

[illegible]

PIPING LEGEND	
	HOT WATER SUPPLY (HWS)
	HOT WATER RETURN (HWR)
	HEAT PUMP SUPPLY
	HEAT PUMP RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	EQUIPMENT DRAIN LINE
	GAS
	REFRIGERANT CIRCUIT (LIQUID & SUCTION)
	RELIEF VALVE
	PIPE ANCHOR
	PIPE GUIDE OR SLEEVE
	EXPANSION COMPENSATOR c/w GUIDES
	BOTTOM TAKE-OFF
	TOP TAKE-OFF
	ELBOW UP
	ELBOW DOWN
	VALVE - SEE SPECIFICATIONS
	UNION CONNECTION
	FLANGED CONNECTION
	PLUG CAP
	FLEXIBLE CONNECTION
	LOW WATER CUT OFF
	THERMOMETER
	PRESSURE GAUGE
	PUMP AND DESIGNATION
	AIR VENT
	AUTOMATIC AIR VENT
	PETES PLUG
	FLOW SWITCH
	THERMO WELL
	THERMOSTAT w/GUARD
	FLOW METERING DEVICE (FMD)
	CABINET HEATERS
	RADIANT PANELS
	RE-HEAT COILS
	UNDERCUT DOOR
	ABOVE FINISHED FLOOR
	CIRCUIT BALANCING VALVE
	GALLONS PER MINUTE
	REQUIRED
	THERMOSTATIC CONTROL VALVE
	TYPICAL
	HEAT EXCHANGER
	RADIANT FLOOR HEATER (IN-FLOOR HEATING)
	FOOT WASH
	TRENCH FLOOR DRAIN
	BACK FLOW PREVENTOR
	CUBIC FEET HOUR

PLUMBING LEGEND	
	STORM ABOVE GRADE
	SANITARY ABOVE GRADE
	STORM BURIED
	SANITARY BURIED
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC RECIRCULATED WATER
	VENT LINE
	RELIEF VENT
	EQUIPMENT DRAIN LINE
	FIRE LINE
	CLEANOUT
	AREA DRAIN
	FLOOR DRAIN
	TUNNEL FLOOR DRAIN
	HUB DRAIN
	ROOF DRAIN
	HOSE STATION
	FIRE HOSE CABINET
	FIRE EXTINGUISHER
	FIRE EXTINGUISHER c/w CABINET
	FIRE BLANKET
	RAIN WATER LEADER
	WATER CLOSET
	WATER CLOSET (HANDICAPPED)
	URNAL
	SHOWER
	EMERGENCY SHOWER
	LAVATORY
	LAVATORY (HANDICAPPED)
	STAINLESS STEEL SINK
	JANITOR SINK
	DRINKING FOUNTAIN
	EMERGENCY EYE WASH
	HOT WATER TANK
	FIRE HYDRANT
	FIRE DEPT. SIAMASE CONNECTION
	THRUST BLOCK
	INW. ELEV.
	OUTW. ELEV.
	WAND HOSE TRAP
	RUNNING TRAP
	APPROVED BACKFLOW PREVENTOR
	HOSE BIBB
	PUMP AND DESIGNATION
	FIRE PUMP
	SHOWER MIXING VALVE
	SLAB DRAIN
	PLANTER DRAIN
	SANITARY TO GREASE INTERCEPTOR

VENTILATION LEGEND	
	SOUND INSULATION
	FLEXIBLE CONNECTION
	DUCT OFFSET
	DUCT OFFSET (SINGLE LINE)
	TURNING VANES
	FIRE STOP FLAP
	BALANCING DAMPER
	FIRE DAMPER
	SPLITTER DAMPER
	BACKDRAFT DAMPER
	OPPOSED BLADE DAMPER
	MOTORIZED DAMPER
	SUPPLY DUCT SECTION
	RETURN DUCT SECTION
	SUPPLY DIFFUSER
	LINEAR DIFFUSER
	EXHAUST GRILLE
	DIFFUSER DESIGNATION AND CFM
	GRILLE DESIGNATION AND CFM
	FLEXIBLE ROUND DUCT
	CAPPED END DUCT
	DUCT REDUCER/ENLARGER
	TRANSITION ☐ TO ☐ ROUND
	THERMOSTAT
	THERMOSTAT w/GUARD
	THERMOSTAT c/w SUB BASE
	ACCESS DOOR
	ABOVE FINISHED FLOOR
	CUBIC FEET PER MINUTE
	EXHAUST FAN
	CABINET HEATER
	MAKE-UP AIR UNIT
	CIRCUIT BALANCING VALVE

CONTROL LEGEND	
	THERMOSTAT
	THERMOSTAT w/ GUARD
	THERMOSTAT c/w SUB BASE
	HUMIDISTAT
	OCCUPANCY SENSOR
	CO2 ROOM SENSOR
	TEMPERATURE SENSOR
	PRESSURE SWITCH OR SENSOR
	HUMIDITY SENSOR
	FLOW SWITCH
	ELECTRIC-PNEUMATIC RELAY
	PNEUMATIC-ELECTRIC RELAY
	SMOKE DETECTOR
	SOLENOID VALVE
	FIRESTAT
	FREEZESTAT
	PRESSURE DIFFERENTIAL SWITCH
	MOTORIZED DAMPER
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	HEATING COIL
	COOLING COIL
DA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
EA	EXHAUST AIR
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
	MOTOR
TCV	TEMPERATURE CONTROL VALVE

FIRE PROT. LEGEND	
● FE	FIRE EXTINGUISHER
■ FEC	FIRE EXTINGUISHER c/w CABINET

VALVE LEGEND	
	VALVE - SEE SPEC
	CHECK VALVE
	STRAINER
	PRESSURE REDUCING VALVE
	CONTROL VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	RELIEF VALVE
	PLUG VALVE
	SOLENOID VALVE
	NORMALLY CLOSED VALVE
	PET COCK
	CIRCUIT BALANCE VALVE

LEGEND NOTES:

THESE ARE STANDARD LEGENDS. ALL SYMBOLS MAY NOT NECESSARILY BE USED ON THESE DRAWINGS.

