

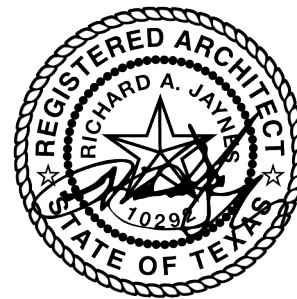


**ADDENDUM No. 3**  
**Request for Competitive Sealed Proposals (CSP)**  
**19RFP060 Renovations at Reilly Elementary School**

**November 26, 2018**

**Item 1: Revisions to Drawings and Project Manual are attached**

ADDENDUM NO. 3  
TO THE  
DRAWINGS AND PROJECT MANUAL  
FOR  
**RENOVATIONS TO REILLY ELEMENTARY SCHOOL  
AUSTIN ISD  
AUSTIN, TEXAS**



11/26/2018

---

**VLK ARCHITECTS, INC.**  
2700 Via Fortuna, Suite 230  
Austin, Texas 78746  
512.807.3145 voice  
vlkarchitects.com

---

### 3.1 GENERAL

- A. This addendum modifies the drawings and project manual, dated October 25, 2018, as noted within and shall become part of the Contract Documents.
- B. Proposers shall acknowledge receipt of this addendum in the space provided on the proposal form. Failure to do so may subject proposer to disqualification.
- C. Each holder of proposal documents registered with the Owner will receive a copy of the addendum. Each prime proposer is responsible for distribution of information conveyed by this addendum to its sub-proposers and suppliers.
- D. CLARIFICATION RESPONSE TO RFI QUESTIONS
  - 1. Question #1: Sheet A2.01, Detail 2 shows the new A/C Cassette. At that elevation and the condensate on the roof being apx. 10" above the roof, will be a 36" rise for condensate to be pumped. The pumps that come with these units have very limited head. 20-22" is what I remember. Another pump option?
    - a. A. Secondary pumps will be required to reach 36" rise. Provide secondary condensate pumps to be mounted near or on top of units (Model: Sauer mann, SI-30 or equal). Coordinate with manufacturer for installation recommendations. See sheets M5.01 for split system schedule notes & sheet M2.02 for mechanical floor plan.
  - 2. Question #2: Equipment Schedule on sheet M5.01 has the two RTUs for the Gym shown as cooling unit with electric heat. Sheet MEP 2.02 key note 8 reference the Gym units as WSHP (Water Source Heat Pumps). Sheet MEP 2.03 Key Note 2, acts like the new units are not WSHPs. Are the new unit's convention RTU with Electric heat?
    - a. A. Existing units are WSHP's and after further discussion it was determined that they are to be replaced. The replacement will be with conventional packaged RTU's with electric heat.
  - 3. Question #3: Pertaining to the question above Gym units, the equipment schedule calls for curb adapters. The new units regardless of WSHP or conventional will be side discharge and will need to set on some sort of platform.
    - a. A. RTU's serving gym are to be supply/return from bottom of unit. Unit will need to have 44" high roof curb fabricated with both supply & return ducts routed within roof curb penetrating on side nearest to gym wall. Configuration will be similar to existing WSHP roof curb, with size and other modifications as required to accommodate new size and duct.
  - 4. Question #4: Sheet MEP 2.03 Key note 2, states to install new unit further back from wall, but gives no other info on how far back. Can someone state a length, so we can all price the same?
    - a. A. Length shall be around 3 feet, although this needs to be field verified as stated on updated plans. New RTU shall be installed with nearest side maintaining same gap between unit and gym wall as was before replacing existing WSHP. Duct length will also include routing within roof curb.

5. Question #5: Sheet M6.01 detail 7 does not match detail A3.1 detail 3. What entity will be responsible for the condenser supports? Roofer.....GC...Mechanical?
  - a. A. Roofer will be responsible for condenser supports. Mechanical details sheet M6.01 has been updated to remove detail. Note on sheet MEP2.03 has been revised to refer contractor to sheet A3.1 for condenser roof rack detail.

### **3.2 DOCUMENT 00 01 10 - TABLE OF CONTENTS**

- A. Page 00 01 10 – 3, Delete the following: “26 41 13 13 - Lightning Protection System for High Rise”

### **3.3 SECTION 26 41 13 13 – LIGHTNING PROTECTION SYSTEM FOR HIGH RISE**

- A. Delete this section in its entirety.

### **3.4 SHEET A1.00 – ARCHITECTURAL SITE PLAN**

- A. SITE PLAN: 4/A1.00 AREA 1 - Add note “SIDEWALK, CURBS, RAMPS, SHALL BE IN COMPLIANCE WITH CURRENT TEXAS ACCESSIBILITY STANDARDS AND CITY OF AUSTIN DESIGN STANDARDS PRIOR TO FINAL INSPECTION APPROVAL, AND VERIFY ALL SLOPES AND GRADES ARE COMPLIANT PRIOR TO POURING CONCRETE.”

### **3.5 SHEET A1.02 – ENLARGED DEMOLITION FLOOR PLAN**

- A. 1/A1.02 and 2/A1.02: Add demo note “PARTIALLY DEMO EXISTING WALL TO ACCOMMODATE FOR NEW HOT WATER PIPING AT SINKS, SAWCUT AS NECESSARY TO FIT NEW PIPE.” for walls where existing sinks are to be removed.
- B. 5/A1.02: Add demo note “DEMO AND REMOVE EXISTING PIPING AT WALL BEHIND SINK, PREPARE FOR NEW WAINSCOT”

### **3.6 SHEET A1.04 – ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS**

- A. 1/A1.04 and 2/A1.04:
  1. Replace interior elevation tag 5/A1.04 to 7/A1.04 for sink elevation.
  2. Add note “PAINT PATCHED WALL WITH EPOXY PAINT FROM COVE BASE TO TOP OF STRUCTURAL GLAZED BRICK AS REQUIRED, COLOR AS APPROVED BY ARCHITECT”

### **3.7 SHEET MEP2.03 – MECHANICAL ROOF PLAN**

- A. Reference attached revised sheet. Added ductwork and associated notes for RTU-11 & 12.

### **3.8 SHEET M2.02 – NEW MECHANICAL PLAN**

- A. Reference attached revised sheet.
  1. Revised supply duct for RTU-11 & 12 to be shown on roof plan.
  2. Revised cassettes to show with secondary condensate pump.

### **3.9 SHEET M5.01 – MECHANICAL SCHEDULES**

- A. Reference attached revised sheet.
  1. Added notes for condensate pump for DX Split system schedule.
  2. Added curb information for roof top units schedule.

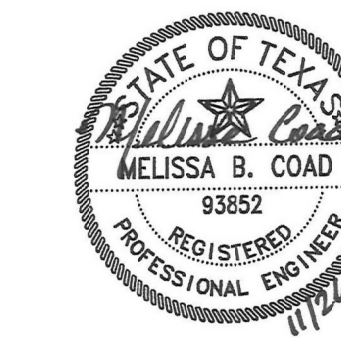
### **3.10 SHEET M6.01 – MECHANICAL DETAILS**

- A. Reference attached revised sheet.
  1. Removed condenser mounting detail which will be provided by the roofing consultant.
  2. Added ceiling mounted cassette detail.
  3. Added roof top unit 11 & 12 mounting detail.

**3.11 REVISED DRAWINGS**

- A. Sheets No. MEP2.03, M2.02, M5.01, and M6.01, dated November 26, 2018 and attached hereto, are revised drawings and are hereby made a part of this addendum.

