

**ADDENDUM #1**



**HVAC Upgrades:  
Eli Whitney Elementary School**

1130 Huntington Road  
Stratford, CT 06614

TOWN PROJECT NUMBER: 2019-016

ISSUED: 3/15/2019

**PROJECT TEAM**

Architect / Project Manager

MEP Engineer

**SNYDER  
ARCHITECTS, LLC**

Architecture . Planning . Construction Management

Trumbull, CT 203-243-3346  
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**AKF Group**

MEP Engineering

New Haven, CT 203-323-4333  
akfct@akfgroup.com

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

**DRAWING CHANGES**

**1. Electrical Drawings (“E-???”)**

The following drawings were not included in initial set of bid drawings and are now being issued with Addendum 1:

- E-000 Electrical Cover Sheet
- E-100 Electrical Attic Floor Plan – Demolition
- E-101 Electrical Roof Floor Plan – Demolition
- E-200 Electrical 2nd Floor Plan – Power
- E-201 Electrical Attic Floor Plan – Power
- E-202 Electrical Roof Floor Plan – Power
- E-300 Electrical Details
- E-400 Electrical Specifications
- E-401 Electrical Specifications
- E-402 Electrical Specifications

**2. Drawings M-202 & M-300**

Drawings revised to note equipment curb replacement for HV-1 and HV-2. All work related to HV-2 remains Add Alternate #1.

**\*\*\* END OF ADDENDUM #1 \*\*\***



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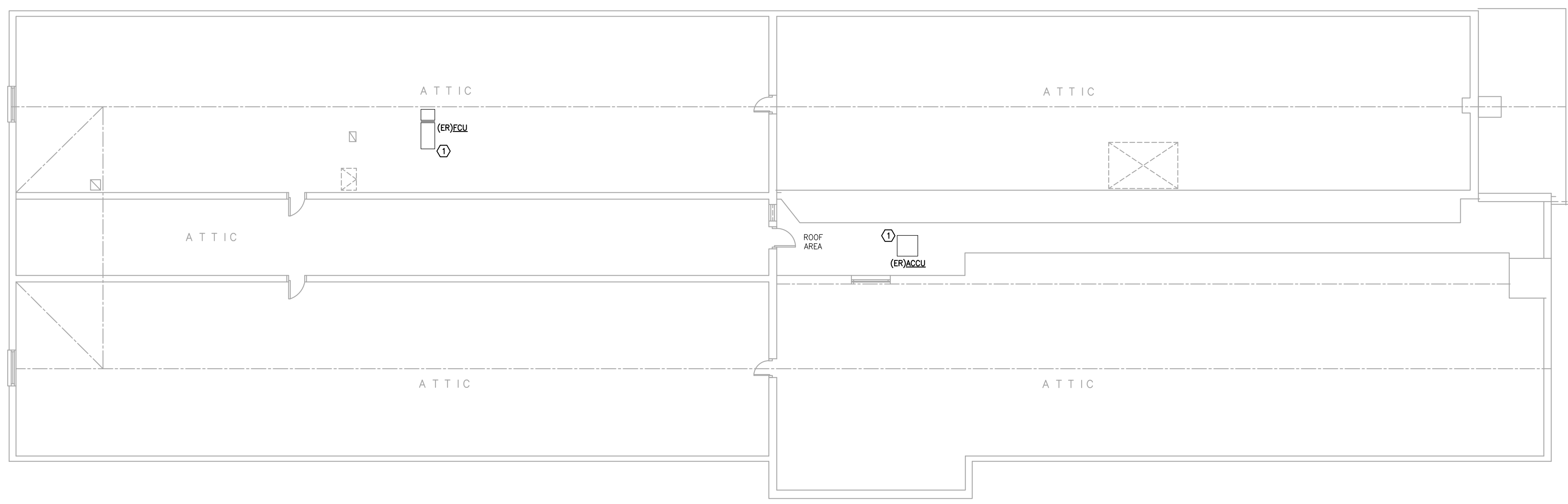
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**GENERAL NOTES:**  
 1. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR

**KEY NOTES:**  
 ① DISCONNECT EXISTING HVAC EQUIPMENT FOR REMOVAL (BY OTHERS). EXISTING CIRCUIT WIRING TO REMAIN FOR RE-USE




**Revisions**

01/11/2019	ISSUED FOR 80% REVIEW
03/05/2019	ISSUED FOR BID

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 Leadership in Engineering & Integrated Services

**Project**  
  
 2725 Main Street  
 Stratford, CT 06614  
 Mechanical Upgrades:  
**Eli Whitney School**  
 1130 Huntington Rd.  
 Stratford, CT

**Drawing Title**

**ELECTRICAL  
 ATTIC FLOOR  
 PLAN - DEMOLITION**

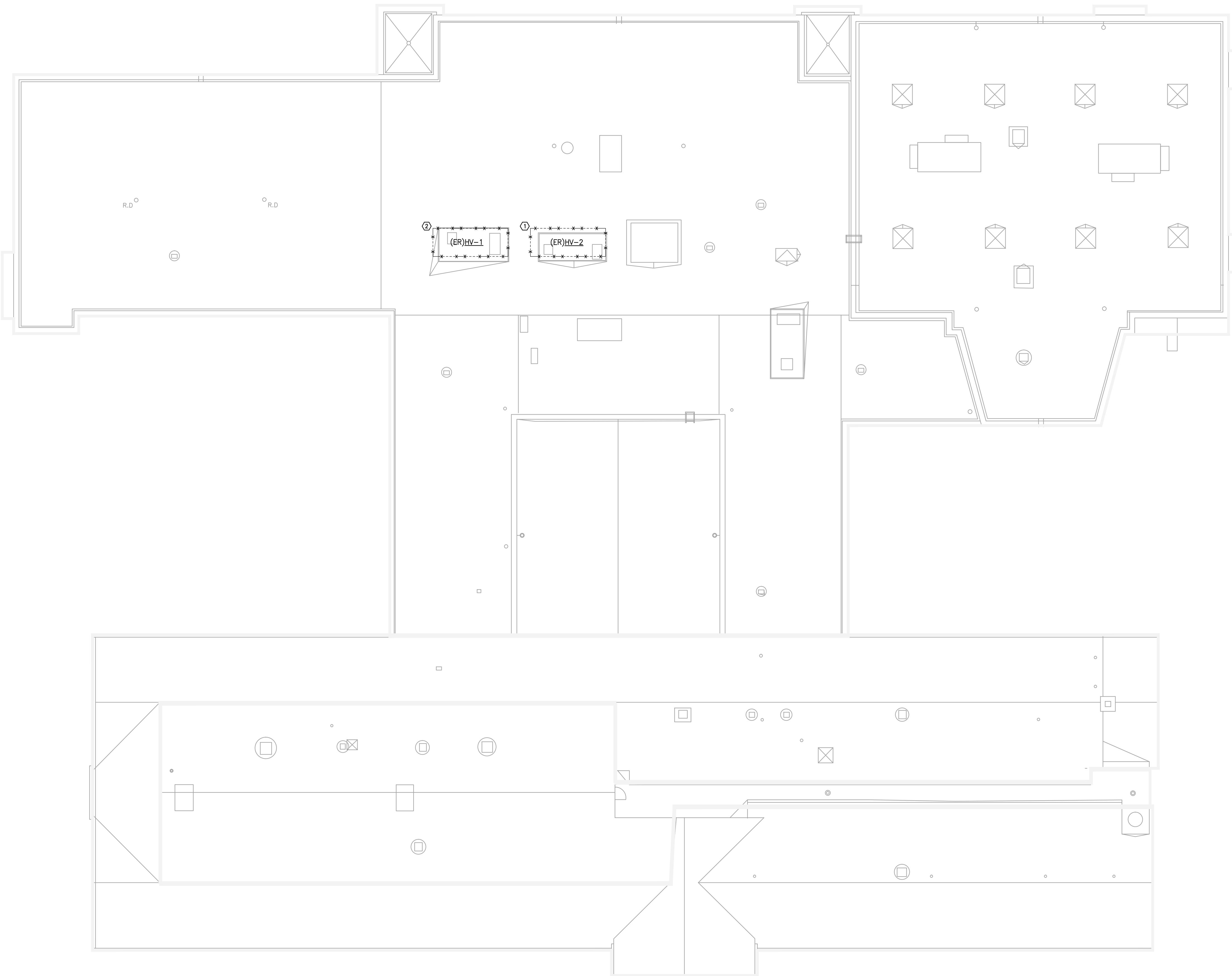
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<b>Job No.</b> 183171-000	

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GENERAL NOTES:

- COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR

KEY NOTES:

- DISCONNECT EXISTING HVAC EQUIPMENT FOR REMOVAL (BY OTHERS). EXISTING CIRCUIT WIRING TO REMAIN FOR RE-USE.
- DISCONNECT EXISTING HVAC EQUIPMENT FOR REMOVAL (BY OTHERS). REMOVE ASSOCIATED CIRCUIT WIRING COMPLETELY BACK TO SOURCE.

Revisions

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2725 Main Street  
 Stratford, CT 06614

Mechanical Upgrades:

### Eli Whitney School

1130 Huntington Rd.  
 Stratford, CT

Drawing Title

## ELECTRICAL ROOF PLAN - DEMOLITION

Issued  
 03/05/2019

Scale  
 3/32" = 1'-0"

Job No.  
 183171-000

Drawing No.

