



Addendum #1

**T25-59 – HVAC Upgrades at Vaughan Willard
Public School**

**Closing Date: Tuesday, January 13, 2025, Before
11:00 AM**

The following additions, deletions and/or items of clarification shall be included as an integral part of the Tender documents and scope of work:

Addition of Drawings

Please find attached drawings named "**T25-59 Drawings - 2025-12-17_25-14_Vaughan Willard Alterations_IF Tender_mechanical**". This is to be included as an integral part of the Tender documents and scope of work.

End of Addendum #1

PERFORM ALL MECHANICAL WORK DETAILED ON THESE DRAWINGS TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL OPERATING SYSTEM TO THE SATISFACTION OF THE MECHANICAL CONSULTANT.

EQUIPMENT SUBSTITUTIONS AFTER AWARD OF CONTRACT WILL NOT BE CONSIDERED WITHOUT WRITTEN EXPLANATION AND CONSULTANT'S WRITTEN AUTHORIZATION. THE QUALITY AND PERFORMANCE CHARACTERISTICS OF SUBSTITUTED PRODUCT SHALL BE EQUIVALENT TO THE SPECIFIED PRODUCT. ALL SUBSTITUTE PRODUCTS SHALL BE APPROVED BY CONSULTANTS. ANY ADDITIONAL COSTS INCURRED BY ALL TRADES FOR SUBSTITUTED EQUIPMENT INSTALLATION MUST BE INCURRED BY THIS CONTRACT.

SCHOOL BOARD STANDARDS SHALL FORM THE BASIS FOR THIS CONSTRUCTION. COMPLY WITH SCHOOL BOARDS' REQUIREMENTS FOR SYSTEM SHUTDOWN AND CONNECTION.

CODES AND BYLAWS SHALL BE STRICTLY ADHERED TO. OBTAIN NECESSARY PERMITS, APPROVALS AND INSPECTIONS FROM THE AUTHORITIES HAVING JURISDICTION.

PERMITS AND FEES REQUIRED BY THE AUTHORITIES HAVING JURISDICTION SHALL BE OBTAINED AND PAID FOR BY THIS CONTRACTOR. INCLUDE ALL APPLICABLE TAXES.

EXISTING SITE CONDITIONS AFFECTING THE WORK OF THIS TRADE SHALL BE REVIEWED PRIOR TO TENDER SUBMISSION. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR OF FULL CONTRACT RESPONSIBILITY.

CUTTING, PATCHING AND CORE DRILLING REQUIRED BY THIS TRADE SHALL BE PAID FOR BY THIS CONTRACTOR. X-RAY CONCRETE STRUCTURE IN ACCORDANCE WITH OWNER/LANDLORD STRUCTURAL ENGINEER'S REQUIREMENTS. PROVIDE DETAILS OF NEW OPENING THROUGH STRUCTURAL COMPONENTS FOR ENGINEER'S APPROVAL. INCLURE ALL COSTS RELATED FOR STRUCTURAL APPROVAL.

FIRE STOP SHALL BE ULC LISTED FOR THE REQUIRED SEPARATION AND PROVIDED AT ALL PIPE PENETRATIONS THROUGH RATED ASSEMBLIES.

PREMIUM TIME COSTS SHALL BE INCLUDED FOR WORK OUTSIDE OF NORMAL WORKING HOURS.

SHOP DRAWINGS SHALL BE COMPLETE WITH CONTRACTORS REVIEWED STAMP. SUBMIT ONE ELECTRONIC COPY. ALLOW ONE (1) WEEK FOR ENGINEERS REVIEW.

CONTROL WIRING AND DEVICES SHALL BE PROVIDED UNDER THIS CONTRACT, UNLESS NOTED OTHERWISE. WHEN REQUIRED, CONTROLS WORK SHALL BE COMPLETED BY SCHOOL BOARD'S APPROVED CONTRACTOR AND PAID FOR UNDER THIS CONTRACT.

ELECTRICAL DEVICES SHALL BE PROVIDED FOR ALL LOAD SIDES INCLUDING WIRING, STARTERS, DISCONNECT, ETC. VERIFY AND COORDINATE VOLTAGE AND PHASE WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

ACCESS DOORS SHALL BE PROVIDED FOR ALL INACCESIBLE MECHANICAL EQUIPMENT AND SERVICES REQUIRING INSPECTION OR SERVICE. FINISH SHALL SUIT DESIGNERS' REQUIREMENTS. ACCESS DOORS SHALL BE RECESSED AS REQUIRED TO SUIT WALL FINISH (EG. TILE).

ENGINEERS FINAL INSPECTION IS IMPERATIVE. PRIOR TO INSTALLATION OF ALL CEILINGS, THIS CONTRACTOR SHALL CONTACT MARGARET EDWARDS (ROMAR) AT MEDWARDS@ROMARENGINEERING.COM TO PERFORM A FINAL INSPECTION. WHEN CEILING TILES HAVE BEEN INSTALLED IT WILL BE NECESSARY FOR THE CONTRACTOR TO REMOVE PORTIONS FOR INSPECTION.

ONE YEAR WRITTEN WARRANTY SHALL BE PROVIDED FOR THE COMPLETE MECHANICAL INSTALLATION FROM DATE OF ACCEPTANCE.

CAD-BUILT DRAWINGS SHALL BE COMPLETED UTILIZING AUTOCAD. OBTAIN DRAWINGS FROM ENGINEER. RECORD ACCURATELY INSTALLED WORK ON WHITE PRINTS TRANSFERRING TO AUTOCAD. SUBMIT BOTH COPIES.

OPERATING AND MAINTENANCE MANUALS CONTAINING APPROVED SHOP DRAWINGS, AIR AND WATER BALANCING REPORTS, EQUIPMENT DATA SHEETS, WRITTEN WARRANTY, OPERATING INSTRUCTIONS AND MAINTENANCE PROCEDURES SHALL BE SUBMITTED TO CONSULTANT FOR REVIEW. MANUALS SHALL BE SEPARATED WITH DIVIDERS IN APPROPRIATE SECTIONS. MAKE ALL CORRECTIONS REQUESTED BY CONSULTANT AND RESUBMIT FOR REVIEW.

CHANGE NOTICE QUOTATIONS SHALL BE SUBMITTED COMPLETE WITH COST BREAKDOWN OF LABOUR AND MATERIALS. FAILURE TO PROVIDE WILL RESULT IN REJECTION. ALL MECHANICAL CHANGE NOTICES SHALL BE PRICED IN ACCORDANCE WITH "MECHANICAL CONTRACTORS ASSOCIATION" (MCA) LABOUR UNITS STRICTLY FOR LABOUR AND FOR MATERIAL COST USE "ALL PRICER" LESS DISCOUNT, TYPICALLY 25% FOR VALVES AND OTHER MATERIALS.

TEMPORARY FILTERS 25MM (1 IN.) SHALL BE PROVIDED AT ALL BASE BUILDING RETURN AIR OPENINGS WHICH REMAIN OPERATIONAL DURING CONSTRUCTION. FILTERS TO BE REPLACED WEEKLY. REMOVE UPON CONSTRUCTION COMPLETION.

MECHANICAL DEMOLITION

PROVIDE LABOUR, MATERIALS, PRODUCTS, EQUIPMENT AND SERVICES REQUIRED TO COMPLETE THE DEMOLITION WORK SPECIFIED HEREIN.

REFER TO DRAWINGS FOR EXTENT OF DEMOLITION WORK. THE DRAWINGS INDICATE THE APPROXIMATE LOCATIONS OF SERVICES AS FAR AS THESE ARE KNOWN.

DISPOSE, OFF SITE, OF ALL DEBRIS IN ACCORDANCE WITH THE JURISDICTIONAL AUTHORITIES.

REMOVAL AND STORAGE OF SALVAGEABLE ITEMS AS DIRECTED BY THIS SPECIFICATION SECTION AND THE OWNER OF THEIR REPRESENTATIVE.

MEET THE REQUIREMENTS AND RECOMMENDATIONS OF ALL MUNICIPAL, PROVINCIAL AND FEDERAL BYLAWS AND ORDINANCES. EXECUTE THIS WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS: CAN/CSA-S350-1980 CODE OF PRACTICE FOR SAFETY IN DEMOLITION OF STRUCTURES; ONTARIO BUILDING CODE; OCCUPATIONAL HEALTH AND SAFETY ACT; REGULATIONS FOR CONSTRUCTION PROJECTS; ONTARIO FIRE CODE. REGULATIONS UNDER FIRE MARSHALS ACT.

REMOVAL FROM SITE AND DISPOSAL OF DEBRIS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL JURISDICTIONAL AUTHORITIES. ARRANGE AND PAY FOR ALL PERMITS, NOTICES AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE DEMOLITION WORK. ALL MATERIALS WHICH HAVE NOT BEEN DESIGNATED FOR SALVAGE FROM THE DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVE ALL MATERIAL AND DEBRIS FROM THE SITE AS QUICKLY AS POSSIBLE AND DISPOSE OF LEGALLY. BURNING OF DEBRIS OR SELLING OF MATERIALS ON THE SITE WILL NOT BE PERMITTED. CONFORM TO REQUIREMENTS OF MUNICIPALITY'S WASTE MANAGEMENT FACILITIES SHALL BE REMOVED FROM SITE AND DISPOSED OF THROUGH RECYCLING COMPANIES SPECIALIZING IN RECYCLABLE MATERIALS. AT THE END OF EACH WORK SHIFT, LEAVE WORK IN A SAFE CONDITION. PATCH SPANNING FIRE RATED ASSEMBLIES. DEMOLISH WORK INTO SECTIONS OF PRACTICAL SIZE FOR REMOVAL WITHOUT ALTERATION OR DAMAGE TO EXISTING BUILDING. STORE MATERIALS ONLY IN AREAS DESIGNATED BY THE OWNER AND AS PERMITTED BY THE LOCAL JURISDICTIONAL AUTHORITIES. MATERIALS AND DEBRIS SHALL NOT BE STACKED IN BUILDING TO THE EXTENT THAT OVERLOADING OF ANY PART OF THE STRUCTURE WILL OCCUR.

CONFER WITH THE OWNER CONCERNING SCHEDULE, DUST AND NOISE CONTROL, PRIOR TO COMMENCING WORK IN OR ADJACENT TO EXISTING FACILITIES WHERE SUCH WORK MIGHT AFFECT EITHER THOSE FACILITIES OR THEIR OCCUPANTS. EXECUTE WORK WITH LEAST POSSIBLE INTERFERENCE OR DISTURBANCE TO OCCUPANTS, PUBLIC AND NORMAL USE OF PREMISES. PROVIDE TEMPORARY MEANS TO MAINTAIN SECURITY WHEN SECURITY HAS BEEN REDUCED BY DIVISION 15.

PROVIDE TEMPORARY DUST SCREENS, BARRIERS, WARNING SIGNS IN LOCATIONS WHERE RENOVATIONS AND ALTERATION WORK IS ADJACENT TO AREAS WHICH WILL BE OPERATIVE DURING WORK.

PROTECT ALL MECHANICAL SYSTEMS, INDICATED TO REMAIN, FROM DAMAGE. PROVIDE AND MAINTAIN READY ACCESS TO FIREFIGHTING EQUIPMENT AT ALL TIMES. PROVIDE AND MAINTAIN PROPER AND SUITABLE FIRE EXTINGUISHERS THROUGHOUT THE DURATION OF THE WORK.

THE DRAWINGS INDICATE THE APPROXIMATE LOCATIONS OF SERVICES AS FAR AS THESE ARE KNOWN. SHOULD ANY MECHANICAL CONTROLS, OR ELECTRICAL SERVICE LINE BE BROKEN, OR DISRUPTED BY OPERATIONS SPECIFIED UNDER THIS CONTRACT, REPAIR SERVICE LINES, AND MAKE GOOD ALL DAMAGE DUE TO THE DISRUPTION OR BREAK, AT NO EXPENSE TO THE BOARD. NOTIFY THE BOARD IMMEDIATELY WHENEVER ANY SERVICE LINE IS BROKEN OR DAMAGED.

ACCEPT LIABILITY FOR COSTS INCURRED BY THE BOARD IN REPAIRING AND CLEANING EQUIPMENT, ETC., RESULTING FROM FAILURE TO COMPLY WITH THE ABOVE REQUIREMENTS.

CLEAN UP

DURING THE PROCESS OF WORK EACH CONTRACTOR SHALL KEEP HIS WORK TIDY. THE PREMISES SHALL AT ALL TIMES BE FREE FROM RUBBISH AND SURPLUS MATERIALS, CLEAN DAILY.

PROTECTING-TRADES

DIVISION 15 IS ENTIRELY FINANCIALLY RESPONSIBLE FOR ALL DAMAGE TO PROPERTY OR ADJACENT PROPERTY, ARISING OF THE WORK OF THIS CONTRACTOR, WHETHER CAUSED BY HIMSELF OR ANY PERSONS ENGAGED ON HIS WORK.

DIVISION 15 CONTRACTORS ARE RESPONSIBLE TO ENSURE THAT THEIR EMPLOYEES AND SUB-TRADES USE ONLY SAFE PRACTICES AND CONDITIONS, OBSERVE ALL SAFETY REGULATIONS, SECURITY REGULATIONS AND FIRE SAFETY RULES.

DUCTWORK

NEW MATERIAL AND EQUIPMENT SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH BASE BUILDING STANDARDS.

DUCTWORK AND HANGERS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS.

FLEXIBLE DUCTWORK SHALL BE FLEXMASTER TRIPLE LOC OR EQUAL, SPIRAL WOUND ALUMINUM. SECURE TO RIGID DUCT USING GEAR CLAMPS. AT THE INLET OF EACH VAV TERMINAL CONTROL UNIT, PROVIDE A MINIMUM OF 3 DIAMETERS OF STRAIGHT FLEX DUCT. MAXIMUM LENGTH 1200 MM [4 FT-0 IN.]. FLEXIBLE DUCTS SERVING DIFFUSERS SHALL BE INSTALLED AS ONE CONTINUOUS PIECE AND SHALL NOT EXCEED 10'-0" LENGTHS.

FIRE SMOKE DAMPER SHALL BE OUT OF STREAM ULC LABELED. PROVIDE FIRE SMOKE DAMPERS AS REQUIRED IN NEW AND EXISTING DUCTWORK C/W ACCESS DOORS.

ACOUSTIC DUCT LINING 25MM [1 IN.] SHALL BE PROVIDED WHERE SHOWN ON DRAWINGS. SECURE WITH MECHANICAL FASTENERS AND ADHESIVE. SEAL RAW EDGES. NOTE DUCT DIMENSIONS ARE CLEAR INSIDE.

THERMAL INSULATION WITH VAPOUR BARRIER SHALL BE PROVIDED ON ALL NEW SUPPLY AIR DUCTWORK TO MATCH BASE BUILDING STANDARDS OR REFER TO INSULATION SECTION. ALL THERMAL INSULATION IS TO BE INSTALLED BY A RED SEAL LICENSED INSULATOR AS PER DDSB REQUIREMENTS.

FLEXIBLE DUCT CONNECTIONS SHALL BE DURODYNE NEOPRENE AND INSTALLED BETWEEN ALL AIR HANDLING EQUIPMENT AND SYSTEM DUCTWORK.

AIR TRANSFER OPENINGS INDICATED WITHOUT DUCT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO ADVISE AND CONFIRM PROVISION BY GENERAL TRADES.

BALANCING AND VOLUME CONTROL DAMPERS SHALL BE PROVIDED IN NEW OR EXISTING DUCTWORK TO PROVIDE A COMPLETE AND BALANCED SYSTEM. BALANCING WORK SHALL BE COMPLETED BY DDSB APPROVED CONTRACTOR AND PAID FOR UNDER THIS CONTRACT. CONTRACTORS TO CONTACT ARE: QUALITY AIR DISTRIBUTION INC. AT 289-892-7168 OR AIRFLOW TESTING AND BALANCING AT 613-870-9314.

FAN SHEAVES SHALL BE ADJUSTED OR REPLACED AS REQUIRED TO OBTAIN DESIGN AIR QUANTITIES. COORDINATE THIS WORK WITH OWNER/LANDLORD.

HVAC PIPING SYSTEMS

PIPING MATERIAL FOR HEATING, CHILLED AND HEAT PUMP CIRCUITS SHALL BE ASTM A53 BLACK STEEL SCHEDULE 40, ELECTRIC RESISTANCE WELDED. PIPING UNDER 65MM (2-1/2") SHALL BE THREADED FOR 1035 KPA (150 PSI) BEADED MALLEABLE IRON LINE JOINT COUPLINGS AND 860 KPA (125 PSI) THREADED CAST IRON FITTINGS.

PIPING 65MM (2-1/2") AND LARGER SHALL HAVE WELDED LINE JOINTS WITH ENDS BEVELED FOR WELDING AND STANDARD WALL SEAMLESS STEEL, GRINEL, TUBURN OR LADISH FITTINGS AND 1035 KPA (150 PSI) SLIP-ON FLANGES. CONDENSATE DRAINS SHALL BE DWV COPPER DRAINAGE TUBE WITH CAST BRASS FITTINGS AND 50/50 SOLDERED JOINTS.

VALVES CRANE OR JENKINS (JENKINS FIGURE NUMBER LISTED BELOW):

.1 TO 1379 KPA [200 PSI] WORKING PRESSURE:

	GATE	GLOBE	BALL
50 MM [2 IN.] AND SMALLER			
SOLDERED	813	106-BP	34
SCREWED	810	106-B	33
65 MM [2-1/2 IN.] AND LARGER			
FLANGED	454	2342	NOT APPLICABLE

.2 TO 2068 KPA [300 PSI] WORKING PRESSURE:

	GATE	GLOBE	BALL
50 MM [2 IN.] AND SMALLER			
SOLDERED	902A	106-BP	34
SCREWED	2810	106-B	33
65 MM [2-1/2 IN.] AND LARGER			
FLANGED	204	162	NOT APPLICABLE

CHECK VALVE: CRANE 37

.3 PROVIDE BALL OR BUTTERFLY VALVES FOR ALL SHUT-OFF REQUIREMENTS. GATE VALVES WILL NOT BE APPROVED.

.4 PROVIDE 20 MM [3/4" IN.] HOSE END DRAIN VALVES WITH CAP AND CHAIN AT ALL SYSTEM LOW POINTS.

