

I. GENERAL PROVISIONS

A. OVERVIEW

- 1. ALL WORK DONE UNDER THIS CONTRACT SHALL COMPLY WITH ALL STATE AND LOCAL CODES HAVING JURISDICTION... 2. IN CASE OF ANY CONFLICTS BETWEEN CONTRACT DOCUMENTS... 3. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, INSPECTIONS, AND APPROVALS AS REQUIRED...

B. OPERATION AND MAINTENANCE INSTRUCTIONS

- 1. THE CONTRACTOR SHALL PROVIDE TWO OPERATION AND MAINTENANCE MANUALS... 2. PROVIDE MANUFACTURER'S PRINTED OPERATING PROCEDURES TO INCLUDE START-UP, BREAK-IN, ROUTINE AND NORMAL OPERATING INSTRUCTIONS...

C. INSTRUCTIONS OF OWNER PERSONNEL

- 1. BEFORE FINAL ACCEPTANCE, AT A TIME DESIGNATED BY THE DESIGNER, PROVIDE A COMPETENT REPRESENTATIVE TO INSTRUCT... 2. RESIDENTIAL GRADE HVAC COMPONENTS SHALL NOT BE PERMITTED WITHOUT SPECIFIC OWNER INSTRUCTION...

D. COORDINATION

- 1. THE PRODUCTS OF PARTICULAR MANUFACTURERS HAVE BEEN USED AS THE BASIS OF DESIGN IN PREPARATION OF THESE DOCUMENTS... 2. RESIDENTIAL GRADE HVAC COMPONENTS SHALL NOT BE PERMITTED WITHOUT SPECIFIC OWNER INSTRUCTION...

E. EXECUTION

- 1. THE PLANS DO NOT GIVE EXACT ELEVATIONS OR LOCATIONS OF LINES, NOR DO THEY SHOW ALL THE OFFSETS, CONTROL LINES... 2. IF THE CONTRACTOR PROPOSES TO INSTALL EQUIPMENT, INCLUDING PIPING AND DUCTWORK, REQUIRING SPACE CONDITIONS...

F. ELECTRICAL WORK

- 1. ALL ELECTRICAL EQUIPMENT PROVIDED UNDER THIS DIVISION SHALL COMPLY WITH THE ELECTRICAL SYSTEM CHARACTERISTICS... 2. EQUIPMENT UNIT MOTOR SPEED CONTROLS, STARTERS, SYSTEM CONTROLS, PILOT LIGHTS, PUSH-BUTTONS, ETC., SHALL BE FURNISHED COMPLETE AS A PART OF THE MOTOR APPARATUS WHICH IT OPERATES...

G. CUTTING AND PATCHING

- 1. THE CONTRACTOR SHALL ASSUME ALL COST OF, AND BE RESPONSIBLE FOR, ARRANGING FOR ALL CUTTING AND PATCHING... 2. ALL SURFACES SHALL BE PATCHED TO THE CONDITION OF THE ADJACENT SURFACES...

H. ACCESS DOORS

- 1. FURNISH AND INSTALL ACCESS DOORS AT EACH POINT REQUIRED TO PROVIDE ACCESS TO CONCEALED VALVES, CLEANOUTS AND OTHER DEVICES... 2. ACCESS DOORS INSTALLED IN FIRE WALLS OR PARTITIONS SHALL BE UL LABELED TO MAINTAIN THE FIRE RATING...

I. FLAME SPREAD AND SMOKE DEVELOPED PROPERTIES OF MATERIALS

- 1. MATERIALS AND ADHESIVES USED THROUGHOUT THE MECHANICAL AND ELECTRICAL SYSTEMS FOR INSULATION, AND JACKETS OR COVERINGS... 2. TURNING VANES SHALL BE INSTALLED IN ALL 90 DEGREE SQUARE AND RECTANGULAR ELBOWS AND AT OTHER LOCATIONS SHOWN...