END OF ADDENDUM NO. 3



Revision No.	Comments
1	CITY COMMENTS
2	ADDENDUM #3

Director RJ  
Designer Quality Control  
Proj. Coord. WW

**MECHANICAL GENERAL NOTES:**

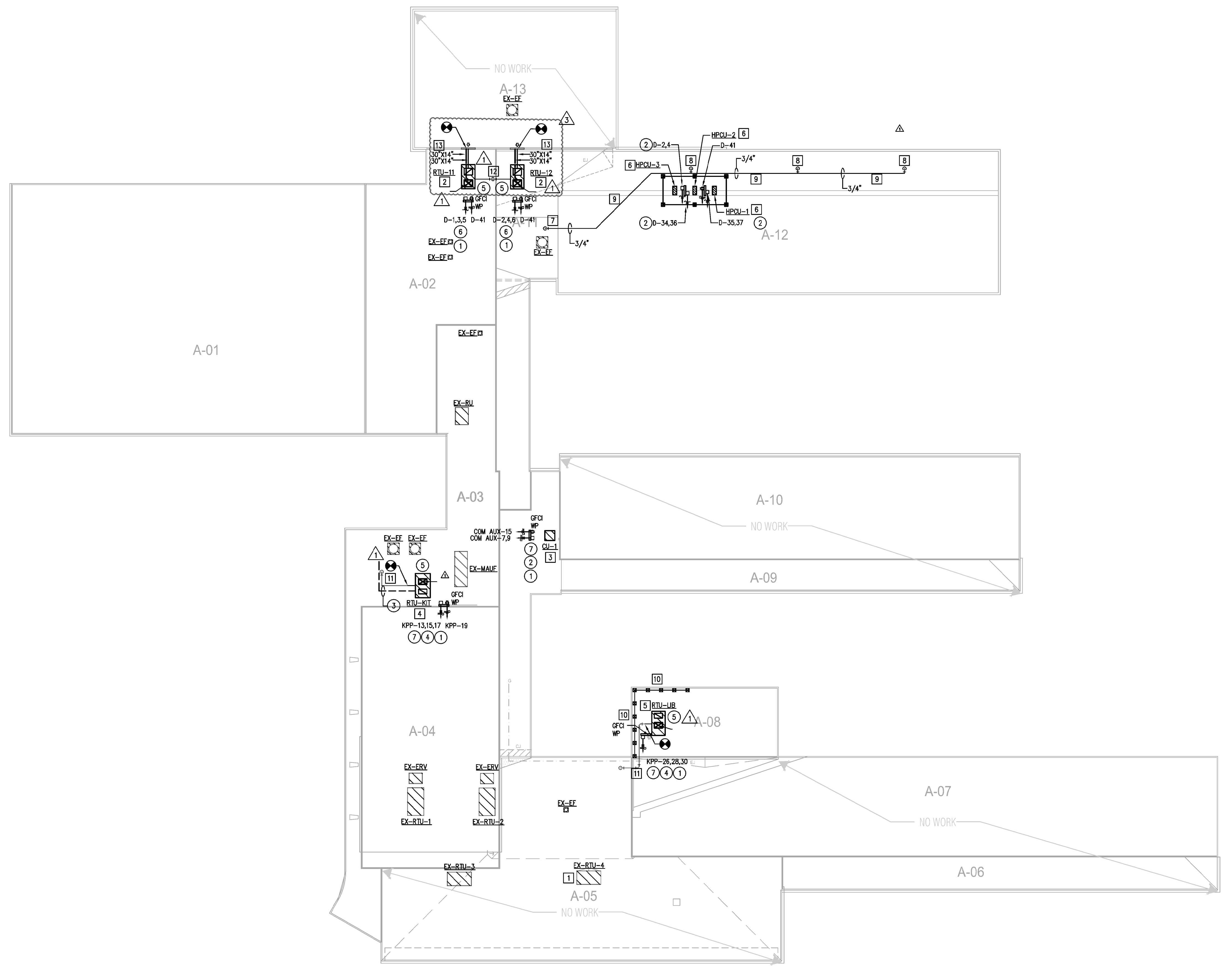
- A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF EXISTING CONDUIT, LIGHTS, FIRE SPRINKLER PIPING, CONDENSATE PIPING, EQUIPMENT, DUCTS, AND GRILLES, ETC. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT UPON PROJECT COMPLETION, THE EXISTING MECHANICAL SYSTEMS, FIRE SPRINKLER PIPING, CONDUIT, DUCTWORK, ETC. BE READY FOR OPERATION WHETHER OR NOT EVERY ITEM OF EQUIPMENT, ACCESSORY, DEVICE, ETC. IS SHOWN. REFERENCE SHALL BE MADE TO THE FULL DRAWING PACKAGE INCLUDING ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR COORDINATION AND POTENTIAL CONFLICTS. THE MECHANICAL SUBCONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICTS WITH OTHER TRADES, OR FOR PROPER EXECUTION OF THE WORK. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATING DUCTWORK.
- B. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS BEFORE ANY DEMOLITION WORK BEGINS.
- C. WORK SHALL BE DONE SO AS TO MINIMIZE DISRUPTION TO BUILDING ACTIVITIES. KEEP BUILDING SERVICES IN FULL OPERATION DURING NORMAL BUSINESS HOURS.
- D. SCHEDULING SHALL BE CLOSELY COORDINATED WITH THE OWNER AND NO WORK SHALL PROCEED WITHOUT AN OWNER-APPROVED SCHEDULE. SCHEDULE ALL SHUTDOWNS AT LEAST 48 HOURS IN ADVANCE WITH OWNER IN WRITING. REFER TO SPECIFICATIONS FOR AREAS REQUIRING SPECIAL ACCESS, SCHEDULING, AND/OR SECURITY.
- E. PROTECTION OF BUILDING PERSONNEL, FURNISHINGS AND SYSTEMS FROM HAZARD AND/OR CONTAMINATION ASSOCIATED WITH DEMOLITION AND CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATIONS.
- F. OWNER (AISD) REQUIRES THAT R22 REFRIGERANT FROM EXISTING AIR UNITS BEING DEMOLISHED AND/OR REPLACED BE RECAPTURED BY THE CONTRACTOR. AISD AC TECH WILL TEST THE REFRIGERANT OF EACH UNIT BEING REPLACED OR DEMOLISHED AND TAG THEM WITH EITHER "GOOD" OR "BAD" LABEL. THE AISD AC TECH WILL HAVE TO COMMUNICATE WITH THE CONTRACTOR HOW THE UNITS ARE LABELED. CONTRACTOR WILL THEN RECLAIM ALL THE REFRIGERANT FROM THE UNITS THAT HAVE BEEN LABELED "GOOD" AND DISPOSE OF THE ONES LABELED "BAD". AISD WILL PROVIDE THE CONTRACTOR WITH THE CANNISTERS NEEDED FOR RECOVERING THE REFRIGERANT. WHEN CAPTURE IS COMPLETE, CONTRACTOR SHALL NOTIFY THE AISD PROJECT MANAGER FOR THIS PROJECT, WHO WILL CONTACT THE AISD SERVICE CENTER FOR PICKUP. RECAPTURE APPLIES TO ANY QUANTITY OF R22 REFRIGERANT.
- G. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND, AS NECESSARY, THE OWNER.
- H. CONTRACTOR SHALL COORDINATE ROUTING OF ANY NEW PIPING OR DUCTWORK AT THE JOB SITE TO AVOID CONFLICT WITH EXISTING SYSTEMS, STRUCTURE, LIGHT FIXTURES AND PLUMBING LINES.
- I. COMPLETION: UPON COMPLETION OF THE WORK, AND PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL FURNISH TO THE OWNER IN THE FORM AND QUANTITIES REQUIRED BY THE SPECIFICATIONS, OWNER'S MANUAL, AND PROJECT RECORD DRAWINGS.
- J. NEW HVAC DUCTWORK, UNLESS NOTED OTHERWISE, TO BE GALVANIZED SHEET METAL SIZED, CONSTRUCTED, AND INSTALLED IN ACCORDANCE WITH THE SMACNA RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. SIZES SHOWN ON PLANS ARE IN METAL DIMENSIONS. ROUTE DUCTWORK SO AS TO MINIMIZE OFFSETS. FIELD VERIFY ROUTING ABOVE EXISTING CEILING. SEAL ALL DUCT SEAMS AIR TIGHT. MAXIMUM AIR LEAKAGE RATE = 5%.  
K. CONTRACTOR SHALL PROTECT EXISTING SECURITY CAMERAS DURING CONSTRUCTION AND SHALL CONFIRM CAMERAS ARE OPERATIONAL UPON CONSTRUCTION COMPLETION.
- L. PROVIDE BALANCING DAMPERS AT EACH SUPPLY AND RETURN BRANCH TAKE OFF.
- M. SMOKE DETECTORS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. COVER ALL SMOKE DETECTORS FOR PROTECTION.
- N. CLOCKS IN HALLWAYS SUSPENDED FROM CEILING TO BE CAREFULLY DISCONNECTED AND STORED DURING CONSTRUCTION. CLOCKS SHALL BE RE-INSTALLED IN PREVIOUS LOCATION WHEN CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL VERIFY THAT CLOCK SYSTEM IS WORKING PROPERLY WHEN INSTALLATION IS COMPLETE.
- O. EXIT SIGNS IN HALLWAYS WITH CEILING SCHEDULED FOR DEMOLITION AND SUSPENDED FROM CEILING TO BE CAREFULLY DISCONNECTED AND STORED DURING CONSTRUCTION. EXIT SIGNS SHALL BE RE-INSTALLED IN PREVIOUS LOCATION WHEN CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL VERIFY THAT POWER HAS BEEN RESTORED AND SIGNS ARE WORKING PROPERLY WHEN INSTALLATION IS COMPLETE.
- P. ALL DUCTWORK LOCATED OUTDOORS SHALL BE INSULATED PER SPECIFICATIONS FINISHED WITH ALUMINUM JACKETING.
- Q. ALL CONDENSATE PIPING WITHIN BUILDING STRUCTURE SHALL BE INSULATED PER SPECIFICATIONS.
- R. ALL FLEXIBLE DUCTWORK AND CONNECTORS SHALL NOT EXCEED 5 FEET IN TOTAL LENGTH.

