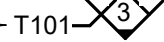


| VIEW KEY                                                                          |                                                                                                                                       |                            |                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | NAME                                                                                                                                  | LEVEL NAME                 |  KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL |
|  | 10'-0"                                                                                                                                | HEIGHT ABOVE PROJECT 0'-0" |                                                                                                                                                                                                            |
|  |                                                                                                                                       |                            | INDICATES DIRECTION OF TRUE NORTH                                                                                                                                                                          |
|  |                                                                                                                                       |                            | PLAN OR DETAIL NUMBER                                                                                                                                                                                      |
|  |                                                                                                                                       |                            | PLAN OR DETAIL NAME                                                                                                                                                                                        |
|  |                                                                                                                                       |                            | 1/8" = 1'-0"                                                                                                                                                                                               |
|  |                                                                                                                                       |                            | PLAN OR DETAIL SCALE                                                                                                                                                                                       |
|  |                                                                                                                                       |                            | INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS                                                                                                                                                  |
|  |                                                                                                                                       |                            | DETAIL REFERRED TO BY SECTION CUT                                                                                                                                                                          |
|  |                                                                                                                                       |                            | SHEET DETAIL IS LOCATED ON                                                                                                                                                                                 |
| LINE TYPE AND TAG KEY:                                                            |                                                                                                                                       |                            |                                                                                                                                                                                                            |
| NEW WORK BY THIS CONTRACTOR (WIDE LINE)                                           |                                                                                                                                       |                            |                                                                                                                                                                                                            |
|  | NEW                                                                                                                                   |                            |                                                                                                                                                                                                            |
|  | EXISTING TO BE REMOVED (SHORT DASHED PATTERN)                                                                                         |                            |                                                                                                                                                                                                            |
|  | NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)                                                                                   |                            |                                                                                                                                                                                                            |
| EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)                                |                                                                                                                                       |                            |                                                                                                                                                                                                            |
|  | EXISTING                                                                                                                              |                            |                                                                                                                                                                                                            |
|  | EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)                                                                               |                            |                                                                                                                                                                                                            |
|  | EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)                                                                              |                            |                                                                                                                                                                                                            |
| HALFTONING DOES NOT MODIFY SCOPE.                                                 |                                                                                                                                       |                            |                                                                                                                                                                                                            |
| TAG-E                                                                             | TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING                                                                        |                            |                                                                                                                                                                                                            |
| TAG-1                                                                             | UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST |                            |                                                                                                                                                                                                            |
|  | INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL                                                                            |                            |                                                                                                                                                                                                            |

| FIRE / SMOKE BARRIER DESIGNATIONS                                                                                                                                                                                                                                                                                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| FIRE AND SMOKE SEPARATIONS ARE NOT SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS AND DETERMINE THE LOCATIONS OF ALL FIRE AND SMOKE PARTITIONS, BARRIERS, AND WALLS. THIS INCLUDES FLOOR RATINGS. PRICING SHALL INCLUDE ALL MATERIALS AND LABOR REQUIRED TO MAINTAIN THE RATINGS OF ALL RATED SEPARATIONS, WHETHER SHOWN ON THE ENGINEERING PLANS OR NOT. |  |

| APPLICABLE CODES                                                                                                 |                            |
|------------------------------------------------------------------------------------------------------------------|----------------------------|
| CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: |                            |
| BUILDING CODE:                                                                                                   | IBC 2021 EDITION           |
| FIRE CODE:                                                                                                       | IFC 2021 EDITION           |
| PLUMBING CODE:                                                                                                   | IPC 2018 EDITION           |
| MECHANICAL CODE:                                                                                                 | IMC 2021 EDITION           |
| ELECTRICAL CODE:                                                                                                 | NFPA 70 (NEC) 2020 EDITION |
| LIFE SAFETY CODE:                                                                                                | NFPA 101 2021 EDITION      |
| ENERGY CONSERVATION CODE:                                                                                        | IECC 2009                  |