.5 PROVIDE DI-ELECTRIC COUPLINGS FOR CONNECTION OF DISSIMILAR PIPING MATERIALS.

PROVIDE CIRCUIT BALANCING VALVES AS REQUIRED TO BALANCE WATER FLOW. CIRCUIT BALANCING VALVES SHALL BE ARMSTRONG MODEL CRBV - Y PATTERN STYLE, ALL METAL, WITH SOLDERED OR SCREWED CONNECTIONS, BUILT-IN DRAIN CONNECTION WITH SHUT OFF VALVE AND PROTECTIVE CAPS AND INTEGRAL VALVE INSULATION. PROVIDE FOR EACH VALVE:

.1 VERNIER TYPE HANDWHEEL SETTINGS FOR PRECISION FLOW BALANCING.

.2 POSITIVE SHUT OFF VALVE WITH NO DRIP SEAT AND PLUG TYPE STEM WITH TEFLOON DISC.

.3 TAMPER PROOF HIDDEN MEMORY.

.4 POSITIVE SHUT OFF METERING VALVES WITH CONNECTIONS FOR PORTABLE METER.

SELECT CIRCUIT BALANCING VALVE SIZE TO GIVE A PRESSURE DROP AT 100% OPEN BETWEEN 3.0 KPA [1 FT.] AND 21 KPA [7 FT.]. SELECT VALVES LOCATION REMOTE FROM THE PUMPS IN THE CIRCUIT NEAR MINIMUM PRESSURE DROP AND THOSE LOCATED NEAR THE PUMPS AT HIGHER PRESSURE DROPS.

PROVIDE SAFETY AND RELIEF VALVES FOR ALL CLOSED WATER SYSTEMS. PIPE RELIEF TO NEAREST FLOOR DRAIN. PROVIDE WATTS 174A VALVES RATED AT 1035 KPA [150 PSIG] AT 99°C [210°F] ASTM RATED, CAST IRON BODY BRONZE.

DISC AND SEAT, STEEL SPINDLE ASSEMBLY, CARBON STEEL SPRING.

PROVIDE STRAINERS UPSTREAM OF EACH PUMP AND WHERE INDICATED ON DRAWINGS. STRAINERS SHALL BE BRONZE BODY TYPE WITH SCREWED CONNECTIONS, STAINLESS STEEL SCREENS WITH 1.6 MM [1/16 IN.] PERFORATIONS AND CAPABLE OF SYSTEM PRESSURE OF 860 KPA [125 PSI].

AUTOMATIC AIR VENTS AND COLLECTING CHAMBERS SPIRAX 13W SHALL BE PROVIDED AT ALL HIGH POINTS OF PIPING SYSTEM. ENSURE RATINGS ARE COMPATIBLE WITH SYSTEM PRESSURE.

INSULATION SHALL BE PROVIDED TO MATCH BASE BUILDING STANDARDS OR REFER TO INSULATION SECTION.

FLUSH CLEAN AND PRESSURE TEST ALL HVAC PIPING SYSTEMS. CHEMICALLY CLEAN ALL PIPING SYSTEMS UTILIZING LOW FOAMING CHEMICAL DETERGENTS WHICH SHALL NOT ADVERSELY AFFECT SYSTEM COMPONENTS.

WATER BALANCING SHALL BE PROVIDED FOR ALL WATER SYSTEMS AND SHALL INCLUDE A WRITTEN REPORT INDICATING TEMPERATURE, FLOW RATES, OPERATING PRESSURES AND PRESSURE DIFFERENTIAL BETWEEN THE SUPPLY AND RETURN AT EACH PIECE OF EQUIPMENT.

PERFORM PRESSURE TESTING ON ALL NEW AND MODIFIED PIPES TO ENSURE TIGHTNESS OF ALL NEW JOINTS USING HYDROSTATIC TEST AT 150% OF DESIGN WORKING PRESSURE BUT NOT LESS THAN 700KPA (100 PSI). TEST WITHOUT PRESSURE DROP FOR MIN. 4 HOURS AND REMOVE AND REPLACE DEFECTIVE PARTS AND COMPONENTS THAT WILL NOT WITHSTAND PRESSURE.

CHEMICAL TREATMENT

MK SERVICES AND CONSULTING TO SUPPLY AND INSTALL ALL COMPONENTS, FLUIDS, ACCESSORIES, ETC. ASSOCIATED WITH CHEMICAL TREATMENT FOR THE PROJECT. CONTACT KRISTEN RILEY (KRISTENRILEY@MKSERVICESANDCONSULTING.COM).

AFTER COMPLETION OF FLUSH CLEANING AND PRESSURE TESTING, CHEMICALLY CLEAN ALL PIPING SYSTEMS UTILIZING LOW FOAMING CHEMICAL DETERGENTS WHICH SHALL NOT ADVERSELY AFFECT SYSTEM COMPONENTS.

PROVIDE EACH CLOSED SYSTEM WITH A 7.6 LITRE [2 US GAL] CAPACITY BY-PASS CHEMICAL FEEDER. PIPE ACROSS PUMPING SYSTEM AND LOCATE NOT MORE THAN (1M) [3 FT.] ABOVE FLOOR. PIPE TO FLOOR DRAIN, USING 20MM [3/4"] PIPE C/W BALL VALVES. PROVIDE FEEDERS WITH PRESSURE RATING SUITABLE FOR THE SYSTEM WORKING PRESSURE.

TO COMPENSATE FOR INITIAL LOSSES OF CHEMICALS AND WATER DURING STARTUP OF SYSTEM, PROVIDE TWICE AS MUCH CORROSION INHIBITOR AND BIOCIDE AS ARE NECESSARY TO TREAT SYSTEMS.

Maintain chemical levels from the time the system is filled after cleaning, up to substantial performance of the contract.

The water treatment specialist shall supply all necessary supervision during installation and shall check the systems during construction.

Provide a service program from a specialist with the water treatment supplier/contractor for a period of one year from substantial completion. Include initial water analysis and recommendations, service startup training of operating personnel, and laboratory and technical assistance.

Provide service visits as required to stabilize and commission the systems and a minimum of one visit per month by the water treatment specialist for the year following substantial completion to ensure that a proper treatment program is maintained. Perform corrosion tests to verify performance requirements are being achieved. Document recommendations and submit a written report to the owner's representative after each visit.

REFRIGERANT PIPING

ACCEPTABLE INSULATION MANUFACTURERS ARE OWENS CORNING CANADA, JOHNS MANVILLE, MANSION INSULATION INC. KNAUF FIBER GLASS AND CERTAINTEED.

PROVIDE INSULATION AND COVERS IN STRICT ACCORDANCE WITH AUTHORITIES GOVERNING COMBUSTIBILITY AND FIREPROOFING OF MATERIALS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

PROVIDE NON-COMBUSTIBLE INSULATION JACKETS AND FINISHES HAVING A FLAME SPREAD/SMOKE DEVELOPED RATING OF 25/50 OR LESS, MEETING CAN/ULC S-102 REQUIREMENTS.

ATTACH A COMPLETE AND CONTINUOUS VAPOUR BARRIER OVER INSULATION APPLIED TO COLD AND DUAL TEMPERATURE PIPING, SHEET METAL AND EQUIPMENT. USE EITHER FACTORY APPLIED VAPOUR BARRIER JACKET OF FIELD APPLIED REINFORCED FOIL FLAME RESISTANT KRAFT VAPOUR BARRIER JACKET. APPLY TO PIPING/FITTINGS, VALVES AND INLINE COMPONENTS, SHEET METAL AND FITTINGS AND EQUIPMENT. SEAL LONGITUDINAL AND CIRCUMFERENTIAL LAPS WITH CHILDERNS CP82 OR BAKOR 230-39 ADHESIVE. IF VAPOUR BARRIER JACKET IS NOT LAPPED, SEAL JOINTS WITH SELF-ADHERING 4" WIDE PLAIN ALUMINUM FOIL TAPE, OR ADHERE 4" WIDE ALUMINUM FOIL TAPE WITH CHILDERNS CP82 OR BAKOR 230-39 ADHESIVE. JACKETING WITH SELF-ADHESIVE LAPS AND SELF-ADHESIVE BARRIER TAPE WILL BE AN ACCEPTABLE ALTERNATIVE CLOSURE SYSTEM.

PROVIDE INSULATION MATERIALS WITH A MINIMUM THERMAL CONDUCTIVITY OF 0.24BTU/IN.(HR. SQ.FT²) AT 100°F MEAN TEMPERATURE.

ON HOT PIPING APPLICATIONS, HOLD INSULATION IN PLACE WITH FLARE TYPE STAPLES (OUTWARD CLINCH).

ON COLD PIPING APPLICATIONS, APPLY VAPOUR BARRIER JACKET OVER INSULATION AND SEAL LONGITUDINAL AND CIRCUMFERENTIAL LAPS WITH CHILDERNS CP82 OR BAKELITE 230-39 ADHESIVE. SEAL ALL PIPE TERMINATIONS, INCLUDING FITTINGS, WALL PENETRATIONS AND PIPE SUPPORTS WITH VAPOUR BARRIER MASTIC. FOR CHILLED WATER SYSTEMS PROVIDE VAPOUR SEAL PIPE TERMINATIONS EVERY FOUR PIPE SECTIONS.

APPLY PIPE INSULATION OVER 1-1/2" THICKNESS IN TWO LAYERS WITH JOINTS STAGGERED.

INSULATE FITTINGS WITH FABRICATED MITERED OR PREFORMED SECTIONS OF SPECIFIED INSULATION.

INSULATE OVER FLANGES AND MECHANICAL COUPLINGS WITH SPECIFIED INSULATION AND THICKNESS, SIZED TO SUIT FLANGE DIAMETERS. FILL SPACES BETWEEN INSULATION AND ADJOINING PIPE INSULATION WITH SIMILAR MATERIAL.

INSULATE VALVES AND INLINE COMPONENTS WITH FLEXIBLE INSULATION DENSITY (3/4 LBS./CU.FT.) COMPRESSED NOT MORE THAN 50% OF ORIGINAL THICKNESS. BUILD UP TO SPECIFIED THICKNESS WITH APPROVED ASBESTOS FREE FINISHING CEMENT.

DO NOT INSULATE TERMINAL UNIT AUTOMATIC CONTROL VALVES INSTALLED IN HOT PIPING. DO NOT INSULATE TERMINAL UNIT AUTOMATIC CONTROL VALVES WHICH ARE INSTALLED IN COLD PIPING AND WHICH ARE LOCATED OVER CONDENSATE DRAIN PANS.

UNDER ALL HANGERS USED ON CHILLED WATER AND DOMESTIC COLD WATER, PROVIDE AN INSERT BETWEEN SUPPORT SHIELD AND PIPING 1-1/2" OR LARGER.

PROVIDE THE FOLLOWING PIPE INSULATION TYPE AS INDICATED IN THE PIPE INSULATION TABLE BELOW.

'TYPE P1' OWENS CORNING 850 PIPE INSULATION, JOHNS MANVILLE MICRO-LOK AP-T PLUS FIBERGLAS PIPE INSULATION, MANSION FIBERGLAS PIPE INSULATION OR KNAUF PIPE INSULATION WITH FACTORY APPLIED ALL PURPOSE VAPOUR BARRIER JACKET WHERE SCHEDULED.

DUTY	INSULATION TYPE	THICKNESS	VAPOUR BARRIER			
BUILDING HOT WATER						
2" AND LESS	P-1	1"	NO			
2-1/2" AND LARGER	P-1	1-1/2"	NO			

HORIZONTAL CONDENSATE DRAINS						
ALL PIPE SIZES	P-1	1/2"	YES			

REFRIGERANT SUCTION PIPE						
ALL SIZES	P-1	1"	YES			

SHEET METAL INSULATION						
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PROVIDE INSULATION WITH A MINIMUM THERMAL RESISTANCE OF 0.25 BTU/IN.HR. SQ.FT AT 75°F MEAN TEMPERATURE.

APPLY VAPOUR BARRIER OVER INSULATION ON COLD TEMPERATURE DUCTWORK - FOR NEW AND EXISTING DUCTWORK.

CIRCULAR SILENCERS AND ACOUSTIC PLenums NEED NOT BE EXTERNALLY INSULATED.

DUCTWORK AND CASINGS LINED WITH ACOUSTIC INSULATION 1" OR MORE IN THICKNESS NEED NOT BE EXTERNALLY INSULATED.

PROVIDE THE FOLLOWING DUCTWORK INSULATION TYPE AS INDICATED IN THE DUCTWORK INSULATION TABLE BELOW.

'TYPE D1' OWENS CORNING RIGID VAPOUR SEAL DUCT INSULATION, JOHN MANSVILLE 814 SPIN-GLAS WITH FSK FACING, MANSION SPIN-GLAS RIGID INSULATING BOARD WITH REINFORCED FOIL FACING, OR KNAUF RIGID INSULATION BOARD WITH FSK FACING. DENSITY SHALL BE NOT LESS THAN 3.0LBS./CU.FT. IMPALE ON MECHANICALLY FASTENED PINS LOCATED AT NOT GREATER THAN 12" CENTERS. SECURE WITH SPEED WASHERS. BUTT JOINTS TIGHTLY TOGETHER AND SEAL WASHERS, BREAKS AND JOINTS WITH SELF-ADHERING 4" WIDE PLAIN ALUMINUM TAPE, OR ADHERE FOIL WITH CHILDERNS CP82 OR BAKELITE 230-39 ADHESIVE.

'TYPE D2' OWENS CORNING FLEXIBLE DUCT INSULATION, JOHNS MANVILLE MICROLITE TYPE 75 DUCT WRAP, MANSION MICROLITE INSULATION OR KRAFT DUCT WRAP, (3/4LB./CU.FT.) DENSITY WITH FACTORY APPLIED REINFORCED FOIL FACING. ADHERE INSULATION TO DUCT SURFACE WITH CHILDERNS CP82 OR BAKELITE 230-39 ADHESIVE, WHICH SHALL BE APPLIED IN STRIPS 6" WIDE AT NOT GREATER THAN 12" CENTERS. BUTT EDGES OF INSULATION TIGHTLY TOGETHER, AND SEAL BREAKS AND JOINTS OF FACING WITH SELF-ADHERING 4" WIDE ALUMINUM TAPE OR ADHERE FOIL WITH CHILDERNS CP82 OR BAKELITE 230-39 ADHESIVE.

DUTY	INSULATION TYPE	THICKNESS	VAPOUR BARRIER			
PANELS BEHIND UNUSED PORTION OF LOUVRES	D-1	2"	YES			

FINAL 10' OF EXHAUST DUCT BEFORE EXITING BUILDING	D-1	1"	YES			
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EXPOSED DUCTWORK	D-1	1"	YES			
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DUCTWORK OUTSIDE OF BUILDING OR EXPOSED TO WEATHER	D-1	2"	YES			
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CONCEALED DUCTWORK UP TO TERMINAL CONTROL UNITS D-2 1" YES

CONCEALED DUCTWORK FROM AIR TERMINAL CONTROL UNIT DISCHARGE TO AIR TERMINALS EXCLUDING FLEXIBLE DUCTWORK. D-2 1" YES

PROTECT THE WORK OF THIS TRADE FROM BEING DEFACED BY OTHER TRADES. MAKE GOOD ANY DAMAGE AND LEAVE IN PERFECT CONDITION, READY FOR FINAL PAINTING.

APPLY INSULATION OVER CLEAN DRY SURFACES, FIRMLY BUTTING ALL SECTIONS TOGETHER.

FIRE PROTECTION SYSTEM

SYSTEM SHALL BE IN COMPLIANCE WITH NFPA, GOVERNING AUTHORITIES, AODA AND OWNER'S/LANDLORD'S INSURANCE UNDERWRITER. ALL COMPONENTS SHALL BE ULC LISTED.

CONTROLS

EXISTING CONTROLS WITHIN SCHOOL IS RELIABLE CONTROLS. CONTACT ADRIAN CECCHETTO (ADRIAN@SETPOINT.CA) AT SETPOINT BUILDING AUTOMATION INC. RE: CONTROLS WORK.

MOUNTING HEIGHT SHALL BE 1200 MM [4 FT. 0 IN.] FROM FINISHED FLOOR. COORDINATE LOCATION WITH DDSB. DO NOT INSTALL IN VICINITY OF ELECTRICAL LIGHTING DIMMERS.

COORDINATE FINAL LOCATION OF THERMOSTATS WITH DDSB WITHIN 100MM (40 IN) OF LOCATION SHOWN. ALL RELOCATIONS OUTSIDE OF THIS RANGE SHALL BE REVIEWED WITH THE CONSULTANT.

CLEAN AND RECALIBRATE ALL EXISTING THERMOSTATS UPON COMPLETION OF CONSTRUCTION. SUBMIT REPORT THAT THIS WORK WAS COMPLETED.

PROVIDE ALL NECESSARY EMT CONDUIT, FITTINGS AND WIRE TO PROVIDE A COMPLETE AND OPERATING CONTROL SYSTEM. HARD WIRE ALL ELECTRICAL CONTROL DEVICES INTO THE ASSOCIATED SYSTEM MAGNETIC STARTER. PROVIDE POWER TO CONTROL PANEL FROM THE NEAREST NORMAL POWER ELECTRICAL DISTRIBUTION PANEL.