**MECHANICAL KEYED NOTES:**

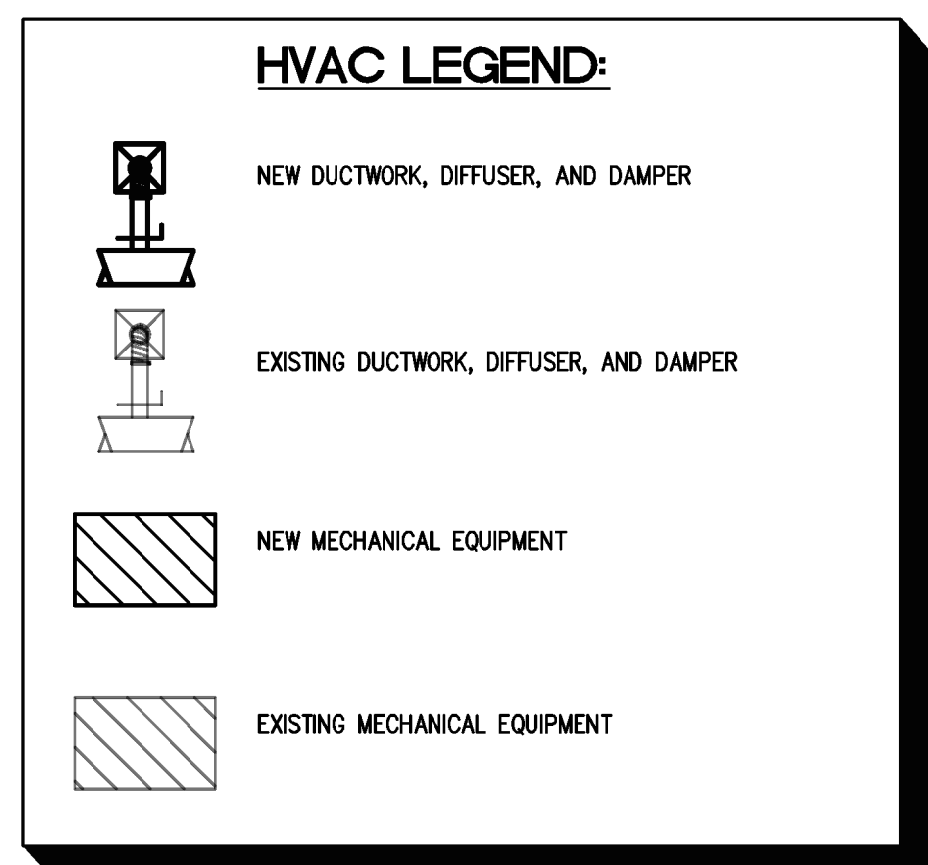
- 1 CONTRACTOR TO FIELD VERIFY EXACT ROUTING OF ROOFTOP UNIT CONDENSATE LINE. SEAL/REPAIR LEAKING PIPE AS REQUIRED.
- 2 PROVIDE NEW ROOF TOP UNITS TO SERVE GYM AT APPROXIMATE LOCATION SHOWN. UNIT SHALL BE INSTALLED IN SAME LOCATION AS PREVIOUSLY REPLACED UNIT, PROVIDING SAME DISTANCE BETWEEN UNIT AND GYM WALL AS WAS PRIOR TO REPLACEMENT. PROVIDE NEW ROOF FLASHINGS AND 4" HIGH ROOF CURB WITH DIMENSIONS EQUAL TO UNIT. UNITS SUPPLY & RETURN SHALL BE BOTTOM DISCHARGE AND BE ROUTED WITHIN ROOF CURB TO PENETRATE SIDE OF ROOF CURB. PROVIDE ALL DUCT TRANSITION PIECES AS REQUIRED TO RE-USE EXISTING PENETRATIONS INTO EXISTING GYM WALL AND CONNECT TO EXISTING SUPPLY/RETURN GRILLES. INSTALL UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE ALL REQUIRED CLEARANCES. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY DUCT. REFER TO DETAIL #11 ON SHEET M6.01 FOR CURB DUCT ROUTING CLARIFICATION.
- 3 PROVIDE REPLACEMENT SPLIT SYSTEM FOR MEET ROOM. UNITS SHALL BE INSTALLED IN SAME LOCATION AS PREVIOUSLY REMOVED UNIT. PROVIDE CONDENSER MOUNTING RACK FOR RAISING UNIT A MINIMUM OF 14" ABOVE ROOF. PROVIDE AND ROUTE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATION. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE ALL REQUIRED CLEARANCES.
- 4 PROVIDE REPLACEMENT ROOFTOP UNIT TO SERVE KITCHEN. UNIT SHALL BE INSTALLED IN SAME LOCATION AS PREVIOUSLY REMOVED UNIT PROVIDING NEW ROOF FLASHINGS WITH ROOF CURB MODIFICATIONS AS NEEDED TO MEET 18" MINIMUM HEIGHT REQUIREMENT. PROVIDE FITTINGS AS REQUIRED TO CONNECT TO EXISTING DUCTWORK. INSTALL UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE ALL REQUIRED CLEARANCES. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY DUCT. PROVIDE NEW GAS PIPING AND RECONNECT EXISTING GAS LINE TO NEW REPLACEMENT ROOFTOP UNIT PER MANUFACTURER'S RECOMMENDATIONS FOR A COMPLETE AND WORKING SYSTEM.
- 5 PROVIDE REPLACEMENT ROOFTOP UNIT TO SERVE LIBRARY. UNIT SHALL BE INSTALLED IN SAME LOCATION AS PREVIOUSLY REMOVED UNIT PROVIDING NEW ROOF FLASHINGS AND ROOF CURB MODIFICATIONS AS NEEDED TO MEET 18" MINIMUM HEIGHT REQUIREMENT. PROVIDE ALL DUCT TRANSITIONS AND FITTINGS AS REQUIRED TO CONNECT TO EXISTING DUCTWORK. INSTALL UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE ALL REQUIRED CLEARANCES. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY DUCT. PROVIDE NEW GAS PIPING AND RECONNECT EXISTING GAS LINE TO NEW REPLACEMENT ROOFTOP UNIT PER MANUFACTURER'S RECOMMENDATIONS FOR A COMPLETE AND WORKING SYSTEM.
- 6 PROVIDE DUCTLESS SPLIT SYSTEM HEAT PUMP FOR CORRIDOR ENCLOSURE CASSETTE UNITS. INSTALL UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE ALL RECOMMENDED CLEARANCES WHILE MAINTAINING A MINIMUM DISTANCE OF 10 FEET FROM ANY EDGE OF ROOF. PROVIDE CONDENSER MOUNTING RACK FOR RAISING UNIT A MINIMUM OF 14" ABOVE ROOF. REFER TO SHEET A3.1 FOR ROOFING CONSULTANT CONDENSER RACK DETAIL. COORDINATE WITH MANUFACTURER FOR REFRIGERANT PIPE ROUTING PREFERENCES. COORDINATE WITH ELECTRICAL FOR POWER REQUIREMENTS.
- 7 ROUTE 3/4" INSULATED CONDENSATE PIPING DOWN TO STORAGE ROOM SINK. REFER TO SHEET M2.02 FOR PIPE CONTINUATION.
- 8 ROUTE 3/4" INSULATED CONDENSATE PIPING DOWN TO CEILING MOUNTED CASSETTE UNIT IN CORRIDOR ENCLOSURE. REFER TO SHEET M2.02 FOR PIPE CONTINUATION.
- 9 ALL CONDENSATE PIPING ON ROOF SHALL BE INSULATED AND SLOPED AT A MINIMUM OF 1/8TH INCH PER FOOT. PROVIDE PIPE WITH PORTABLE PIPE HANGER MODEL S58-S' SUPPORTS FOR ENTIRE ROUTING ACROSS ROOF LEVEL. PROVIDE SUPPORTS AT A MINIMUM OF EVERY 8 FEET.
- 10 FALL PROTECTION RAILING. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE AS REQUIRED BY CODE.
- 11 PROVIDE AND ROUTE INSULATED CONDENSATE PIPING ON ROOF TO EXISTING CONDENSATE ON ROOF. SUPPORT PIPE EVERY 4 FEET SLOPING AT 1/4" PER FOOT. CONTRACTOR SHALL PROVIDE NEW TRAP WITH NEW UNIT UPON CONNECTING TO NEW REPLACEMENT UNIT.
- 12 PROVIDE AND ROUTE 1" INSULATED CONDENSATE PIPING COMBINED FROM RTU-11 AND RTU-12 DOWN THROUGH ROOF TO FLOOR DRAIN IN STORAGE ROOM. REFER TO SHEET M2.02 FOR PIPE CONTINUATION. SUPPORT PIPE EVERY 4 FEET SLOPING AT 1/8" PER FOOT. CONTRACTOR SHALL PROVIDE NEW TRAP WITH NEW UNIT UPON REPLACEMENT.
- 13 PROVIDE NEW SUPPLY & RETURN DUCT FROM SIDE OF ROOF CURB TO CONNECT TO EXISTING GYM WALL GRILLES. DUCT SHALL BE SIZED AS SHOWN ON PLANS. DUCTS SHOWN ARE OFFSET FOR CLARITY. RETURN DUCT SHALL BE ROUTED TO TOP GRILLE IN GYM WALL, AND SUPPLY DUCT SHALL BE ROUTED UNDERNEATH RETURN DUCT TO BOTTOM GRILLE IN GYM WALL. PROVIDE TRANSITIONS & FITTINGS AS REQUIRED TO CONNECT TO RTU SUPPLY/RETURN INLET CONNECTIONS ON BOTTOM OF UNIT. PROVIDE ALUMINUM JACKETING FOR ALL DUCTWORK EXPOSED ON ROOF.

**ELECTRICAL KEYED NOTES:**

- 1 PROVIDE NEW DISCONNECT ON STAND-ALONE UNISTRUT RACK TO SERVE UPDATED MECHANICAL EQUIPMENT. DISCONNECT TO MATCH EXISTING DISCONNECT VOLTAGE, AMPACITY AND NEMA RATING. CONTRACTOR TO FIELD VERIFY EXISTING CIRCUIT, FEEDER AND BREAKER PRIOR TO CONNECTION. CONTRACTOR TO VERIFY FEEDER, BREAKER AND DISCONNECT MEET MANUFACTURER'S REQUIREMENTS FOR NEW MECHANICAL EQUIPMENT. REPLACE ALL ELECTRICAL SERVICE TO MECHANICAL UNIT IF ELECTRICAL EQUIPMENT, DEVICES, FEEDERS AND CONDUIT ARE NOT ADEQUATE FOR NEW MECHANICAL UNIT. COORDINATE WITH EXISTING EQUIPMENT PRIOR TO DEMOLITION AND INSTALLATION. SPLICE EXISTING FEEDERS AND EXTEND EXISTING CONDUIT AS NECESSARY.
- 2 PROVIDE NEW STAND-ALONE UNISTRUT RACK-MOUNTED DISCONNECT. 30A/NF/208/1PH/NEMA 3R.
- 3 EXISTING ELECTRICAL CONDUIT TO BE RAISED AT ROOF PENETRATION BY ELECTRICAL CONTRACTOR. REFER TO 2/A3.0 FOR CLEARANCE REQUIREMENTS AND NEW ROOF FLASHING.
- 4 PROVIDE NEW STAND-ALONE UNISTRUT RACK-MOUNTED DISCONNECT. 60A/NF/208/3PH/NEMA 3R.
- 5 PROVIDE DUCT DETECTOR IN RETURN DUCT OF MECHANICAL UNIT. DUCT SMOKE DETECTOR PROVIDED BY MECHANICAL CONTRACTOR AND WIRE TO FIRE ALARM CONTROL PANEL PROVIDED BY FIRE ALARM CONTRACTOR.
- 6 PROVIDE NEW STAND-ALONE UNISTRUT RACK-MOUNTED DISCONNECT. 100A/NF/208/3PH/NEMA 3R.
- 7 PANEL/BREAKER BASED UPON AS-BUILT DOCUMENTATION AND FIELD VERIFICATION.



**MEP ROOF PLAN**  
1/16"=1'-0"



**JONES\*DBR**  
906 W. W. HWY  
7800 Shoal Creek Boulevard  
Suite 100-W  
Austin, Texas 78757  
512.637.4393 p  
512.637.4396 f  
TBE Firm Registration No. 13002

JONES\*DBR Project Number 18515.000

MC |AW|AH| HH | JL | --



REVISIONS	
Revision No.	
1	CITY REVIEW COMMENTS
2	ADDENDUM #3

Director Drawn By  
 RJ  
 Designer Quality Control

Proj. Coord.  
 WW

PROJECT NO.  
**1831.00**

SHEET TITLE  
 NEW MECHANICAL  
 PLAN

SHEET NO.