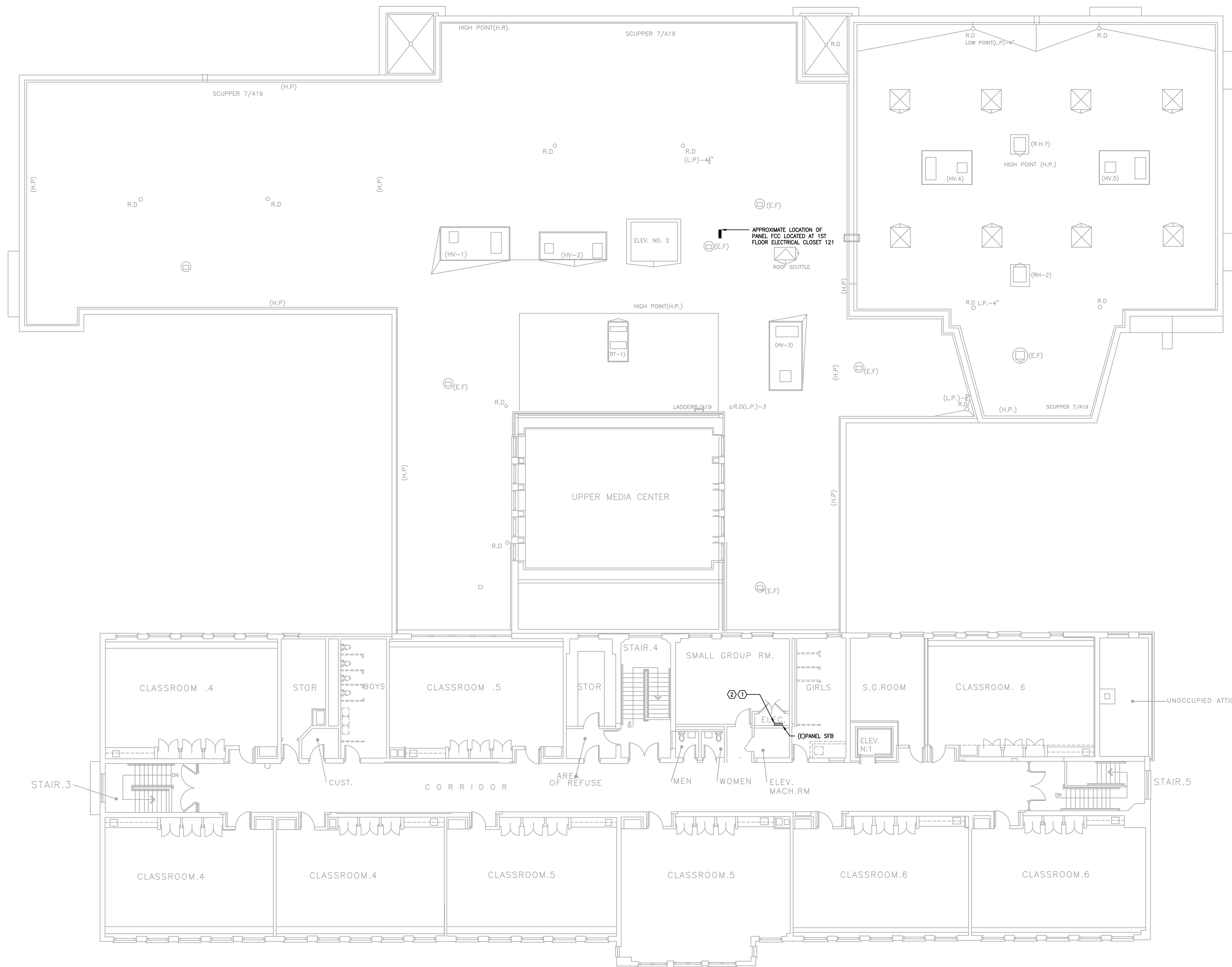
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KEY NOTES:

- ① ELECTRICAL PANEL CURRENTLY ENERGIZING EXISTING UNITS FCU-1 AND ACCU-1. SEE DRAWING E-202 FOR ADDITIONAL INFORMATION
- ② REMOVE EXISTING 2P-40A CIRCUIT BREAKER CURRENTLY ENERGIZING EXISTING UNIT ACCU-1 AND REPLACE WITH NEW 2P-30A CIRCUIT BREAKER.

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**Drawing Title**  
 ELECTRICAL  
 2ND FLOOR PLAN -  
 POWER

<b>Issued</b> 03/05/2019	<b>Drawing No.</b>  <b>E-200</b>
<b>Scale</b> 3/32" = 1'-0"	
<b>Job No.</b> 183171-000	

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**GENERAL NOTES:**

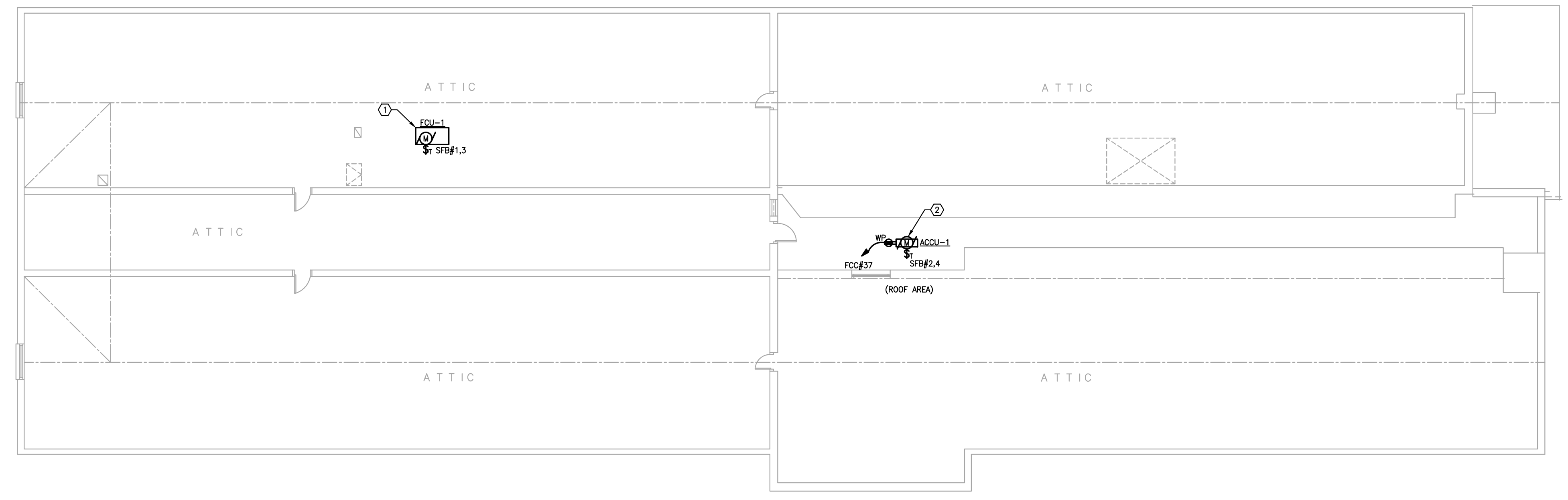
- 1. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR

**KEY NOTES:**

- ① NEW HVAC UNIT. CONNECT TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION.
- ② REMOVE EXISTING 2P-40A CIRCUIT BREAKER AT PANEL SFB, CURRENTLY ENERGIZING EXISTING UNIT AND PROVIDE NEW 2P-30A CIRCUIT BREAKER. CONNECT NEW HVAC UNIT TO EXISTING WIRING MADE AVAILABLE AFTER DEMOLITION