REVISIONS / STATUS

01	ISSUED FOR TENDER	ME	12/17/25
No.	DESCRIPTION	BY	DATE

PROJECT: VAUGHAN WILLARD P.S. - AHU REPLACEMENT

Project No: 25-14

Scale: AS NOTED

Drawn by: GPC

Checked by: ME

Address: 1911 Dixie Rd N, Pickering, ON L1V 1V4

TITLE:

SPECIFICATIONS

HEAT EXCHANGER SCHEDULE																	
TAG	MANUFACTURER	MODEL	TYPE	COLD SIDE				HOT SIDE				WEIGHT	CAPACITY	NUMBER OF PLATES	REMARKS		
				FLUID	EFT	LFT	FLOW	PRESS. DROP	FLUID	EWT	LWT	FLOW	PRESS. DROP	LBS	MBH		
HX-2	BELL & GOSSETT	AP19	PLATE & FRAME	35% P.G.	140	160	60	3.6	WATER	170	150	57	3.5	510	561,758	30	PLATE MATERIAL TO BE 304 S/S
BASIS OF DESIGN: XYLEM-BELL GOSSETT. ACCEPTABLE ALTERNATES: ARMSTRONG, ALFA LAVAL																	

CONDENSER UNIT SCHEDULE																
TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	REFRIGERANT TYPE	REFRIGERANT CHARGE	TOTAL REFRIGERATION EFFECT	ELECTRICAL	FLA	MCA	MOCP	WEIGHT	REMARKS			
CDU-1	ROOF	AHU-1	DAIKIN	RCS020D	R410A	18.5	263,672	575/3/60		36.1	45	1,895				

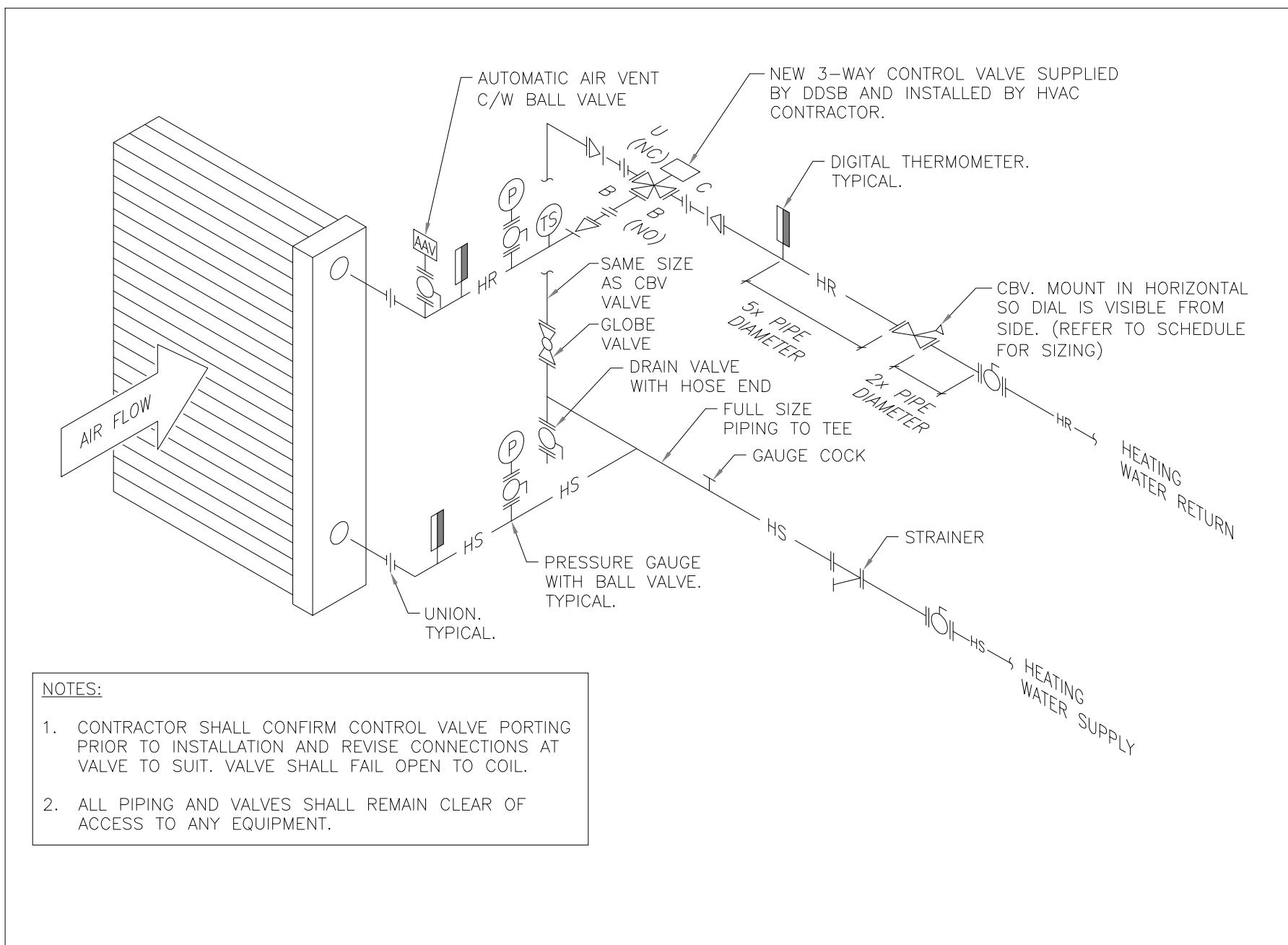
COOLING COIL SCHEDULE																			
TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	AIRFLOW	EXTERNAL STATIC PRESSURE	FAN MOTOR	MIN. OUTSIDE AIR	COOLING				ELECTRICAL	FLA	MCA	MOCP	REMARKS		
									TYPE	TOTAL	SENSIBLE	EAT (DB/WB)	LAT (DB/WB)						
AHU-1 (EXISTING)	MECH RM. 169	NORTH CLASSROOMS	ENG. AIR	EXISTING	8,500		EXISTING	4,250	PACKAGED DX HEAT PUMP	263,000	196,000	77.5/65	56.4/54.8	EXISTING					ANU-1 IS AN EXISTING UNIT WITH PROVISION FOR FUTURE DX COOLING COIL WHICH IS TO BE INSTALLED DURING THIS PROJECT SCOPE.

AHU SCHEDULE																									
TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	AIRFLOW	EXTERNAL STATIC PRESSURE	FAN MOTOR	MIN. OUTSIDE AIR	HEATING				ELECTRICAL	FLA	MCA	MOCP	REMARKS								
									HOT WATER HEAT CAPACITY	FLUID	FLOW RATE	PRESS. DROP	EAT	LAT	EWT	LWT	GPM	FT. H2O	DEG. F	DEG. F	DEG. F	V/PH/HZ	AMPS	AMPS	AMPS
AHU-4	MECH RM. 201	GYM	DAIKIN	CAH008GHDM	4,500	1	3	2,200	224,600	35% P.G.	25.2	6	34	80.7	160	140	208/3/60								

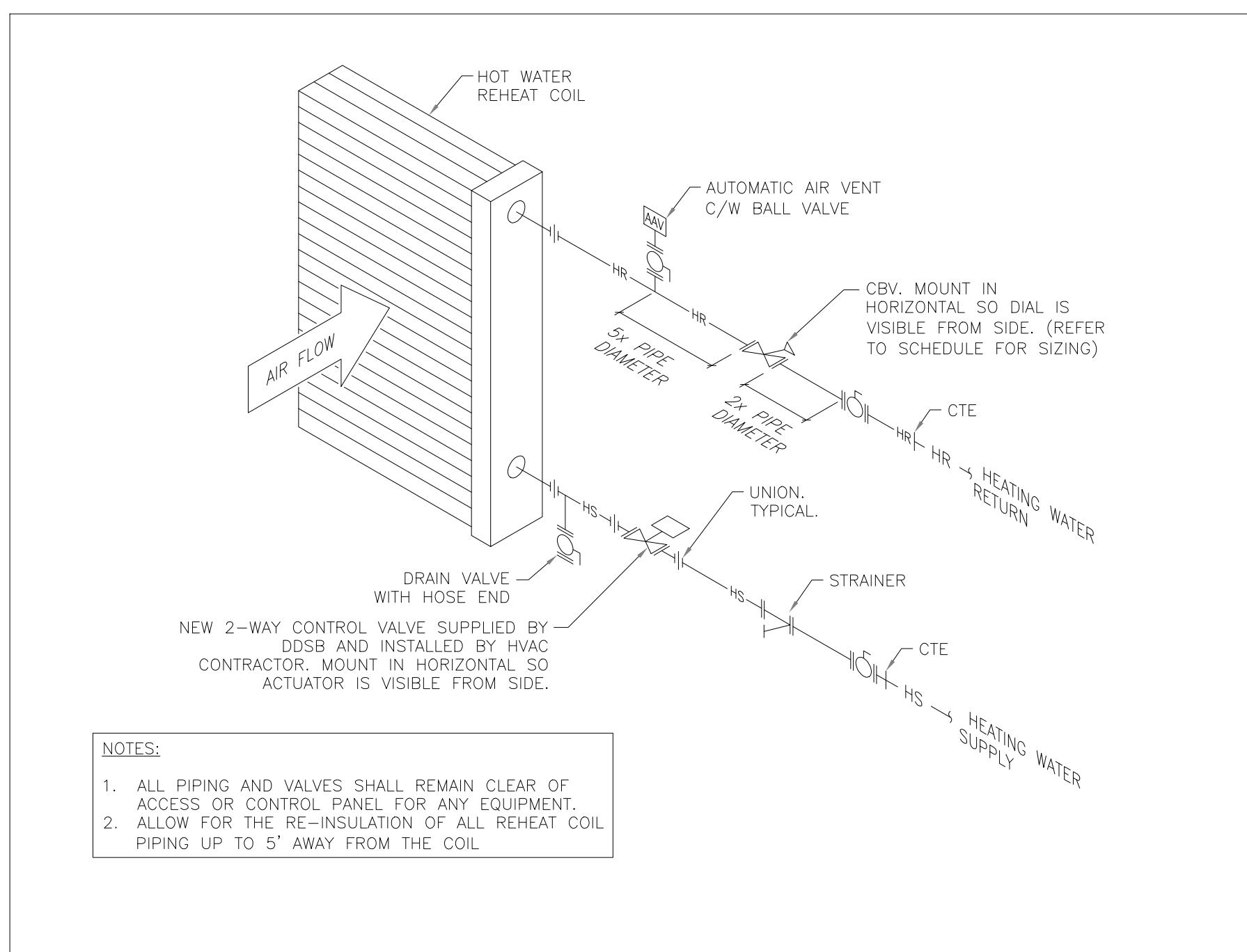
RTU SCHEDULE																																						
TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	DISCHARGE	RETURN	AIRFLOW	EXTERNAL STATIC PRESSURE	FAN MOTOR	MIN. OUTSIDE AIR	EXTERNAL STATIC PRESSURE	FAN MOTOR	COOLING				HEATING (FROM HEAT PUMP)				REHEAT COIL (IN MECH. RM.)				ELECTRICAL	FLA	MCA	MOCP	WEIGHT	REMARKS								
													TYPE	TOTAL	SENSIBLE	EAT (DB/WB)	LAT (DB/WB)	AMBIENT AIR TEMP	TOTAL CAPACITY	REFRIGERANT	EAT	LAT	AMBIENT AIR TEMP	TAG	HOT WATER HEAT CAPACITY	FLUID	FLOW RATE	PRESS. DROP	EAT	LAT	EWT	LWT	DEG. F	DEG. F	DEG. F	BTU/HR	GPM	FT. H2O
RTU-3	ROOF	SOUTH CLASSROOMS	DAIKIN	DPSH20B	HORIZONTAL	HORIZONTAL	6,800	3	6.1	2,800	0.5	4.3	PACKAGED DX HEAT PUMP	234,141	179,115	81.2/67.7	55.3/55.3	95	233,000	R32	70	100.6	47	RHC-RTU-3	337,450	35% P.G.	34.8	13.4	41	86.4	160	140	208/3/60	116.4	128	150	3,870	24" ROOF CURB FOR RTU. HOT WATER REHEAT COIL TO BE LOCATED IN MECH. RM. 201

EXPANSION TANK SCHEDULE											
TAG	DUTY	MODEL	TANL VOLUME	ACCEPTANCE VOLUME	FACTORY PRE-CHARGE	MAX. WORKING PRESSURE	DIAMETER	HEIGHT	REMARKS		
US GAL.	US GAL.	PSI	PSI	IN.	IN.						

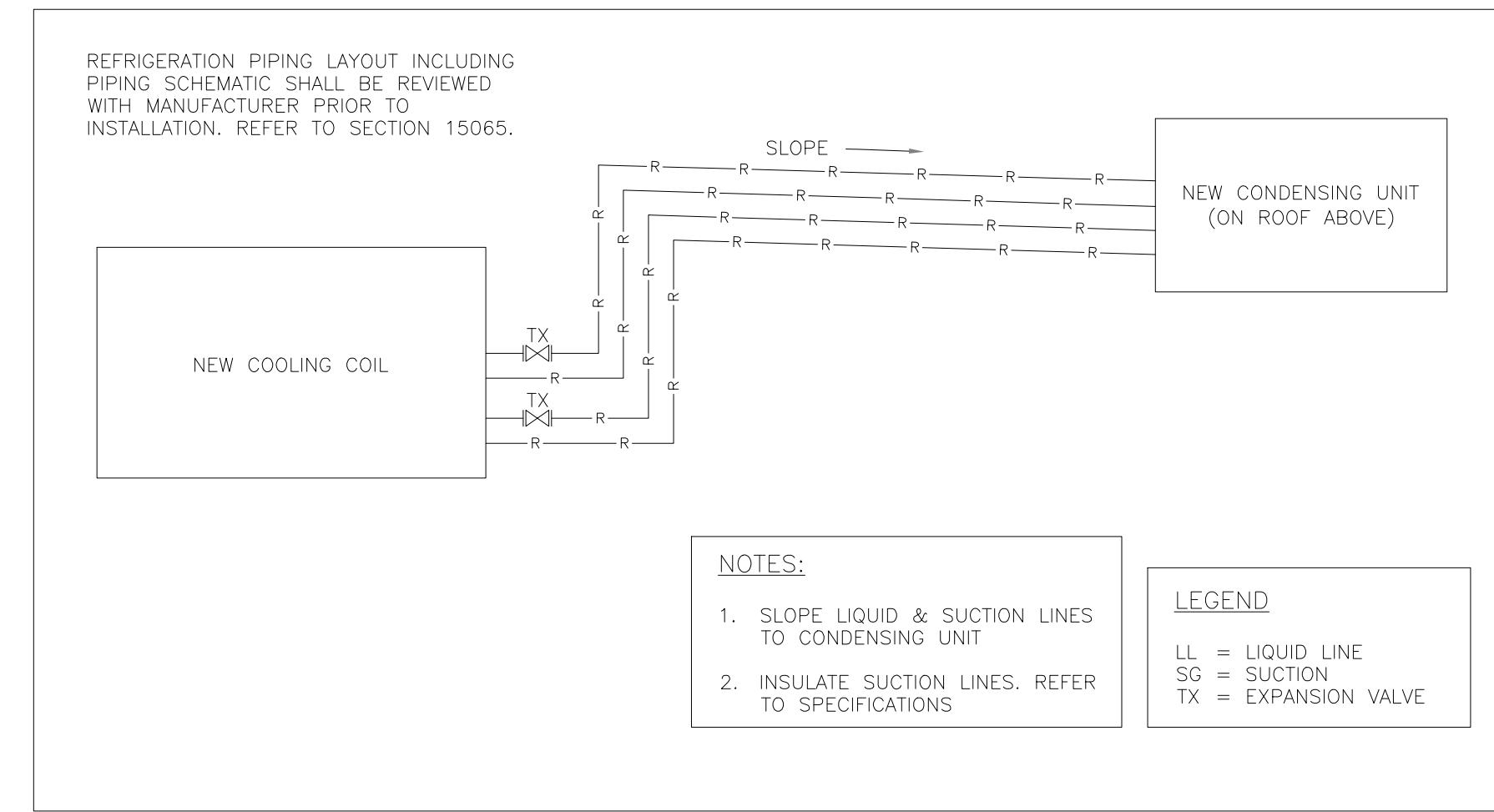
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1 AIR HANDLING UNIT HOT WATER HEATING COIL DETAIL C/W 3-WAY VALV
M-103 N.T.S.



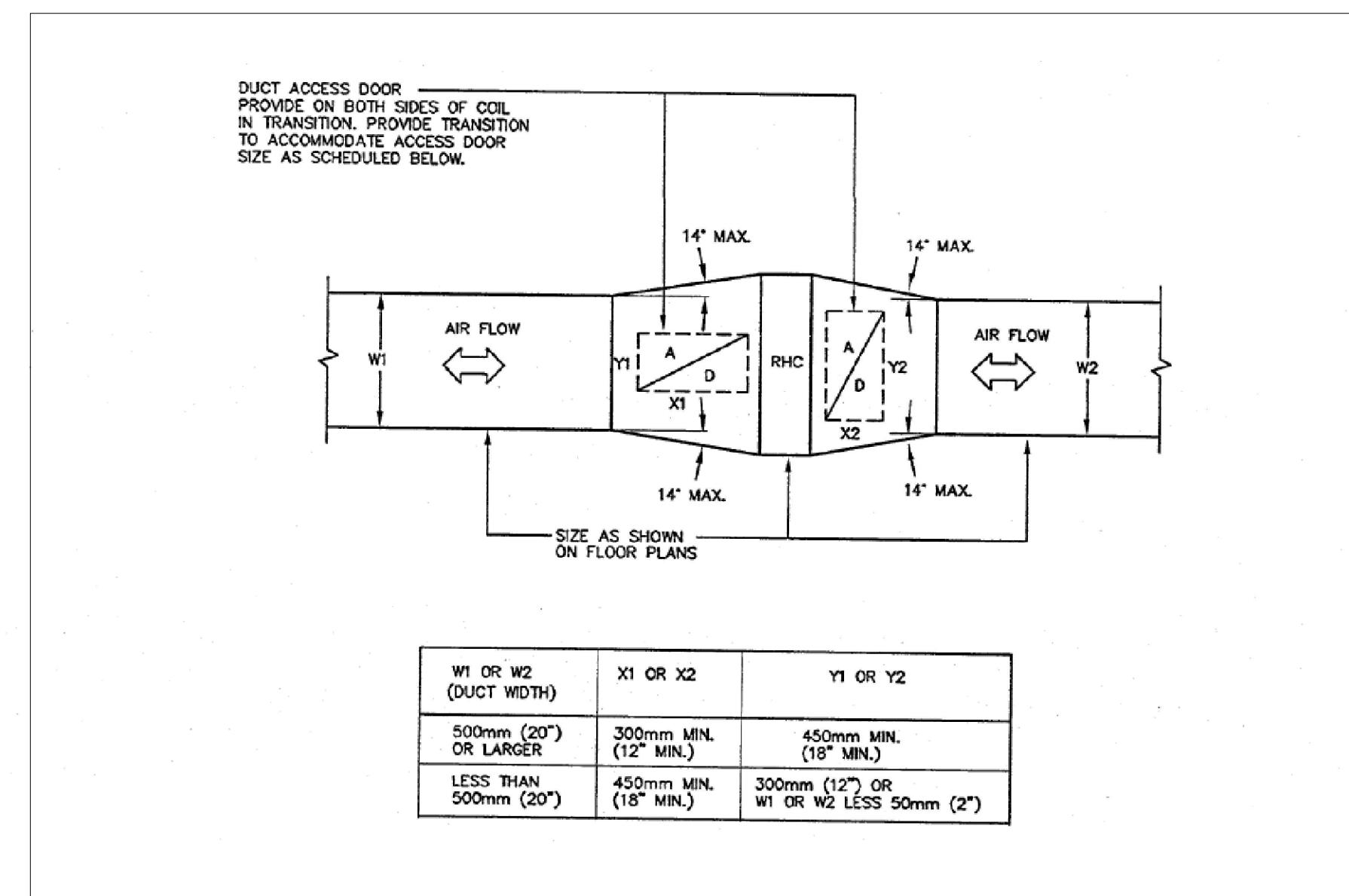
2 HOT WATER REHEAT COIL DETAIL C/W 2-WAY VALVE
M-103 N.T.S.