II. INSULATION

- A. GENERAL PIPE INSULATION 1. FIBERGLASS SHALL BE ACCEPTABLE FOR INDOOR HOT & COLD DOMESTIC, HYDRONIC PIPING, AND INSULATED DRAINAGE PIPING... 2. FITTINGS AND VALVES SHALL BE INSULATED WITH PRE-FORMED FITTINGS, FABRICATED SECTIONS OF PIPE INSULATION... B. INSULATION THICKNESS 1. DOMESTIC COLD WATER INSULATION SHALL BE 1" MINIMUM OR AS REQUIRED BY LOCAL ENERGY CODES...

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D. FOAMGLASS PIPE INSULATION

- 1. FOAM GLASS TYPE PIPE INSULATION SHALL HAVE MAXIMUM K FACTOR OF 0.38 AT 50 DEGREES F MEAN TEMPERATURE... 2. PROVIDE FOAM GLASS INSERTS AT PIPE HANGERS, CLAMPS, OR OTHER SUPPORTS IN FIBERGLASS OR ELASTOMERIC PIPE INSULATION...

E. ELASTOMERIC CLOSED CELL FOAM PIPE INSULATION

- 1. ELASTOMERIC SHEET BE PROVIDED FOR ALL REFRIGERANT PIPING AND OUTDOOR INSULATED PIPING AND MAY BE USED FOR INDOOR DOMESTIC OR CONDENSATE PIPING... 2. CONTINUE INSULATION THROUGH WALL AND CEILING OPENINGS AND SLEEVES, EXCEPT TERMINATE DUCT INSULATION AT FIRE DAMPERS...

F. FIBERGLASS BLANKET INSULATION FOR DUCTWORK (INDOOR DUCT ONLY)

- 1. INSULATION SHALL BE BLANKET TYPE FIBERGLASS INSULATION WITH AVERAGE THERMAL CONDUCTIVITY NOT EXCEEDING 0.29 BTU_IN./SQ SQUARE FEET PER HOUR AT MEAN TEMPERATURE OF 75 DEGREES F... 2. CONTINUE INSULATION THROUGH WALL AND CEILING OPENINGS AND SLEEVES, EXCEPT TERMINATE DUCT INSULATION AT FIRE DAMPERS...

III. VIBRATION ISOLATION

- A. ALL MOTORIZED AIR MOVING AND FLUID MOVING EQUIPMENT PIECE SHALL BE PROVIDED WITH VIBRATION ISOLATION MOUNTING OR SUPPORTS... 1. INDOOR INSIDE OF DUCT WITH FLUID ADHESIVE COVERAGE ATTACHMENT TO THE SURFACE TO WHICH IT IS APPLIED... 2. HANGING ISOLATORS FOR EQUIPMENT ABOVE 300 LBS SHALL BE STEEL SPRING-TYPE INCORPORATING STEEL HOUSING, NEOPRENE OR LIDS...

IV. DUCTWORK AND FITTINGS

- A. MATERIAL AND TYPE 1. DUCT CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE SMACNA HVAC DUCT CONSTRUCTION MANUAL... 2. RIGID, SQUARE DUCTWORK SHALL BE CONSTRUCTED OF LOCK FORMING QUALITY GALVANIZED STEEL SHEETS PER ASTM A527... B. CONCEALED ROUND DUCTS UP TO 12" IN DIAMETER IN PRESSURE CLASSES 2" AND LOWER SHALL BE LONGITUDINAL SEAM CONSTRUCTION... 4. EXPOSED ROUND DUCTWORK OR ROUND ABOVE 12" SHALL BE SPIRAL LOCK SEAM CONSTRUCTION...

V. GREASE DUCT SERVING TYPE I HOODS

- 1. GREASE DUCT SERVING TYPE I HOODS SHALL BE 16 GAUGE BLACK IRON OR 18 GAUGE STAINLESS STEEL WELDED WITH AIR TIGHT SEAM... 2. TURNING VANES SHALL BE INSTALLED IN ALL 90 DEGREE SQUARE AND RECTANGULAR ELBOWS AND AT OTHER LOCATIONS SHOWN...