**ABBREVIATION**

- SFB#1 = EXISTING PANEL SFB, CIRCUIT 1
- FCC#1 = EXISTING PANEL FCC, CIRCUIT 1



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**Drawing Title**

**ELECTRICAL  
 ATTIC FLOOR  
 PLAN - POWER**

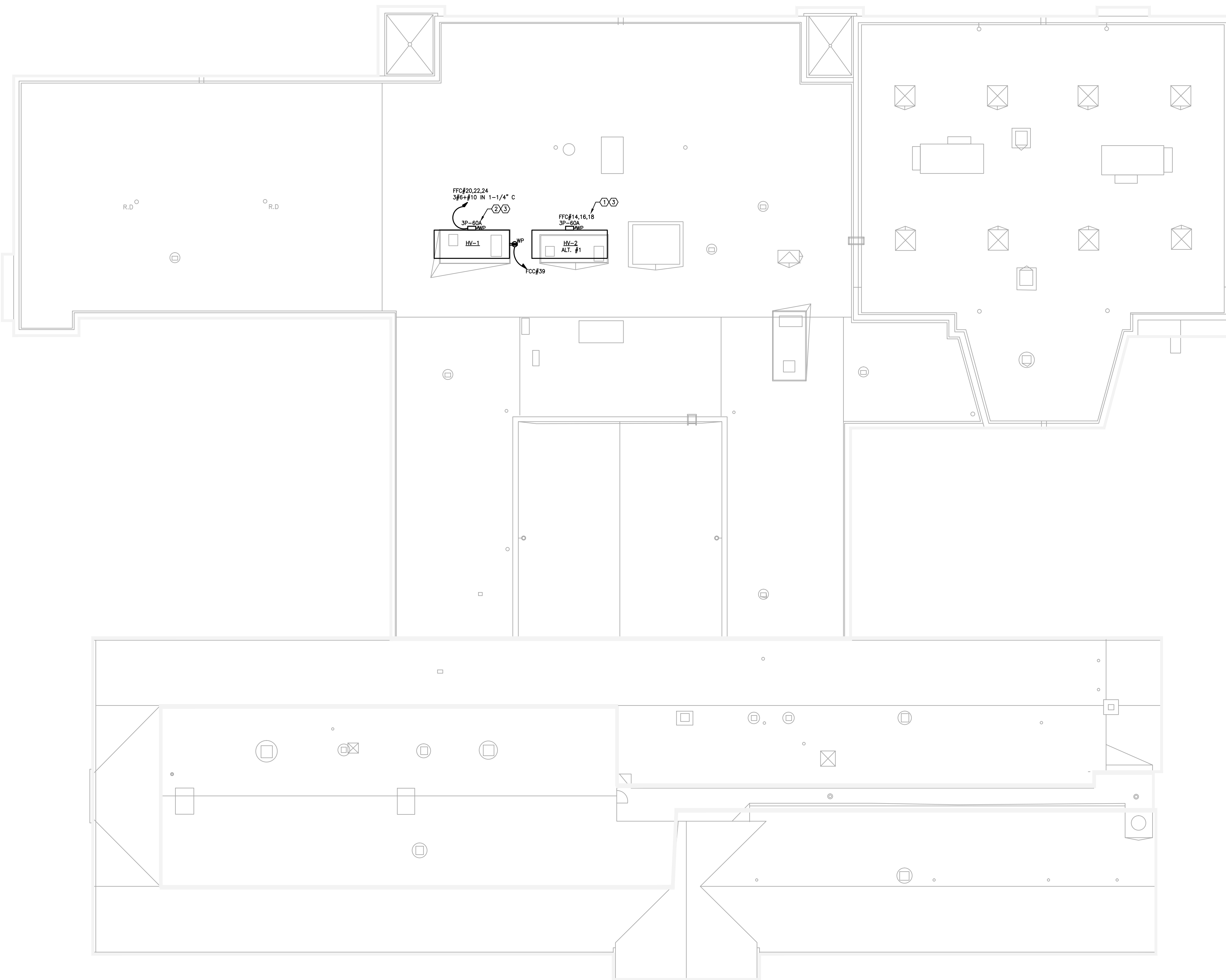
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<b>Job No.</b> 183171-000	

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**GENERAL NOTES:**

1. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR
2. REFER TO DRAWING E-200 FOR ELECTRICAL PANEL LOCATIONS

**KEY NOTES:**

- ① NEW HVAC UNIT. CONNECT TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION
- ② REMOVE EXISTING 3P-40A CIRCUIT BREAKER AT PANEL FCC CURRENTLY ENERGIZING EXISTING UNIT AND PROVIDE NEW 3P-60A CIRCUIT BREAKER. PROVIDE NEW CIRCUIT WIRING AS INDICATED.
- ③ UPON REMOVAL OF EXISTING HVAC UNIT, ELECTRICAL CONTRACTOR SHALL TEST EXISTING DUCT-DETECTOR AND PROVIDE NEW AS REQUIRED. RECONNECT TO EXISTING FIRE ALARM SYSTEM AS REQUIRED. FIRE ALARM SYSTEM IS BY FIRELITE AND MAIN FACP IS LOCATED IN 1ST FLOOR ELECTRICAL CLOSET 121.

**ABBREVIATION**

FCC#1 = EXISTING PANEL FCC, CIRCUIT 1

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Stratford, CT

**Drawing Title**

**ELECTRICAL  
ROOF PLAN -  
POWER**

Issued  
03/05/2019

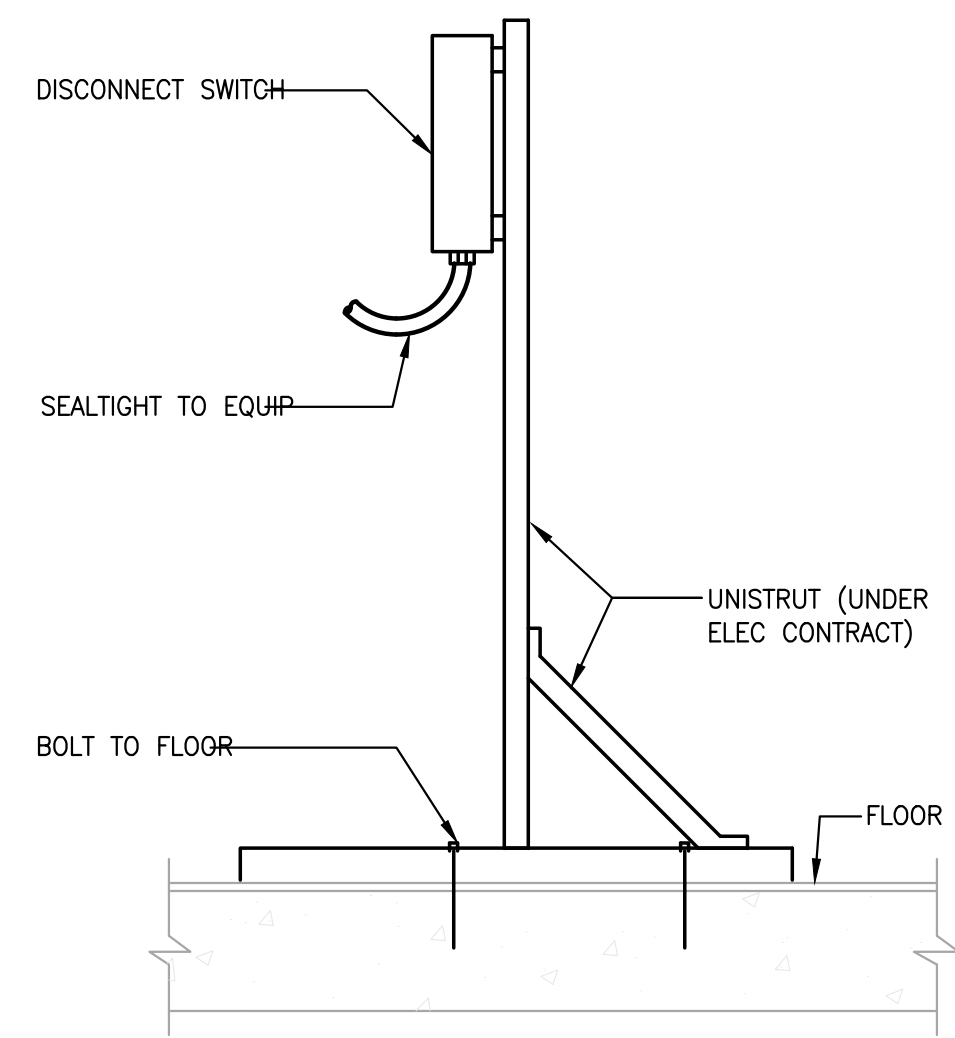
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Job No.  
183171-000

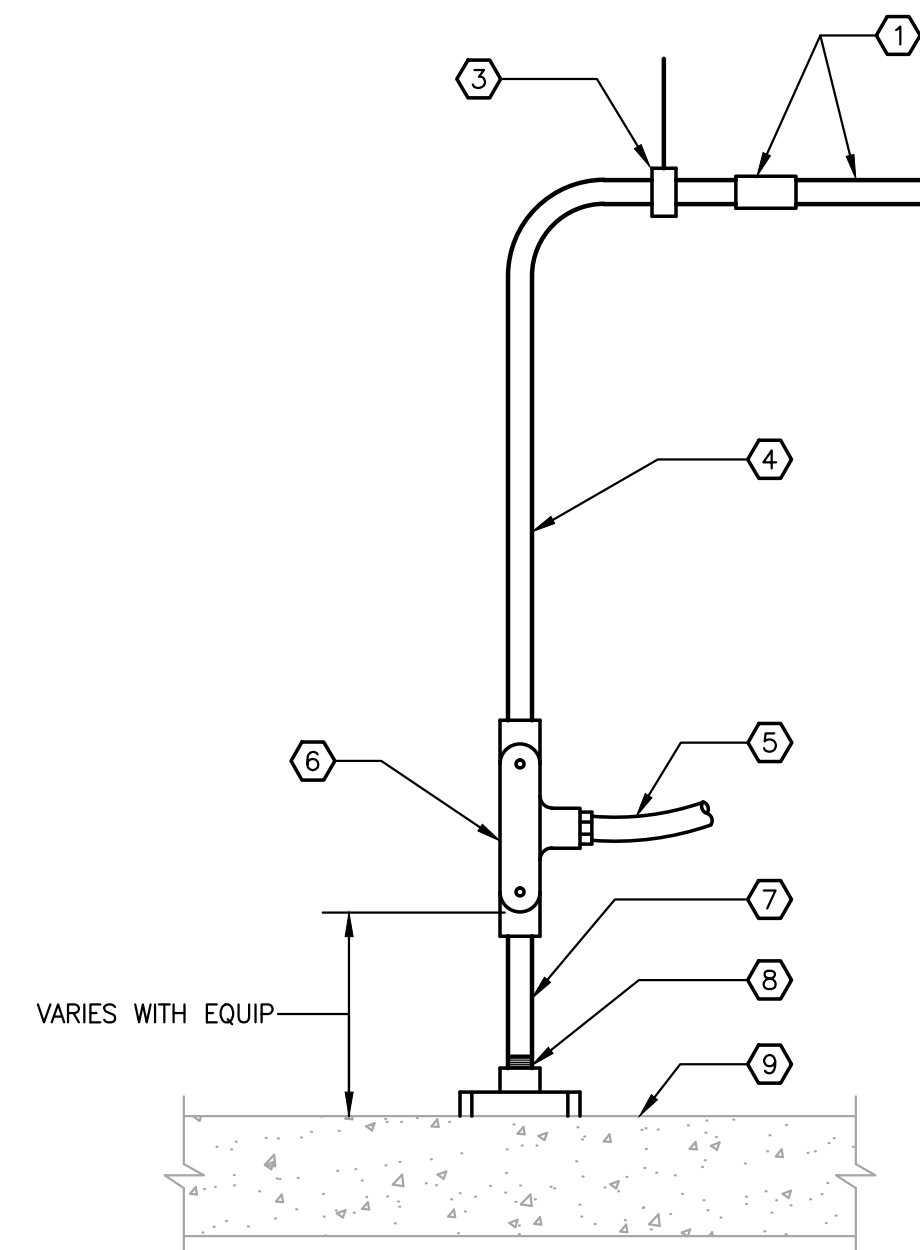
Drawing No.