| CONTRACTOR ABBREVIATION KEY |                         |
|-----------------------------|-------------------------|
| ABBR:                       | DESCRIPTION:            |
| A.V.C.                      | AUDIO/VISUAL CONTRACTOR |
| E.C.                        | ELECTRICAL CONTRACTOR   |
| G.C.                        | GENERAL CONTRACTOR      |
| M.C.                        | MECHANICAL CONTRACTOR   |
| P.C.                        | PLUMBING CONTRACTOR     |
| T.C.                        | TECHNOLOGY CONTRACTOR   |

| DETAIL/DIAGRAM SYMBOLS - PIPE ACCESSORIES |                                          |
|-------------------------------------------|------------------------------------------|
| SYMBOL                                    | DESCRIPTION                              |
|                                           | ANGLE VALVE                              |
|                                           | AUTOMATIC AIR VENT                       |
|                                           | AUTOMATIC DRAIN VALVE                    |
|                                           | BALANCING VALVE (MANUAL)                 |
|                                           | CHECK VALVE                              |
|                                           | DRAIN VALVE WITH HOSE CONNECTION AND CAP |
|                                           | FLEXIBLE CONNECTION                      |
|                                           | FLOW SWITCH                              |
|                                           | MANUAL AIR VENT                          |
|                                           | PIPE CAP                                 |
|                                           | PITCH PIPE IN DIRECTION                  |
|                                           | PRESSURE / TEMPERATURE PLUG              |
|                                           | PRESSURE GAUGE WITH VALVE                |
|                                           | PRESSURE REDUCING VALVE (LIQUID) / GAS   |
|                                           | SAFETY RELIEF VALVE                      |
|                                           | SHUTOFF VALVE (NORMALLY CLOSED)          |
|                                           | SHUTOFF VALVE (NORMALLY OPEN)            |
|                                           | SOLENOID VALVE                           |
|                                           | UNION / FLANGE                           |

| SYMBOL LIST - PIPE ACCESSORIES |                                     |
|--------------------------------|-------------------------------------|
| SYMBOL                         | DESCRIPTION                         |
|                                | PIPE DOWN AND PIPE UP / UP AND DOWN |
|                                | REDUCER                             |
|                                | SHUTOFF VALVE                       |

| SYMBOL LIST - VENTILATION |                                               |
|---------------------------|-----------------------------------------------|
| SYMBOL                    | DESCRIPTION                                   |
|                           | AIR TERMINAL PROPERTIES - TAG / NECK SIZE/CFM |
|                           | DUCT CAP                                      |
|                           | DUCT DOWN, DUCT UP                            |
|                           | MANUAL VOLUME DAMPER                          |

| SYMBOL LIST - SENSORS |             |
|-----------------------|-------------|
| SYMBOL                | DESCRIPTION |
|                       | THERMOSTAT  |

## MECHANICAL RENOVATION NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
  - NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
  - FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
  - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
  - WHERE EXISTING MECHANICAL SYSTEMS DIFFER FROM THOSE SHOWN ON THE PROJECT DRAWINGS AND CREATE CONFLICTS WITH NEW EQUIPMENT, PIPING, OR DUCTWORK INSTALLATIONS, THE CONTRACTOR SHALL PROVIDE DETAILED DOCUMENTATION (SUCH AS SKETCHES, PHOTOS, AND DIMENSIONS) ALONG WITH RECOMMENDATIONS TO RESOLVE THE CONFLICT. THIS INFORMATION MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. NO WORK RELATED TO THE CONFLICT SHALL PROCEED UNTIL AN APPROVED RESOLUTION IS PROVIDED BY THE ENGINEER.
  - PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
  - OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
  - MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
  - DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.
  - PROPERLY RECLAIM AND DISPOSE OF ALL REFRIGERANT IN REMOVED EQUIPMENT/ REFRIGERANT PIPING. RECLAIMED REFRIGERANT SHALL HAVE DOCUMENTATION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

