



- A. ROUTE DUCTWORK IN COORDINATION WITH OTHER TRADES. HOLD DUCTWORK AS HIGH AS POSSIBLE AND ROUTE DUCTWORK WITHIN STRAIGHTS WHERE POSSIBLE.
- B. DUCT SIZES INDICATED FOR CONNECTION TO EQUIPMENT MAY DIFFER FROM EXACT UNIT CONNECTION DIMENSIONS. PROVIDE ALL NECESSARY TRANSITIONS FROM DUCT SIZES LISTED TO UNIT CONNECTION.
- C. TEMPERATURE SENSORS SHALL BE INSTALLED AT 48" AFF UNLESS NOTED OTHERWISE. COORDINATE JUNCTION BOX INSTALLATION WITH ELECTRICAL CONTRACTOR.
- D. FIRE DAMPERS SHALL BE 1-1/2 HOUR RATED UNLESS OTHERWISE NOTED.
- E. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRANSITIONS TO AVOID CONFLICT WITH OTHER DUCTWORK, PIPING, STRUCTURE, ETC. AS PART OF THIS CONTRACT. WHATEVER AVAILABLE SPACE ALLOWS, OFFSETS SHALL BE MADE WITH 45 DEGREE ELBOWS.
- F. ALL CEILING DIFFUSERS SHALL BE PROVIDED WITH THE 4-WAY THROW PATTERN UNLESS OTHERWISE NOTED.
- G. TRANSITION AS NECESSARY FROM DUCT SIZES INDICATED ON PLAN TO EQUIPMENT DUCT CONNECTION.
- H. PIPING PENETRATIONS THROUGH TRADE ASSEMBLIES SHALL BE FIRESTOPPED IN ACCORDANCE NFPA-80A.
- I. DUCTWORK AND PIPING SHOWN ARE FOR GENERAL ROUTING PURPOSES ONLY. CONTRACTOR SHALL CONFIRM EXACT ROUTING WITH OTHER TRADES AND PROVIDE ALL NECESSARY TRANSITIONS, HIGH POINT VENTS AND LOW POINT DRAINS AND OFFSETS NECESSARY TO INSTALL A COMPLETE AND FUNCTIONING SYSTEM.
- J. THE CEILING SPACE FROM THE BOTTOM OF THE CEILING GRID TO A MINIMUM OF 6" ABOVE THE BOTTOM OF THE CEILING GRID IS RESERVED FOR INSTALLATION OF LIGHTED EQUIPMENT, LIGHT FIXTURES, SPEAKERS, DIFFUSERS, NO PIPING, DUCTWORK, CONDUITS, ETC., EXCEPT DROPS SERVING THE CEILING MOUNTED ITEMS, IS ALLOWED TO BE INSTALLED IN THIS SPACE, UNLESS OTHERWISE APPROVED BY THE RESIDENT ENGINEER.
- K. CONTRACTOR IS REQUIRED TO FOLLOW ALL OSHA REGULATIONS CONCERNING CONSTRUCTION. THE SUPERINTENDENT IS REQUIRED TO HAVE COMPLETED, AS A MINIMUM, OSHA'S 10-HOUR TRAINING AND BE KNOWLEDGEABLE OF GENERAL SAFETY REQUIREMENTS FOR CONFINED SPACES, FALL PROTECTION, PERSONAL PROTECTIVE EQUIPMENT, ETC. NO SCAFFOLDING, CRANES, ELECTRICAL, PANEL, APPLICABLE SUBCONTRACTORS ARE TO HAVE A COMPETENT PERSON ON SITE WHEN REQUIRED BY OSHA.
- L. IF ONE ACROSS A CONFINED SPACE, THE CONTRACTOR IS REQUIRED HAVE THEIR OWN CONFINED SPACE AIR MONITOR AND TO TEST THE AIR PRIOR TO ENTERING A CONFINED SPACE. IF THE CONTRACTOR MUST ENTER A SANITARY SEWER MANHOLE, IN ADDITION TO A CONFINED SPACE AIR MONITOR, THEY MUST HAVE PROPER OSHA RESCUE EQUIPMENT FOR A PERMIT REQUIRED CONFINED SPACE. IF THERE IS NOT PROPER EQUIPMENT, THEY MUST SHUT DOWN ALL ELECTRICAL PANEL OR CIRCUIT, THE CONTRACTOR MUST PROVIDE AND USE THE APPROPRIATE SAFETY CLOTHING AND EQUIPMENT AS REQUIRED BY NFPA 70E. THE WA WILL BE RESPONSIBLE FOR THE CONTRACTOR'S OSHA TRAINING. FAILURE TO COMPLY IS GROUNDS FOR STOPPING WORK.
- M. REFER TO HEATING WATER HYDROIC SCHEMATIC ON SHEET M3.3 FOR VALVE LOCATIONS, PIPE SIZES, AND ACCESSORY LOCATIONS.
- N. BALL VALVES SHALL BE USED THROUGHOUT THE HYDROIC SYSTEM FOR ISOLATION REGARDLESS OF PIPE SIZE.
- O. ALL CHILLER OR CONDENSING UNIT COILS ARE TO BE COMPLETELY PROTECTED USING AIR INTAKE FILTRATION SCREENS SPECIFICALLY DESIGNED FOR COTTONWOOD FILTRATION. THE SCREENS SHALL BE EASILY REMOVABLE WITH QUARTER TURN CONNECTIONS. THE SCREEN SHALL NOT VOID THE WARRANTY OF THE ORIGINAL EQUIPMENT MANUFACTURER. THE SCREENS SHALL HAVE A STATIC PRESSURE DROP LESS THAN 0.1 INCHES OF WATER GAGE, BE UV RESISTANT, FLAME RESISTANT, NON-ELECTRO STATIC, AND WOULD NOT PROVIDE RESISTANCE TO FILTER MEDIA. IN ACCORDANCE WITH THE NATIONAL AIR CLEANING ASSOCIATION FOR COTTONWOOD FILTERS.

1. EXISTING HHW AND HHWR PIPING IN CHASE TO REMAIN.
2. PROVIDE BRANDED ROSE KIT COMPLETE WITH AUTOMATIC FLOW CONTROL VALVE, CONTROL VALVE, AND STRAINER. FURNISH ALL REQUIRED OFFSETS AND REDUCTIONS FROM HYDRONIC PIPING TO COIL CONNECTION. ROUTE PIPING SUCH THAT COMPLETE ACCESS TO CONTROL PANEL IS AVAILABLE. RE: M3.3 FOR PIPE SIZE.
3. CONNECT NEW 32mm (1 1/2") HHWR LINE TO EXISTING 32mm (1 1/2") ISOLATION VALVE.
4. CLOSE ISOLATION VALVES AND REMOVE TEMPORARY RETURN LINE.
5. EXTEND EXISTING 32mm (1 1/2") AS SHOWN.

0' 1' 2' 4' 8' 12' SCALE: 1/4" = 1'-0"

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