**E-202**



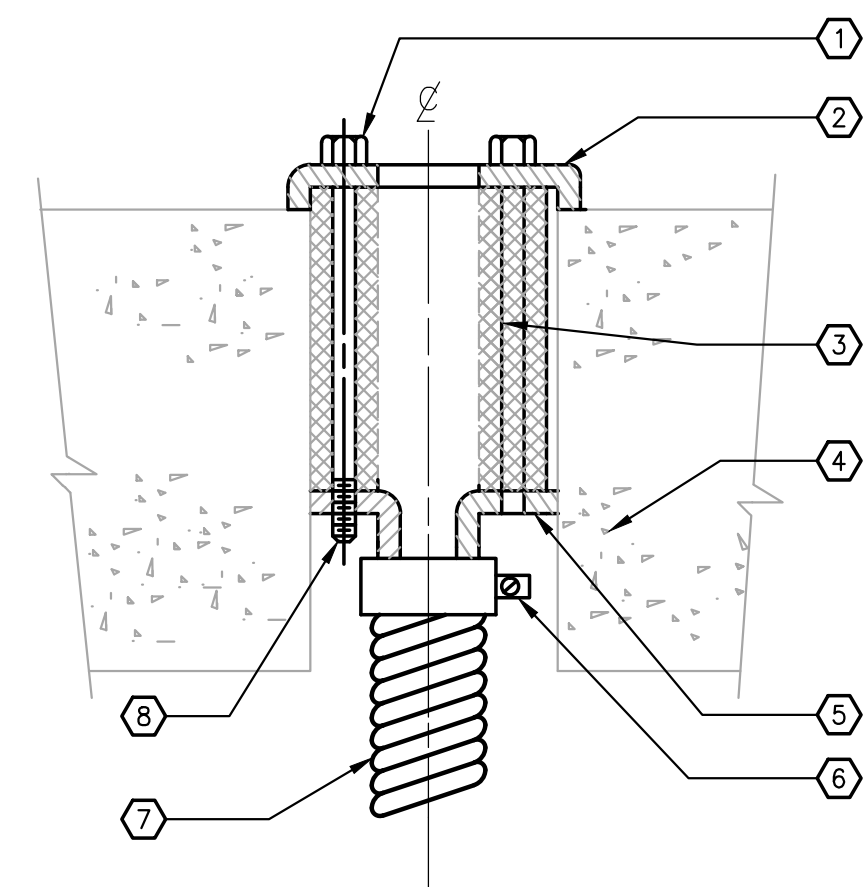


TYPICAL METHOD OF MOUNTING FLOOR MOUNTED DISCONNECT SWITCHES



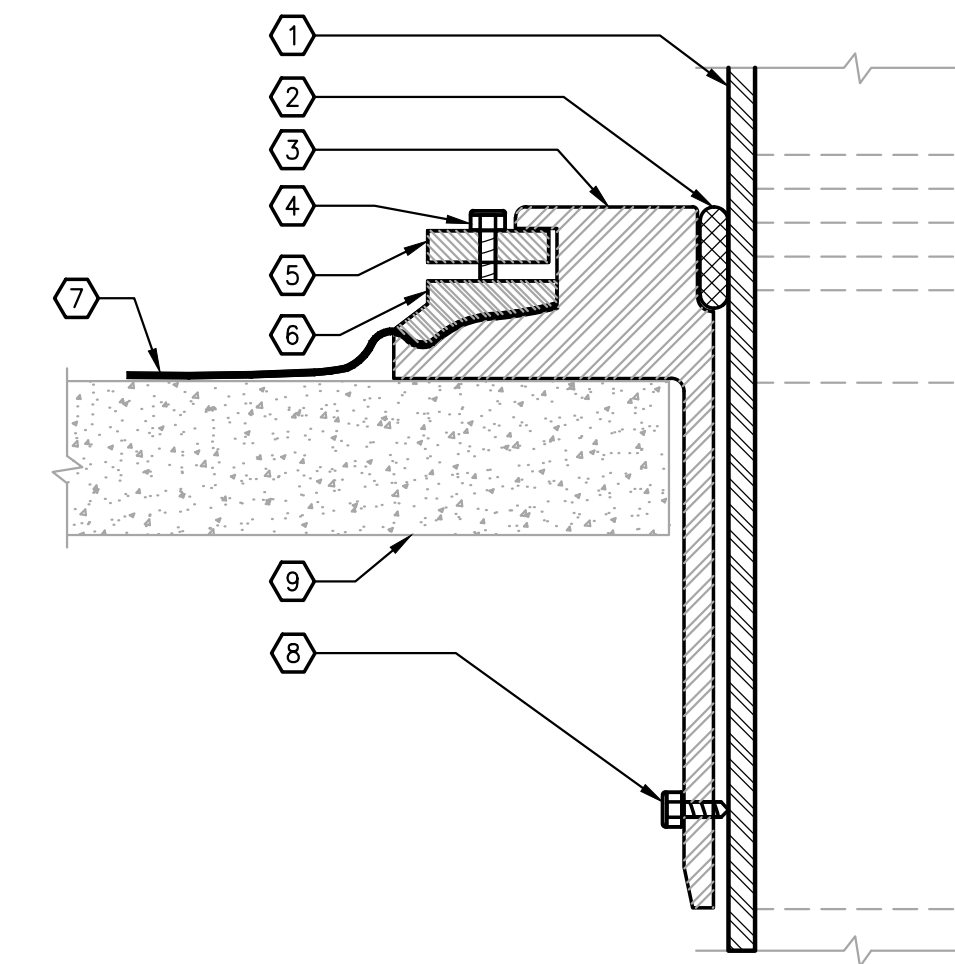
- KEY NOTES:
- 1 RACEWAY.
  - 2 RIGID STEEL ADAPTER.
  - 3 SUPPORT.
  - 4 RIGID STEEL VERTICAL DROP (3/4" MIN).
  - 5 SEALTIGHT FLEX TO MOTOR (1/2" MIN).
  - 6 CAST TEE CONDULET.
  - 7 RIGID STEEL CONDUIT.
  - 8 THREADED FLOOR FLANGE BOLTED TO FLOOR SLAB.
  - 9 FLOOR.

TYPICAL METHOD OF INSTALLING OVERHEAD CONDUIT DROPS FOR MOTOR CONNECTIONS



- KEY NOTES:
- 1 STEEL CLAMPING SCREW.
  - 2 STEEL UPPER PLATE.
  - 3 FIRESTOP GROMMET.
  - 4 CONCRETE FLOOR/WALL.
  - 5 STEEL LOWER PLATE.
  - 6 STAINLESS STEEL CLAMP.
  - 7 FLEXIBLE METAL CONDUIT (OR CONDUIT).
  - 8 CORE DRILLED HOLE.

FLOOR/WALL FIRE-RATED FITTING



- KEY NOTES:
- 1 RIGID STEEL CONDUIT.
  - 2 CAULKING/PACKING.
  - 3 CAST IRON SLEEVE FITTING.
  - 4 BRONZE BOLT.
  - 5 PRESSURE RING.
  - 6 CLAMP RING.
  - 7 FLASHING OR ROOFING.
  - 8 SET SCREW.
  - 9 ROOF STRUCTURE.

ROOF SLEEVE:  
SET SCREW, WATERTIGHT

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Drawing Title

**ELECTRICAL  
DETAILS**

Issued  
03/05/2019

Scale  
NTS

Job No.  
183171-000

Drawing No.