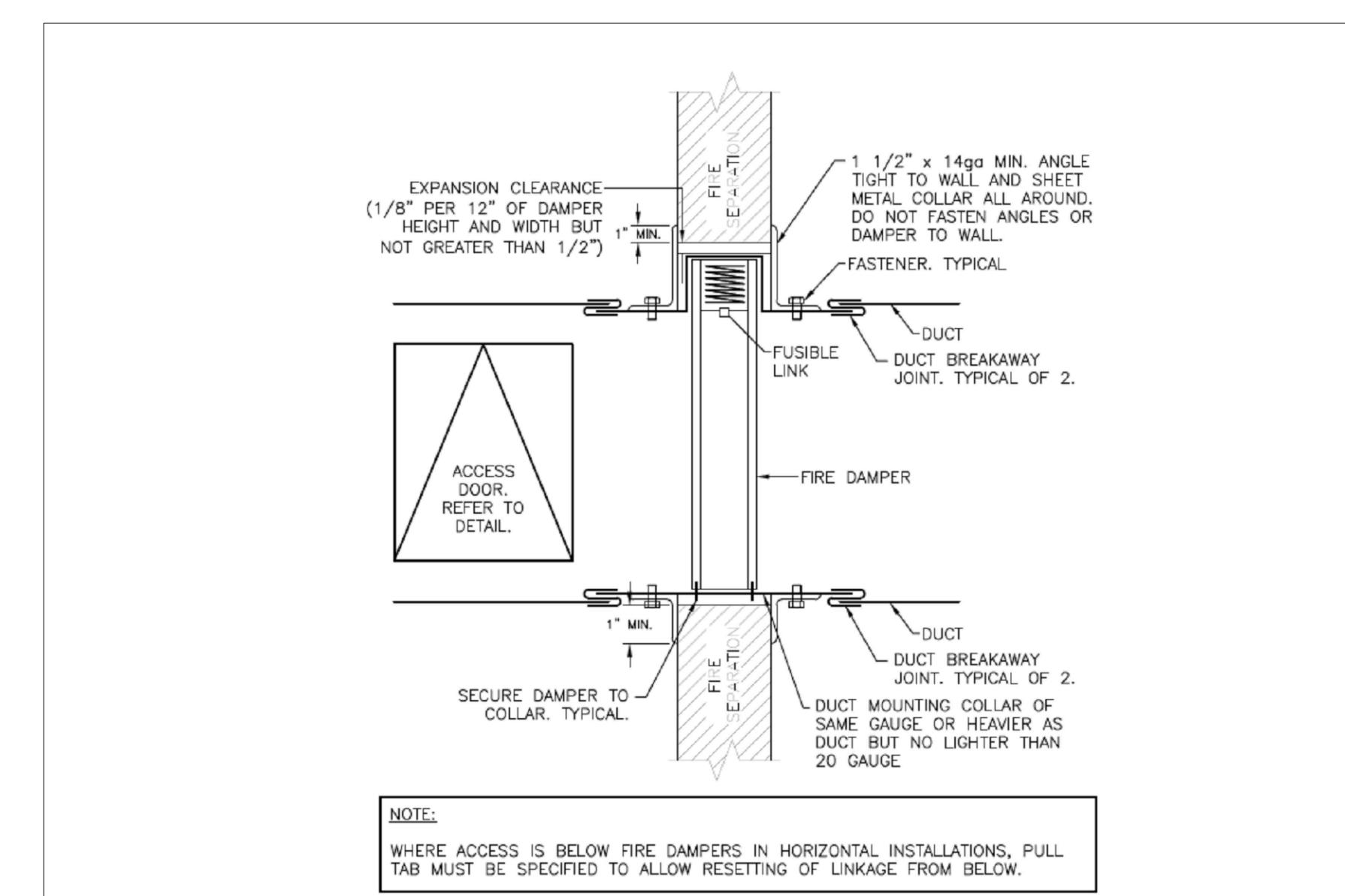
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M-103

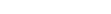
REFRIGERATION PIPING DETAIL

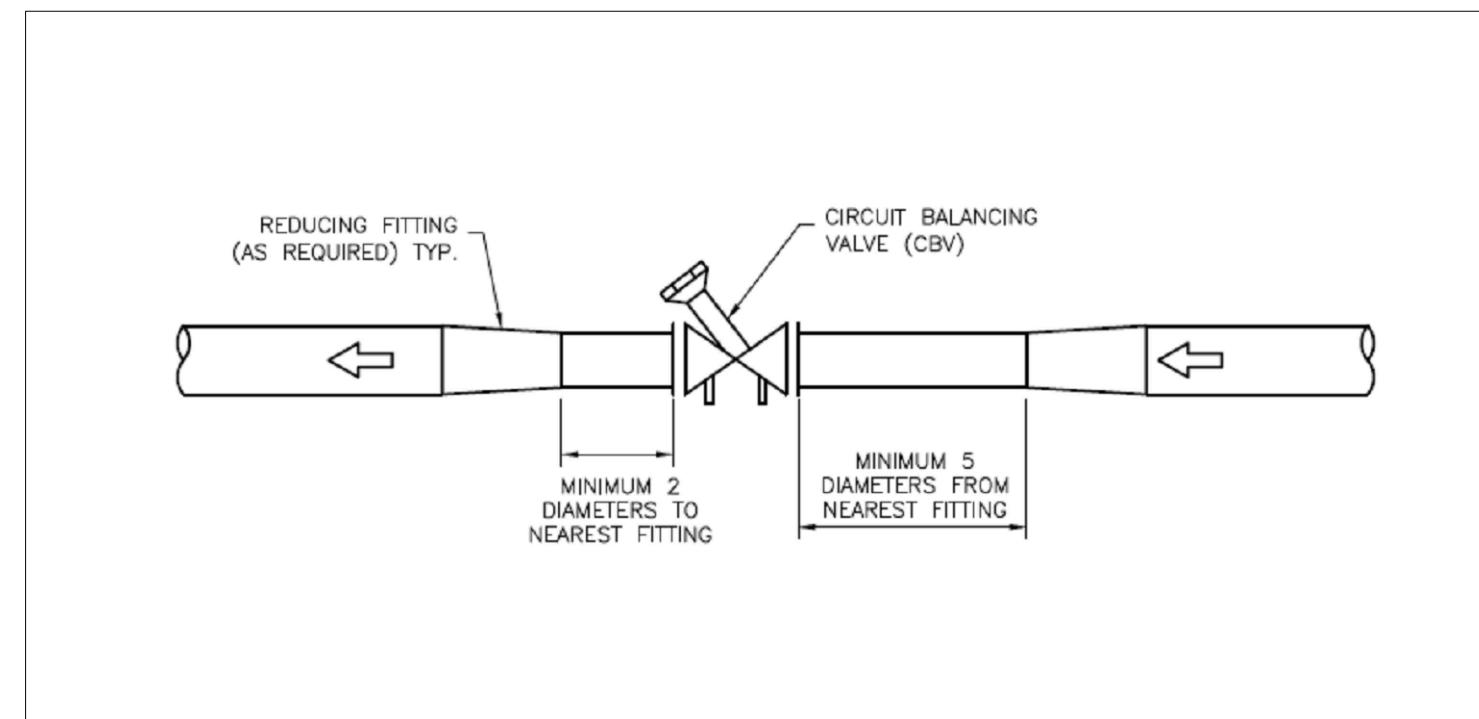
N.T.S.



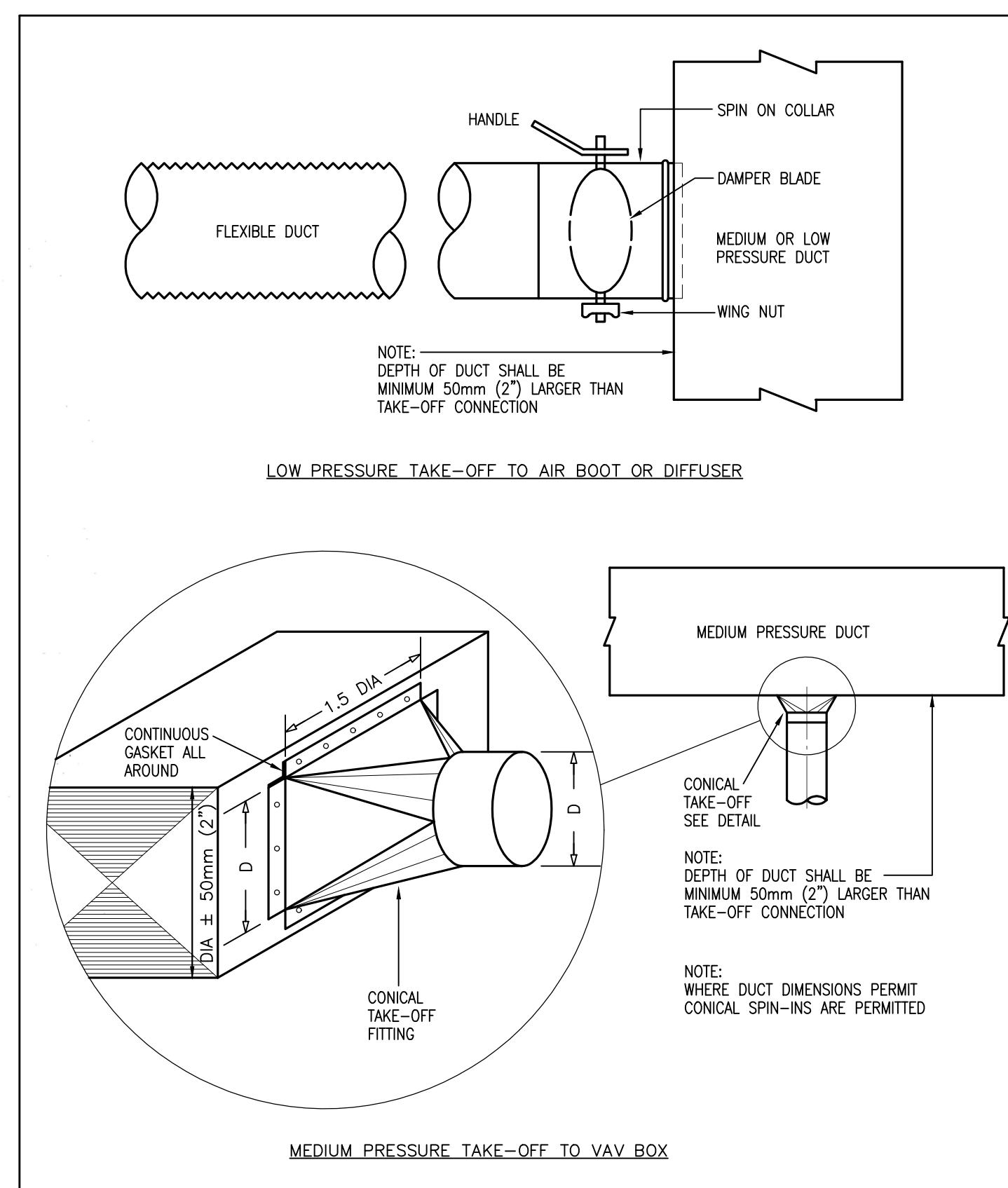
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M-103 REHEAT COIL MOUNTING DETAIL (PLAN VIEW)
N.T.S.



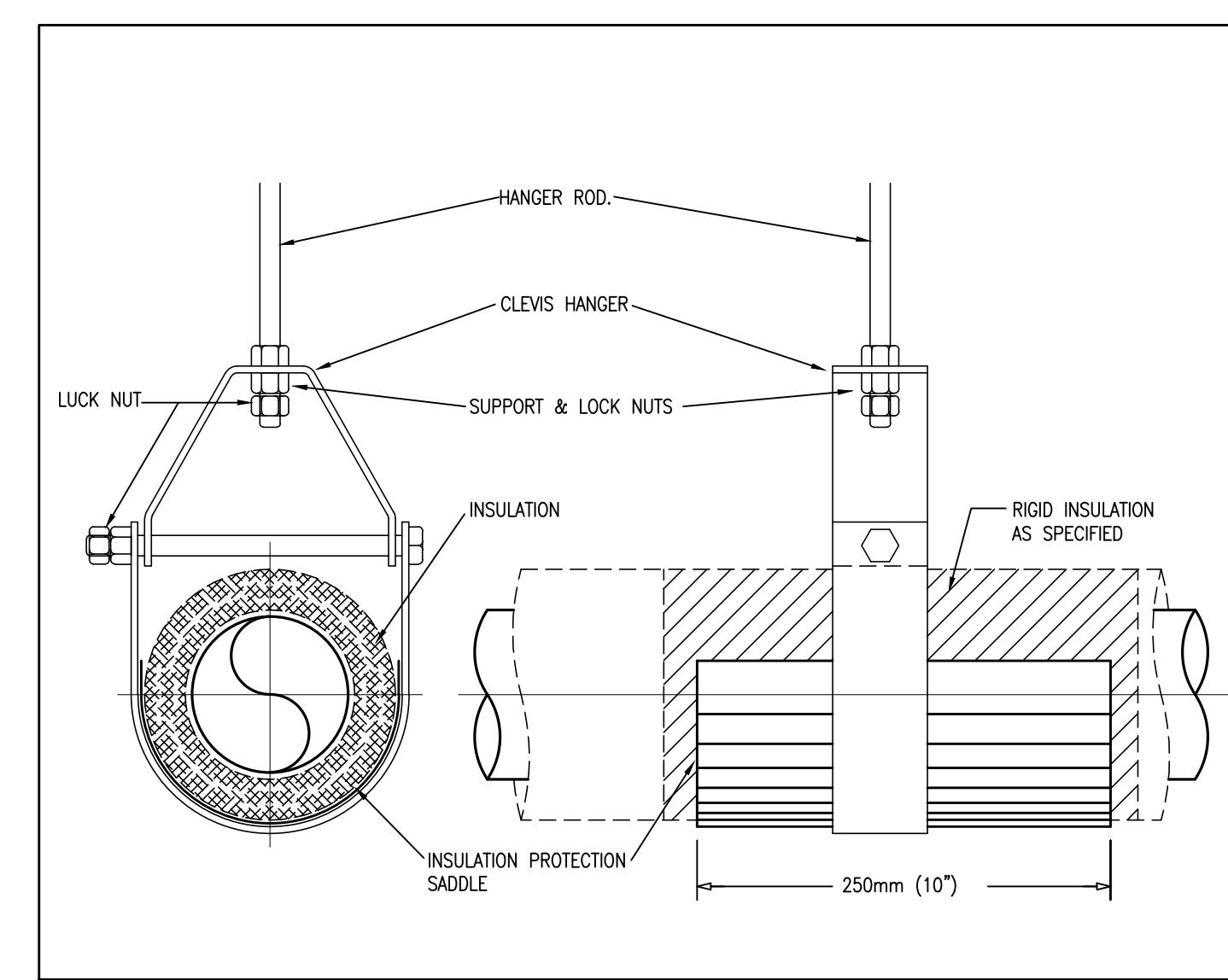
 FIRE DAMPER DETAIL
N.T.S.