GENERAL NOTES

1. REFER TO SITE AND OWNER INSTRUCTIONS FOR PHASING AND STAGING.
2. THE CONTRACTOR SHALL CO-ORDINATE WITH THE STRUCTURAL TO PROVIDE ACCESS TO EXISTING SERVICES AND TO PROVIDE FOR THE REMOVAL OF EXISTING SERVICES.
3. PENETRATIONS OF CONCRETE SHALL BE SAW-CUT OR CORE-BORED-MACHINED. ARMED REINFORCING SHALL BE REINFORCED AND REBAR REINFORCING ARE NOT ALLOWED. SEAL ALL OUTCROCK AND SLEEVES TO PREVENT SEEPAGE OF FLOOR.
4. DO NOT SCALE DRAWINGS FOR INSTALLATION PURPOSES. OBTAIN ALL DIMENSIONS FROM ARCHITECTURAL PLANS, MANUFACTURER'S SHOP DRAWINGS, AND FIELD MEASUREMENTS.
5. MECHANICAL DUCT 1-1/4 AND ELECTRICAL TRACES SHALL WORK IN CONJUNCTION WITH ONE ANOTHER SO AS TO AVOID INTERFERENCE BETWEEN PIPES.
6. MECHANICAL, ELECTRICAL, AND PLUMBING SHALL CO-ORDINATE WITH THE STRUCTURAL TO PROVIDE ACCESS TO EXISTING SERVICES AND TO PROVIDE FOR THE REMOVAL OF EXISTING SERVICES.
7. WORK SHALL BE CO-ORDINATED THROUGH THE GENERAL CONTRACTOR PRIOR TO INSTALLATION OF ANY EQUIPMENT, DUCTWORK AND CONTROLS. CO-ORDINATE WITH ARCHITECT FOR COORDINATIONS FOR ARCHITECTURAL, MECHANICAL, AND ELECTRICAL SPACE ALLOCATIONS.
8. PROPERLY SUPPORT HUNG MOUNTED EQUIPMENT AND ANY OTHER EQUIPMENT TO BE INSTALLED. SECURE SUPPORTS TO STRUCTURE. REFER TO ARCHITECTURAL DETAILS AND CO-ORDINATE WITH STRUCTURAL TRADE.
9. REFER TO ARCHITECTURAL FOR OWNER SUPPLIED EQUIPMENT. CONFIRM ALL EQUIPMENT, MATERIALS, AND METHODS WITH ARCHITECT PRIOR TO INSTALLATION.
10. REVIEW ARCHITECTURAL, ELECTRICAL, AND STRUCTURAL DRAWINGS AND PROVIDE ON SITE INSPECTIONS TO DETERMINE FULL EXTENT OF PROJECT PRIOR TO START OF WORK.
11. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL MECHANICAL SERVICES TO THE OCCUPIED AREA THROUGHOUT THE PHASING OF THE WORK. PROVIDE PROTECTION VALVES, TEMPORARY DUCTWORK AND PIPING AS REQUIRED TO MAINTAIN THE SHUT DOWN OF SERVICES TO ONE TIME.
12. EXISTING MECHANICAL SERVICES SHOWN ON THESE DRAWINGS WERE TAKEN FROM THE CONTRACTOR'S CONTRACT DOCUMENTS. THE CONTRACTOR SHALL VERIFY EXISTING SIZE AND LOCATION OF ALL EXISTING SERVICES ON SITE AND PROVIDE FOR THE REMOVAL OF EXISTING SERVICES AS REQUIRED.
13. ALL DRAWINGS ARE INTEGRATED WITH THE SPECIFICATIONS WHICH THEY ACCOMPANY. NEITHER IS TO BE USED ALONE. ANY ITEM OR SUBJECT OMITTED FROM THE CONTRACT DOCUMENTS SHALL BE CONSIDERED TO BE INCLUDED THEREIN, UNLESS THE DIFFERENCE IS OBVIOUS, THE MOST OURGENT CONDITION HOWEVER.
14. PENETRATIONS OF EITHER FLEE OR SMOKE BARRIER RESISTANT WALLS SHALL BE MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT. ALL SUITABLE NON-COMBUSTIBLE MATERIALS EQUAL TO THE CONSTRUCTION TO BE PENETRATED.
15. AVOID ANY DIRECT CONTACT BETWEEN ANY PIPING, DUCTING AND ELECTRICAL EQUIPMENT TO PREVENT SHORTS.
16. IF ANY AREAS ARE AFFECTED BY THE NEW SCOPE OF WORK, CONTRACTOR TO CARRY COSTS FOR THE REMOVAL AND INSTALLATION OF THE EXISTING CEILING AND REFERENCED TO ARCHITECTURAL NEW REFLECTED CEILING PLAN FOR SCOPE OF NEW CEILING.
17. INSTALLATION SHALL BE COMPLETE AND FULLY FUNCTIONAL. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICE. OBTAIN ALL NECESSARY PERMITS.
18. PROVIDE ACCESS FOR SERVING EQUIPMENT AS INDICATED, AS REQUIRED BY CODE AND AS RECOMMENDED BY THE MANUFACTURER.
19. PROVIDE ACCESS DOORS AS NECESSARY FOR ACCESS TO VALVES, DAMPERS, AND EQUIPMENT. PROVIDE ACCESS DOORS TO BE REMOVED AND MAINTAINED.
20. INSTALL EQUIPMENT, DUCTS, AND PIPES PARALLEL TO OR PERPENDICULAR TO BUILDING LINES. PROVIDE SPACE, UNIONS AND FLANGES FOR DISASSEMBLY, REPAIR, OR REMOVAL OF EQUIPMENT.
21. THE CONTRACTOR SHALL, WITH APPROVAL OF THE OWNER AND AT NO ADDITIONAL CONTRACT COST, REMOVE, REARRANGE AND/OR RELOCATE ANY OBSTRUCTIONS WITHIN THE CONTRACT AREA TO ACCOMMODATE THE CONTRACT WORK.
22. ALL SHUTDOWN OF ANY PORTION OF EXISTING BUILDING SYSTEMS SHALL BE PERFORMED WITH THE OWNER'S CONSENT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR THE SHUTDOWN OF ANY PORTION OF THE BUILDING SYSTEMS OF PREMIUM TIME IN THE CONTRACT PRICE FOR WORK PERFORMED DURING THE SHUT-DOWN OR OTHER TIME OUTSIDE NORMAL WORKING HOURS AS NECESSARY TO MAINTAIN MECHANICAL SERVICES IN OPERATION.
23. WHEN A CONFLICT OCCURS BETWEEN THE INSTALLATION DETAILS, DIAGRAMS, ETC. THE CONTRACTOR SHALL FOLLOW THE CONTRACT DOCUMENTS AND THE INSTRUCTIONS, THE MANUFACTURER'S INSTALLATION SHEETS GOVERN AND SHALL BE THE BASIS FOR THE CONTRACTOR'S WORK.
24. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH CODES, APPLICABLE STANDARDS, BUILDING SETS, AND REQUIREMENTS OF ALL INSPECTION AGENCIES FOR THE PROJECT.
25. DUE TO INADEQUATE RECORD OF EXISTING SERVICES NOT ALL SERVICES MAY BE SHOWN, OR IF SHOWN MAY NOT BE ACCURATE. IF THE CONTRACTORS ARE NOT SURE, THEY ARE TO TELL CONTRACTOR.
26. CONTRACTOR IS TO VERIFY CONNECTION POINTS TO EXISTING SERVICES ON SITE.
27. CHECK AND VERIFY LOCATION OF ALL PIPES, DUCTS AND EQUIPMENT WITH ALL OTHER TRADES TO PREVENT INTERFERENCE, REMOVAL, OR RELOCATION OF ANY EXISTING SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESPONSIBILITY OF THE MECHANICAL TRADE CONCERNED UNLESS OTHERWISE APPROVED IN WRITING BY THE ARCHITECT.
28. PROVIDE ACCESS DOOR FOR ALL VALVES LOCATED ABOVE DRY WALL CEILING.
29. IN ALL INSTANCES THE DEEP FOR ACCESS DOORS IN OMB CELINGS SHALL BE ACCEPTED IF POSSIBLE. WHERE INSTALLATION OF COMPONENTS WHICH REQUIRE ACCESS TO THE ABOVE CEILING ARE NOT POSSIBLE, THE CONTRACTOR SHALL BE REQUIRED CLOSING PLANS TO CONSULTANTS FOR APPROVAL PRIOR TO INSTALLATION.
30. BEFORE CUTTING ANY HOLES THROUGH THE EXISTING SLAB REFER TO STRUCTURAL DRAWINGS FOR GENERAL REQUIREMENTS.
31. PROVIDE SIGN IDENTIFYING LOCATION OF ALL VALVES INSTALLED IN CEILING SPACE.