**E-300**





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- IDENTIFICATION PLATE WHEN USED TOGETHER WITH EMERGENCY BRANCH CIRCUIT DEVICE.
- 2) IF PERMITTED BY ARCHITECT AND BUILDING STANDARD, REINFORCED THERMOPLASTIC BY SAME MANUFACTURER OF DEVICES.
- G. COLORS: AS SPECIFIED AND COORDINATED WITH ARCHITECT.
- H. MOUNTING ORIENTATION OF RECEPTACLES (HORIZONTAL OR VERTICAL): COORDINATE WITH ARCHITECT.
- 18. EMPTY CONDUIT SYSTEMS:
  - A. PROVIDE COMPLETE SYSTEM OF EMPTY CONDUIT, FITTINGS, PULL BOXES, OUTLETS, SLEEVES AND FISH/PULLING WIRES.
  - B. EQUIPMENT AND INSTALLATION SHALL CONFORM TO REQUIREMENTS OF THE TELECOMMUNICATION SYSTEMS CONTRACT DRAWINGS AND EIA/TIA REQUIREMENTS.
    - 1) OUTLETS SHALL BE:
      - a) WALL: 4 IN. SQUARE WITH REDUCER RING. COVER PLATE PROVIDED INTEGRAL WITH OUTLET DEVICE. BLANK OFF WHERE NO DEVICE IS INSTALLED.
      - b) FLOOR: IN-FLOOR CAST IRON WITH LOW-TENSION FITTING OR AS SPECIFIED FOR POKE THRU FLOOR ASSEMBLIES.
    - 2) CONDUIT FROM OUTLETS SHALL BE 1 IN. MINIMUM WHERE SIZE IS NOT SHOWN ON DRAWINGS. FURNISH EMPTY CONDUIT FROM OUTLETS TO NEAREST ACCESSIBLE HUNG CEILING OR AS NOTED. TERMINATE OPEN END WITH INSULATED BUSHING.
  - C. PROVIDE FISHWIRES, IN RACEWAYS OVER 10 FT LONG AND AT ALL DROPS TO OUTLETS.
  - D. PROVIDE RISER PULL BOXES AT A MINIMUM OF 50 FEET INTERVALS. FOR 2-INCH CONDUITS AND SMALLER, PROVIDE PULL BOX FOR EVERY 100 FEET FOR STRAIGHT RUNS. PROVIDE PULL BOX FOR EVERY 180 DEGREES OF BENDS. BENDING RADIUS SHALL NOT BE LESS THAN 10 TIMES INTERNAL CONDUIT DIAMETER.
  - E. BOND ALL RACEWAYS SYSTEMS TO PROVIDE A COMMON GROUND PATH
  - F. DEVICES, CONNECTORS AND WIRING COMPLETE WILL BE PROVIDED UNDER OTHER WORK SCOPES.
  - G. FURNITURE SYSTEM CONNECTIONS FOR TEL/DATA SHALL BE A MINIMUM SIZE OF 2" UNLESS OTHERWISE NOTED ON DRAWINGS. FLOOR BOXES FOR TEL/DATA FURNITURE SYSTEM IN-FEEDS SHALL BE SEPARATE FROM POWER IN FEEDS.
- 19. FIRE ALARM SYSTEM
  - A. REFER TO FIRE ALARM DRAWINGS. SYSTEM WIRING, DEVICES, ETC., SHALL BE IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS, BUILDING STANDARDS AND SYSTEM MANUFACTURER. STROBE POWER SUPPLIES SHALL BE FURNISHED AND INSTALLED AS REQUIRED. SYSTEM RE-PROGRAMMING TO ACCOMMODATE DEMOLITION AND NEW DEVICES SHALL BE INCLUDED. ALL LABOR AND MATERIALS FOR SYSTEM PRE-TEST AND TEST WITH BUILDING VENDOR AND FIRE DEPARTMENT SHALL BE INCLUDED.
- 20. ELECTRICAL TESTING (CONTRACTOR TO FOLLOW APPLICABLE NETA STANDARDS).
  - A. PROVIDE ALL NECESSARY METERS, INSTRUMENTS, TEMPORARY WIRING AND LABOR TO TEST AND ADJUST ALL EQUIPMENT AND WIRING INSTALLED AND/OR CONNECTED UNDER THIS CONTRACT, INCLUDING ELECTRICAL EQUIPMENT FURNISHED BY OTHERS, TO DETERMINE PROPER POLARITY, PHASING, FREEDOM FROM GROUND FAULTS AND SHORTS AND PROPER OPERATION OF EQUIPMENT. ALL MEASURING INSTRUMENTS MUST BE PROPERLY CALIBRATED.
  - B. WHENEVER THE AUTHORITIES HAVING JURISDICTION REQUIRE THAT ANY WORK BE TESTED OR APPROVED, CONTRACTOR SHALL PROVIDE PROPER FACILITIES FOR ACCESS FOR INSPECTION.
  - C. CHECK ALL LIGHTING FIXTURES AND RECEPTACLES FOR PROPER OPERATION.
- 21. FIRE STOPPING
  - A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION SPECIFICATION SECTIONS, APPLY TO WORK OF THIS SECTION.
  - B. PROVIDE ALL REQUIRED FIRE-STOPPING. WORK INCLUDES FIRE STOPPING PENETRATIONS OF FIRE-RESISTANCE RATED FLOORS, WALLS AND PARTITIONS IN NEW CONSTRUCTION, AS WELL AS FIRE-EXISTING PENETRATIONS IN RENOVATION AREAS OF EXISTING CONSTRUCTION.
  - C. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA FOR EACH FIRE-STOPPING PRODUCT REQUIRED, INCLUDING INSTRUCTIONS FOR SUBSTRATE PREPARATION AND FIRE-STOPPING INSTALLATION.
  - D. FIRE RESISTANT JOINT SEALERS: PROVIDE MANUFACTURER'S STANDARD FIRE-STOPPING SEALANT WITH ACCESSORY MATERIALS, HAVING FIRE RESISTANCE RATINGS INDICATED AS ESTABLISHED BY TESTING IDENTICAL ASSEMBLIES PER ASTM E814 BY UNDERWRITERS LABORATORY, INC. OR OTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
  - E. MATERIALS -- PROVIDE THE FOLLOWING:
    - 1) ONE-PART FIRE-STOPPING SEALANT: ONE PART LATEX BASED INTUMESCENT SEALANT FORMULATED FOR USE IN A THROUGH-PENETRATION FIRE-STOP SYSTEM FOR SEALING OPENINGS AROUND CABLES, CONDUIT, PIPES AND SIMILAR PENETRATIONS THROUGH WALLS AND FLOORS. ACCEPTABLE PRODUCTS/MANUFACTURERS INCLUDE THE FOLLOWING:
      - a) SPECIFIED TECHNOLOGIES INC. SPEC SEAL LC150
      - b) HILTI FS-ONE MAX
- 22. DEMONSTRATION OF COMPLETE ELECTRICAL SYSTEMS
  - A. SUBMIT WRITTEN CERTIFICATION THAT ELECTRICAL SYSTEMS ARE COMPLETE AND OPERATIONAL. SUBMIT CERTIFICATION WITH CONTRACTOR'S REQUEST FOR FINAL REVIEW.
    - 1) AT THE TIME OF FINAL REVIEW OF ELECTRICAL WORK, DEMONSTRATE THE OPERATION OF ELECTRICAL SYSTEMS. FURNISH LABOR, APPARATUS AND EQUIPMENT FOR SYSTEMS' DEMONSTRATION. THE VARIOUS TEST SHALL BE WITNESSED AND APPROVED BY THE OWNER AND/OR THE OWNERS REPRESENTATIVE.
  - B. THE CONTRACTOR SHALL FURNISH ALL TEST EQUIPMENT, MATERIALS, LABOR, AND TEMPORARY POWER HOOK-UPS TO PERFORM START-UP AND ALL TESTS AS REQUIRED. ALL TEST PROCEDURES SHALL CONFORM TO THIS SPECIFICATION AND APPLICABLE STANDARDS INCLUDING BUT NOT LIMITED TO; ANSI, IEEE, NEMA, OSHA AND NETA.
  - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTS AND TEST RECORD. TESTING SHALL BE PERFORMED BY AND UNDER THE IMMEDIATE SUPERVISION OF THE CONTRACTOR. TEST RECORDS SHALL BE KEPT FOR EACH PIECE OF EQUIPMENT. COPIES SHALL BE FURNISHED TO THE ENGINEER FOR REVIEW AND/OR APPROVAL.
  - D. A VISUAL INSPECTION OF ALL ELECTRICAL EQUIPMENT, TO CHECK FOR THE FOREIGN MATERIAL, TIGHTNESS OF WIRING AND CONNECTION, PROPER GROUNDING, MATCHING NAMEPLATE CHARTS WITH SPECIFICATION, ETC., SHALL BE MADE PRIOR TO ACTUAL TESTING.

- E. A COMPLETE OPERATIONAL TEST SHALL BE MADE ON THE REVISED LIFE SAFETY FIRE ALARM SYSTEM. THE CONTRACTOR SHALL CONSULT WITH THE EQUIPMENT VENDORS AND THEN SUBMIT FOR APPROVAL A STEP-BY-STEP PROCEDURE DESCRIBING THE METHOD OF MAKING THE TESTS, THE EQUIPMENT TO BE UTILIZED AND THE FEATURE TO BE CHECKED BY THE TEST. ALL INTERLOCKS AND PROTECTIVE FEATURES SHALL BE CHECKED OUT.


