

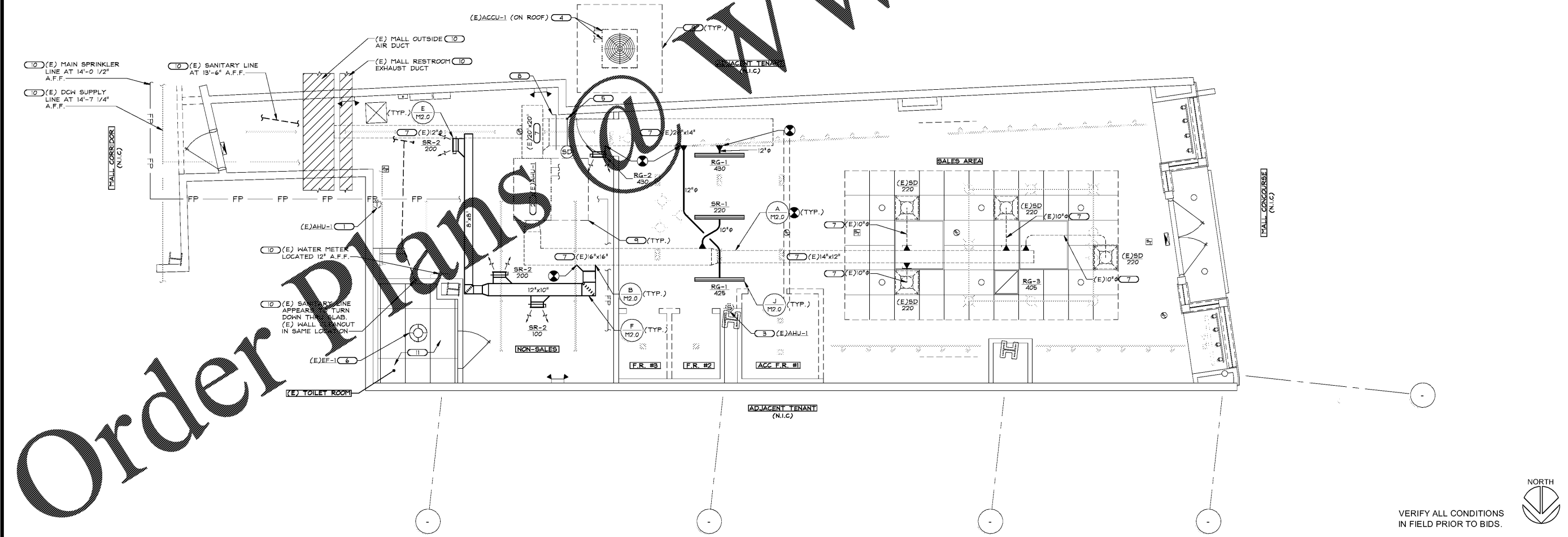
⊕	THERMOSTAT	⊗	SUPPLY DIFFUSER	CONTR	CONTRACTOR
⊕	SENSOR	⊗	RETURN GRILLE	COORD	COORDINATE
⊕	CARBON DIOXIDE SENSOR	⊗	EXHAUST GRILLE/FAN	CS	CONDENSER WATER
⊕	DUCT SMOKE DETECTOR	⊗	ACCESS DOOR	CR	CONDENSER WATER
⊕	DUCT OFFSET	⊗	SPIN-IN FITTING	CHS	CHILLED WATER SUPPLY
⊕	SUPPLY DUCT - UP	⊗	SPIN-IN FITTING W/	DCM	DOMESTIC COLD WATER
⊕	SUPPLY DUCT - DN	⊗	MANUAL BALANCE DPR	DIFF	DIFFUSER
⊕	RA OR EXH. DUCT UP	⊗	FLEX DUCT CONNECTION	DISC	DISCONNECT
⊕	RA OR EXH. DUCT DN	⊗	(E)/EX. EXISTING	DN	DOWN
⊕	ELBOW TURNING VANES	⊗	(R) RELOCATED	DPR	DAMPERS
⊕	FIRE DAMPER (F DPR)	⊗	X"Ø AIR-COOLED	EA	EXHAUST
⊕	MANUAL BALANCE DPR	⊗	AB ABOVE	EXH	EXHAUST
⊕	TRANSITION	⊗	ACCU AIR-COOLED	F DPR	FIRE DAMPER
⊕	DUCTWORK	⊗	AD ACCESS DOOR	FLEX	FLEXIBLE
⊕	(E) DUCTWORK	⊗	AFF ABOVE FINISHED FLOOR	FLR	FLOOR
⊕	COND PIPE	⊗	AHU AIR HANDLING UNIT	GC	GENERAL CONTRACTOR
⊕	HYDRONIC PIPE	⊗	ARCH ARCHITECT	HP	HORSEPOWER
⊕	(E) HYDRONIC PIPE	⊗	BDD BACKDRAFT DAMPER	MAX	MAXIMUM
⊕	(E) WATER PIPE	⊗	BEL BELOW	MC	MECHANICAL CONTRACTOR
⊕	(E) SANITARY PIPE	⊗	BLDG BUILDING	MCA	MIN CIRCUIT AMPACITY
⊕	SPRINKLER PIPE	⊗	CFM CUBIC FEET PER	MIN	MINIMUM
⊕	CONNECT TO EXISTING	⊗	CLG CEILING	MTD	MOUNTED
		⊗	COND CONDENSATE	NTS	NOT TO SCALE
		⊗	CONT CONTINUATION	RA	RETURN AIR
		⊗		RTU	ROOFTOP UNIT
		⊗		SA	SUPPLY AIR
		⊗		TV	TURNING VANES
		⊗		TYP	TYPICAL
		⊗		WSHP	WATER-SOURCE HEAT