PLUMBING NOTES

1. CONTRACTOR IS TO CLEAR EXISTING DUCTWORK WHEN INSTALLING NEW VENTS.
CLEANARNESS TO BE KEPT ON SITE.
2. PROVIDE A CLEANOUT AT THE BOTTOM OF EVERY SOIL AND WASTE STACK THAT CONNECTS TO A HORIZONTAL DRAINAGE PIPE.
3. PROVIDE A CLEANOUT FROM EACH PLUMBING FIXTURE WHERE REQUIRED BY ANOTHER BUILDING CODE.
4. ALL PLUMBING FIXTURES INCLUDING FLOOR DRAINS (HUB, FUNNEL, FLOOR DRAINS) TO BE TRAPPED AND VENTED AS REQUIRED BY ANOTHER BUILDING CODE, PART 7.
5. FOR MOUNTING HEIGHT OF ALL PLUMBING FIXTURES REFER TO ARCHITECTURAL DRAWINGS.
6. PROVIDE ACCESS DOOR FOR ALL CLEANOUTS LOCATED ABOVE DRY FLOOR CEILING.
7. CONTRACTOR IS TO REMOVE ALL OBSOLETE PIPING WHEREVER POSSIBLE.
8. CONTRACTOR IS TO ENSURE THAT ALL EXISTING PIPING SERVING EXISTING AREAS IS MAINTAINED AND NOT TO BE REMOVED OR RECOMMENDED TO NEW SERVICES. ONLY THEN OBSOLETE PIPING IS TO BE REMOVED AS SHOWN.
9. RECONNECT VENTS FROM EXISTING EQUIPMENT AND PLUMBING FIXTURES WHICH ARE NOT TO BE REMOVED OR NEW VENT REQUIRED.
10. WHENEVER COLD AND HOT WATER DISTRIBUTION TO LAUNDRATES IS TO RUN UNDER COUNTER, PIPING DISTRIBUTION IS TO BE INSTALLED AS TIGHT TO UNDER COUNTER AS POSSIBLE.
11. ALL WATER, SANITARY, SEWER AND VENT COPPER PIPING WITH SOLDER JOINTS SHALL BE LEAD FREE. DO NOT INSTALL WATER LINES IN UNDER WALL WHERE THEY ARE REQUIRED, UNLESS BOTH THE WALL AND THE PIPES ARE PROPERLY INSULATED.
12. INSTALL SHUT-OFF VALVES AT EACH PLUMBING FIXTURE.
13. PROVIDE PIPE PRESSING TO EXISTING PIPE DISTRIBUTION WHERE DEMOLITION AND NEW CONNECTIONS ARE MADE TO EXISTING SYSTEM.

HVAC NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CO-ORDINATION OF RELEVANT OFFICERS AND OTHER DISCIPLINES.
2. CONTRACTORS SHALL COORDINATE ALL CEILING FINISHES WITH OWNER AND MATCH EXISTING. CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS, ARCHITECTURAL DRAWINGS AND ELECTRICAL DRAWINGS TO IDENTIFY ALL EXISTING EQUIPMENT. AS SOON AS CONTRACT DOCUMENTS ARE SIGNED, AVOIDANCE CONSISTANT OF ANY CONFLICTS BETWEEN CEILING FINISHES AND MECHANICAL/ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. CONTRACTOR SHALL VERIFY ALL CEILING FINISHES WITH ARCHITECTURAL DRAWINGS. CONTRACTOR AND DIFFUSER/SUPPLY SUPPLIER ARE RESPONSIBLE TO PROVIDE THE WATER AND PRESSURE TIGHT, NON-TOXIC, RESISTANT, HARDWARE, AND ACCESSORIES TO SUIT ARCHITECTURAL CEILING FINISHES. MECHANICAL CONTRACTOR SHALL PROVIDE THE CEILING FINISHES TO BE USED FOR THE DIFFUSERS AND GRILLES IN DRAWING. CONTRACTOR TO DRAWDRAW TRAIL AND ENSURE ALL CEILING FINISHES ARE PROTECTED FROM DAMAGE BY MECHANICAL CONTRACTOR. CONTRACTOR TO PROVIDE DIFFUSERS AND GRILLES MUST NOT BE SUPPORTED SOLELY BY HANGER WIRE.
4. CONTRACTOR TO CARRY OUT ADDITIONAL DUCTS AND DUCT FITTING REQUIRED TO MEET THE INTENT OF THE REFLECTED CEILING PLAN.
5. ALL NEW DUCTWORK TO BE CLEANED.
6. ALL DUCTWORK FITTINGS SHALL BE RIGID ALUMINUM IRON.
7. CONTRACTOR TO TAKE ALL MEASUREMENTS NECESSARY TO DETERMINE CURRENT SYSTEM PERFORMANCE IN AREAS THAT WILL CONTINUE TO BE SERVED BY EXISTING EQUIPMENT. CONTRACTOR SHALL RECORD ALL MEASUREMENTS MADE PRIOR TO START OF DEMOLITION.
8. ON COMPLETION OF DUCT ALTERATIONS, AN BALANCE TECHNICIAN SHALL CONDUCT A BALANCE OF THE EXISTING SYSTEM. CONTRACTOR SHALL RECORD MEASUREMENTS MADE PRIOR TO START OF DEMOLITION.
9. WHERE MODIFICATIONS HAVE BEEN DONE TO THE HEATING WATER CIRCUITS CONTRACTOR MUST REBALANCE THE AFFECTED PARTS.
10. CONTRACTOR TO PROVIDE TO THE CLIENT A SUMMARY OF WORKS DEMOLITION AND NEW CONNECTIONS ARE MADE TO EXISTING SYSTEM.
11. INSTANT/RENTAL T-STATS TO 1,200mm x 515 UNLESS OTHER SIZE INDICATED