## TAB PRE-DEMOLITION NOTES:

- BEFORE ANY DEMOLITION WORK IS BEGUN AN AIR BALANCE TEST SHALL BE PERFORMED BY THE TESTING, ADJUSTING AND BALANCING (TAB) CONTRACTOR FOR EQUIPMENT AND DEVICES AS INDICATED ON THE DRAWINGS. EQUIPMENT TO BE DEMOLISHED DOES NOT REQUIRE TESTING. PROVIDE AIR BALANCE TESTING ONLY ON EQUIPMENT THAT WILL CONTINUE TO BE USED TO SERVE RENOVATED AREAS AFTER THE CONSTRUCTION PHASE IS COMPLETED.
- TAB CONTRACTOR SHALL COMPIL AND SUBMIT THE FINAL PRE-DEMOLITION REPORT WITHIN 10 WORKING DAYS AFTER THE FIELD MEASUREMENTS ARE COMPLETED. FINAL TAB REPORT SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER. TESTING SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.
- BALANCING CONTRACTOR SHALL PRE-BALANCE ALL EXISTING SYSTEMS TO REMAIN PER SPECIFICATION SECTION 23 05 93. BALANCE READINGS WILL BE REQUIRED AT AIR OUTLETS AND DUCT TRAVERSES TO VERIFY EXISTING AIRFLOW TO UNAFFECTED SPACES.

## TAB POST-CONSTRUCTION NOTES:

- AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
- AREAS SERVED BY THIS EQUIPMENT WHICH WERE NOT RENOVATED SHALL BE RE-BALANCED TO THE AIRFLOW RATES MEASURED BEFORE THE RENOVATION OCCURRED (REFER TO THE FINAL PRE-DEMOLITION REPORT).
- IF DUCT TRAVERSE LOCATION AS MARKED ON THE DRAWINGS IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TRIPLE DUCT TRAVERSES AND/OR GRILLE READINGS AS REQUIRED TO DETERMINE THE FLOW RATE. IN THE EVENT TRAVERSES ARE TAKEN AT AN ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL BALANCE READINGS WERE TAKEN.
- A DUCT STATIC PRESSURE READING SHALL BE TAKEN AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND SHALL BE INCLUDED IN THE FINAL POST-CONSTRUCTION TAB REPORT.
- TAB CONTRACTOR SHALL COMPIL AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
- THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.
- DIFFERENTIAL PRESSURE CONTROLLED SPACES: TAB CONTRACTOR IS PERMITTED TO ADJUST RETURN AIR (RA) AIRFLOW RATES IN DP-CONTROLLED ROOMS AS NEEDED TO ACHIEVE SPECIFIED PRESSURE DIFFERENTIALS. ROOM RETURN CFMS SHOWN ON DRAWINGS ARE BASELINE ESTIMATES ONLY; ACTUAL VALUES MUST BE FIELD-ADJUSTED TO MAINTAIN SPECIFIED DP SETPOINTS.

## HVAC ABBREVIATION KEY

| ABBR:      | DESCRIPTION:                         |
|------------|--------------------------------------|
| AD         | ACCESS DOOR                          |
| AF         | ABOVE FINISHED FLOOR                 |
| C          | COMMON                               |
| CO         | CLEANOUT                             |
| CFSD       | CONTROL/FIRE/SMOKE DAMPER            |
| DN         | DOWN                                 |
| DPG (0-2") | DIFFERENTIAL PRESSURE GAUGE (RANGE)  |
| DPS        | DIFFERENTIAL PRESSURE SWITCH         |
| EP         | ELECTRICAL TO PNEUMATIC VALVE        |
| FD         | FIRE DAMPER                          |
| FDB        | FLAT ON BOTTOM                       |
| FOT        | FLAT ON TOP                          |
| FSD        | FIRE/SMOKE DAMPER                    |
| MV         | MIXING VALVE                         |
| N.C.       | NORMALLY CLOSED                      |
| NIC        | NOT IN CONTRACT                      |
| N.O.       | NORMALLY OPEN                        |
| PS         | PRESSURE SWITCH                      |
| SCCR       | SHORT CIRCUIT CURRENT RATING         |
| SD         | SMOKE DAMPER                         |
| TAB        | TERMINAL AIR BOX                     |
| TD         | TRANSFER DUCT                        |
| TYP        | TYPICAL                              |
| UC-1       | DOOR UNDERCUT BY OTHERS (1" TYPICAL) |
| UON        | UNLESS OTHERWISE NOTED               |