		⊗		PJP	PUMP
		⊗		W	WITH

- EXISTING THERMOSTAT FOR (E)AHU-1 TO BE RELOCATED AS SHOWN. CLEAN AND ADJUST AS REQUIRED FOR PROPER OPERATION. REPAIR/REPLACE ANY DEFECTIVE PARTS. EXTEND WIRING, MAKE FINAL CONNECTIONS, COMMISSION SYSTEM AND PLACE INTO OPERATION. FURNISH AND INSTALL ALL ITEMS REQUIRED TO MAKE SYSTEM FULLY FUNCTIONAL. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS.
- (E)AHU-1: MECHANICAL CONTRACTOR TO REUSE EXISTING AIR HANDLING UNIT. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL THREE SETS OF MERV-8 FILTERS. CHANGE FILTERS AFTER FINAL STORE CLEANING AND AGAIN PRIOR TO AIR BALANCE. REBALANCE FAN AND REPLACE BELTS. REPLACE/REPAIR ANY DEFECTIVE PARTS. GREASE FAN BEARINGS. CHECK CONTROLS FOR PROPER OPERATION AND MOTOR DRIVE FOR PROPER FAN PERFORMANCE. CLEAN AND/OR REPLACE SECONDARY DRAIN PAN, OVERFLOW SWITCH AND CONDENSATE LINE AS REQUIRED. RE-LABEL AHU PER LANDLORD REQUIREMENTS AND PER SPECIFICATIONS. FIELD VERIFY EXACT LOCATION AND ALL OTHER REQUIREMENTS.
- EXISTING TEMPERATURE SENSOR FOR (E)AHU-1 TO BE RELOCATED AS SHOWN. CLEAN AND ADJUST AS REQUIRED FOR PROPER OPERATION. REPAIR/REPLACE ANY DEFECTIVE PARTS. EXTEND WIRING, MAKE FINAL CONNECTIONS, COMMISSION SYSTEM AND PLACE INTO OPERATION. FURNISH AND INSTALL ALL ITEMS REQUIRED TO MAKE SYSTEM FULLY FUNCTIONAL. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS.
