXISTING UNDERGROUND CONDUIT/CIRCUIT FROM PANEL DH3 SERVING EXISTING CU-2. SPLICE EXISTING POWER AND GROUND CONDUCTORS TO NEW CONDUCTORS AND GROUND IN UNDERGROUND ENCLOSURE. ROUTE 1-INCH SCH 80 PVC CONDUIT UNDERGROUND TO DOAS UNIT ELECTRICAL CONNECTION. PULL NEW CONDUCTORS AND GROUND FROM UNDERGROUND ENCLOSURE TO DOAS UNIT AND CONNECT UNIT'S CIRCUIT BREAKER DISCONNECT.

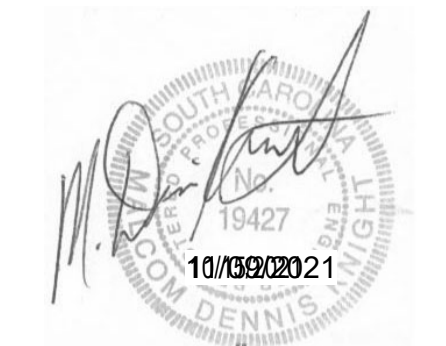


**DESIGNED BY: Tom Dennis**  
 License No. 19427  
 State of South Carolina  
 Date: 11/04/21

1 ELECTRICAL POWER PLAN NEW WORK  
 1" = 20'-0"



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**PROJ. NO.:** 2109001  
**DATE:** 10/15/2021  
**DESIGNED BY:** MDK  
**DRAWN BY:** MDK  
**CHECKED BY:** MDK

REVISIONS		
NO.	DATE	NOTES

**REVISIONS TO THIS SCHEDULE**  
 This schedule is subject to change without notice. The contractor shall verify the accuracy of the information contained herein and shall be responsible for any errors or omissions. The contractor shall be held responsible for any errors or omissions. The contractor shall be held responsible for any errors or omissions. The contractor shall be held responsible for any errors or omissions.

EQUIPMENT ELECTRICAL SCHEDULE PIS-WORKING														
TAG	UNIT TAG ON EXISTING ELECTRICAL	UNIT TYPE	EX ELECTRICAL CHARACTERISTICS					NEW ELECTRICAL REQUIREMENTS						
			EX PANEL NAME	EX VOLTAGE/PHASE	EX CIRCUIT NUMBER	EX CKT BKR SIZE (AMPERES)	EX WIRE/CONDUIT SIZE	NEW PANEL NAME	NEW VOLTAGE/PHASE	NEW CIRCUIT #	NEW CKT BKR SIZE (AMPERES)	NEW WIRE/CONDUIT SIZE	NEW EQUIPMENT MCA	NEW EQUIPMENT MOCP
DOAS-1	CU-1	DOAS	AH3	480/3	5	70	3/4" - 3#6 & #8G	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	55.1	70
DOAS-2	CU-2	DOAS	DH3	480/3	7	50	3/4" - 3#8 & #10G	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	41.4	50
DOAS-3	CU-3	DOAS	EH4	480/3	9	60	3/4" - 3#6 & #10G	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	52.2	60

- NOTES APPLICABLE TO ELECTRICAL EQUIPMENT SCHEDULE:**
- REUSE EXISTING CIRCUIT BREAKER, CONDUIT AND WIRE. EXISTING CIRCUIT BREAKER AND WIRE ARE SAME SIZE AS REQUIRED FOR NEW UNIT. CONNECT NEW CONDUCTORS TO UNIT MFG PROVIDED SINGLE POINT POWER CONNECTION AT CIRCUIT BREAKER DISCONNECT IN UNIT.
  - PROVIDE NEW TYPE WRITTEN PANEL LABELS IN EXISTING PANEL SCHEDULE TO MATCH NEW UNIT TAGS PRIOR TO SUBSTANTIAL COMPLETION OF THE WORK.

EQUIPMENT ELECTRICAL SCHEDULE

**E600**