**M2.02**

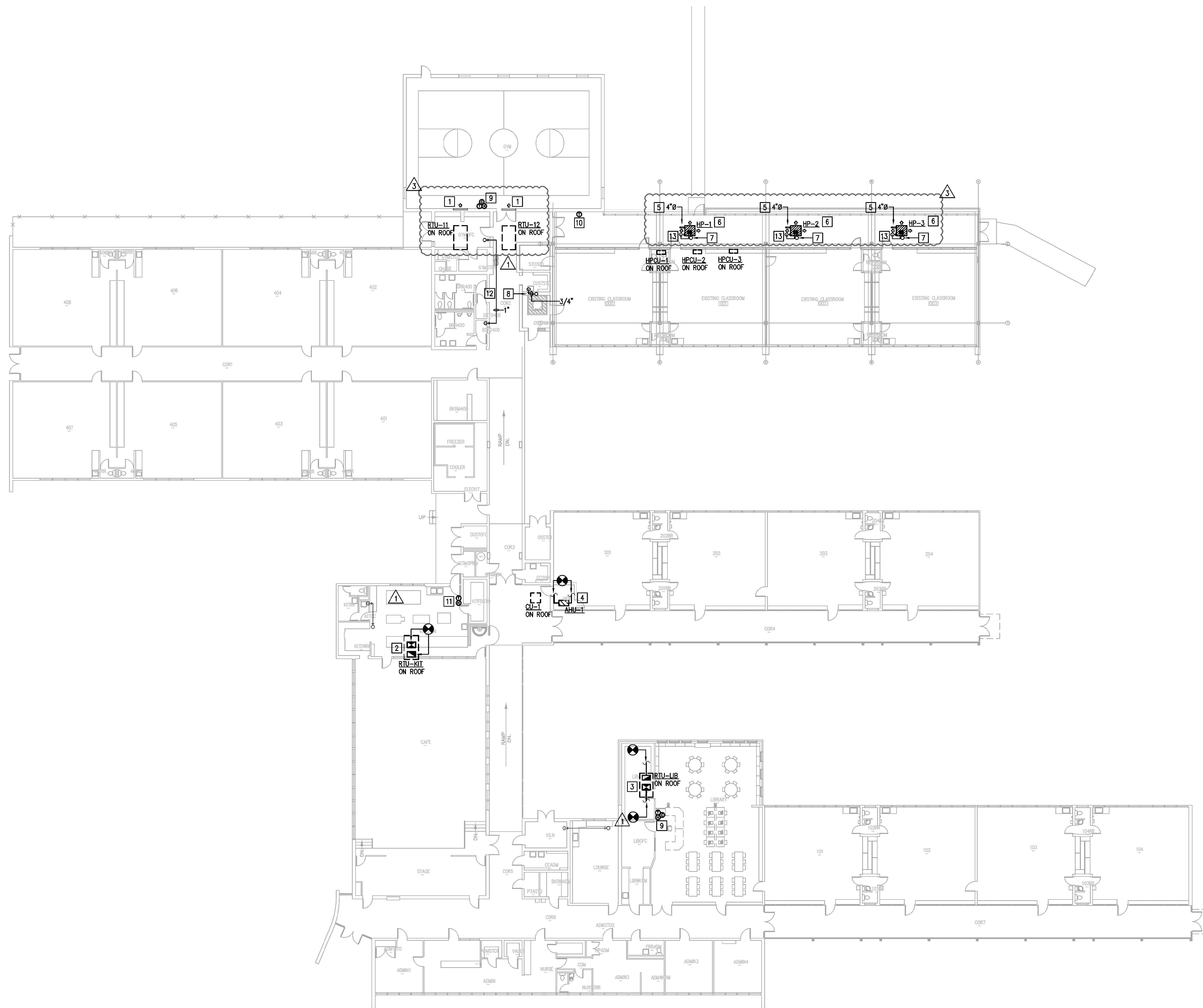
**MECHANICAL GENERAL NOTES:**

- A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF EXISTING CONDUIT, LIGHTS, FIRE SPRINKLER PIPING, CONDENSATE PIPING, EQUIPMENT, DUCTS, AND GRILLES, ETC. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT UPON PROJECT COMPLETION, THE EXISTING MECHANICAL SYSTEMS, FIRE SPRINKLER PIPING, CONDUIT, DUCTWORK, ETC., BE READY FOR OPERATION WHETHER OR NOT EVERY ITEM OF EQUIPMENT, ACCESSORY, DEVICE, ETC. IS SHOWN. REFERENCE SHALL BE MADE TO THE FULL DRAWING PACKAGE INCLUDING ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR COORDINATION AND POTENTIAL CONFLICTS. THE MECHANICAL SUBCONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICTS WITH OTHER TRADES, OR FOR PROPER EXECUTION OF THE WORK. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATING DUCTWORK.
- B. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS BEFORE ANY DEMOLITION WORK BEGINS.
- C. WORK SHALL BE DONE SO AS TO MINIMIZE DISRUPTION TO BUILDING ACTIVITIES. KEEP BUILDING SERVICES IN FULL OPERATION DURING NORMAL BUSINESS HOURS.
- D. SCHEDULING SHALL BE CLOSELY COORDINATED WITH THE OWNER AND NO WORK SHALL PROCEED WITHOUT AN OWNER-APPROVED SCHEDULE. SCHEDULE ALL SHUTDOWNS AT LEAST 48 HOURS IN ADVANCE WITH OWNER IN WRITING. REFER TO SPECIFICATIONS FOR AREAS REQUIRING SPECIAL ACCESS, SCHEDULING, AND/OR SECURITY.
- E. PROTECTION OF BUILDING PERSONNEL, FURNISHINGS AND SYSTEMS FROM HAZARD AND/OR CONTAMINATION ASSOCIATED WITH DEMOLITION AND CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATIONS.
- G. OWNER (ASD) REQUIRES THAT R22 REFRIGERANT FROM EXISTING AIR UNITS BEING DEMOLISHED AND/OR REPLACED BE RECAPTURED BY THE CONTRACTOR. AI SD AC TECH WILL TEST THE REFRIGERANT OF EACH UNIT BEING REPLACED OR DEMOLISHED AND TAG THEM WITH EITHER "GOOD" OR "BAD" LABEL. THE AI SD AC TECH WILL HAVE TO COMMUNICATE WITH THE CONTRACTOR HOW THE UNITS ARE LABELED. CONTRACTOR WILL THEN RECLAIM ALL THE REFRIGERANT FROM THE UNITS THAT HAVE BEEN LABELED "GOOD" AND DISPOSE OF THE ONES LABELED "BAD". AI SD WILL BE PROVIDED THE CONTRACTOR WITH THE CANSISTERS NEEDED FOR RECOVERING THE REFRIGERANT. WHEN CAPTURE IS COMPLETE, CONTRACTOR SHALL NOTIFY THE AI SD PROJECT MANAGER FOR THIS PROJECT, WHO WILL CONTACT THE AI SD SERVICE CENTER FOR PICKUP. RECAPTURE APPLIES TO ANY QUANTITY OF R22 REFRIGERANT.
- H. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND, AS NECESSARY, THE OWNER.
- I. CONTRACTOR SHALL COORDINATE ROUTING OF ANY NEW PIPING OR DUCTWORK AT THE JOB SITE TO AVOID CONFLICT WITH EXISTING SYSTEMS, STRUCTURE, LIGHT FIXTURES AND PLUMBING LINES.
- J. COMPLETION: UPON COMPLETION OF THE WORK, AND PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL FURNISH TO THE OWNER IN THE FORM AND QUANTITIES REQUIRED BY THE SPECIFICATIONS: OWNER'S MANUAL AND PROJECT RECORD DRAWINGS.
- K. NEW HVAC DUCTWORK, UNLESS NOTED OTHERWISE, TO BE GALVANIZED SHEET METAL SIZED, CONSTRUCTED, AND INSTALLED IN ACCORDANCE WITH THE SMACNA RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. SIZES SHOWN ON PLANS ARE IN METAL DIMENSIONS. ROUTE DUCTWORK SO AS TO MINIMIZE OFFSETS. FIELD VERIFY ROUTING ABOVE EXISTING CEILING. SEAL ALL DUCT SEAMS AIR TIGHT; MAXIMUM AIR LEAKAGE RATE = 5%.
- L. CONTRACTOR SHALL PROTECT EXISTING SECURITY CAMERAS DURING CONSTRUCTION AND SHALL CONFIRM CAMERAS ARE OPERATIONAL UPON CONSTRUCTION COMPLETION.
- M. PROVIDE BALANCING DAMPERS AT EACH SUPPLY AND RETURN BRANCH TAKE OFF.
- N. SMOKE DETECTORS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. COVER ALL SMOKE DETECTORS FOR PROTECTION.
- O. CLOCKS IN HALLWAYS SUSPENDED FROM CEILING TO BE CAREFULLY DISCONNECTED AND STORED DURING CONSTRUCTION. CLOCKS SHALL BE RE-INSTALLED IN PREVIOUS LOCATION WHEN CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL VERIFY THAT CLOCK SYSTEM IS WORKING PROPERLY WHEN INSTALLATION IS COMPLETE.
- P. EXIT SIGNS IN HALLWAYS WITH CEILING SCHEDULED FOR DEMOLITION AND SUSPENDED FROM CEILING TO BE CAREFULLY DISCONNECTED AND STORED DURING CONSTRUCTION. EXIT SIGNS SHALL BE RE-INSTALLED IN PREVIOUS LOCATION WHEN CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL VERIFY THAT POWER HAS BEEN RESTORED AND SIGNS ARE WORKING PROPERLY WHEN INSTALLATION IS COMPLETE.
- Q. ALL FLEXIBLE DUCTWORK AND CONNECTORS SHALL NOT EXCEED 5 FEET IN TOTAL LENGTH.

