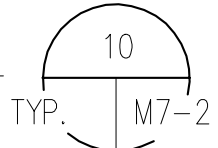


REVISIONS				
SYM	DESCRIPTION	PREPARED BY	DATE	APPROVED

GENERAL NOTES

- DO NOT SCALE THESE DRAWINGS. THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THE CONTRACT. REFER TO THE ARCHITECTURAL AND STRUCTURAL PLANS FOR DIMENSIONS.
- NOT ALL BENDS, OFFSETS OR TURNS ON THE DUCTWORK OR PIPING PLANS ARE SHOWN DUE TO THE SCALE OF THE DRAWINGS. PROVIDE BENDS, OFFSETS AND TURNS AS REQUIRED FOR A COMPLETE AND OPERATIONAL MECHANICAL SYSTEM.
- ALL WORK SHALL BE ACCOMPLISHED IN A NEAT AND ORDERLY FASHION. DUCTWORK AND PIPING WILL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE LINES OF THE BUILDING UNLESS SHOWN OTHERWISE.
- ALL DUCTWORK SHALL BE EXTERNALLY INSULATED UNLESS SPECIFICALLY SHOWN OTHERWISE. DIMENSIONS ON DUCTWORK THAT IS SHOWN TO BE INTERNALLY INSULATED ARE THE INSIDE NET FREE AREA DIMENSIONS AND SHALL BE INCREASED TO ACCOUNT FOR THE THICKNESS OF THE INSULATION.
- CLEARANCES RECOMMENDED BY THE EQUIPMENT MANUFACTURER SHALL BE PROVIDED AROUND ALL MECHANICAL EQUIPMENT UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL PROVIDE ALL POWER AND CONTROL WIRING REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. LOW VOLTAGE CONTROL WIRING SHALL BE PLENUM RATED AND WILL NOT BE REQUIRED TO BE INSTALLED IN CONDUIT UNLESS OTHERWISE STATED. CONTROL WIRING SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES. ALL CONTROL WIRING SHALL BE NEATLY BUNDLED TOGETHER WITH ELECTRICAL WIRING TIES. CONTROL WIRING SHALL NOT LAY ON OR BE SUPPORTED BY THE CEILING OR CEILING SUPPORT ASSEMBLY. ALL CONTROL WIRING SHALL BE SUPPORTED AT BOTTOM OF STRUCTURE AT A MAXIMUM SPACING OF 1220mm. CONTROL WIRING SHALL NOT HAVE A VERTICAL SAG IN EXCESS OF 50mm MAX. BETWEEN SUPPORTS. ALL LINE VOLTAGE AND ALTERNATING CURRENT CONTROL WIRING SHALL BE INSTALLED IN CONDUITS. A DISCONNECT SWITCH OR OTHER MEANS OF DISCONNECTING THE POWER SOURCE SHALL BE PROVIDED AT EACH TERMINAL UNIT OR OTHER CONTROL POINT LOCATION THAT REQUIRE LINE VOLTAGE POWER.
- ALL CEILING GRILLES, REGISTERS AND DIFFUSERS SHALL BE MOUNTED IN THE CENTER OF LAY-IN CEILING TILES. CEILING GRIDS AND T-BARS SHALL NOT BE CUT OR OFFSET FOR THE INSTALLATION OF GRILLES, REGISTERS OR DIFFUSERS.
- CONTROL DEVICES, WIRING, SWITCHES, CONDUIT, TIMERS, MOTOR STARTERS, CONTACTORS, ETC. ARE THE RESPONSIBILITY OF THIS DIVISION.
- IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE INSTALLATION OF HVAC DUCTWORK AND PIPING WITH ALL OTHER TRADES BEFORE ANY INSTALLATION HAS BEEN MADE. NO CREDIT WILL BE GIVEN FOR REMOVAL AND RE-INSTALLATION DUE TO THE LACK OF CONTRACTOR COORDINATION.