Client
Halton District School Board
2050 Guelph Line
Burlington, Ontario

T. A. BLAKELOCK H.S.
RENOVATIONS

1160 Rebecca Street
Oakville, ON

Architect
sn/der
Snyder Architects Inc.
100 Broadview Ave., Suite 301, Toronto, ON, M4M 3H3
tel. 416.966.5444 fax. 416.966.4443
www.snyderarchitects.ca

Consultants
Structural Consultants
Kalos Engineering Inc.
300 York Boulevard
Hamilton, Ontario, L8R 3K6
Tel: 905-333-9119

Mechanical and Electrical Consultants
EXP
1266 S. Service Rd.
Stoney Creek, Ontario, L8E 5R9
Tel: 905-525-6069

[illegible]

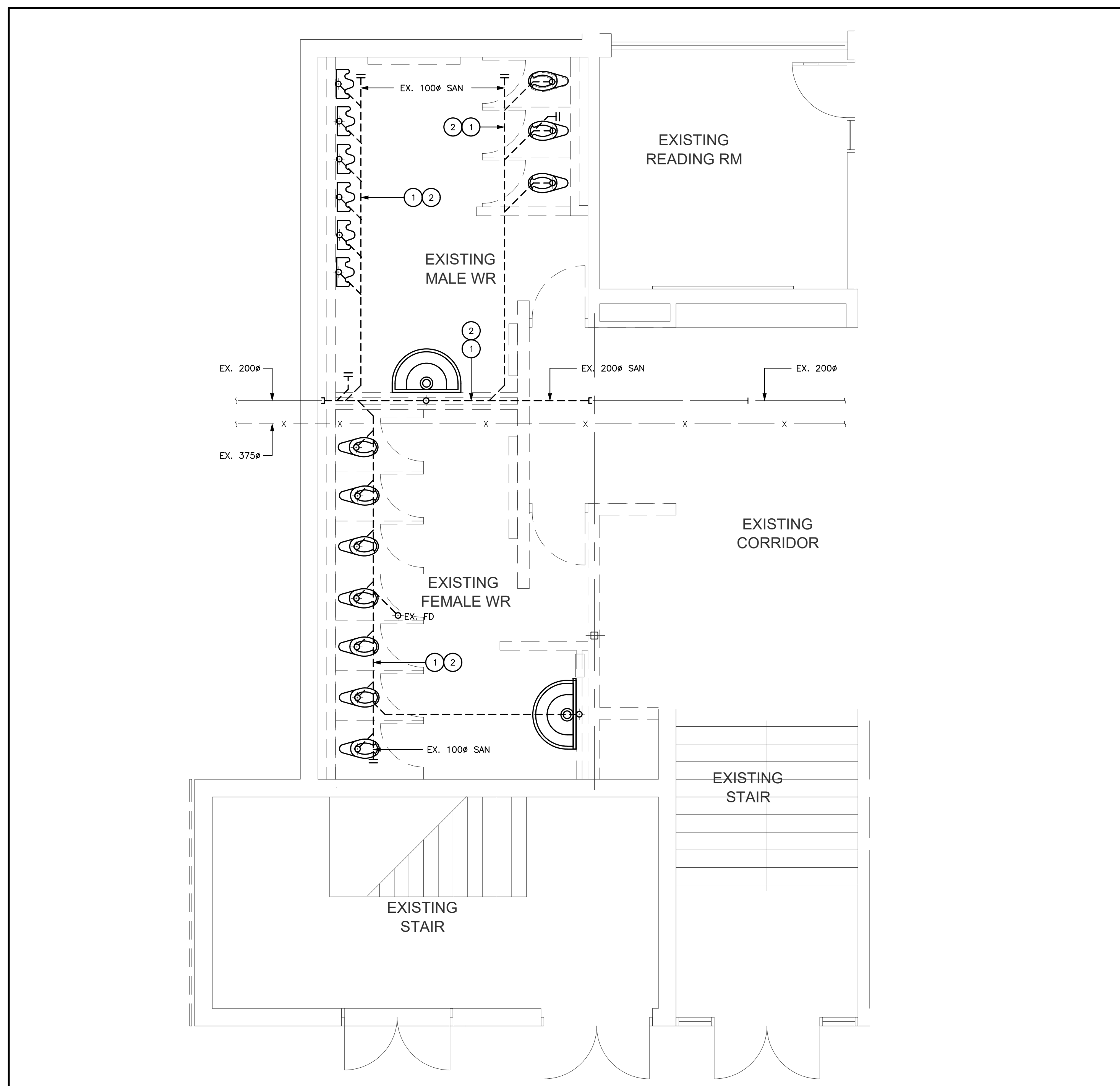
General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

Drawing Title:
**MECHANICAL LEGENDS
AND DRAWING LIST**

Scale: N.T.S.	Date: 2025-03-03
Drawn by: CC	Checked by: WD
Job No. ALL-22020201	Drawing No. M000