- (E)ACCU-1: EXISTING CONDENSING UNIT ON ROOF TO REMAIN. MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS. CLEAN AND REPAIR AS REQUIRED. REPAIR/REPLACE ANY DEFECTIVE PARTS. VERIFY REFRIGERANT CHARGE MEETS MANUFACTURER'S REQUIREMENTS AND ADD REFRIGERANT AS REQUIRED. FIELD VERIFY AND COORDINATE ALL REQUIREMENTS WITH LANDLORD PRIOR TO BID AND INCLUDE ALL MATERIAL AND LABOR COSTS FOR THIS WORK IN BID. VERIFY UNIT IS IN GOOD WORKING ORDER. FIELD VERIFY EXISTING LOCATION AND REQUIREMENTS.
- EXISTING SMOKE DETECTOR TO REMAIN. MECHANICAL CONTRACTOR SHALL CLEAN AND REPAIR EXISTING SMOKE DETECTOR AS REQUIRED TO ENSURE A FULLY FUNCTIONING UNIT. UPON DETECTION OF SMOKE, DETECTOR SHALL SIGNAL LANDLORD FIRE ALARM SYSTEM AND UNIT SHALL SHUT DOWN.
- (E)EE-1: MECHANICAL CONTRACTOR SHALL REUSE EXISTING TOILET EXHAUST FAN IN RESTROOM. CLEAN AND ADJUST AS REQUIRED FOR PROPER OPERATION. REPLACE/REPAIR ANY DEFECTIVE PARTS. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS.
- MECHANICAL CONTRACTOR TO REUSE EXISTING DUCTWORK. CAP ANY UNUSED OPENINGS IN EXISTING DUCT WITH SAME GAUGE SHEET METAL AND SEAL AIR-TIGHT. REPAIR/PATCH INSULATION AND VAPOR BARRIER TO MATCH EXISTING. VERIFY EXISTING SUPPORTS AND PROVIDE NEW AS REQUIRED. REPAIR/REPLACE AND CLEAN AS NECESSARY. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS.
- EXISTING MANUAL VOLUME DAMPER TO REMAIN. BALANCE RETURN AIR TO 1,690 CFM.
- DASHED LINE REPRESENTS THE MANUFACTURER'S RECOMMENDED CLEARANCE.
- EXISTING UTILITIES (DUCTWORK, PIPING, CONDUIT, ETC.) TO REMAIN. TYPE AND ELEVATION ARE AS NOTED. FIELD VERIFY EXACT LOCATION, ELEVATION, SIZE AND ALL OTHER REQUIREMENTS.
- EXISTING RESTROOM TO REMAIN. CLEAN EXISTING PLUMBING FIXTURES TO 'LIKE-NEW' CONDITION AND REPAIR AS REQUIRED.

NOT USED S HVAC LEGEND AND ABBREVIATIONS N.T.S. M MECHANICAL CODED NOTES D

- PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERATIONAL MECHANICAL SYSTEM AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS AND AS REQUIRED BY THE JOB CONDITIONS. ALL WORK NOT SPECIFICALLY NOTED AS BEING PROVIDED BY THE LANDLORD SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. ALL WORK (MATERIALS, FABRICATION, INSTALLATION, ETC.) SHALL COMPLY WITH THE APPLICABLE SECTIONS OF ALL STATE AND LOCAL CODES (MECHANICAL CODE, BUILDING CODE, ENERGY CODE, ETC.) AND THE LATEST EDITION OF SMACNA.
- READ THE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL DIVISIONS OF WORK. COORDINATE AND SCHEDULE ALL WORK WITH AND BETWEEN ALL CONTRACTORS AND PROVIDE ALL SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS. FIELD VERIFY AND COORDINATE WORK BETWEEN ALL TRADES, LANDLORD REQUIREMENTS, CEILING HEIGHTS AND EXISTING CONDITIONS PRIOR TO THE START OF WORK OR ORDERING OF EQUIPMENT.
- VERIFY ALL CONDITIONS IN FIELD PRIOR TO BID. VISIT JOB SITE AND BE FAMILIAR WITH LANDLORD REQUIREMENTS AND EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXTRAS DUE TO FAILURE TO VISIT THE JOB SITE AND/OR FAILURE TO PREDETERMINE ALL REQUIREMENTS IMPOSED BY THE LANDLORD, EXISTING CONDITIONS OR OTHER AUTHORITIES. REFER TO RESPONSIBILITY SCHEDULE ON SHEET G1.2 FOR MORE INFORMATION.