- 23. SPECIAL TESTING SERVICES
  - A. IN THE INSTANCE OF COMPLEX OR SPECIALIZED ELECTRICAL SYSTEMS SUCH AS EMERGENCY/STAND-BY POWER SYSTEMS, DIMMING/LIGHTING CONTROL SYSTEMS, FIRE ALARM SYSTEM OR SIMILAR, THE INSTALLATION, FINAL CONNECTIONS AND TESTING OF SUCH SYSTEMS SHALL BE MADE UNDER THE DIRECT SUPERVISION OF FACTORY AUTHORIZED FIELD TECHNICIAN/ENGINEER WHO SHALL BE IN THE EMPLOY OF THE RESPECTIVE EQUIPMENT MANUFACTURER.
  - B. ANY AND ALL EXPENSES INCURRED BY THESE EQUIPMENT MANUFACTURERS' REPRESENTATIVES RELATED TO THIS PROJECT, SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL INSTALLER/CONTRACTOR.
- 24. DESIGN MODIFICATIONS
  - A. THE DRAWINGS SHOW ELECTRICAL SYSTEMS THAT SUPPLY, CONTROL, AND/OR MONITOR SYSTEMS SPECIFIED ELSEWHERE. THE ELECTRICAL SYSTEM SHOWN HAS BEEN BASED ON SPECIFIC MANUFACTURER'S DATA OR INFORMATION CONVEYED TO THE ELECTRICAL DESIGNER. WHERE ANY AGREEMENT OR CHANGE IS MADE TO SUPPLY EQUIPMENT OF LARGER CAPACITY OR DIFFERENT ELECTRICAL CHARACTERISTICS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE ELECTRICAL DESIGN MODIFICATIONS TO AFFECT SUCH CHANGES WITHIN THE INTENT OF THESE SPECIFICATIONS AND TO INFORM THE ENGINEER, IN WRITING, OF SUCH CHANGE. FOR EXAMPLE, IF HVAC COMPRESSORS AND/OR MOTORS ARE ALLOWED TO BE CHANGED TO 230 VOLTS RATHER THAN THE ORIGINALLY SPECIFIED 208 VOLTS, BOOSTING OR BUCKING TRANSFORMERS SHALL BE SUPPLIED, INSTALLED, AND WIRED TO ACCOMMODATE

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Drawing Title

<b>Issued</b>	03/05/2019	<b>Drawing No.</b>  <b>E-402</b>
<b>Scale</b>	NTS	
<b>Job No.</b>	183171-000	

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**DRAWING NOTES:**  
 1. COORDINATE WORK WITH NEW ROOF INSTALLATION.

**KEY NOTES:**  
 ① PROVIDE REPLACEMENT IN KIND. REFER TO SCHEDULE ON M-300. RECONNECT TO EXISTING DUCTWORK, PIPING, AND ACCESSORIES.  
 ② ADD-ALTERNATE #1:  
 PROVIDE REPLACEMENT IN KIND. REFER TO SCHEDULE ON M-300. RECONNECT TO EXISTING DUCTWORK, PIPING, AND ACCESSORIES.

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■ Project



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■ Drawing Title

## MECHANICAL ROOF PLAN - DUCTWORK

<b>Issued</b> 03/05/2019	<b>Drawing No.</b>  <b>M-202</b>
<b>Scale</b> 3/32" = 1'-0"	
<b>Job No.</b> 183171-000	

**SPLIT AIR COOLED CONDITIONING UNIT SCHEDULE**

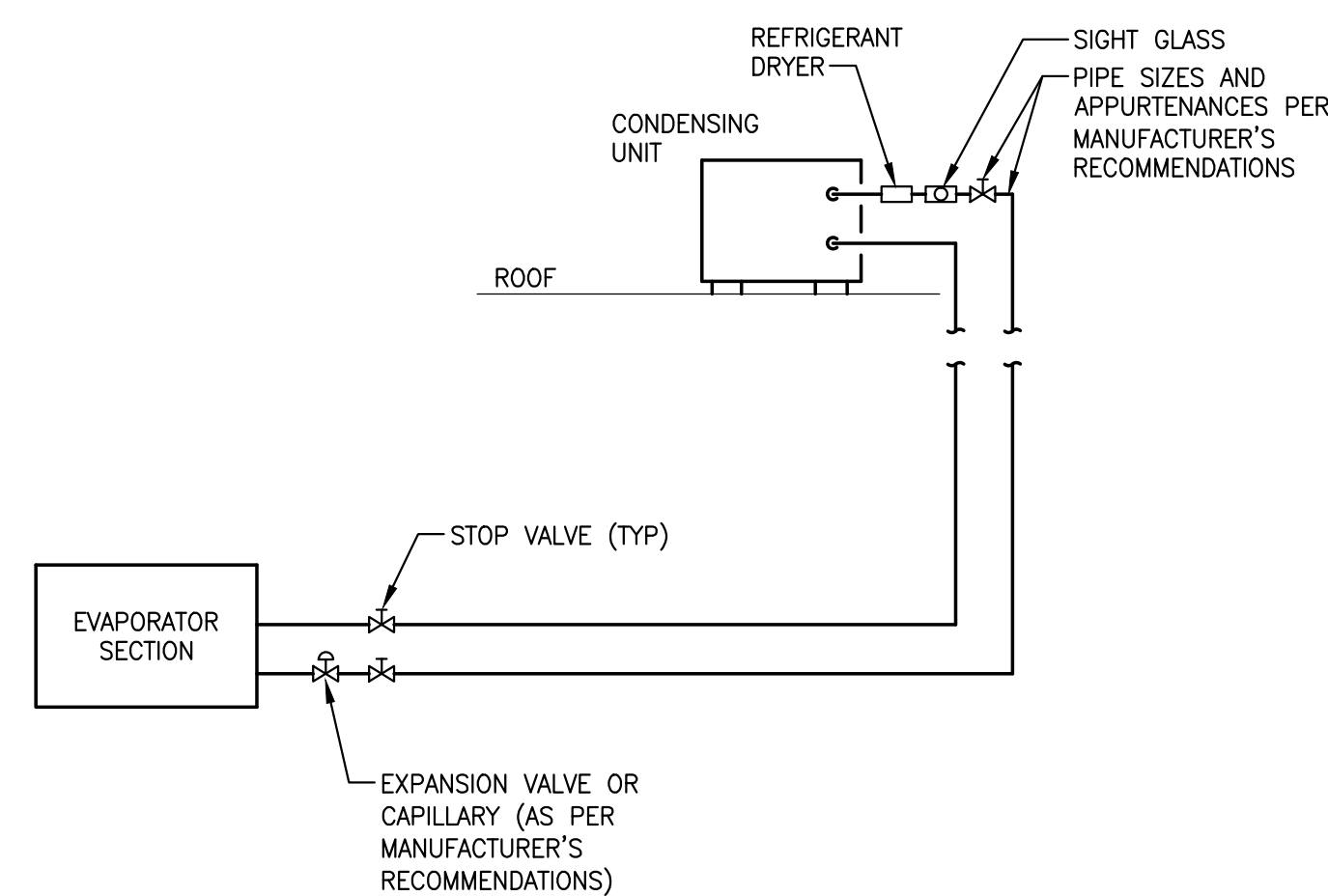
AIR HANDLING UNIT No.	LOCATION	SERVICE	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	EVAPORATOR COIL CONDITIONS			SUPPLY FAN			ELECTRICAL DATA			AHU OPER. WEIGHT (LBS)	UNIT DIMENSIONS			MANUF. MODEL #	CONDENSING UNIT No.	CONDENSING UNIT				COND. WEIGHT (LBS)	UNIT DIMENSIONS			MANUF. MODEL #	REMARKS					
					CFM	ENT. AIR DB/WB (°F)	LVG. AIR DB/WB (°F)	EXT. SP (IN. W.G.)	MOTOR W	RPM	VOLTS	PHASE	HZ		LENGTH (FT-IN)	WIDTH (FT-IN)	HEIGHT (FT-IN)			QUANTITY	TYPE	LRA/RLA (EA.)	EXT. SP (IN. W.G.)		VOLTS	PHASE	HZ			MCA / MOCP	LENGTH (FT-IN)	WIDTH (FT-IN)	HEIGHT (FT-IN)	
FCU-1	ATTIC	LOUNGE	40.5	31.6	1377	74	55	0.8	350	-	208	1	60	3.4	102	55-1/8	24-13/16	9-5/8	DAIKIN FB042PVJU	ACCU-1	1	-	-	-	208	1	60	27 / 30	283	35-7/16	13-9/16	52-15/16	DAIKIN RZR42PVJUB	SEE NOTES

- NOTES:
- PROVIDE MERV 7 FILTER.
  - PROVIDE STAINLESS STEEL DRAIN PAN.
  - REFRIGERANT PIPING SHALL BE SIZED BASED ON MANUFACTURERS RECOMMENDATIONS.
  - PROVIDE DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR.
  - BUILT-IN CONDENSATE PUMP.