## HVAC SHEET INDEX

|              |                                                        |
|--------------|--------------------------------------------------------|
| M0.00        | HVAC COVERSHEET - PP-V                                 |
| M1.11        | HVAC DEMOLITION PLAN - ZONE B - LVL 1 - PLAN           |
| M1.12        | HVAC DEMOLITION PLAN - ZONE B - LVL 2 - PLAN           |
| M1.13        | HVAC DEMOLITION PLAN - ZONE B - ROOF                   |
| M2.01        | HVAC PLAN - ZONE B - LVL 01 OVERALL                    |
| M2.02A       | HVAC PLAN - ZONE B - LVL 01 - NORTH                    |
| M2.02B       | HVAC PLAN - ZONE B - LVL 01 - SOUTH                    |
| M2.11        | HVAC PLAN - ZONE B - LVL 02 OVERALL                    |
| M2.12A       | HVAC PLAN - ZONE B - LVL 02 NORTH - PHASE 1            |
| M2.12B       | HVAC PLAN - ZONE B - LVL 02 SOUTH - PHASE 1            |
| M2.201       | HVAC PLAN - ZONE B - ROOF PLAN - PHASE 1               |
| M4.00        | HVAC DETAILS                                           |
| M4.01        | HVAC DETAILS                                           |
| M4.02        | HVAC DETAILS                                           |
| M4.03        | HVAC DETAILS                                           |
| M4.04        | HVAC DETAILS                                           |
| M5.00        | CONTROLS DIAGRAM SINGLE ZONE                           |
| M5.01        | CONTROLS DIAGRAM MULTI ZONE                            |
| M6.00        | HVAC SCHEDULES - PHASE 1                               |
| M6.01        | PHASE 1 HVAC RISERS                                    |
| M6.02        | PHASE 1 HVAC RISERS                                    |
| MM1.12A      | HVAC DEMOLITION PLAN - ZONE B - LVL 02 NORTH - PHASE 2 |
| MM1.12B      | HVAC DEMOLITION PLAN - ZONE B - LVL 02 SOUTH - PHASE 2 |
| MM2.12A      | HVAC PLAN - ZONE B - LVL 02 NORTH - PHASE 2            |
| MM2.12B      | HVAC PLAN - ZONE B - LVL 02 SOUTH - PHASE 2            |
| MM2.20       | HVAC PLAN - ZONE B - ROOF PLAN - PHASE 2               |
| MM6.00       | HVAC SCHEDULES - PHASE 2                               |
| MM6.01       | PHASE 2 HVAC RISERS                                    |
| GRAND TOTAL: | 28                                                     |

## PIPING GENERAL NOTES:

- THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4"
- PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
- INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

## VENTILATION GENERAL NOTES:

- UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6 FEET IN LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07" W.C. PER 100' OF DUCTWORK.
- UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL (E.G. GRILLE, REGISTER, DIFFUSER) SHALL MATCH THE INLET SIZE.
- UNLESS NOTED OTHERWISE, DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. MAINTAIN CLEAR DIMENSIONS INSIDE ANY LINING.
- ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES WHEN IN CLOSE PROXIMITY TO EACH OTHER.
- PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
- EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALUES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.
- CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT. DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.
- CLEAN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK UPSTREAM OF ALL NEW CONNECTIONS PER SPECIFICATION SECTION 23 31 00.