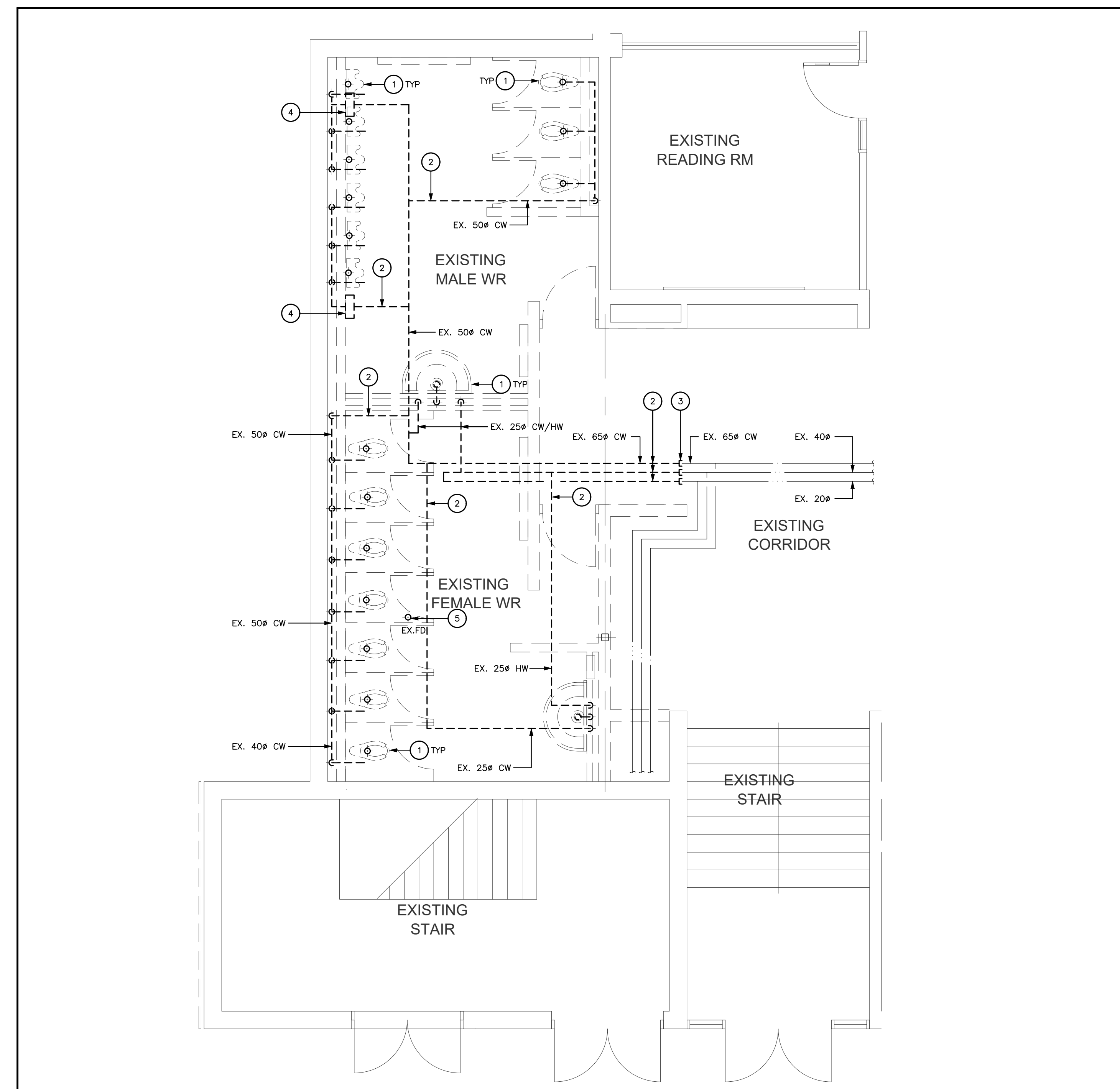
[illegible]