**ROOFTOP UNIT SCHEDULE**

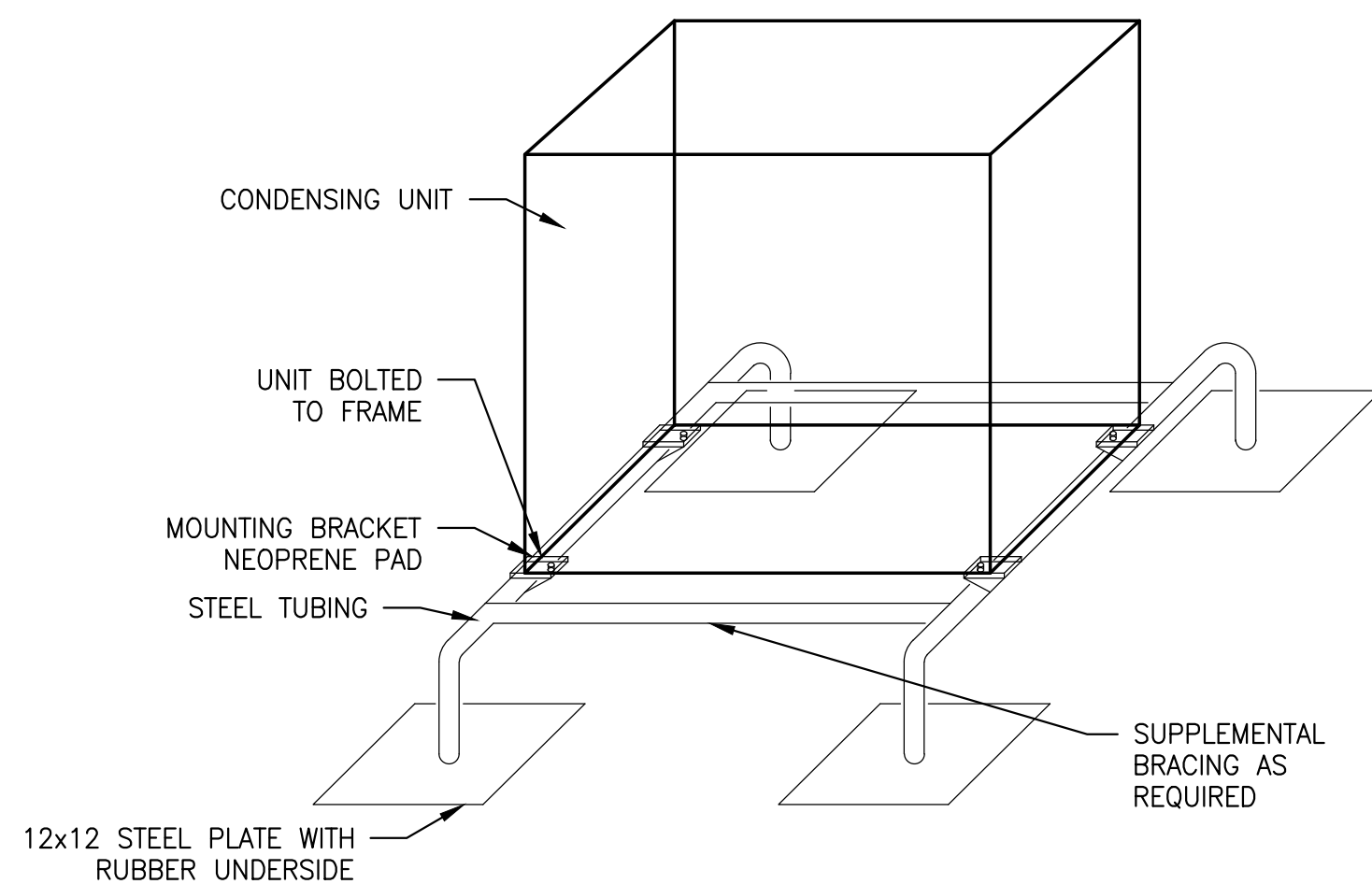
UNIT No.	LOCATION	SUPPLY FAN DATA						RETUR/ SPILL FAN DATA						HEATING DATA						UNIT ELECTRICAL DATA						UNIT DIMENSIONS						REMARKS				
		CFM	EXT. SP (IN. W.G.)	RPM	BHP	MOTOR HP	WHEEL DIAMETER	CFM	EXT. SP (IN. W.G.)	RPM	BHP	MOTOR HP	DRIVE TYPE	HOT WATER COIL DATA						VOLTS	PHASE	HZ	MCA	MROPD	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	OPERATING WT. (LBS)	MANUF. MODEL #							
														EWT (°F)	LWT (°F)	WATER FLOW (GPM)	No. OF COILS	P.D. (FT)	TOTAL MBH											EAT (°F)	LAT (°F)		FPI	No. OF ROWS	FACE VELOCITY (FPM)	MAXIMUM AIR P.D. (IN. W.G.)
HV-1	ROOF	7100	2	1186	6.75	7.5	15"	7200	0.75	871	4.16	5	BELT	180	140.5	13.1	1	2.6	258.5	46	79.3	10	1	592	0.22	208	3	60	43.6	60	180	68	52	3038	DAIKIN RDS708B	SEE NOTES
HV-2	ROOF	6125	2	1121	5.1	7.5	15"	7200	0.75	871	4.16	5	BELT	180	140.8	11.3	1	1.9	221	46	79	9	1	510	0.16	208	3	60	43.6	60	180	68	52	3036	DAIKIN RDS708B	ADD- ALTERNATE #1, SEE NOTES

- NOTES:
- PROVIDE MERV 8 FILTER FOR UNIT OUTSIDE AIR INTAKE.
  - PROVIDE VARIABLE FREQUENCY DRIVES.
  - PROVIDE DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR.
  - PROVIDE WITH BUILT-IN DRAIN LIGHTS.
  - MANUFACTURER PROVIDED ROOF CURB.

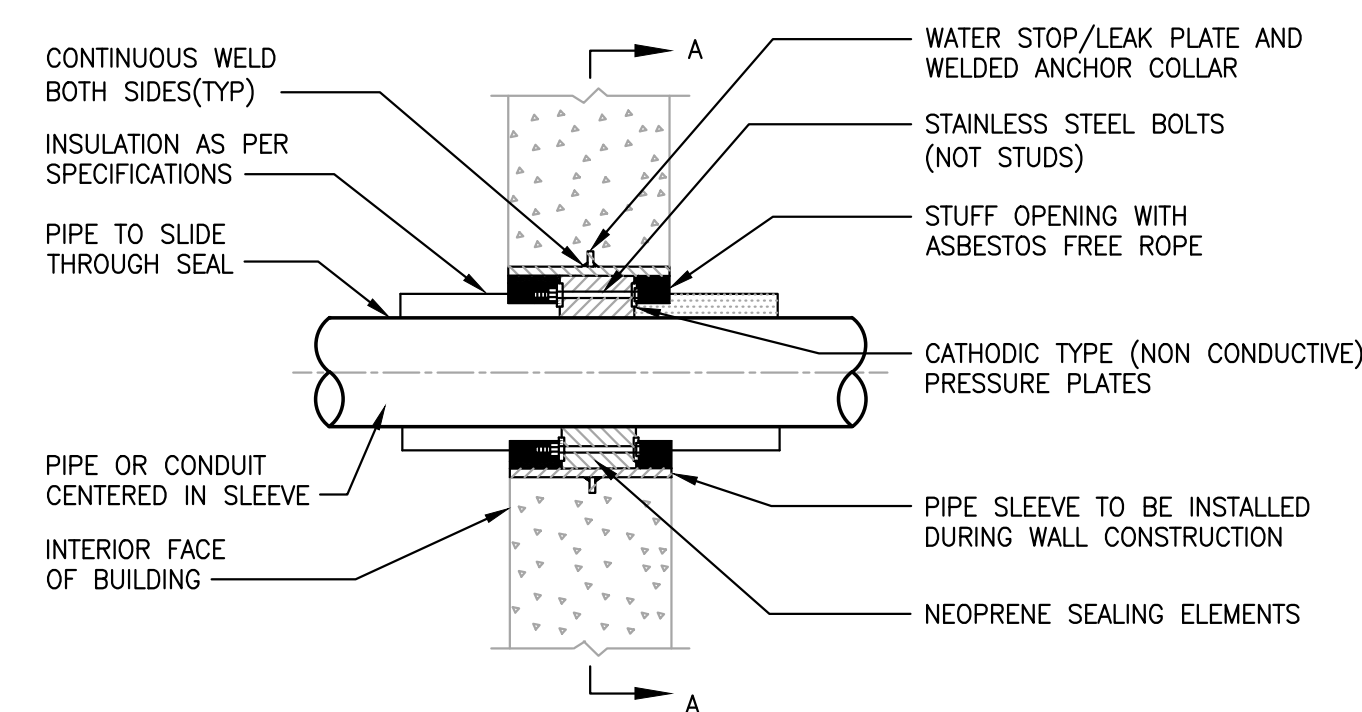


- NOTES:
- CONTRACTOR SHALL SIZE PIPING AS PER MANUFACTURER'S RECOMMENDATIONS FOR ACTUAL INSTALLED LENGTH AND ELEVATION DIFFERENCE BETWEEN CONDENSER AND EVAPORATOR. PROVIDE EXTRA OIL AS REQUIRED.