5
M-103 CIRCUIT BALANCING VALVE INSTALLATION DETAIL
N.T.S.



7 DUCT TAKE-OFF
M-103 NTS



PROJECT: **VAUGHAN WILLARD P.S.**

See also **AS NOTED**

Drawn by: _____ CRC _____

Checked by: MF

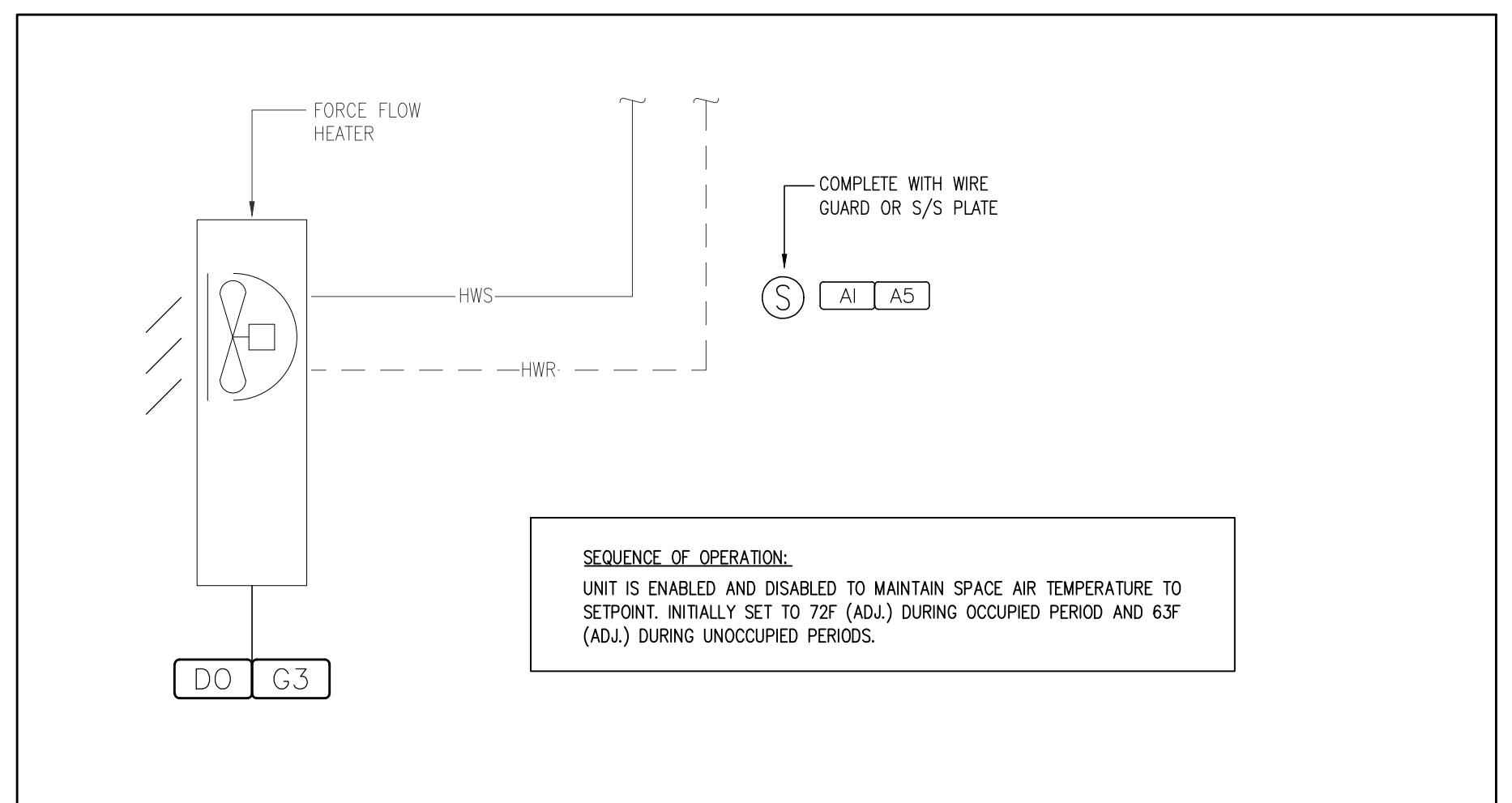
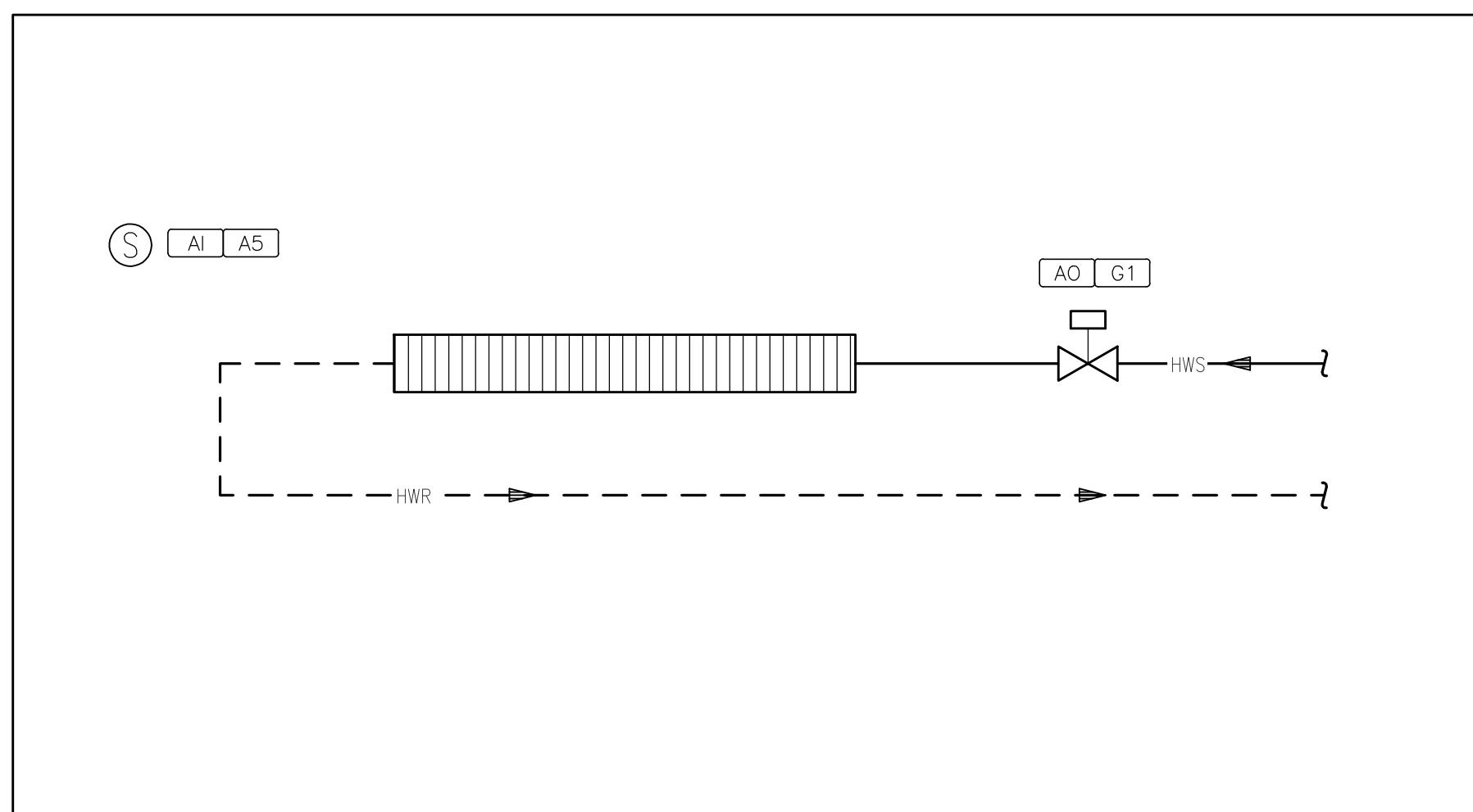
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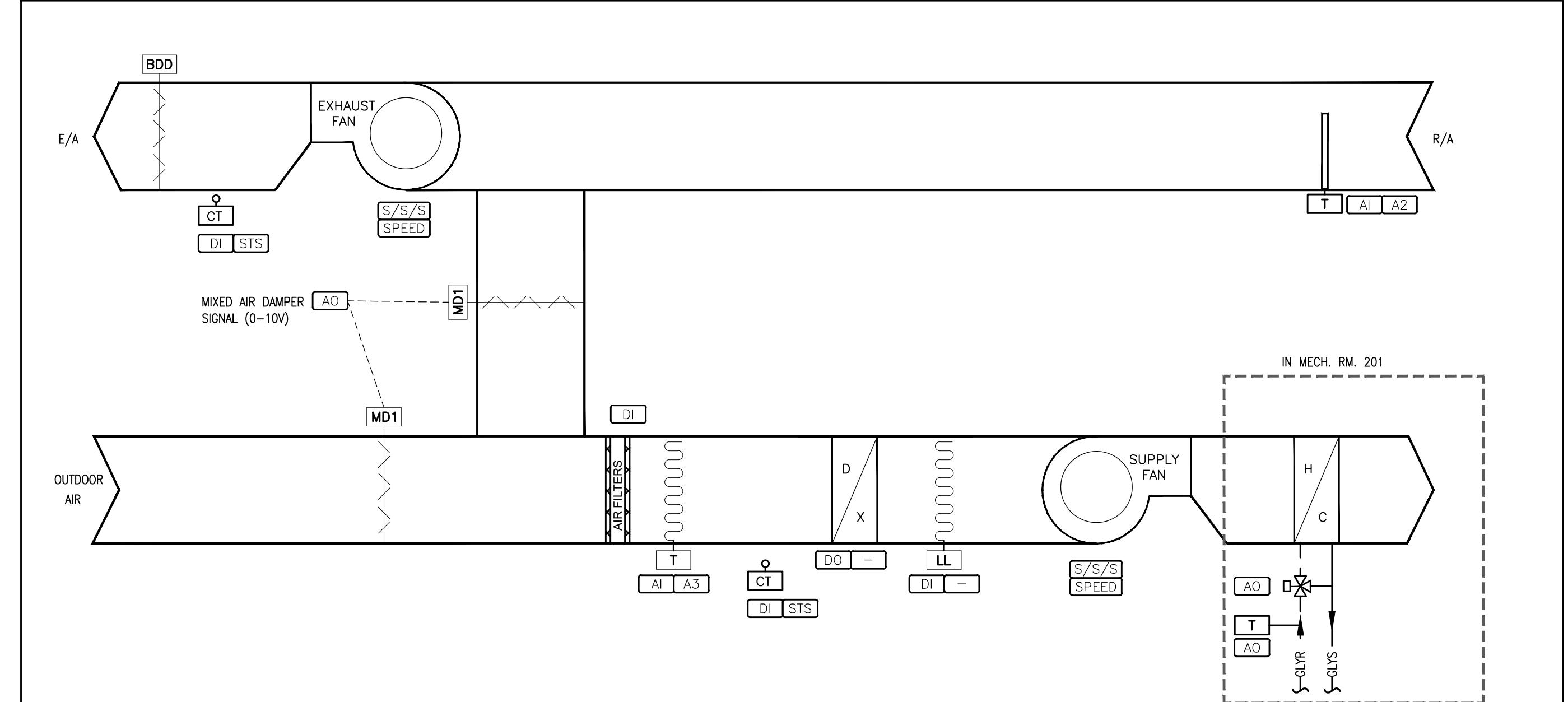
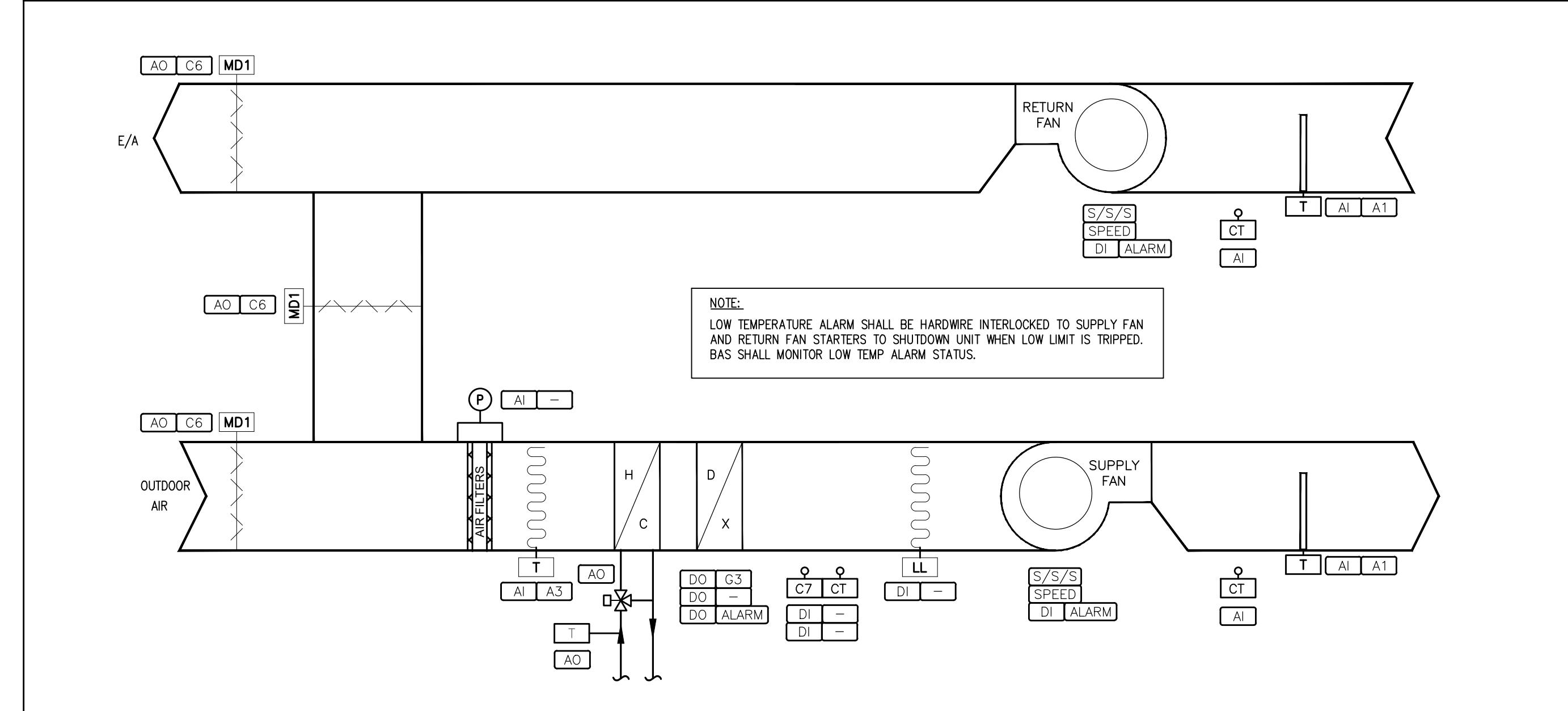
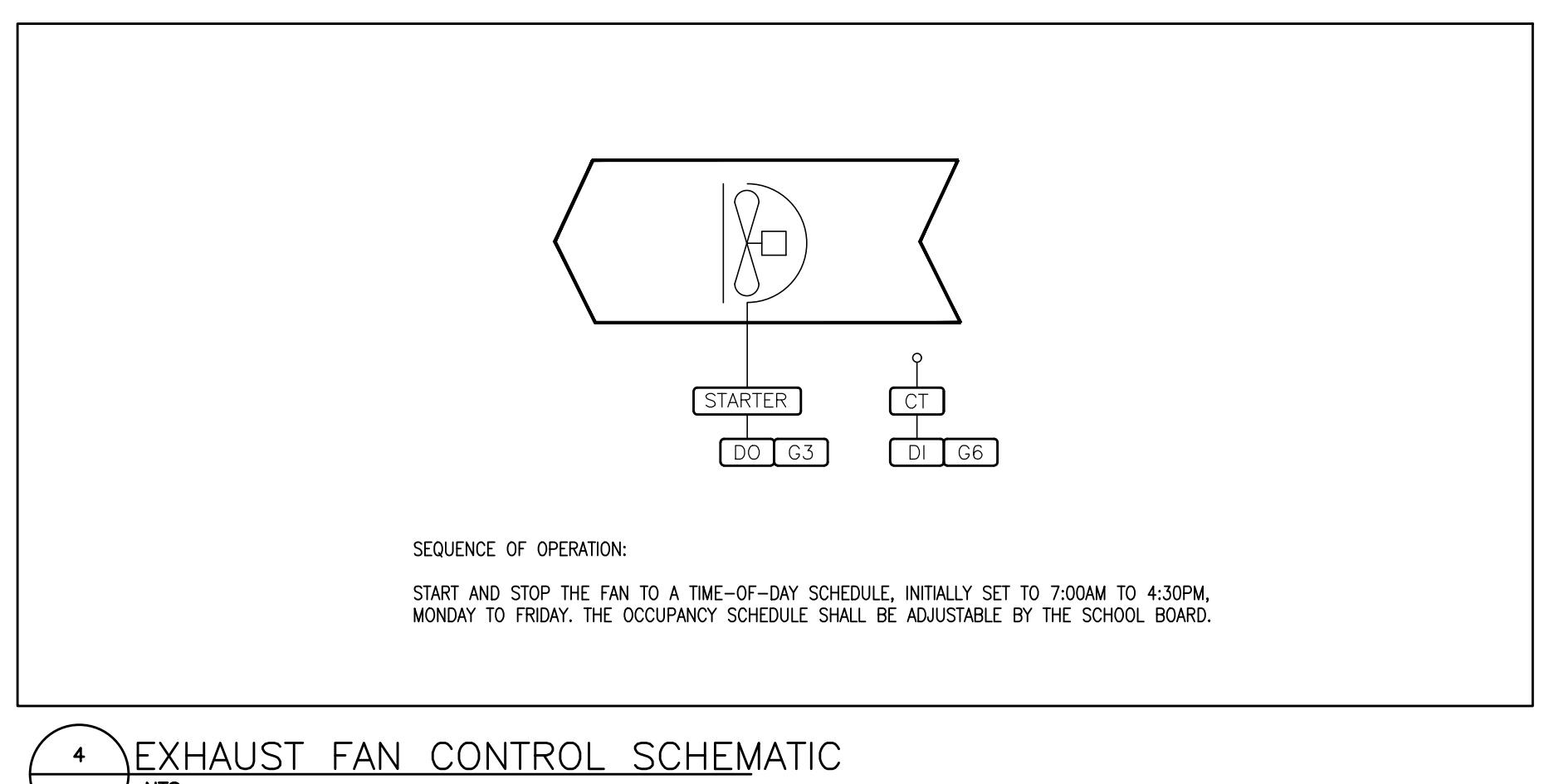
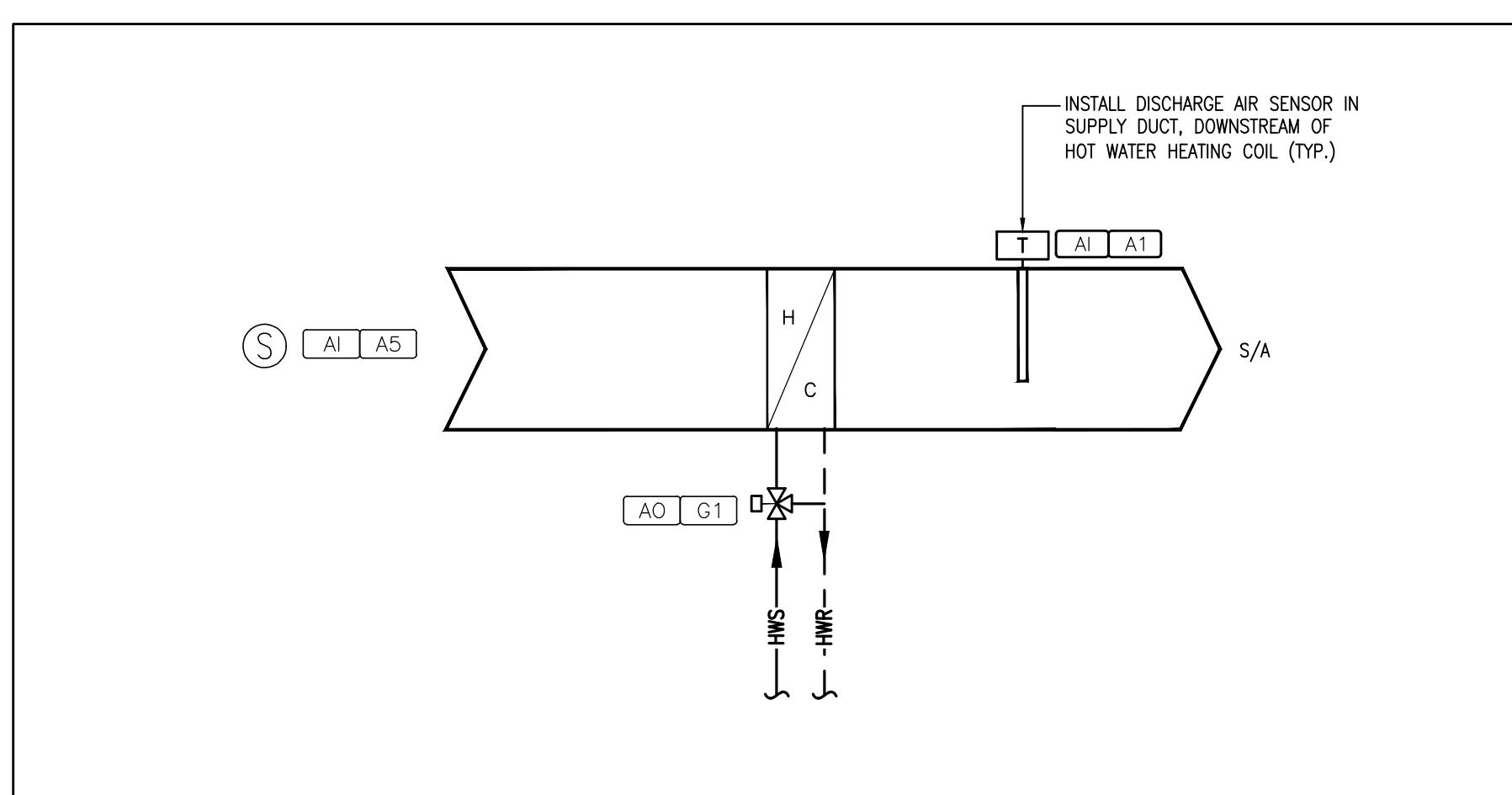
11. *What is the primary purpose of the following statement?*