HVAC SPECIFICATIONS 1.1 HYDRO-PIPING - GENERAL A. KEEP OPEN ENDS OF PIPE FREE FROM SCALE AND DIRT. PROTECT OPEN ENDS WITH CAPS. CAPS, AFTER COMPLETION, FILL, CLEAN, AND TREAT SYSTEMS. B. PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHENEVER JOINING DISSIMILAR METALS IN CROWN SYSTEMS. C. FINEME CAST IRON COPIES, HANGERS AND SUPPORTS, HANGERS AND SUPPORTS LOCATED IN OPEN SPACES, PIPE SHIFTS, AND SUSPENDED SLING SPACES ARE NOT CONSIDERED EXPOSED. D. AIR VENTS SHALL BE SELECTED TO SUIT THE SYSTEM OPERATING PRESSURES AND SHALL BE AUTOMATIC AND COMPLETE WITH ISOLATING VALVES. E. TEST LIQUID HEAT TRANSFER PIPING HYDROSTATICALLY AT NOT LESS THAN 150% OF OPERATING PRESSURE OR NOT LESS THAN 125 PSI (860 KPA) MINIMUM. IS THE GREATER, TEST PERIOD SHALL BE NOT LESS THAN SIX (6) HOURS DURATION DURING WHICH THE JOINT SHALL BE INSPECTED, GIVEN A SHARP TAP WITH A HAMMER AND CHECKED FOR LEAKS. 1.2 VALVES - GENERAL A. CONFORM TO REQUIREMENTS OF ANSI, ASTM, ASME, AND APPLICABLE MSS STANDARDS. B. MANUFACTURER'S NAME AND PRESSURE RATING CLEARLY MARKED ON BODY TO BE MSS-SP-25. C. VALID CRN (CANADIAN REGISTRATION NUMBERS) REQUIRED FOR EACH VALVE. D. MATERIALS: 1. BRONZE: ASTM B62 OR B61 AS APPLICABLE 2. BRASS: ASTM B283 C370 3. CAST IRON: ASTM A126 CLASS B E. END CONNECTIONS: 1. THREADED ENDS: ANSI B1.20.1 2. FLANGED ENDS: ANSI B16.1 (CLASS 125), ANSI B16.5 3. FACE-TO-FACE DIMENSIONS: ANSI B16.1 F. DESIGN AND TESTING: 1. BRONZE GATE & CHECK VALVES: MSS-SP-80 2. BALL VALVES: MSS-90 3. CAST IRON GATE VALVES: MSS-SP-80 4. CAST IRON GLOBE VALVES: MSS-SP-85 5. CAST IRON CHECK VALVES: MSS-SP-87 6. BUTTERFLY VALVES: MSS-90 G. ACCEPTABLE MANUFACTURERS: KITZ, CARCO, JENKINS, CONBRACO, NIBCO 1.3 ISOLATING SYSTEMS TO 150 PSIG ABOVE GROUND A. DESIGN PRESSURE: 125 PSIG B. DESIGN PRESSURE: 125 PSIG C. DESIGN TEMPERATURE: 350°F D. CORROSION ALLOWANCE: 0.0625 IN. E. STEEL PIPE: ASTM A53 OR ERW OR ASTM A106 OR B F. JOINTS, 2" AND SMALLER: SCHEDULE 40 G. JOINTS, 2" AND SMALLER: SCHEDULE 40 H. JOINTS, 2" AND SMALLER: SCHEDULE 40 I. JOINTS, 2" AND SMALLER: SCHEDULE 40 J. JOINTS, 2" AND SMALLER: SCHEDULE 40 K. JOINTS, 2" AND SMALLER: SCHEDULE 40 L. JOINTS, 2" AND SMALLER: SCHEDULE 40 M. JOINTS, 2" AND SMALLER: SCHEDULE 40 N. JOINTS, 2" AND SMALLER: SCHEDULE 40 O. JOINTS, 2" AND SMALLER: SCHEDULE 40 P. JOINTS, 2" AND SMALLER: SCHEDULE 40 Q. JOINTS, 2" AND SMALLER: SCHEDULE 40 R. JOINTS, 2" AND SMALLER: SCHEDULE 40 S. JOINTS, 2" AND SMALLER: SCHEDULE 40 T. JOINTS, 2" AND SMALLER: SCHEDULE 40 U. JOINTS, 2" AND SMALLER: SCHEDULE 40 V. JOINTS, 2" AND SMALLER: SCHEDULE 40 W. JOINTS, 2" AND SMALLER: SCHEDULE 40 X. JOINTS, 2" AND SMALLER: SCHEDULE 40 Y. JOINTS, 2" AND SMALLER: SCHEDULE 40 Z. JOINTS, 2" AND SMALLER: SCHEDULE 40 1.4 ISOLATING SYSTEMS TO 150 PSIG ABOVE GROUND A. DESIGN PRESSURE: 125 PSIG B. DESIGN PRESSURE: 125 PSIG C. DESIGN TEMPERATURE: 350°F D. CORROSION ALLOWANCE: 0.0625 IN. E. STEEL PIPE: ASTM A53 OR ERW OR ASTM A106 OR B F. JOINTS, 2" AND SMALLER: SCHEDULE 40 G. JOINTS, 2" AND SMALLER: SCHEDULE 40 H. JOINTS, 2" AND SMALLER: SCHEDULE 40 I. JOINTS, 2" AND SMALLER: SCHEDULE 40 J. JOINTS, 2" AND SMALLER: SCHEDULE 40 K. JOINTS, 2" AND SMALLER: SCHEDULE 40 L. JOINTS, 2" AND SMALLER: SCHEDULE 40 M. JOINTS, 2" AND SMALLER: SCHEDULE 40 N. JOINTS, 2" AND SMALLER: SCHEDULE 40 O. JOINTS, 2" AND SMALLER: SCHEDULE 40 P. JOINTS, 2" AND SMALLER: SCHEDULE 40 Q. JOINTS, 2" AND SMALLER: SCHEDULE 40 R. JOINTS, 2" AND SMALLER: SCHEDULE 40 S. JOINTS, 2" AND SMALLER: SCHEDULE 40 T. JOINTS, 2" AND SMALLER: SCHEDULE 40 U. JOINTS, 2" AND SMALLER: SCHEDULE 40 V. JOINTS, 2" AND SMALLER: SCHEDULE 40 W. JOINTS, 2" AND SMALLER: SCHEDULE 40 X. JOINTS, 2" AND SMALLER: SCHEDULE 40 Y. JOINTS, 2" AND SMALLER: SCHEDULE 40 Z. JOINTS, 2" AND SMALLER: SCHEDULE 40 1.5 ISOLATING SYSTEMS TO 150 PSIG ABOVE GROUND A. DESIGN PRESSURE: 125 PSIG B. DESIGN PRESSURE: 125 PSIG C. DESIGN TEMPERATURE: 350°F D. CORROSION ALLOWANCE: 0.0625 IN. E. STEEL PIPE: ASTM A53 OR ERW OR ASTM A106 OR B F. JOINTS, 2" AND SMALLER: SCHEDULE 40 G. JOINTS, 2" AND SMALLER: SCHEDULE 40 H. JOINTS, 2" AND SMALLER: SCHEDULE 40 I. JOINTS, 2" AND SMALLER: SCHEDULE 40 J. JOINTS, 2" AND SMALLER: SCHEDULE 40 K. JOINTS, 2" AND SMALLER: SCHEDULE 40 L. JOINTS, 2" AND SMALLER: SCHEDULE 40 M. JOINTS, 2" AND SMALLER: SCHEDULE 40 N. JOINTS, 2" AND SMALLER: SCHEDULE 40 O. JOINTS, 2" AND SMALLER: SCHEDULE 40 P. JOINTS, 2" AND SMALLER: SCHEDULE 40 Q. JOINTS, 2" AND SMALLER: SCHEDULE 40 R. JOINTS, 2" AND SMALLER: SCHEDULE 40 S. JOINTS, 2" AND SMALLER: SCHEDULE 40 T. JOINTS, 2" AND SMALLER: SCHEDULE 40 U. JOINTS, 2" AND SMALLER: SCHEDULE 40 V. JOINTS, 2" AND SMALLER: SCHEDULE 40 W. JOINTS, 2" AND SMALLER: SCHEDULE 40 X. JOINTS, 2" AND SMALLER: SCHEDULE 40 Y. JOINTS, 2" AND SMALLER: SCHEDULE 40 Z. JOINTS, 2" AND SMALLER: SCHEDULE 40 1.6 ISOLATING SYSTEMS TO 150 PSIG ABOVE GROUND A. DESIGN PRESSURE: 125 PSIG B. DESIGN PRESSURE: 125 PSIG C. DESIGN TEMPERATURE: 350°F D. CORROSION ALLOWANCE: 0.0625 IN. E. STEEL PIPE: ASTM A53 OR ERW OR ASTM A106 OR B F. JOINTS, 2" AND SMALLER: SCHEDULE 40 G. JOINTS, 2" AND SMALLER: SCHEDULE 40 H. JOINTS, 2" AND SMALLER: SCHEDULE 40 I. JOINTS, 2" AND SMALLER: SCHEDULE 40 J. JOINTS, 2" AND SMALLER: SCHEDULE 40 K. JOINTS, 2" AND SMALLER: SCHEDULE 40 L. JOINTS, 2" AND SMALLER: SCHEDULE 40 M. JOINTS, 2" AND SMALLER: SCHEDULE 40 N. JOINTS, 2" AND SMALLER: SCHEDULE 40 O. JOINTS, 2" AND SMALLER: SCHEDULE 40 P. JOINTS, 2" AND SMALLER: SCHEDULE 40 Q. JOINTS, 2" AND SMALLER: SCHEDULE 40 R. JOINTS, 2" AND SMALLER: SCHEDULE 40 S. JOINTS, 2" AND SMALLER: SCHEDULE 40 T. JOINTS, 2" AND SMALLER: SCHEDULE 40 U. JOINTS, 2" AND SMALLER: SCHEDULE 40 V. JOINTS, 2" AND SMALLER: SCHEDULE 40 W. JOINTS, 2" AND SMALLER: SCHEDULE 40 X. JOINTS, 2" AND SMALLER: SCHEDULE 40 Y. JOINTS, 2" AND SMALLER: SCHEDULE 40 Z. JOINTS, 2" AND SMALLER: SCHEDULE 40 1.7 ISOLATING SYSTEMS TO 150 PSIG ABOVE GROUND A. DESIGN PRESSURE: 125 PSIG B. DESIGN PRESSURE: 125 PSIG C. DESIGN TEMPERATURE: 350°F D. CORROSION ALLOWANCE: 0.0625 IN. E. STEEL PIPE: ASTM A53 OR ERW OR ASTM A106 OR B F. JOINTS, 2" AND SMALLER: SCHEDULE 40 G. JOINTS, 2" AND SMALLER: SCHEDULE 40 H. JOINTS, 2" AND SMALLER: SCHEDULE 40 I. JOINTS, 2" AND SMALLER: SCHEDULE 40 J. JOINTS, 2" AND SMALLER: SCHEDULE 40 K. JOINTS, 2" AND SMALLER: SCHEDULE 40 L. JOINTS, 2" AND SMALLER: SCHEDULE 40 M. JOINTS, 2" AND SMALLER: SCHEDULE 40 N. JOINTS, 2" AND SMALLER: SCHEDULE 40 O. JOINTS, 2" AND SMALLER: SCHEDULE 40 P. JOINTS, 2" AND SMALLER: SCHEDULE 40 Q. JOINTS, 2" AND SMALLER: SCHEDULE 40 R. JOINTS, 2" AND SMALLER: SCHEDULE 40 S. JOINTS, 2" AND SMALLER: SCHEDULE 40 T. JOINTS, 2" AND SMALLER: SCHEDULE 40 U. JOINTS, 2" AND SMALLER: SCHEDULE 40 V. JOINTS, 2" AND SMALLER: SCHEDULE 40 W. JOINTS, 2" AND SMALLER: SCHEDULE 40 X. JOINTS, 2" AND SMALLER: SCHEDULE 40 Y. JOINTS, 2" AND SMALLER: SCHEDULE 40 Z. JOINTS, 2" AND SMALLER: SCHEDULE 40 1.8 ISOLATING SYSTEMS TO 150 PSIG ABOVE GROUND A. DESIGN PRESSURE: 125 PSIG B. DESIGN PRESSURE: 125 PSIG C. DESIGN TEMPERATURE: 350°F D. CORROSION ALLOWANCE: 0.0625 IN. E. STEEL PIPE: ASTM A53 OR ERW OR ASTM A106 OR B F. JOINTS, 2" AND SMALLER: SCHEDULE 40 G. JOINTS, 2" AND SMALLER: SCHEDULE 40 H. JOINTS, 2" AND SMALLER: SCHEDULE 40 I. JOINTS, 2" AND SMALLER: SCHEDULE 4
--