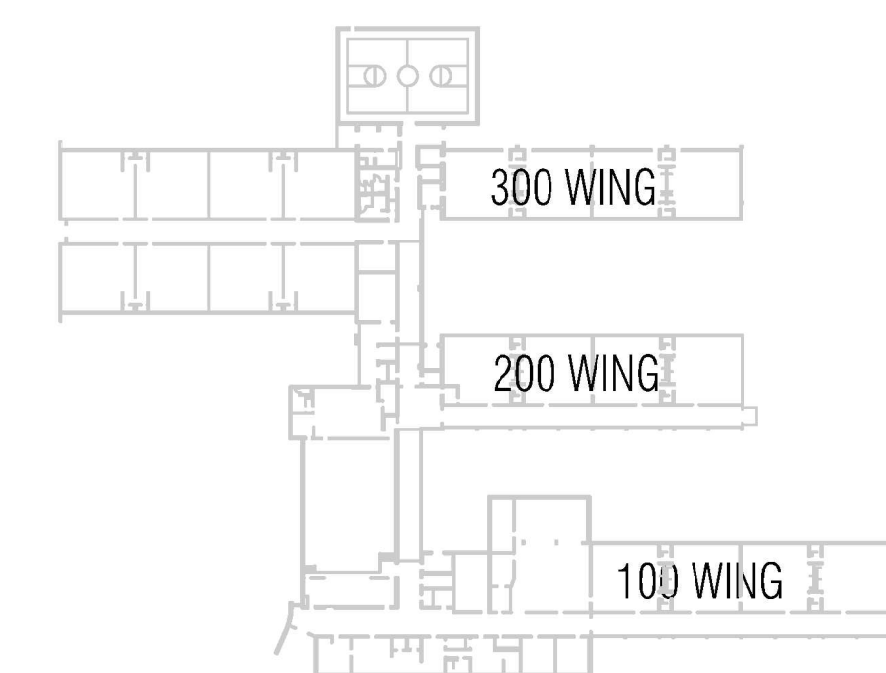
**MECHANICAL KEYED NOTES:**

- 1 ALL DIFFUSERS/GRILLES ASSOCIATED WITH UNIT SHALL BE REBALANCED TO AIRFLOW READINGS FOUND IN PRE-AUDIT PRIOR TO REMOVAL OF EXISTING UNIT.
- 2 PROVIDE VERTICAL SUPPLY AND RETURN DUCT SECTION FOR RTU SERVING KITCHEN. ROUTE VERTICAL DUCTS DOWN FOR RECONNECTION TO EXISTING SUPPLY AND RETURN DUCT BELOW CEILING LEVEL IN SPACE. PROVIDE FITTINGS AND TRANSITIONS AS REQUIRED FOR RECONNECTION AND REROUTING. ALL DIFFUSERS/GRILLES ASSOCIATED WITH UNIT SHALL BE REBALANCED TO AIRFLOW READINGS FOUND IN PRE-AUDIT PRIOR TO REMOVAL OF EXISTING UNIT.
- 3 PROVIDE VERTICAL SUPPLY AND RETURN DUCT SECTION FOR RTU SERVING LIBRARY. ROUTE VERTICAL DUCTWORK DOWN FROM UNIT TO ABOVE CEILING AND RECONNECT TO EXISTING HORIZONTAL DUCTWORK. PROVIDE FITTINGS AND TRANSITIONS AS REQUIRED TO MATCH EXISTING DUCT PRIOR TO REMOVAL. ALL DIFFUSERS/GRILLES ASSOCIATED WITH UNIT SHALL BE REBALANCED TO AIRFLOW READINGS FOUND IN PRE-AUDIT PRIOR TO REMOVAL OF EXISTING UNIT.
- 4 PROVIDE NEW AIR HANDLING UNIT ABOVE MDF ROOM CEILING. UNIT SHALL BE INSTALLED IN SAME LOCATION AS EXISTING UNIT PRIOR TO REMOVAL. INSTALL UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE ALL RECOMMENDED CLEARANCES. PROVIDE SUPPLY AND RETURN DUCTWORK SECTIONS AS REQUIRED TO CONNECT TO EXISTING DUCTWORK IN SPACE. PROVIDE NEW CONDENSATE LINE TO CONNECT TO EXISTING PIPING FROM PREVIOUSLY REMOVED UNIT. CONDENSATE PIPING SHALL BE SIZED AND SLOPED TO MATCH PREVIOUSLY REMOVED LINE SERVING UNIT. ALL DIFFUSERS/GRILLES ASSOCIATED WITH UNIT SHALL BE REBALANCED TO AIRFLOW READINGS FOUND IN PRE-AUDIT PRIOR TO REMOVAL OF EXISTING UNIT.
- 5 ROUTE 4" Ø OUTSIDE AIR DUCT FROM CEILING MOUNTED CASSETTE TO ROOF. PROVIDE INTAKE HOOD ON ROOF LEVEL.
- 6 PROVIDE DUCTLESS SPLIT SYSTEM CASSETTE UNIT FOR CORRIDOR ENCLOSURE. INSTALL UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PROVIDE ALL RECOMMENDED CLEARANCES AND ACCESSORIES FOR MOUNTING UNIT AS HIGH AS POSSIBLE FROM STRUCTURE ABOVE. COORDINATE WITH MANUFACTURER FOR REFRIGERANT PIPE ROUTING PREFERENCES. COORDINATE WITH ELECTRICAL FOR POWER REQUIREMENTS.
- 7 ROUTE 3/4" CONDENSATE PIPE UP TO ROOF FROM SECONDARY CONDENSATE PUMP. COORDINATE ROOF PENETRATION WITH STRUCTURAL COMPONENTS AND OTHER TRADES. REFER TO SHEET MEP2.03 FOR PIPE CONTINUATION. RE: PIPE THROUGH ROOF/WALL DETAIL BY ENGINEERING EXTERIORS ROOFING CONSULTANTS.
- 8 ROUTE 3/4" CONDENSATE PIPE FROM ROOF DOWN TO EXISTING SINK IN STORAGE SPACE. FIELD VERIFY EXACT SINK HEIGHT AND TERMINATE CONDENSATE PIPING ABOVE SINK. RE: PIPE THROUGH ROOF/WALL DETAIL BY ENGINEERING EXTERIORS ROOFING CONSULTANTS.
- 9 VERIFY EXISTING SENSOR LOCATIONS AND PROVIDE REPLACEMENT CO2, HUMIDITY, AND TEMPERATURE COMBINATION SENSOR IN SAME LOCATION. IF NO SENSORS ARE PRESENT, PROVIDE SENSORS AS SHOWN ON DRAWINGS. PROVIDE ALL WIRING AS REQUIRED TO RECONNECT SENSORS TO REPLACEMENT UNIT SERVING SPACE WITH SAME FUNCTIONALITY PRIOR TO REPLACEMENT. CO2 SENSORS SHALL CONTROL OUTSIDE AIR DAMPERS IN ASSOCIATED RTU. DAMPER SHALL BE PROPORTIONALLY CONTROLLED BETWEEN MIN. AND MAX. OUTSIDE AIRFLOW. RE: DETAIL FOR AIRFLOW SETTINGS. MINIMUM OUTSIDE AIRFLOW SHALL CORRESPOND TO 300 PPM CO2 SENSOR READING, WHILE MAXIMUM OUTSIDE AIRFLOW SHALL CORRESPOND TO 1000 PPM CO2 SENSOR READING.
- 10 PROVIDE TEMPERATURE SENSOR FOR CORRIDOR CEILING CASSETTES. PROVIDE ALL WIRING AS REQUIRED TO INTERLOCK ALL UNITS FOR SINGLE POINT READING. COORDINATE FINAL MOUNTING HEIGHT WITH ARCHITECT.
- 11 VERIFY EXISTING SENSOR LOCATIONS AND PROVIDE REPLACEMENT HUMIDITY, AND TEMPERATURE COMBINATION SENSOR IN KITCHEN. IF NO SENSORS ARE PRESENT, PROVIDE SENSORS AS SHOWN ON DRAWINGS.
- 12 1" INSULATED CONDENSATE PIPING DOWN FROM ROOF SERVING RTU-11 AND RTU-12. ROUTE CONDENSATE TO FLOOR DRAIN IN STORAGE ROOM. COORDINATE WITH PLUMBING FOR EXACT DISCHARGE LOCATION WITHIN SPACE.
- 13 PROVIDE SECONDARY CONDENSATE PUMP CAPABLE, MODEL SAUERMANN SI-30 OR EQUAL. FIELD VERIFY CLEARANCES FOR PUMP AND MOUNT ON TOP OF CASSETTE IF APPLICABLE. COORDINATE WITH MANUFACTURER FOR EXACT INSTALLATION RECOMMENDATIONS AND CLEARANCES REQUIRED. 3/4" CONDENSATE PIPE SHALL BE ROUTED FROM INTERNAL CONDENSATE PUMP WITHIN CEILING CASSETTE TO SECONDARY CONDENSATE PUMP. PROVIDE FITTINGS & PIPING AS REQUIRED TO MAKE PROPER CONNECTIONS.

HVAC LEGEND:	
	NEW DUCTWORK, DIFFUSER, AND DAMPER
	EXISTING DUCTWORK, DIFFUSER, AND DAMPER
	NEW MECHANICAL EQUIPMENT
	EXISTING MECHANICAL EQUIPMENT



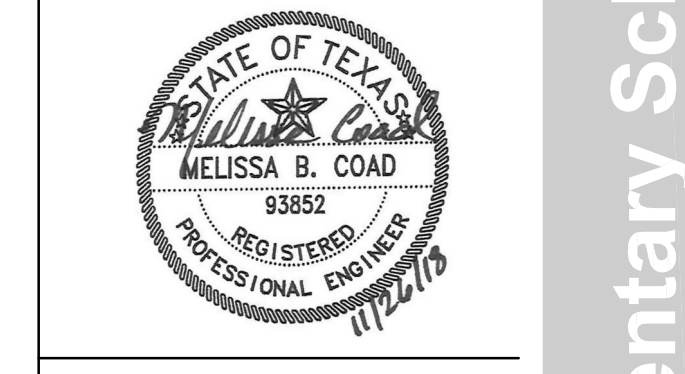
**1** NEW MECHANICAL PLAN  
 M2.02 1/16"=1'-0"



**JONES\*DBR**  
 SITE @ 0.000 WBM  
 7800 Shoal Creek Boulevard  
 Suite 100-W  
 Austin, Texas 78757  
 512.637.4393 p  
 512.637.4396 f  
 TBE Firm Registration No. 13002