- CEILING ACCESS DOORS SHALL BE PROVIDED AT ALL EQUIPMENT, VALVES, CONTROL DAMPERS, SMOKE DAMPERS AND OTHER DEVICES THAT REQUIRE ADJUSTMENT OR RESET, LOCATED ABOVE HARD CEILINGS.
- BALL VALVES MAY BE SUBSTITUTED WHERE GATE VALVES ARE SHOWN FOR PIPE SIZES 50 mm AND SMALLER.
- SEE SEISMIC DETAILS INDICATED ON DRAWING M7-4 – M7-7 AND SEISMIC GENERAL NOTES & VIBRATION ISOLATION & SEISMIC RESTRAINT SCHEDULE ON DRAWING M7-4.
- ANY DUCT THAT IS VISIBLE THROUGH AIR DISTRIBUTION INLETS AND OUTLETS SHALL BE PAINTED WITH FLAT BLACK PAINT.
- WHEN CONSTRUCTION IS COMPLETED ALL AIR DISTRIBUTION SYSTEMS SHALL BE STARTED AND OPERATED CONTINUOUSLY FOR A MINIMUM PERIOD OF 14 DAYS PRIOR TO OCCUPANCY. THIS OPERATION IS INTENDED TO FLUSH AND PURGE THE BUILDING CONSTRUCTION CONTAMINANTS BEFORE THE BUILDING IS TO BE PERMANENTLY OCCUPIED.
- SEE SHEETS M2-1 THROUGH M2-10 FOR ALL AIR DISTRIBUTION DUCTWORK AND EQUIPMENT.
- SEE SHEETS M3-1 THROUGH M3-10 FOR ALL HVAC PIPING AND EQUIPMENT.
- SEE SHEETS M4-1 THROUGH M4-3 FOR EQUIPMENT ROOM PLAN AND SECTIONS.
- SEE SHEETS M6-1 – M6-2 FOR HVAC PIPING DIAGRAMS.
- SEE SHEETS M7-1 THOROUGH M7-7 FOR HVAC DETAILS.
- SEE SHEETS M8-1 THROUGH M8-3 FOR ALL HVAC EQUIPMENT SCHEDULES.
- SEE SHEETS M9-1 THROUGH M9-3 FOR CONTROL DIAGRAMS AND CONTROL SEQUENCE OF OPERATION.
- ALL REQUIRED EQUIPMENT PIPING APPURTENANCES, AUXILIARIES AND DEVICES ARE NOT NECESSARILY SHOWN ON THE PIPING PLANS, SECTIONS AND DIAGRAMS. HOWEVER ALL SHALL BE PROVIDED WHERE INDICATED ON THE EQUIPMENT CONNECTION DETAILS, AS SPECIFIED OR WHERE REQUIRED BY THE EQUIPMENT MANUFACTURER.
- ALL PIPE SIZES INDICATED ARE BASED ON "DN PIPE STANDARD".
- WHERE DUCT, GRILLE, DIFFUSER AND OTHER MISCELLANEOUS SIZES ARE INDICATED THESE SIZES ARE BASED ON "SOFT METRIC CONVERSION". IF THESE SIZES ARE CONVERTED TO THE ENGLISH MEASUREMENT SYSTEM THESE SIZES SHALL BE ROUNDED TO THE NEAREST MANUFACTURERS STANDARD SIZE OR INCH. ALL SUBMITTALS AND ANY REFERENCES SUBMITTED SHALL BE BASED ON THE METRIC SYSTEM OF MEASUREMENT. ANY SUBMITTALS THAT UTILIZE THE ENGLISH SYSTEM OF MEASUREMENT WILL BE REJECTED WITHOUT REVIEW.
- ALL LOUVERS THAT ARE NOT UTILIZED BY DUCT PLENUM CONNECTIONS OR EQUIPMENT SHALL BE BLANKED OFF. SEE DETAIL



IF SHEET IS LESS THAN 28"x42", IT IS A REDUCED PRINT. SCALE REDUCED ACCORDINGLY.

M0-1

MEDICAL/DENTAL CLINIC

HVAC LEGEND, ABBREVIATIONS AND NOTES

SIZE	CODE IDENT. NO.	DRAWING NO.
F	XXXXX	8144717
		CONST. CONTR. NO.
SCALE:	AS SHOWN	SPEC. 11996048
		SHEET 212 OF 316