- VERIFY DUCT ROUTING AS EARLY IN THE JOB PROCESS AS POSSIBLE. IF MINOR CHANGES ARE REQUIRED, NOTIFY TENANT CONSTRUCTION MANAGER IMMEDIATELY. DUCT DIMENSIONS ARE NOMINAL CLEAR INSIDE DIMENSIONS. DUCT LAYOUTS ARE SCHEMATIC. FIELD COORDINATE ALL DUCT RUNS PRIOR TO DUCT FABRICATION. NO EXTRAS SHALL BE AWARDED FOR DUCT REVISIONS CAUSED BY LACK OF COORDINATION. ALL RECTANGULAR DUCTWORK SHALL BE LINED AND ALL ROUND DUCT SHALL BE WRAPPED WITH A MINIMUM R-VALUE OF 4.2, 1.0 PCF INSULATION. REFER TO SPECIFICATIONS FOR MORE INFO.
- ALIGNMENT/PLACEMENT OF HVAC DEVICES IS CRITICAL. COORDINATE ALIGNMENT WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND LIGHTING PLAN. COORDINATE BOX-OUT LOCATIONS FOR ALL DRYWALL MOUNTED AIR DEVICES WITH CEILING FRAMING. ORIENT ALL AIR DEVICES TO MINIMIZE VIEW INTO PLUMBING/DUCT. CEILING AIR DEVICES TO HAVE BLADE OPENINGS FACING WALL OR SOFFIT AND WALL AIR DEVICES TO HAVE OPENINGS FACING UP.
- SPIN-IN FITTINGS WITHOUT MANUAL BALANCING DAMPERS TO BE USED FOR ALL ROUND BRANCH TAPS AT INACCESSIBLE LOCATIONS WITH BALANCING REQUIRED WITHIN TWO (2) FEET OF DIFFUSER WITH PLASTER FRAME. FLEX DUCT TO BE A MAXIMUM OF 5'-0" LONG AND SHALL BE INSULATED.
- PROVIDE AS-BUILT DRAWINGS ALONG WITH ALL EQUIPMENT SHOP DRAWINGS, INFORMATION ON THERMOSTATS, CONTROL WIRING DIAGRAMS AND OTHER PERTINENT INFORMATION TO LANDLORD AND TENANT AT COMPLETION OF PROJECT.
- FURNISH AND INSTALL STRUCTURAL STEEL REQUIRED TO SUPPORT EQUIPMENT AND COORDINATE LOCATIONS AND REQUIREMENTS WITH THE LANDLORD REPRESENTATIVE. COST OF THIS WORK AND ANY STRUCTURAL ENGINEERING FEES REQUIRED SHALL BE INCLUDED IN THIS BID.
- ALL EQUIPMENT, PIPING AND/OR DUCTWORK NOT BEING USED OR SHOWN TO REMAIN IS FULLY REMOVED AND NOT ABANDONED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ANY EXISTING WALL, FLOOR OR CEILING SURFACE THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS.
- COMPLETELY INSTALL ALL ACCESSORIES PER EQUIPMENT MANUFACTURER RECOMMENDATIONS, INCLUDING ALL TEMPERATURE CONTROL CONNECTIONS. PROVIDE ALL MISCELLANEOUS MATERIALS AND LABOR REQUIRED TO COMPLETE THIS WORK PER MANUFACTURER PROVIDED INSTRUCTIONS.
- BALANCE ALL HVAC SYSTEMS TO AIRFLOW VALUES (CFM) NOTED ON PLANS AND PROVIDE AIR BALANCING REPORT TO TENANT FOR ALL HVAC SYSTEMS. CAREFULLY FOLLOW SPECIFICATIONS FOR AIR BALANCE WORK. MECHANICAL CONTRACTOR SHALL FIELD VERIFY AND COORDINATE REQUIREMENTS PRIOR TO BID AND INCLUDE THE COST OF THIS WORK IN THIS BID.