DETAILS

TING No:



CONTROL LEGEND	
SENSOR AND INSTRUMENT CODES	ABBREVIATIONS
A1 TEMPERATURE SENSOR, DUCT MOUNTED	AIJ
A2 TEMPERATURE SENSOR, DUCT MOUNTED	AI
A3 TEMPERATURE SENSOR, AVERAGING ELEMENT	AO
A4 TEMPERATURE SENSOR, OUTSIDE AIR TYPE	BAS
A5 TEMPERATURE SENSOR, ROOM TYPE	CACF
A6 TEMPERATURE SENSOR, LOW LIMIT	CHWS
A7 TEMPERATURE SENSOR, HIGH LIMIT	CHWR
B1 HUMIDITY SENSOR, DUCT MOUNTED	CLG
B2 HUMIDITY SENSOR, ROOM TYPE	CWS
B3 HUMIDITY SENSOR, OUTSIDE AIR TYPE	CWR
B5 HUMIDITY SENSOR, HIGH LIMIT TYPE	DI
C1 DIFFERENTIAL PRESSURE	DO
C2 PRESSURE SENSOR	DIP
C3 STATIC PRESSURE SENSOR	DS
C4 PRESSURE SWITCH	EAT
C5 WATER LEVEL SWITCH	EF
C6 DAMPER STATUS SWITCH	EWT
C7 AIR VOLUME	FPVAV
C8 PULSED OUTPUT FROM POWER METER	FCS
C9 PULSED OUTPUT FROM WATER METER	FCT
C10 EMMERSION HEATER ON/OFF	FGR
C11 CURRENT SENSOR	FCU
C12 CO ₂ SENSOR	FS
C02 CARBON DIOXIDE SENSOR	HE
C0 CARBON MONOXIDE SENSOR	HWS
D1 MOTOR CONTROL RELAYS, START/STOP/STATUS TYPE	HWR
D2 CURRENT TRANSFORMER AND RELAYS	HTG
D3 MOTOR STATUS CONTACTS	LL
D4 DIFFERENTIAL PRESSURE SWITCH	LWT
D5 LEVEL SWITCH, TANK MOUNTED	MAT
D6 LEVEL SWITCH, FLOAT TYPE	MARH
D7 DIFFERENTIAL PRESSURE TRANSMITTER	OA
D8 CURRENT SENSITIVE RELAY	RA
D9 LEVEL TRANSMITTER	RARH
K1 WATERFLOW TRANSMITTER, ANNULAR TYPE	RAT
K2 WATERFLOW TRANSMITTER, TURBINE TYPE	RF
K3 AIRFLOW TRANSMITTER, DIGITRON TYPE	RTT
K4 AIRFLOW TRANSMITTER, ANNULAR AIRBAR	SA
K5 ENERGY METER, DELTA T AND FLOW	SARH
K6 GAS DETECTOR	SAT
F1 INTERFACE CONTACT TO CACF	SF
F2 VIBRATION DETECTOR	SP
F3 INTERFACE CONTACT	ST
F4 INTERFACE TO HOOD SUPPRESSION	STS
G1 OUTPUT TO VALVE	TUC
G2 OUTPUT TO DAMPER	VAV
G3 STATUS/STOP/START RELAY	
G4 OUTPUT TO VSD	
G5 FAULT INPUT	
G6 STATUS	
G7 VIBRATION CUT-OUT	
G8 ELECTRICAL POWER CONSUMPTION	
AO C6 SENSOR CODE SIGNAL TYPE	
S/S/S START/STOP/STATUS RELAYS FOR MOTOR CONTROL	
S/S START/STOP RELAYS FOR MOTOR CONTROL	
3-WAY CONTROL VALVE NORMALLY CLOSED PORT	
AO C6 DAMPER CONTROL (AO) WITH DAMPER END SWITCH WIRE SWITCH TO CACF & STARTER MONITOR OPEN AND CLOSED POSITION	
AO C6 ANALOG OUTPUT TO CONTROLLED DEVICE WITHOUT ADDITIONAL SENSORS	



01	ISSUED FOR TENDER	ME	12/17/25
No. DESCRIPTION BY DATE			



PROJECT:
VAUGHAN WILLARD P.S.
- AHU REPLACEMENT

Project No: 25-14

Scale: AS NOTED

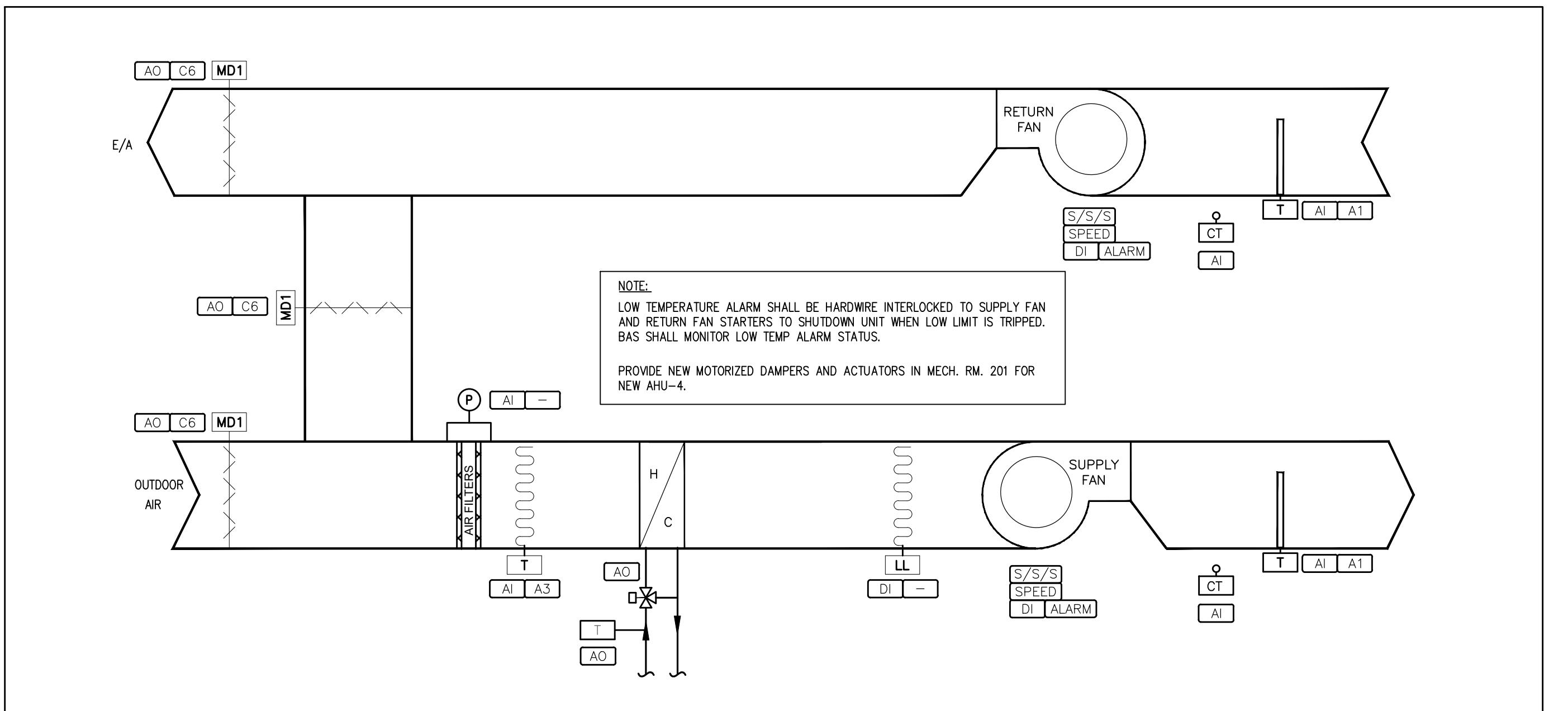
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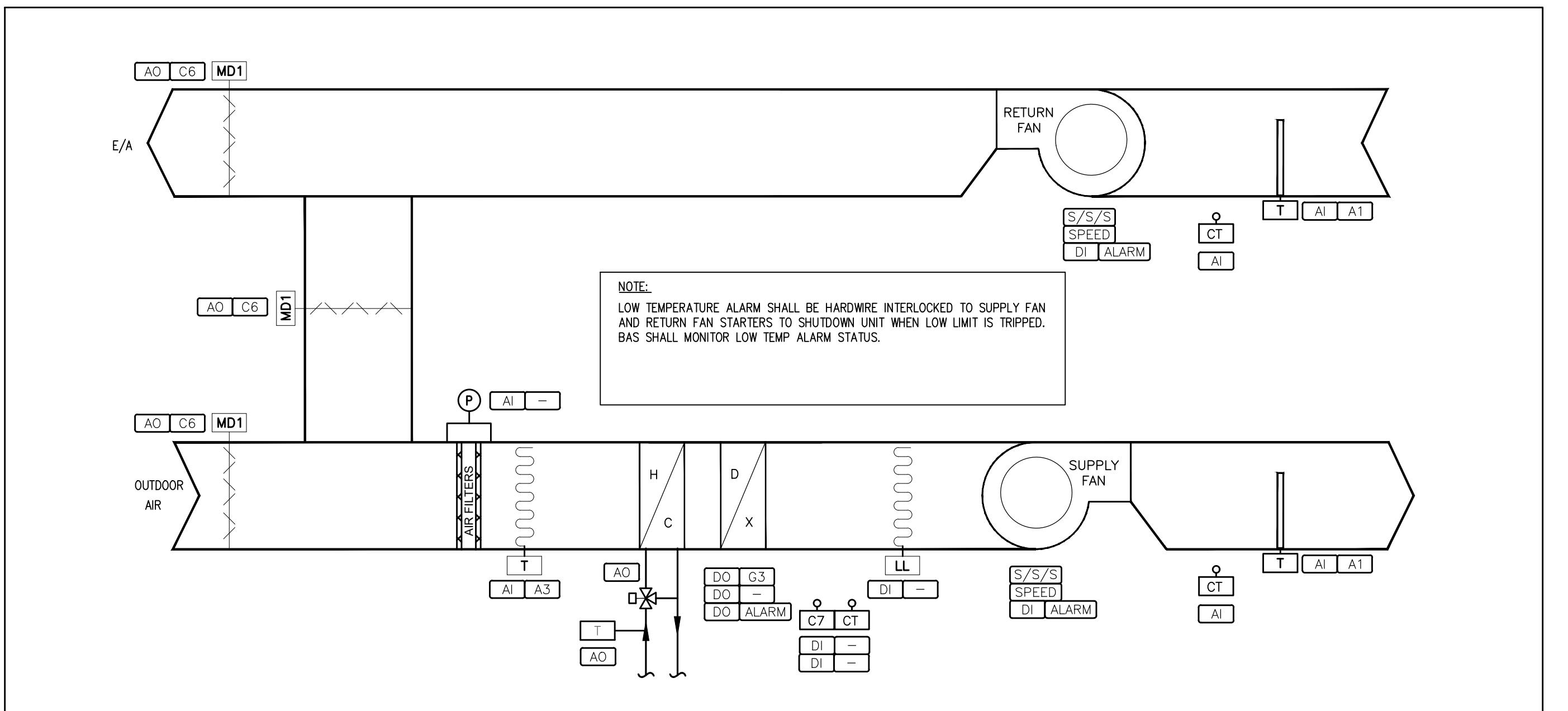
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Title:

CONTROLS & CONTROL DETAILS



1 AHU-4 (GYM) CONTROL SCHEMATIC
M-105 N.T.S.



2 AHU-1 CONTROL SCHEMATIC
M-105 N.T.S.

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VAUGHAN WILLARD P.S.
- AHU REPLACEMENT