C. DUCT FITTINGS

- 1. SPIN-IN COLLARS SHALL BE GALVANIZED STEEL FOR USE WITH RECTANGULAR OR SQUARE SHEET METAL DUCTWORK... 2. TURNING VANES SHALL BE INSTALLED IN ALL 90 DEGREE SQUARE AND RECTANGULAR ELBOWS AND AT OTHER LOCATIONS SHOWN...

- 6. FLEXIBLE DUCT CONNECTIONS SHALL BE NON-COMBUSTIBLE GLASS FIBER DOUBLE COATED WITH NEOPRENE 30 OZ. PER SQUARE YARD... 7. FIRE DAMPERS SHALL BE THE FOLDING BLADE FUSIBLE LINK TYPE CONFORMING TO UL 555 AND LABELED FOR INSTALLATION IN FIRE RATED WALLS AND FLOORS... 8. SMOKE DAMPERS SHALL BE THE MULTI-BLADE TYPE CONFORMING TO UL 555S WITH AN ASSEMBLY TEMPERATURE RATING OF 250 DEGREES F...

D. ROOF CAPS

- 1. UNLESS OTHERWISE SPECIFIED, ROOF INTAKE AND EXHAUST CAPS SHALL BE ROUND, MINIMUM 1/4 GAUGE 316 ALUMINUM WITH CONTINUOUSLY WELDED CURB CAP... 2. PROVIDE FOAM GLASS INSERTS AT PIPE HANGERS, CLAMPS, OR OTHER SUPPORTS IN FIBERGLASS OR ELASTOMERIC PIPE INSULATION...

E. LOUVERS

- 1. LOUVERS SHALL BE STATIONARY ALUMINUM, 4" DEEP WITH DRAINABLE BLADES, HIDDEN MULLION, ALL 0.81" ALUMINUM WALL THICKNESS, AND KYNAR FINISH... 2. CONTINUE INSULATION THROUGH WALL AND CEILING OPENINGS AND SLEEVES, EXCEPT TERMINATE DUCT INSULATION AT FIRE DAMPERS...

G. ROOFTOP UNITS

- 1. PROVIDE PACKAGED DX ROOFTOP UNITS MANUFACTURED BY TRANE, LENNOX, AODM, CARRIER, OR YORK WITH 2% SLOPE... 2. INDOOR UNITS SHALL BE INSTALLED DEAD LEVEL WITH PROVISIONS FOR POSITION, CONDENSATE DRAINAGE AND REFRIGERANT PIPE CONNECTIONS...

H. FANS GENERAL

- 1. FANS SHALL BE TESTED AND RATED IN ACCORDANCE WITH AMCA 210... 2. FAN WHEELS SHALL BE STATICALLY AND DYNAMICALLY BALANCED... 3. SAFETY/DISCONNECT SWITCHES (UNLESS SCHEDULED AS UNIT-INTEGRAL) AND STARTERS SHALL BE PROVIDED... 4. PROVIDE DAMPERS AT ALL SUPPLY AND RETURN DUCT UNITS TO EACH AIR DISTRIBUTION DEVICE WITH ADJUSTABLE ADJUSTMENT LEVER OR DIAL TYPE REGULATOR ACTUATOR...

I. CENTRIFUGAL ROOF FANS

- 1. FANS SHALL BE CENTRIFUGAL ROOF EXHAUSTERS WITH WATERPROOF DESIGN SO THAT WATER CANNOT ENTER THE BUILDING THROUGH FAN HOUSING WHETHER OR NOT FAN IS OPERATING... 2. FAN WHEEL SHALL BE STATICALLY AND DYNAMICALLY BALANCED... 3. SAFETY/DISCONNECT SWITCHES (UNLESS SCHEDULED AS UNIT-INTEGRAL) AND STARTERS SHALL BE PROVIDED...