JONES\*DBR Project Number 18515.000  
 MC | AW/AH | HH | JL | --





ISSUE DATE: OCTOBER 25, 2018

REVISIONS	
Revision No.	
3	ADDENDUM #3

Director Drawn By  
 RJ  
 Designer Quality Control

Proj. Coord.  
 WW

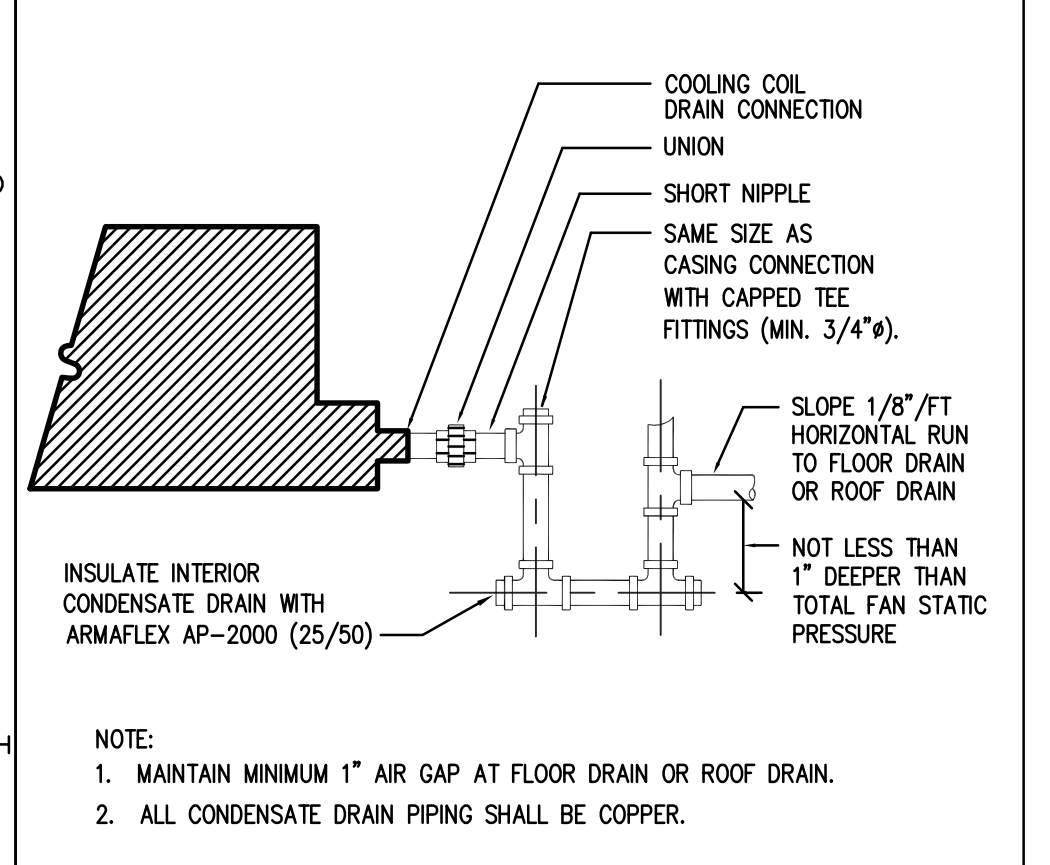
PROJECT NO.  
**1831.00**

SHEET TITLE  
**MECHANICAL  
 DETAILS**

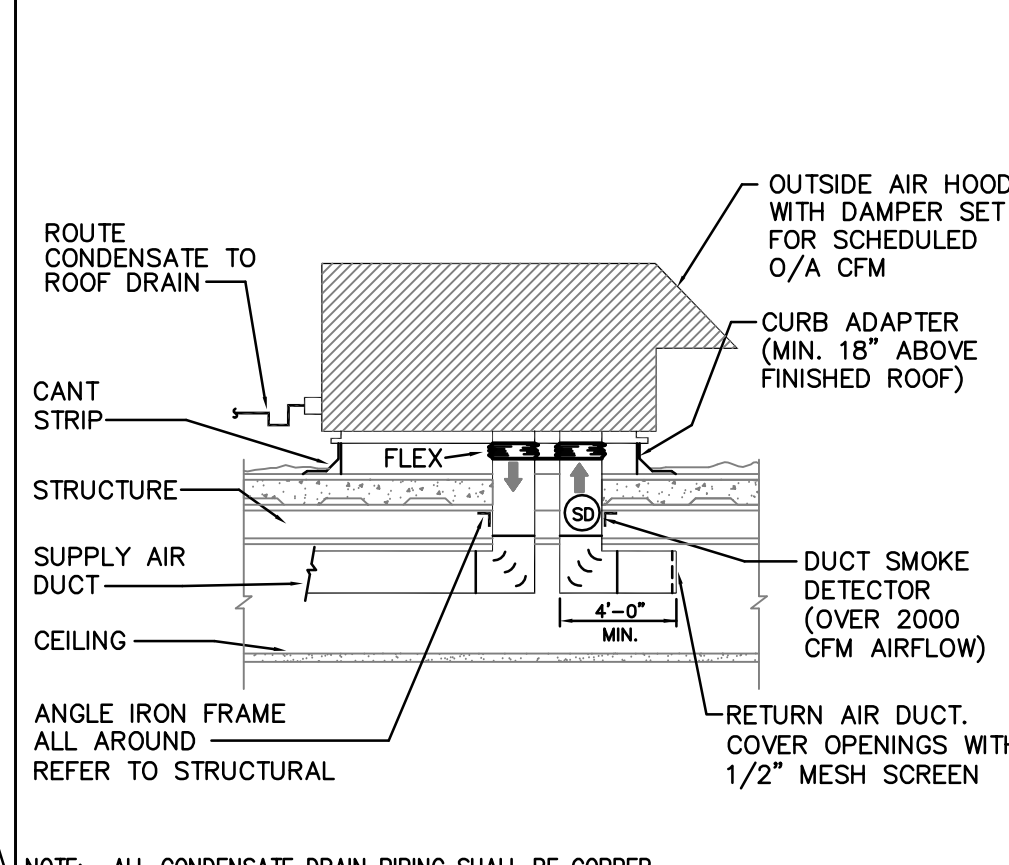
SHEET NO.  
**M6.01**

**JONES\*DBR**  
 ONE 006 NORTH  
 7800 Shoal Creek Boulevard  
 Suite 100-W  
 Austin, Texas 78757  
 512.637.4393 p  
 512.637.4396 f  
 TPE Firm Registration No. 13002

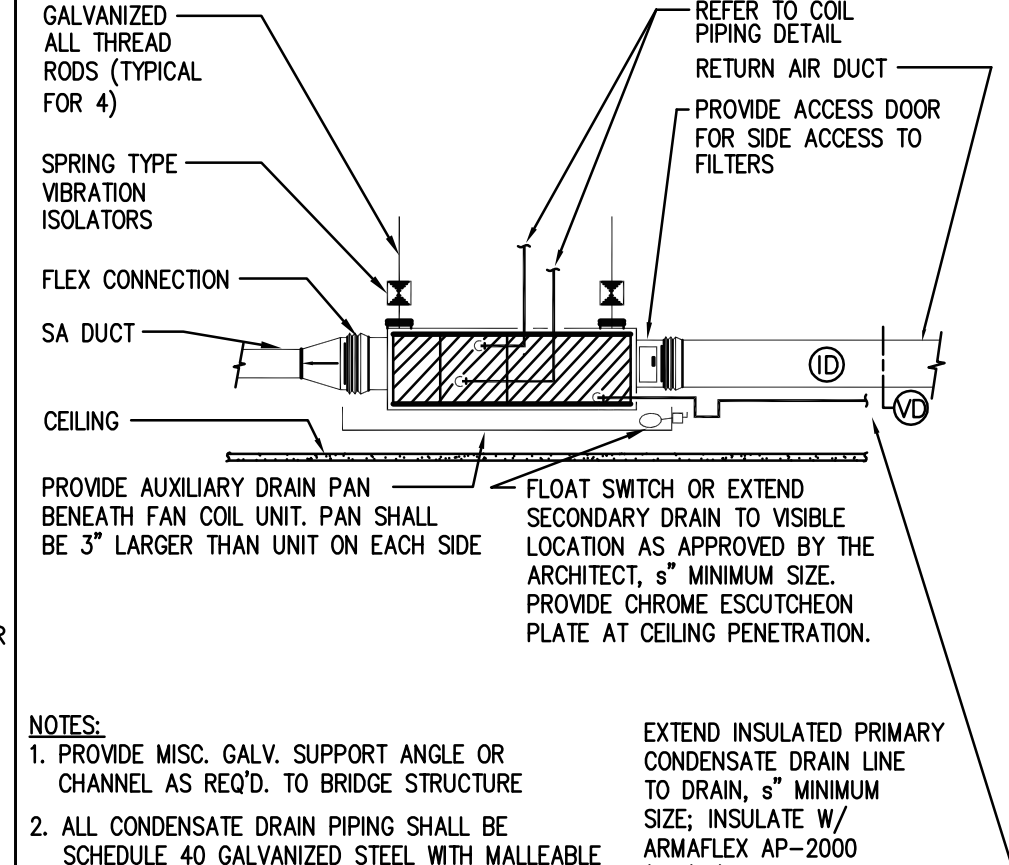
JONES\*DBR Project Number 18515.000  
 MC | AW/AH | HH | JL | --



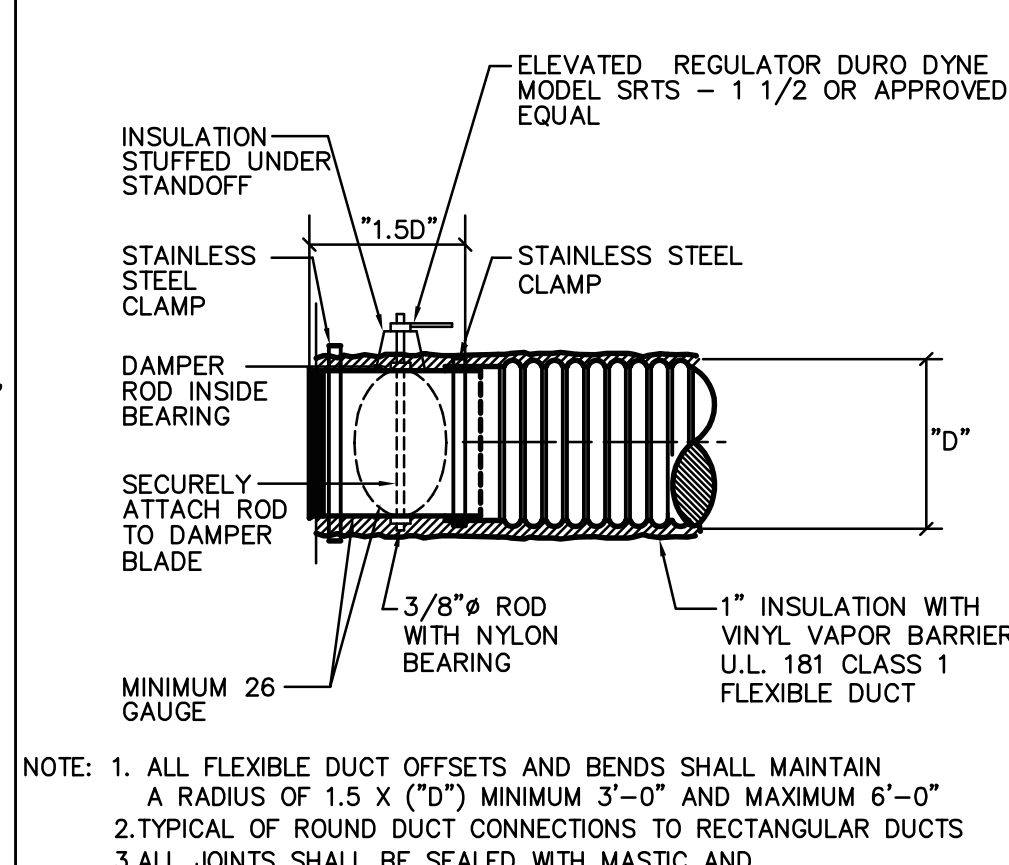
**6 COOLING COIL CONDENSATE DRAIN**  
 NOT TO SCALE