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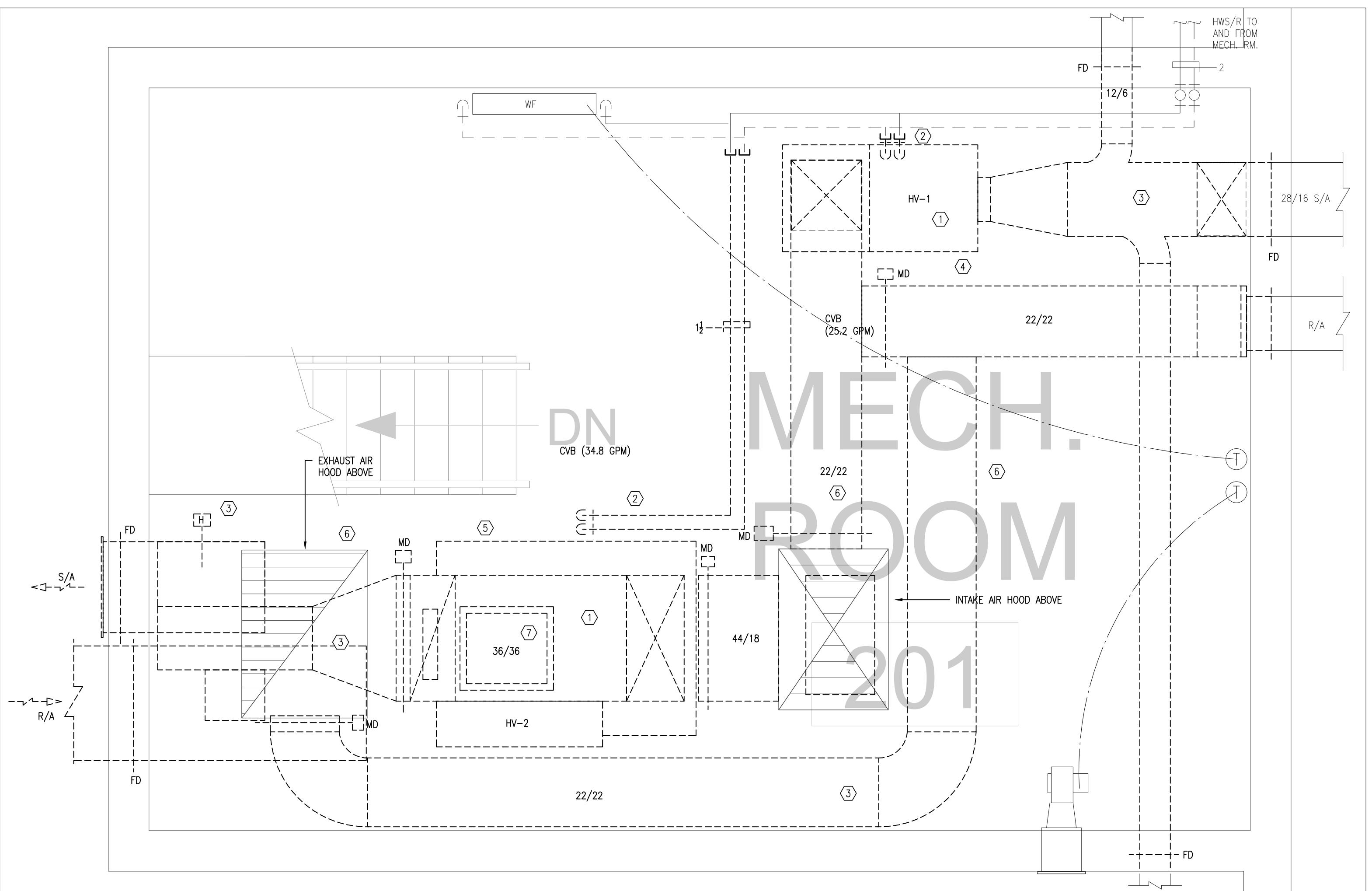
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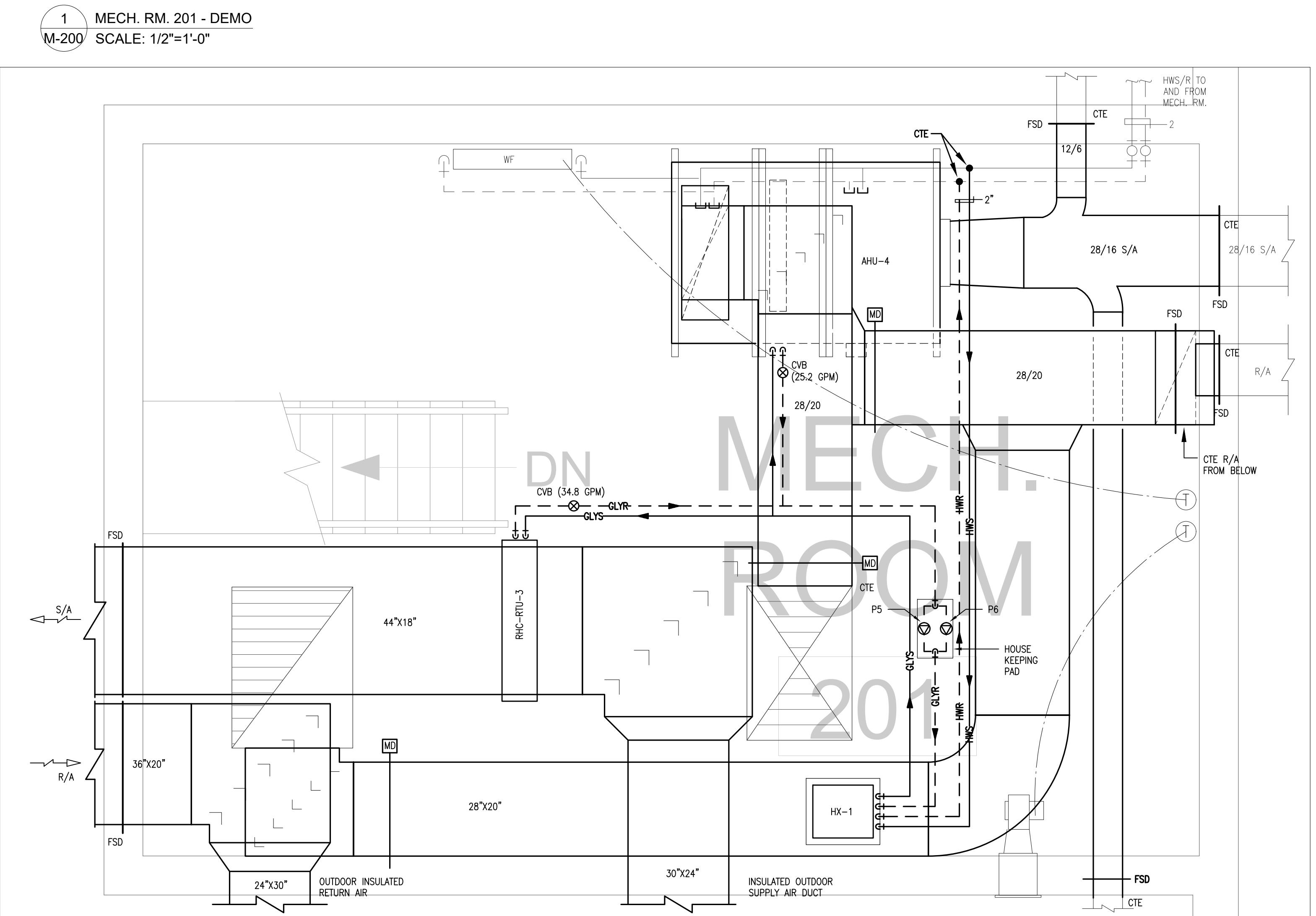
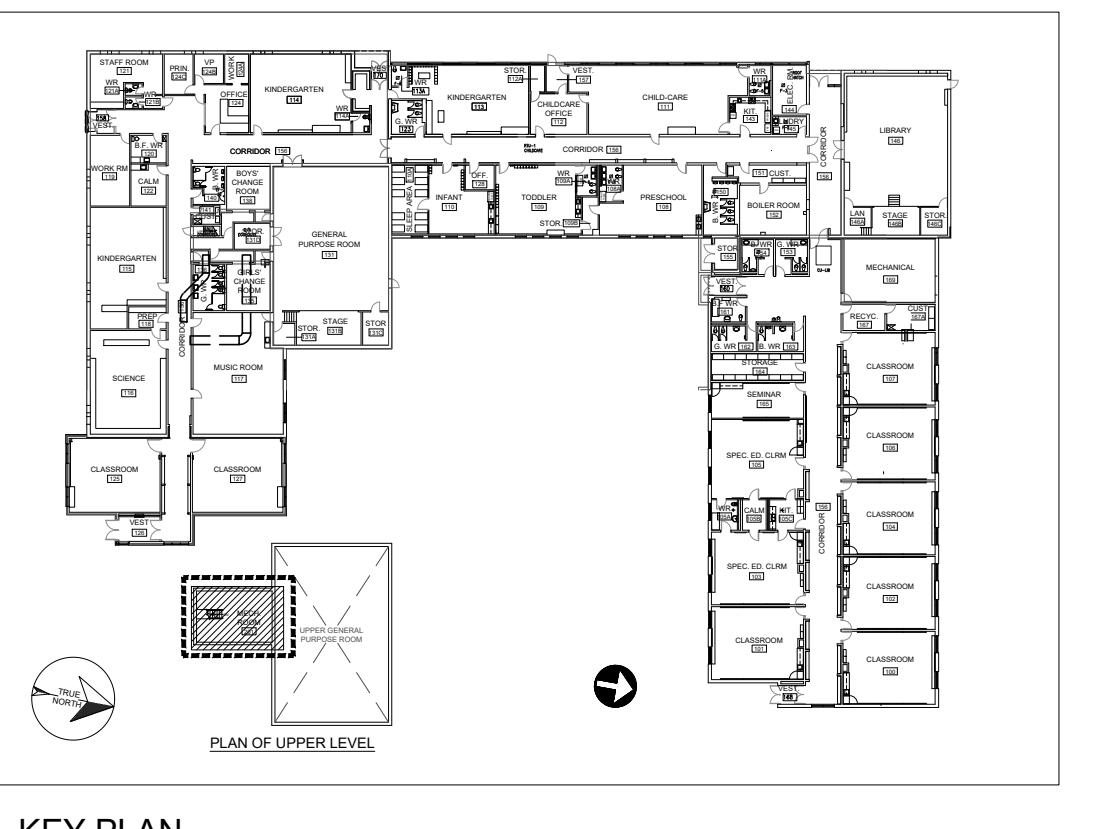
CONTROLS & CONTROL DETAILS

DRAWING No:



KEYED NOTES:

- ① REMOVE EXISTING AIR HANDLING UNIT COMPLETE WITH DUCT CONNECTIONS, HANGERS, SUPPORTS, AND ALL ACCESSORIES. REMOVE EXISTING CONTROLS AND CONTROL WIRING ASSOCIATED.
- ② REMOVE EXISTING HEATING PIPING TO AHU, INCLUDING ALL VALVES AND ACCESSORIES AS SHOWN ON DRAWINGS. TURN CONTROL VALVES AND ACTUATORS OVER TO DDSB.
- ③ REMOVE SUPPLY AIR AND RETURN AIR DUCTWORK (AS SHOWN) UP TO FIRE DAMPERS AT PENETRATION OF MECHANICAL ROOM WALLS. REMOVE MOTORIZED DAMPERS, REMOVE FIRE DAMPERS.
- ④ REMOVE EXISTING HOUSEKEEPING PAD FOR HV-1. MAKE FLOOR LEVEL AS REQUIRED TO SUIT NEW HOUSEKEEPING PAD.
- ⑤ REMOVE EXISTING HOUSEKEEPING PAD FOR HV-2. PATCH FLOOR AND MAKE LEVEL.
- ⑥ REMOVE EXISTING OUTSIDE AIR AND EXHAUST AIR DUCTWORK UP FROM AHU, THROUGH MECHANICAL ROOM, AND UP TO PENETRATION AT ROOF COMPLETE WITH DAMPERS, ACTUATORS, AND CONTROL WIRING. EXISTING ROOF HOODS AND INITIAL DUCTWORK PLENUM BEFORE DAMPERS TO REMAIN AND BE REUSED.
- ⑦ REMOVE ANY REMAINING HUMIDIFIER COILS, COMPONENTS, PIPING, WIRING, ETC. FROM ABANDONED HUMIDIFIER.



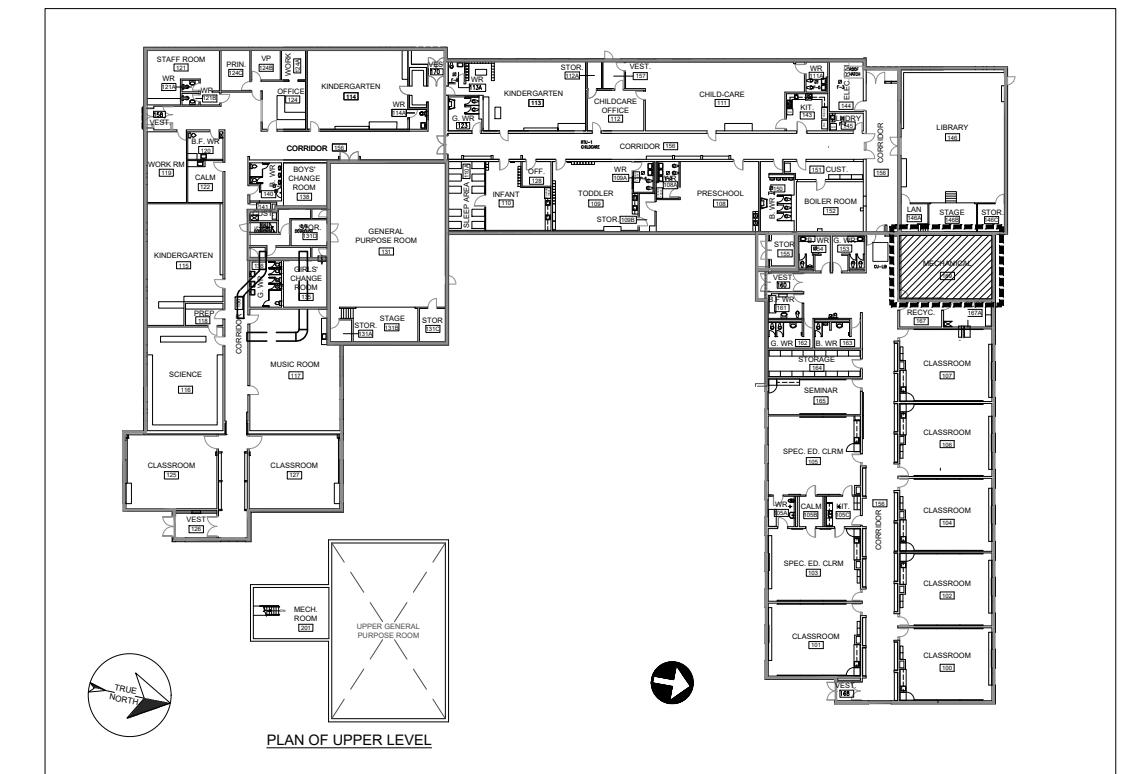
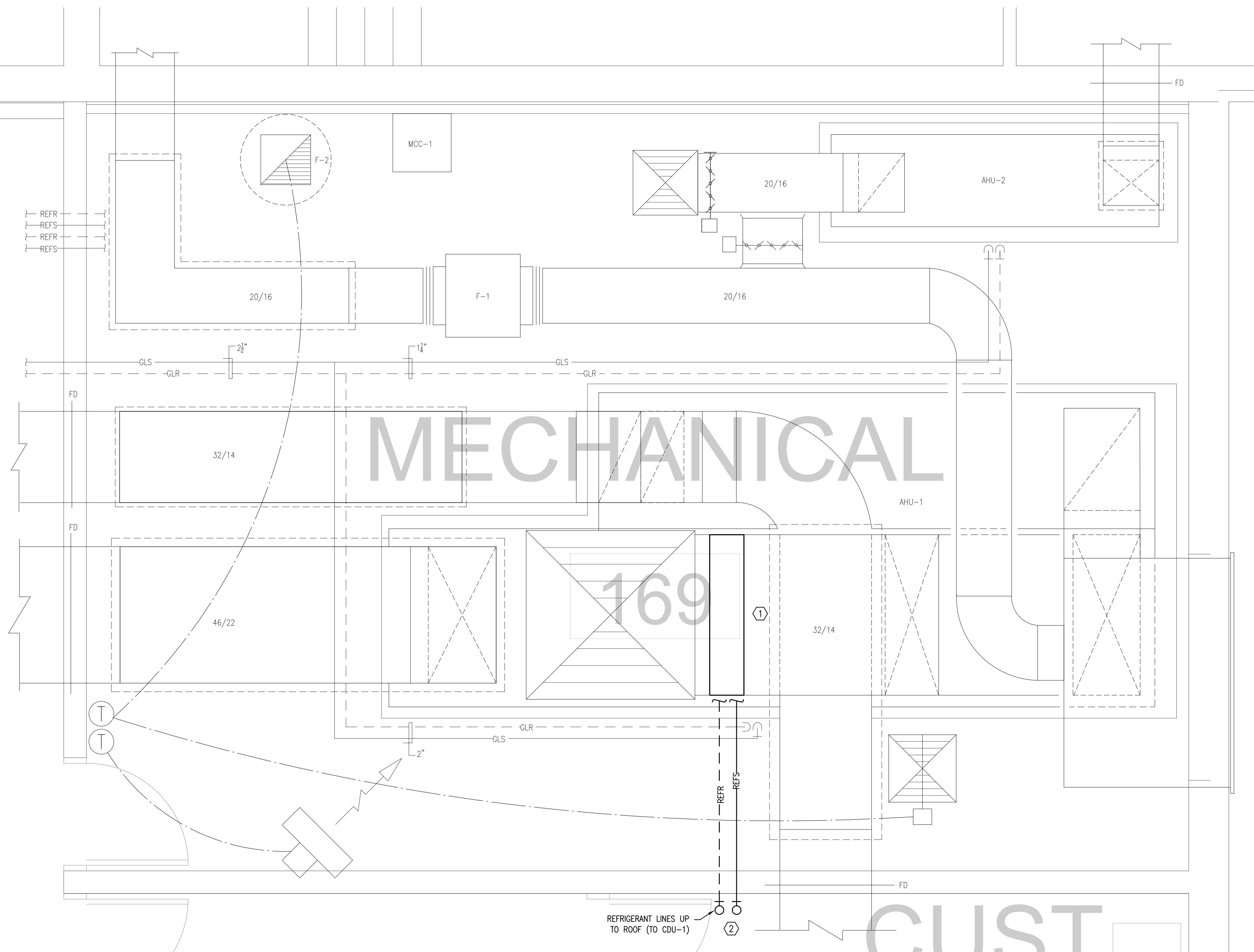
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- AHU REPLACEMENT

Project No: 25-14

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Checked by: ME
Address: 1911 Dixie Rd N, Pickering, ON L1V 1V4
TITLE: MECHANICAL ROOM 201 - DEMO/NEW



KEYED NOTES:

① INSTALL NEW DX COOLING COIL AS PER SCHEDULE WITHIN EXISTING AHU-1.

② REFRIGERANT LINES FROM NEW DX COOLING COIL TO NEW CDU-1 ON ROOF. PROVIDE DOORHOUSE STRUCTURE ON ROOF. REFER TO ROOF PLAN M-400 FOR FURTHER DETAILS.