- FURNISH AND INSTALL ACCESS PANELS AS DIRECTED AND AS SPECIFIED BY TENANT FOR ALL EQUIPMENT OR OTHER ITEMS REQUIRING ACCESS. VERIFY AND COORDINATE PLACEMENT OF ACCESS WITH EQUIPMENT SERVICE CLEARANCES AND WITH TENANT CONSTRUCTION MANAGER.
- PRIOR TO MAKING ANY PIPE OR DUCT ROOF PENETRATION OR POSITIONING ANY EQUIPMENT ON THE ROOF, ALL PROPOSED LOCATIONS AND/OR PATCH LOCATIONS INDICATED ON THE LANDLORD APPROVED PLANS AND SHALL BE FIELD VERIFIED AND APPROVED BY LANDLORD FIELD REPRESENTATIVE.
- ALL EQUIPMENT TO BE SUPPORTED FROM STRUCTURAL MEMBERS. NO WEIGHT CAN BE PLACED ON THE ROOFING MATERIALS OR INSULATION.
- FURNISH AND INSTALL TEMPORARY WEATHERPROOFING OF ALL ROOF PENETRATIONS, UNTIL LANDLORD APPROVED ROOFING CONTRACTOR HAS MADE THE FINAL PATCH. VERIFY REQUIREMENTS WITH LANDLORD.
- ALL ROOF CUTTING, PATCHING AND FLASHING REQUIRED SHALL BE BY A LANDLORD APPROVED ROOFING CONTRACTOR AT MECHANICAL CONTRACTOR'S EXPENSE. COORDINATE ROOFING WORKS WITH LANDLORD'S REPRESENTATIVE. FIELD VERIFY AND COORDINATE REQUIREMENTS WITH LANDLORD PRIOR TO BID AND INCLUDE THE COST OF THIS WORK IN THIS BID.
- ALL MECHANICAL EQUIPMENT, PIPES AND DUCTS, PENETRATING AND/OR LOCATED ON ROOF SHALL BE PAINTED TO MATCH COLOR OF ROOF. USE THE APPROPRIATE COATS OF PAINT. PRETREATMENT PRIOR TO FINAL COAT. THE FINAL COAT OF THE ROOF MATCHING COLOR SHALL BE APPROVED BY LANDLORD CONSTRUCTION COORDINATOR. SPACE NUMBER SHALL BE PERMANENTLY MARKED ON ROOF-MOUNTED EQUIPMENT.
- FURNISH AND INSTALL IDENTIFICATION ON ALL EQUIPMENT MOUNTED OUTSIDE OF SPACE (ON ROOF OR GRADE). PROVIDE PLASTIC LAMINATED PLATE OR STENCIL WITH A MINIMUM OF 2" BLACK LETTERS, INDICATING TENANTS NAME AND SPACE NUMBER. VERIFY REQUIREMENTS WITH LANDLORD.
- REFER TO ARCHITECTURAL SHEET A11.4 FOR STRUCTURAL SUPPORT DETAILS.
- MECHANICAL CONTRACTOR SHALL PERFORM STARTUP ON ALL HVAC EQUIPMENT AND CONTROL SYSTEM. PRIOR TO ENERGIZING ANY HVAC UNIT FOR PERMANENT OR TEMPORARY HEATING OR COOLING, MECHANICAL CONTRACTOR MUST HAVE APPROVAL FROM TENANT CONSTRUCTION MANAGER AND IS REQUIRED TO HAVE COMPLETED STARTUP PROCEDURES AS OUTLINED IN THE MANUFACTURER PROVIDED INSTALLATION AND STARTUP MANUALS FOR EACH PIECE OF HVAC EQUIPMENT.
- MECHANICAL CONTRACTOR SHALL PROVIDE FIRE WATCH AND PORTABLE FIRE EXTINGUISHER (MINIMUM SIZE A-20BC), THROUGHOUT ANY WELDING IS DONE WITHIN THE DEMISED PREMISES. THE PERSON PERFORMING THE FIRE WATCH SHALL REMAIN IN THE SPACE FOR AT LEAST ONE (1) HOUR AFTER THE COMPLETION OF ANY WELDING. THIS SHALL BE COORDINATED THROUGH THE LOCAL FIRE DEPARTMENT.

MECHANICAL GENERAL NOTES C



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