- ### DRAWING NOTES

- 1 EXISTING UNDERGROUND DRAINAGE PIPING TO BE REMOVED AND DISPOSED OF. CAP EXISTING PIPING AND PREPARE FOR RECONNECTION. CONTRACTOR TO VERIFY ALL PIPE INVERTS PRIOR TO COMMENCEMENT OF WORK.
- 2 DEMOLISH EXISTING PLUMBING VENTING SERVING EACH DEMOLISHED PLUMBING FIXTURE. VENTING BRANCH PIPING FOR EACH PLUMBING FIXTURE AND VENTING MAIN PIPE SHALL BE DEMOLISHED UP TO ADJACENT CORRIDOR OUTSIDE OF WASHROOM.



- DRAWING NOTES

- 1 EXISTING PLUMBING FIXTURE SHALL BE REMOVED AND DISPOSED OF.
- 2 EXISTING PLUMBING PIPING TO BE REMOVED AND DISPOSED OF CAP EXISTING PIPING AND PREPARE FOR RECONNECTION.
- 3 CUT AND CAP EXISTING DOMESTIC WATER LINES TEMPORARILY DURING CONSTRUCTION. UTILIZE PIPE FREEZING TO COMPLETE WORK. PROVIDE NEW ISOLATION VALVE TO FACILITATE NEW WORK.
- 4 EXISTING URINAL TANK TO BE DEMOLISHED AND DISPOSED OF.
- 5 EXISTING FLOOR DRAIN TO BE DEMOLISHED AND DISPOSED OF.

Client
Halton District School Board
2050 Guelph Line
Burlington, Ontario

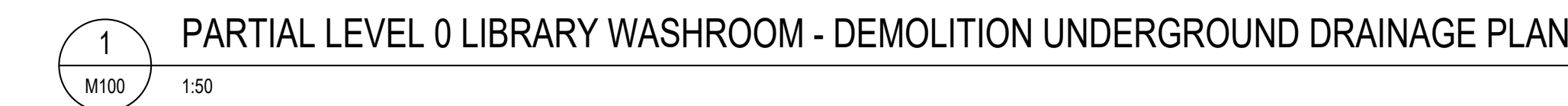
T. A. BLAKELOCK H.S.
RENOVATIONS

1160 Rebecca Street
Oakville, ON

Architect
sn/der
Snyder Architects Inc.
100 Broadview Ave., Suite 301, Toronto, ON, M4M 3H3
tel. 416.966.5444 fax. 416.966.4443
www.snyderarchitects.ca

Consultants
Structural Consultants
Kalos Engineering Inc.
300 York Boulevard
Hamilton, Ontario, L8R 3K6
Tel: 905-333-9119

Mechanical and Electrical Consultants
EXP
1266 S. Service Rd,
Stoney Creek, Ontario, L8E 5R9
Tel: 905-525-6069