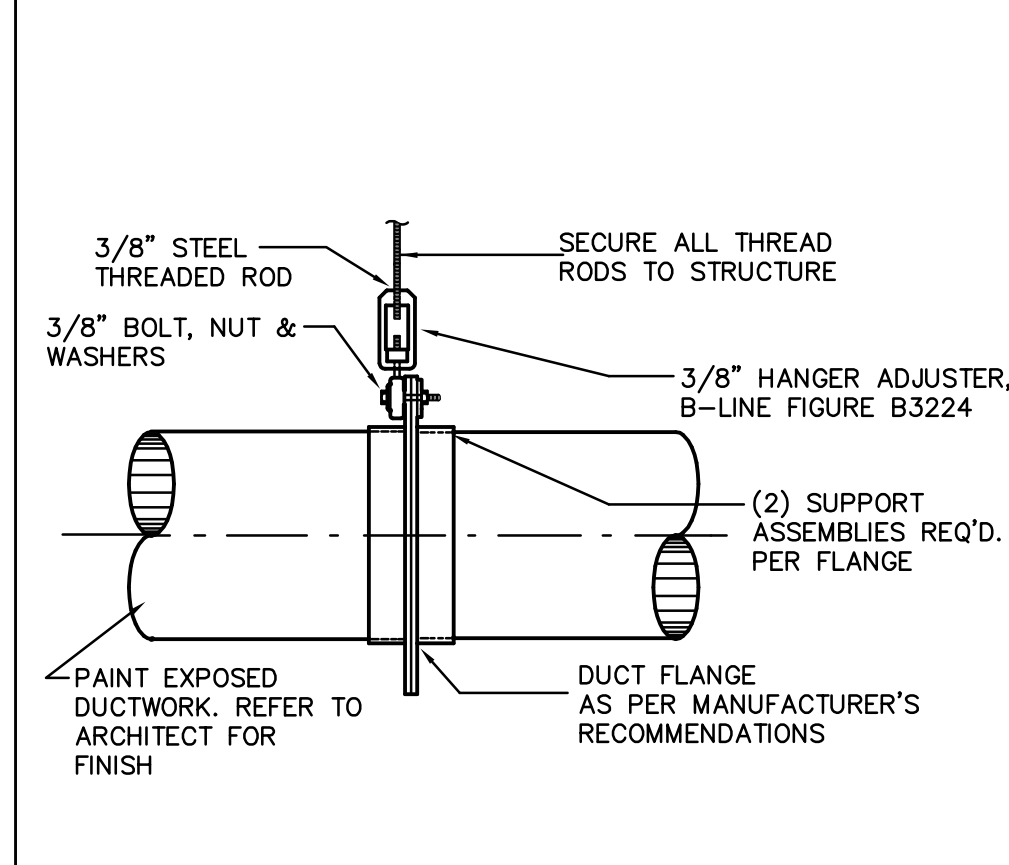
**5 ROOF TOP UNIT MOUNTING DETAIL**  
 NOT TO SCALE



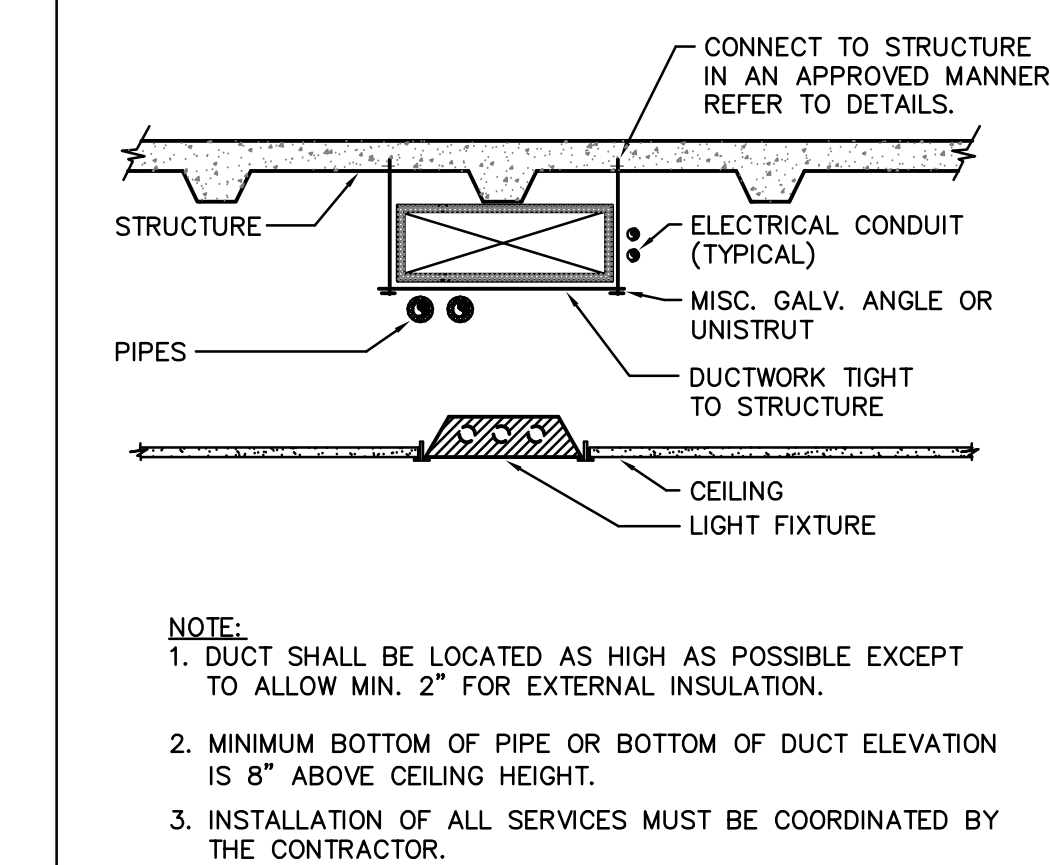
**4 FAN COIL UNIT MOUNTING**  
 NOT TO SCALE