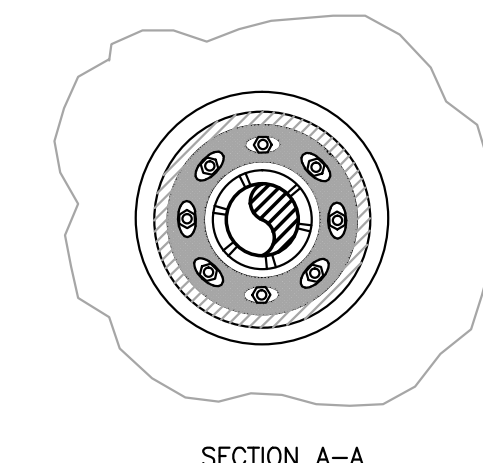
**TYPICAL REFRIGERANT PIPING DETAIL**



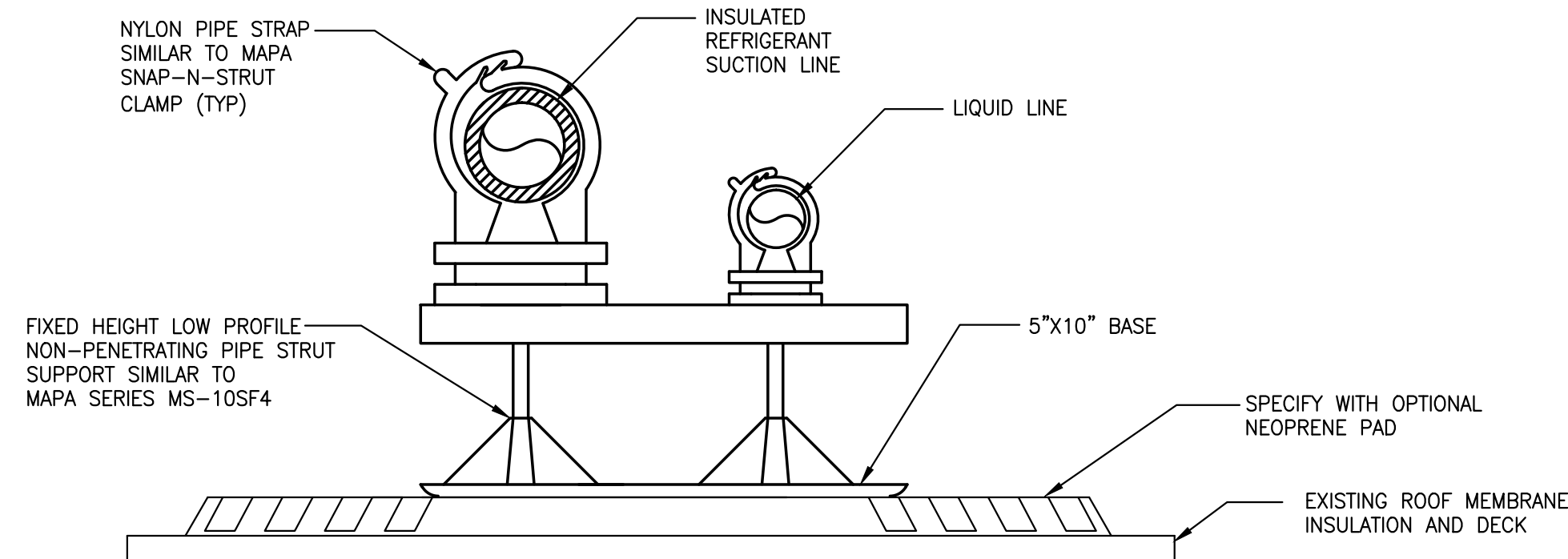
**ROOF MOUNTED CONDENSING UNIT**



- NOTES:
- WHEN SEALING FLOOR PENETRATIONS, EXTEND SLEEVE 3" ABOVE FINISHED FLOOR.
  - WHEN CORE DRILL IS USED THE PIPE SLEEVE AND WATER STOP/LEAK PLATE ARE NOT REQUIRED.

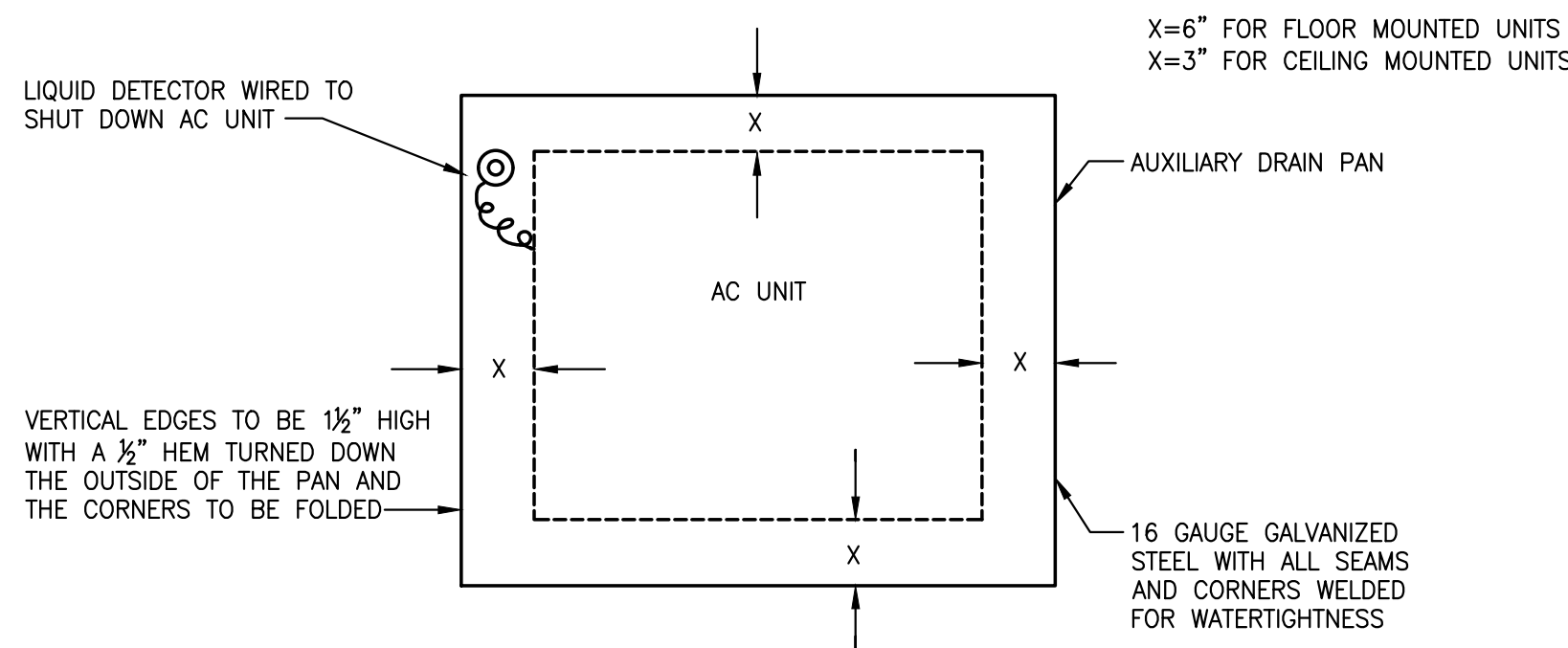


**EXTERIOR WALL PIPE PENETRATION SEAL ASSEMBLY**



- NOTE:
- USE FOR REFRIGERANT PIPING 3" OR SMALLER MAXIMUM SPACING 8"
  - REFRIGERANT PIPE SUPPORTS MUST COMPLY WITH MSS SP-58-2002

**REFRIGERANT ROOFTOP PIPING SUPPORT**



- NOTES:
- FOR CEILING INSTALLATIONS, SUPPORT AC UNIT AND DRAIN PAN INDEPENDENTLY FROM STRUCTURE OVERHEAD.
  - PITCH DRAIN PAN TO LIQUID DETECTOR. PROVIDE 3/4" PLUGGED DRAIN AT LOW POINT.
  - PROVIDE AUXILIARY CONTACT ON LIQUID DETECTOR FOR INTERFACE WITH THE BUILDING MANAGEMENT SYSTEM WHEN SPECIFIED.
  - EXTEND PAN FOR CONTROL VALVE ASSEMBLY AND CONDENSATE PUMP.

**AUXILIARY DRAIN PAN FOR AC UNITS**

**Revisions**

01/11/2019	ISSUED FOR 80% REVIEW
03/05/2019	ISSUED FOR BID
03/14/2019	ADDENDUM #1

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Leadership in Engineering & Integrated Services

**Project**



2725 Main Street  
 Stratford, CT 06614

Mechanical Upgrades:

**Eli Whitney School**

1130 Huntington Rd.  
 Stratford, CT

**Drawing Title**

**MECHANICAL SCHEDULES AND DETAILS**

Issued 03/05/2019

Scale NTS

Job No. 183171-000

Drawing No.

**M-300**

SAVE DATE: 3/14/2019 11:06 AM

PLOT DATE: 3/14/2019 11:11 AM

LOGIN: DcSantis, Massimo

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