## MECHANICAL GENERAL NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
  - CATALOG AND MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESCRIPTION OF MATERIAL SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL AND SCHEDULED PERFORMANCE TAKES PRECEDENCE OVER THE MODEL NUMBER. THE FIRST MANUFACTURER SCHEDULED IS THE BASIS OF DESIGN.
  - DETERMINATION OF QUANTITIES OF MATERIAL AND EQUIPMENT REQUIRED SHALL BE MADE BY THE CONTRACTOR FROM THE DOCUMENTS, WHERE MATERIAL AND/OR QUANTITY DISCREPANCIES ARISE BETWEEN DRAWINGS, SCHEDULES AND/OR SPECIFICATIONS, THE HIGHER QUALITY/ GREATER NUMBER SHALL GOVERN.
  - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
  - COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
  - REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
  - ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
  - EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
  - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
  - EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
  - IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
  - SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
  - CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
  - WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
  - EQUIPMENT CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
  - DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
  - MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
  - MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
  - PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT EXCEPT WHERE PAD EXTENSION WOULD INTERFERE WITH WORKING SPACE AT EQUIPMENT CONTROL PANELS AND ELECTRICAL PANELS.
  - DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING (LIMITATION NOT REQUIRED WITH CONCRETE ON METAL DECK). THIS 25 LBS. LOAD AND 2'-0" SPACING INCLUDE ADJACENT ELECTRICAL AND ARCHITECTURAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING OFF STEEL FRAMING SHALL BE ADDED. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

PROJECT ALTITUDE: 1,316.00 FT. ABOVE SEA LEVEL

## MECHANICAL DESIGN CONDITIONS:

| DESIGN CONDITIONS:                            | BASED ON WEATHER DATA FOR: BENTONVILLE, AR |
|-----------------------------------------------|--------------------------------------------|
| SUMMER:                                       | 100°F DRY BULB, 73.6°F WET BULB            |
| WINTER:                                       | 0°F DRY BULB                               |
| TYPICAL ROOM SETPOINTS:                       |                                            |
| SUMMER DESIGN:                                | 70°F DRY BULB, 55% RELATIVE HUMIDITY       |
| WINTER DESIGN:                                | 70°F DRY BULB, 55% RELATIVE HUMIDITY       |
| SUMMER SETBACK:                               | 73°F DRY BULB, 50% RELATIVE HUMIDITY       |
| WINTER SETBACK:                               | 67°F DRY BULB, 50% RELATIVE HUMIDITY       |
| REFER TO CONTROL DIAGRAMS FOR ROOM SPECIFICS. |                                            |

## DUCT ABBREVIATION KEY

| ABBR. | DESCRIPTION       |
|-------|-------------------|
| EA    | EXHAUST AIR       |
| OA    | OUTSIDE AIR       |
| RA    | RETURN/RELIEF AIR |
| SA    | SUPPLY AIR        |
| SA1   | SUPPLY AIR Type 1 |
| SA2   | SUPPLY AIR Type 2 |

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|                         |            |             |
|-------------------------|------------|-------------|
| issue for review:       | 2026.08.05 |             |
| issue for pricing:      | 2026.09.11 |             |
| issue for construction: |            |             |
| revisions:              |            |             |
| mark                    | date       | description |

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WACHTER

REFER TO SHEETS G020 - G035 FOR ALL  
GENERAL NOTES RELATIVE TO THE SCOPE OF  
WORK AND TYPE OF DRAWINGS, REVISIONS,  
AND INSTRUCTIONS FOUND ON THIS SHEET.

PLEASE REFER TO CONTRACTOR PROVIDED  
BASE PACKAGE EXHIBITS FOR ALL  
CONTRACTOR PROJECT REQUIREMENTS.  
WITHOUT EXCEPTION, ALL SUBCONTRACTORS  
ARE RESPONSIBLE FOR REVIEWING ALL  
CONTRACT DOCUMENTS, INCLUDING SHEETS,  
DRAWINGS, GENERAL NOTES, SPECIFICATIONS,  
ETC. AS PROVIDED BY THE ARCHITECT OR ANY  
OTHER CONSULTANT.

contracts:  
HVAC COVERSHEET - PP-V

design: CD  
date: 2026.09.11  
project: 25.18

M0.00

PROJECT #260034