J. IN-LINE/CEILING FANS

- 1. FAN SHALL BE IN-LINE CENTRIFUGAL TYPE WITH SQUARE OR RECTANGULAR HOUSING AND BACKDRAFT DAMPER... 2. FAN HOUSING SHALL BE STEEL WITH FACTORY APPLIED BAKED ENAMEL PAINT ON EXTERIOR... 3. KITCHEN EXHAUST FANS SHALL BE UL 702 RATED AND PROVIDED WITH POWER/CONTROL WIRING OUTSIDE OF FAN HOUSING AND CURB... 4. MOTOR AND DRIVE SHALL BE MOUNTED ON VIBRATION ISOLATORS... 5. LOCATE EXHAUST FAN DISCHARGE 10' FROM ANY INTAKE OR BUILDING OPENING OR 2' ABOVE SAID OPENINGS IF CODE ALLOWS...

- 4. MOTOR AND DRIVE SHALL BE MOUNTED ON VIBRATION ISOLATORS. FAN SHALL HAVE A FACTORY INSTALLED DISCONNECT SWITCH MOUNTED ON EXTERIOR OF HOUSING AND PRE-WIRED TO FAN MOTOR... 5. PROVIDE ALUMINUM GRILLE OPTION FOR CEILING MOUNTED FANS. FANS SHALL BE ROUTED TO ROOF CAP OR LOUVER SIZED AT 800 CFM OUTLET AIRSPEED...

VI. PIPING

- A. USE DIELECTRIC UNIONS WHERE DISSIMILAR METALS ARE JOINED TOGETHER... 1. UNDERGROUND WATER SERVICE PIPING 2" IN SIZE AND LARGER SHALL BE CLASS 50 DUCTILE IRON PIPE, AWWA C151, WITH HUB AND SPOUT... 2. UNDERGROUND STEEL PIPE AND FITTINGS INCLUDING THE PORTION THROUGH THE FLOOR SHALL BE PROTECTED AGAINST CORROSION BY APPLICATION OF PROTECTIVE COATINGS... 3. HARD DRAWN COPPER TUBING, ASTM B88, WITH BRAZED JOINTS AND WROUGHT COPPER, ANSI B16.22, OR CAST BRONZE, ANSI B16.18 SOCKET FITTINGS... 4. CONNECT HOT AND COLD WATER PIPING SYSTEM TO EQUIPMENTS AS INDICATED, AND COMPLY WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS... 5. PROVIDE SHUTOFF IN GAS SERVICE PIPE AT ENTRY IN BUILDING, EXT/END PIPE TO GAS METER LOCATION INDICATED... 7. DRIP LEGS 6-INCHES LONG, SHALL BE PROVIDED IN GAS PIPING AT ENDS OF HORIZONTAL RUNS, AT THE BASE OF RISERS AND AT CONNECTIONS TO EQUIPMENT... 8. GAS PIPING WITHIN THE BUILDINGS SHALL BE RUN ABOVE FLOOR SLAB... 9. PRESSURE REGULATORS ARE TO BE PROVIDED ON ALL EQUIPMENT IF NOT PROVIDED AS PART OF THE EQUIPMENT... 10. PROVIDE FLEX HOSE CONNECTION TO ALL INDOOR APPLIANCES NOT SUPPLIED WITH THE EQUIPMENT PIECE BY THE OWNER OR EQUIPMENT PROVIDER... 11. THREADING JOINTS SHALL BE MADE WITH A MIXTURE OF GRAPHITE AND OIL APPLIED TO MALE THREADS ONLY... 12. WELDED JOINTS SHALL BE FUSION WELDED IN ACCORDANCE WITH ANSI B31, SECTION 6... 13. FLANGED JOINTS SHALL BE FACED TRUE, PROVIDED WITH GASKET AND MALE SQUARE AND TIGHT... 14. BRAZED JOINTS SHALL BE MADE UP USING BCP-5 BRAZING ALLOY WITH A COMPATIBLE FLUX... 15. ALL STEEL FITTINGS AND JOINTS IN UNDERGROUND PIPING SHALL BE FIELD-COATED USING A PRIMER AND FLEXIBLE POLYETHYLENE TAPE... 16. UNDERGROUND SANITARY, WASTE AND VENT PIPING, AND STORM DRAINAGE PIPING, AND INDOOR PIPING ABOVE 8" IN SIZE SHALL BE SERVICE WEIGHT (COATED) CAST IRON SOIL PIPE AND FITTINGS... 17. 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