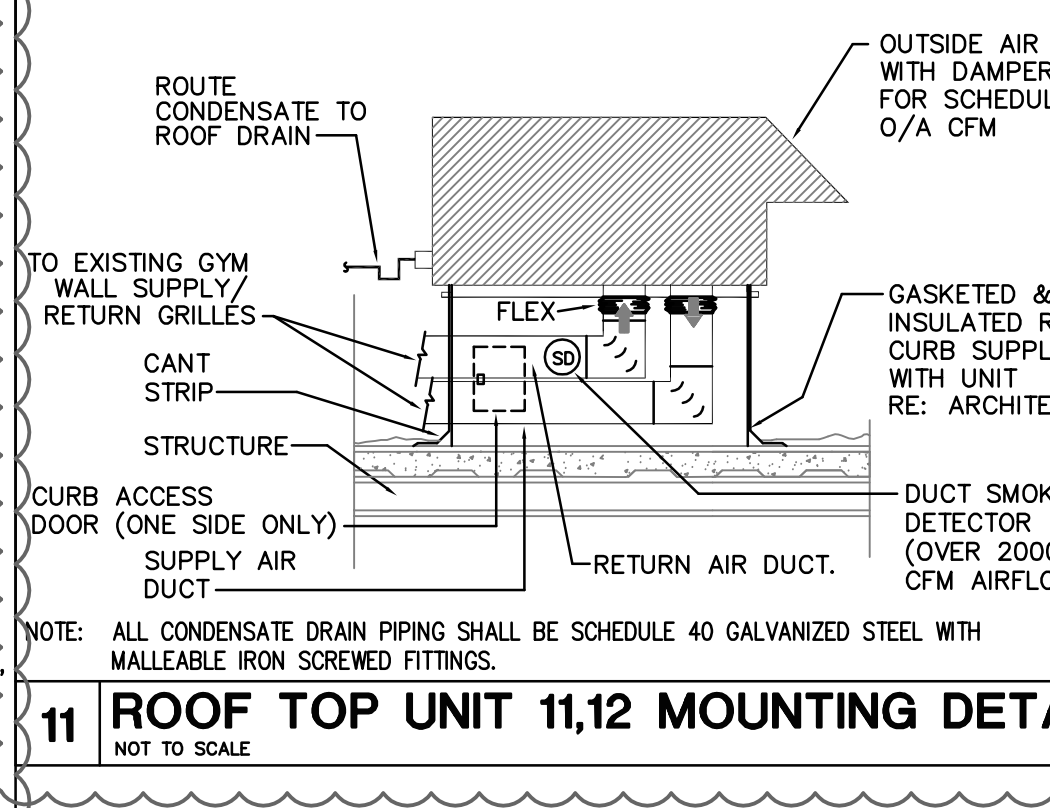
**3 SPIN-IN DETAIL**  
 NOT TO SCALE



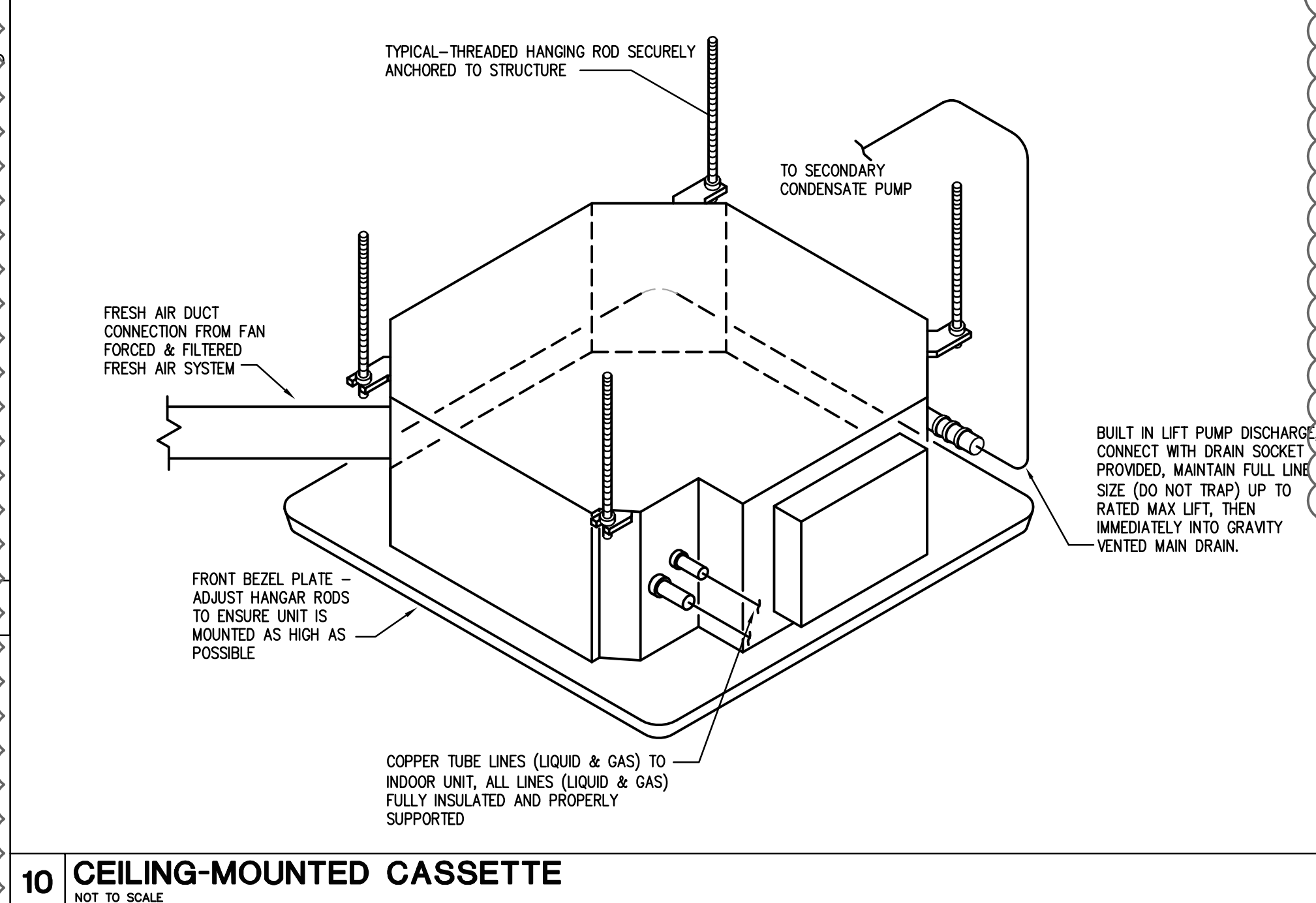
**2 OVAL OR ROUND DUCT HANGER**  
 NOT TO SCALE



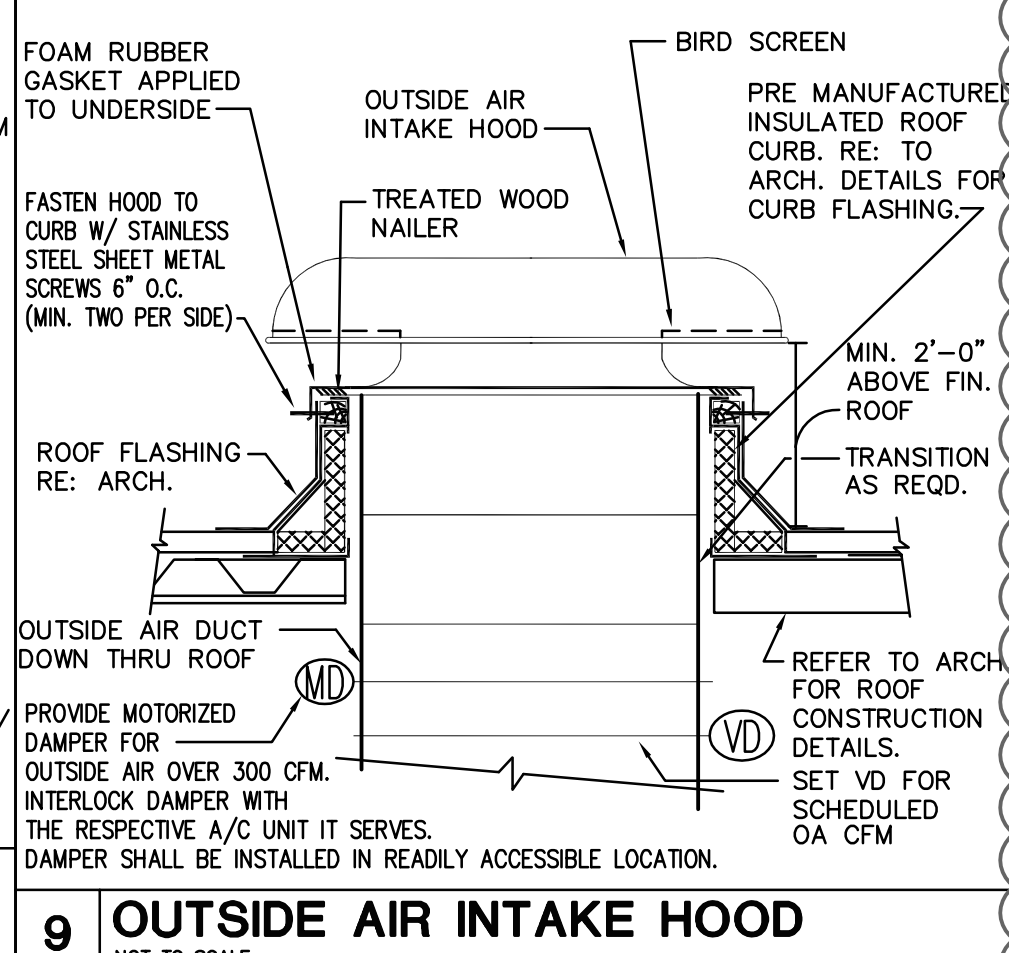
**1 TYP. MEP INSTALLATION DETAIL**  
 NOT TO SCALE



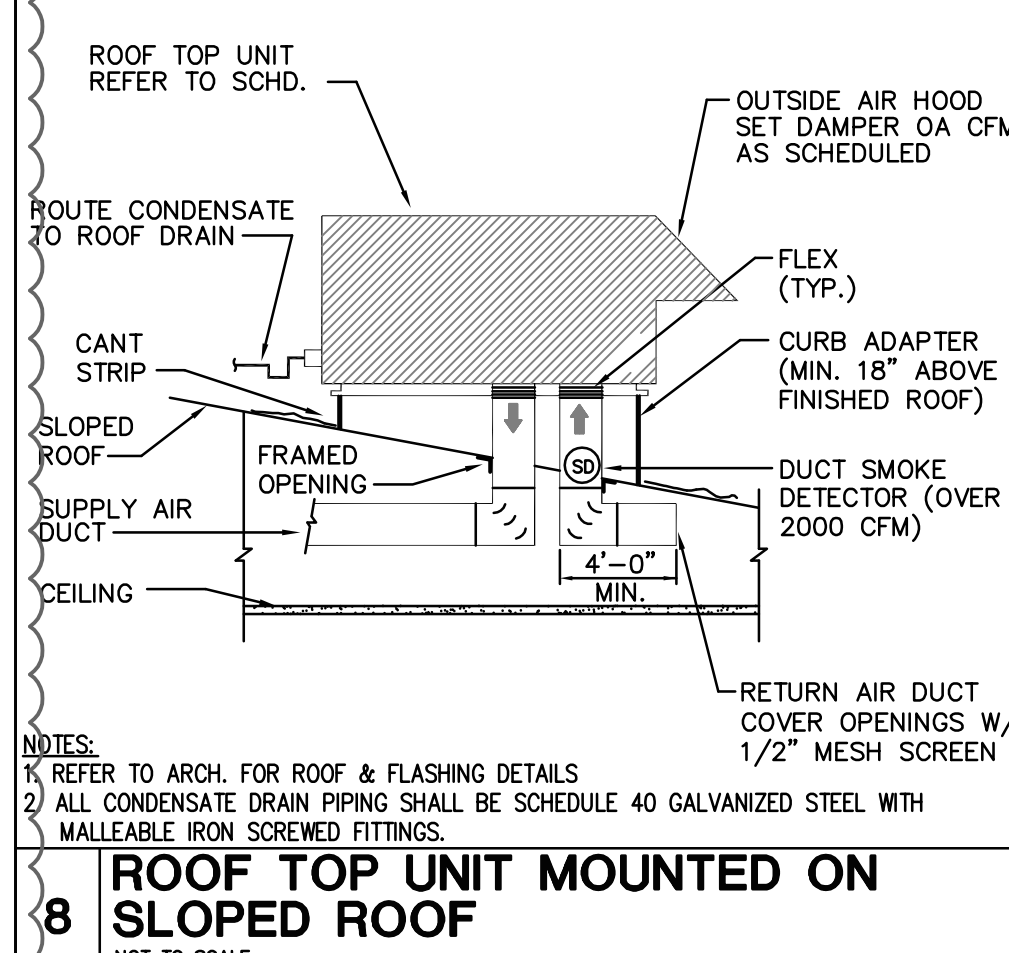
**11 ROOF TOP UNIT 1,1,2 MOUNTING DETAIL**  
 NOT TO SCALE



**10 CEILING-MOUNTED CASSETTE**  
 NOT TO SCALE



**9 OUTSIDE AIR INTAKE HOOD**  
 NOT TO SCALE



**8 ROOF TOP UNIT MOUNTED ON SLOPED ROOF**  
 NOT TO SCALE