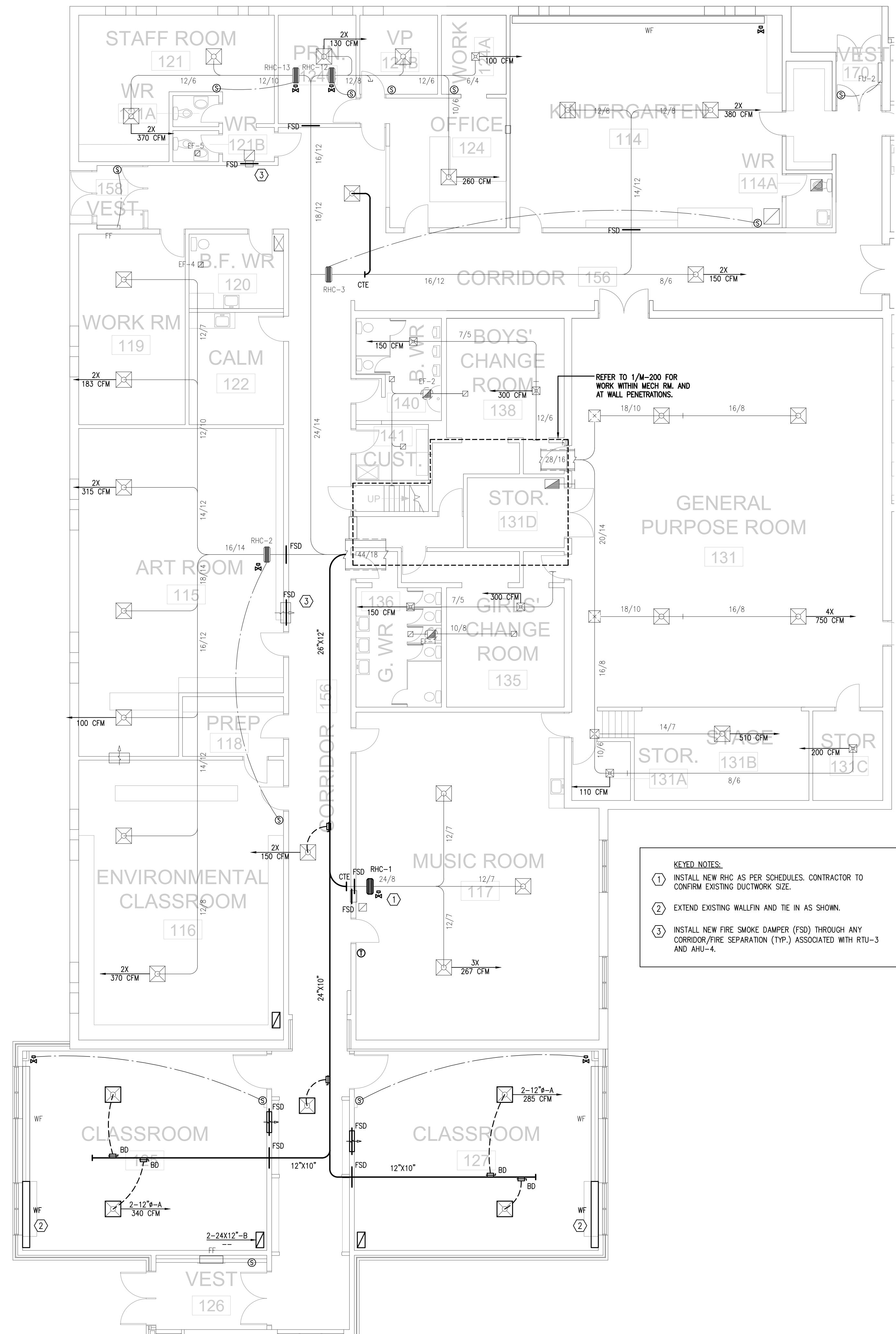
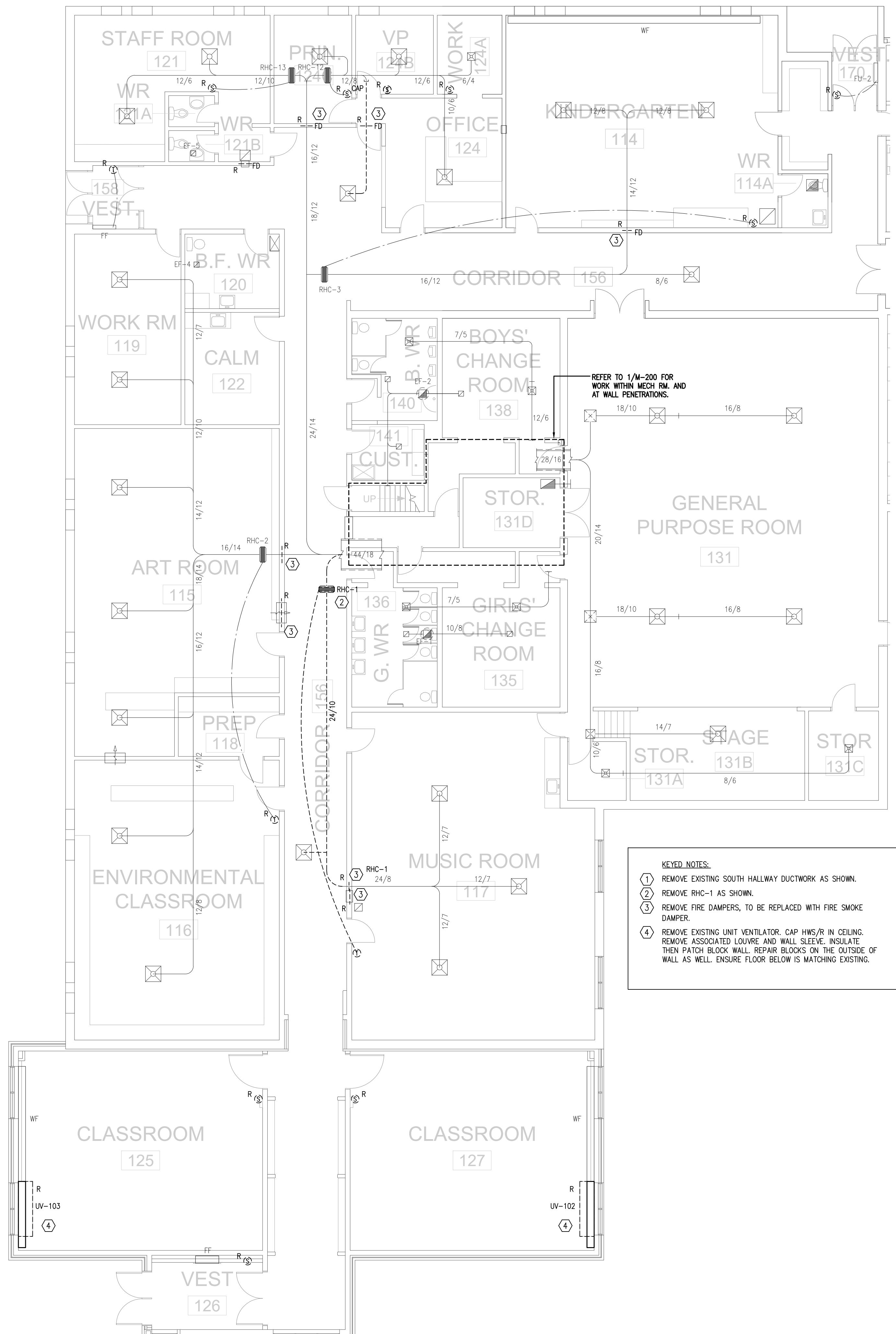
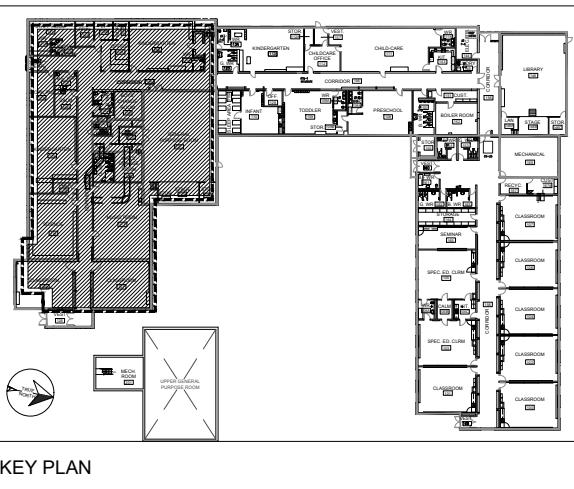
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- AHU REPLACEMENT

Project No: 25-14

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Drawn by: GPC
Checked by: ME
Address: 1911 Dixie Rd N, Pickering, ON L1V 1V4

TITLE:
MECHANICAL ROOM 169 - DEMO/NEW



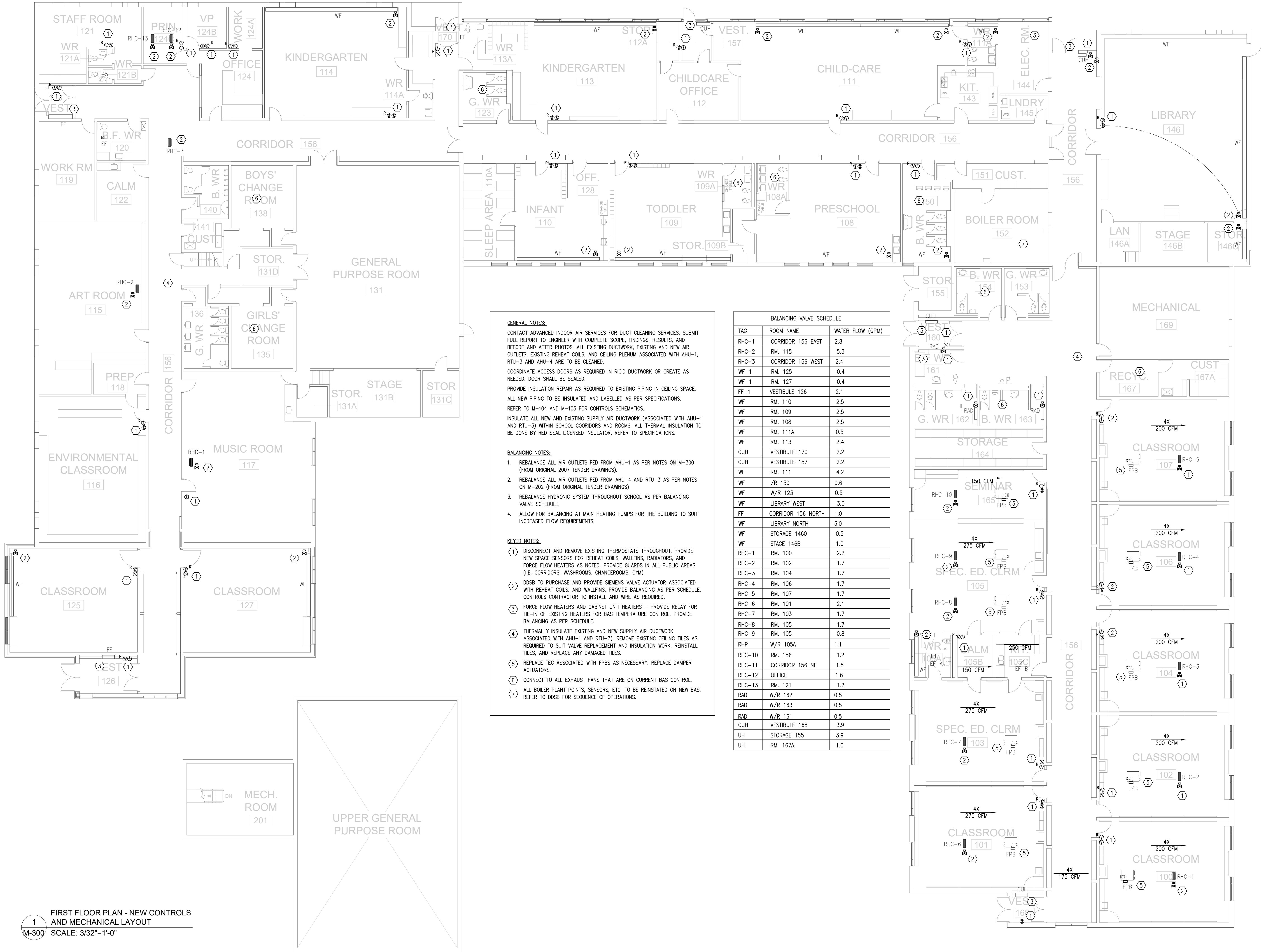
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- AHU REPLACEMENT

Project No: 25-14

Scale: AS NOTED
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Checked by: ME

Address: 1911 Dixie Rd N, Pickering, ON L1V 1V4

Title: SOUTH CLASSROOMS - DEMO/NEW



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Project No: 35.14

Scale: AS NOTED

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Checked by: M

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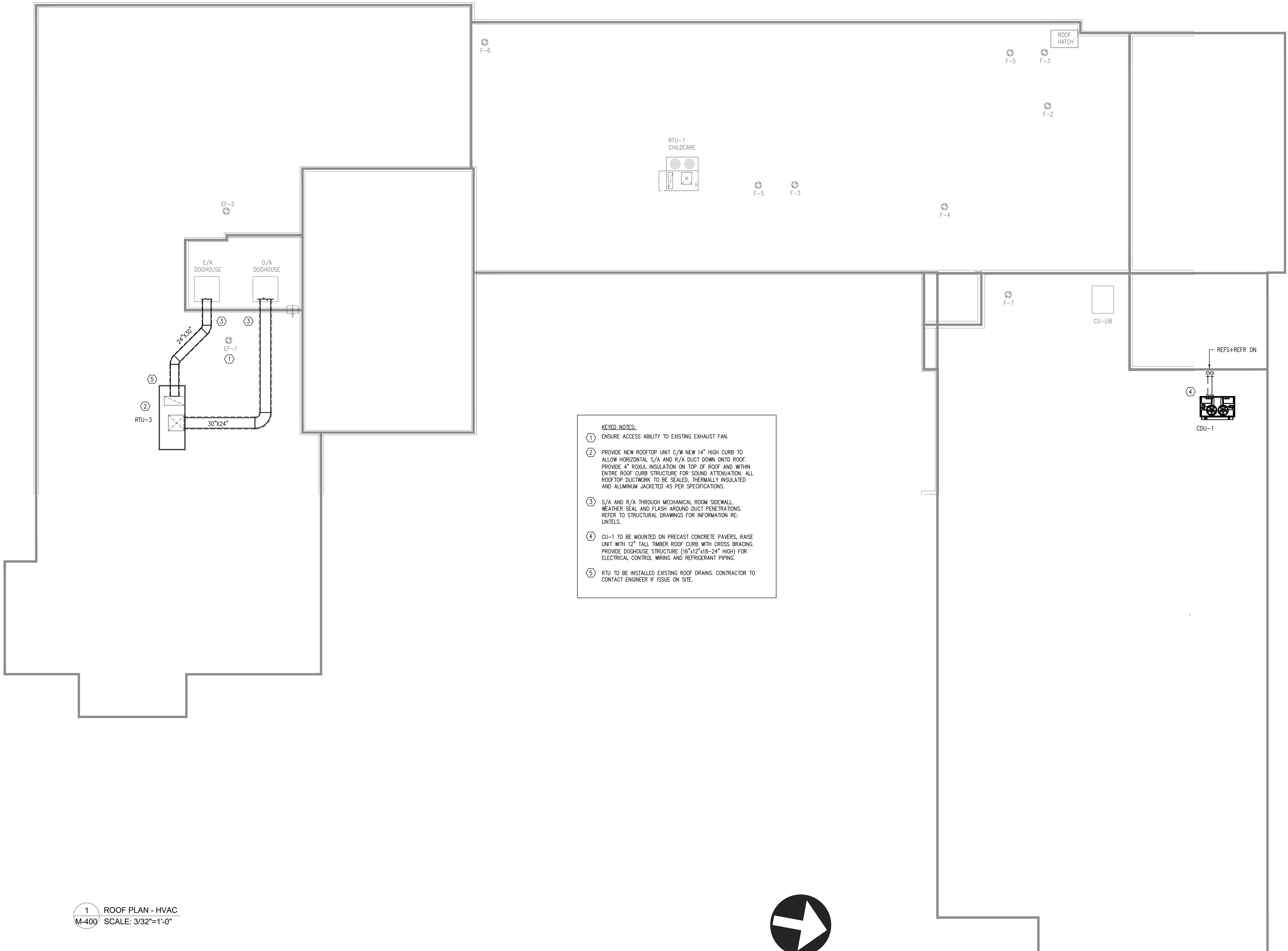
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FIRST FLOOR PLAN - NEW CONTROLS AND

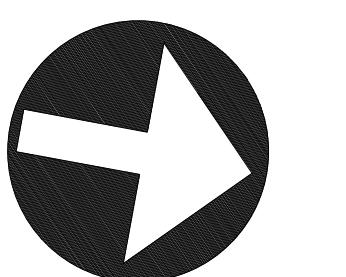
MECHANICAL LAYOUT

 **DDSE**
Ignite Learning

DRAWING No:



1
M-400
ROOF PLAN - HVAC
SCALE: 3/32"=1'-0"



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REVISIONS / STATUS

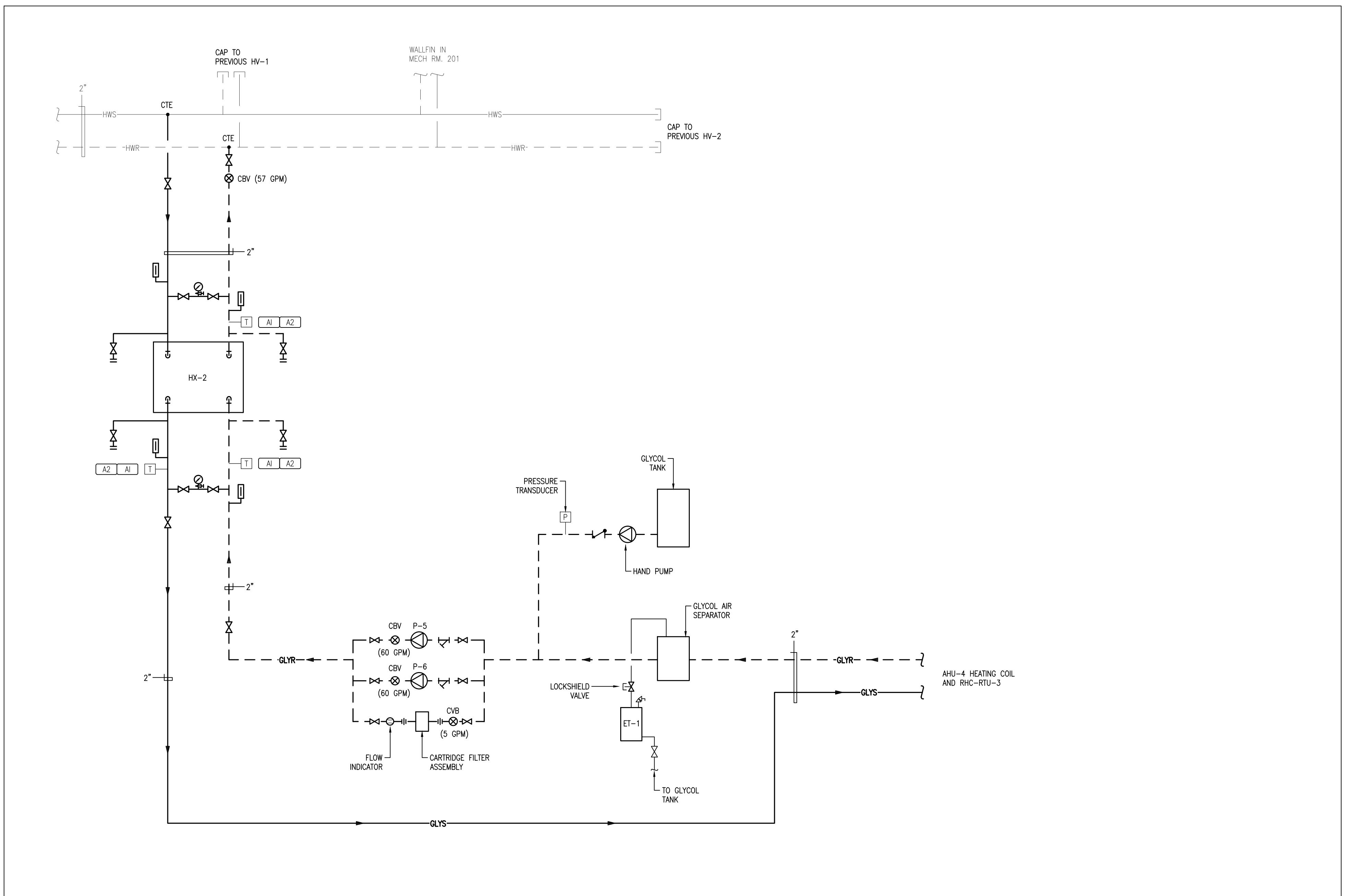
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- AHU REPLACEMENT

Project No: 25-14

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TITLE:
ROOF PLAN - HVAC

DRAWING No:



1 GLYCOL SCHEMATIC FLOW DIAGRAM — RM. 201
 M-500

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VAUGHAN WILLARD P.S.
- AHU REPLACEMENT

Project No: 25-14

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 Address: 1911 Dixie Rd N, Pickering, ON L1V 1V4

TITLE:
SCHEMATICS