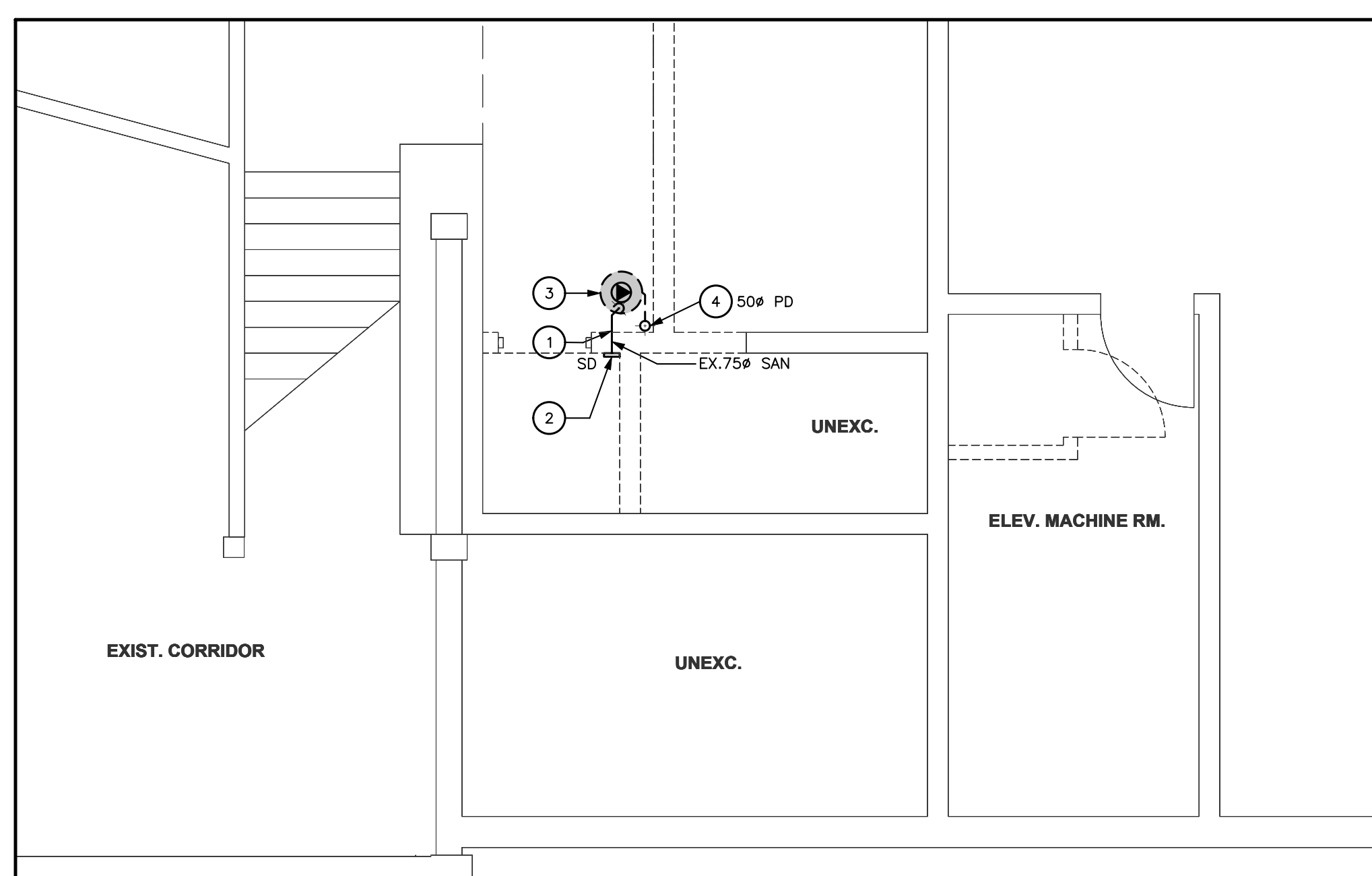
- GENERAL NOTES

- A) THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS
- B) FOR DRAWINGS LEGENDS SEE DRAWING MOOD.



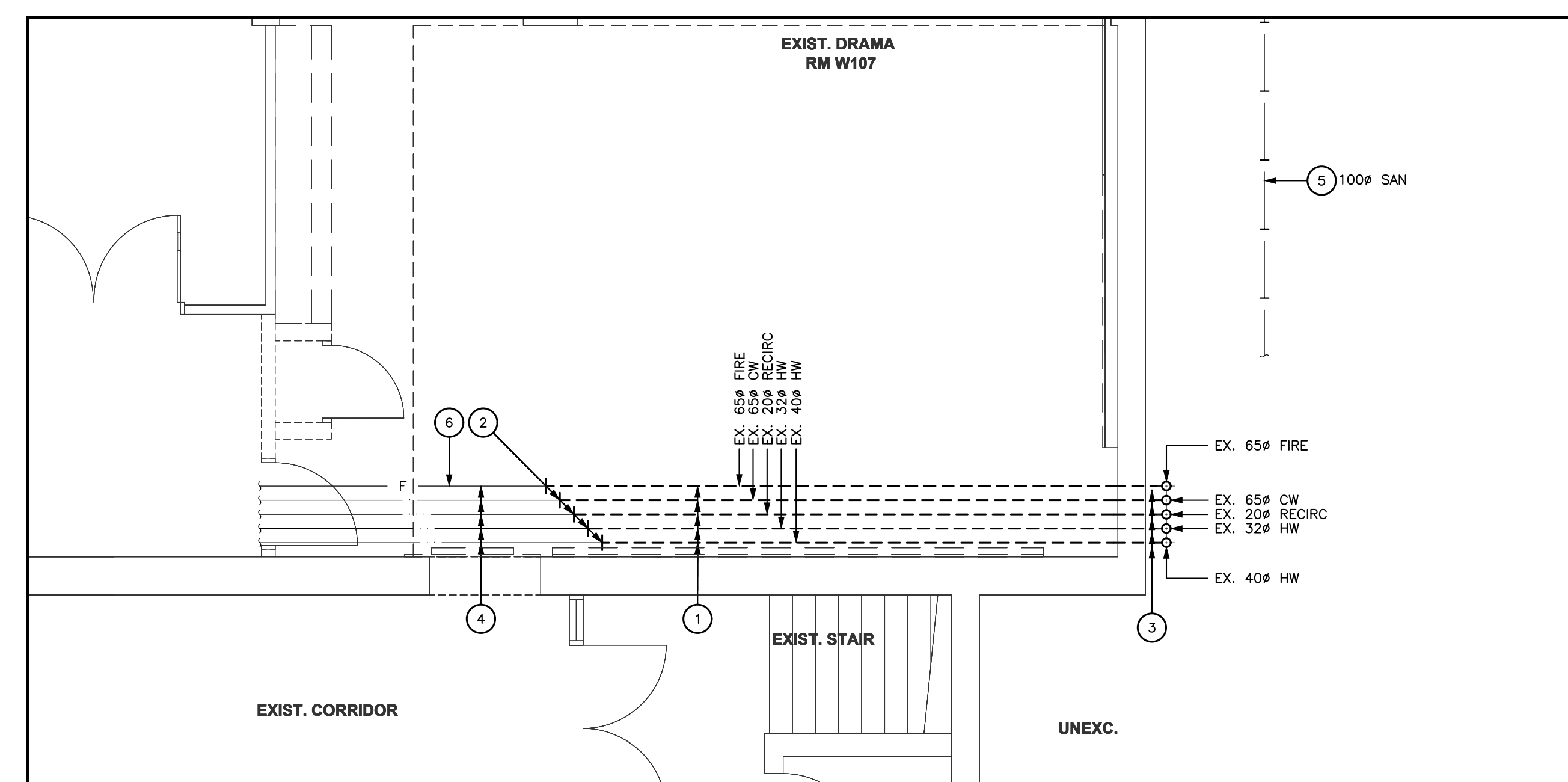
- #### GENERAL NOTES

- A) THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS
- B) FOR DRAWINGS LEGENDS SEE DRAWING M000.



- ### DRAWING NOTES

- 1 EXISTING UNDERGROUND DRAINAGE PIPING TO BE REMOVED AND DISPOSED OF. CONTRACTOR TO VERIFY ALL PIPE INVERTS PRIOR TO COMMENCEMENT OF WORK.
- 2 EXISTING ELEVATOR PIT SCUPPER DRAIN TO BE REMOVED AND DISPOSED OF.
- 3 EXISTING ELEVATOR SUMP PUMP AND IT TO BE DEMOLISHED AND DISPOSED OF.
- 4 EXISTING SANITARY PUMPED DISCHARGE TO BE DEMOLISHED AND DISPOSED OF.



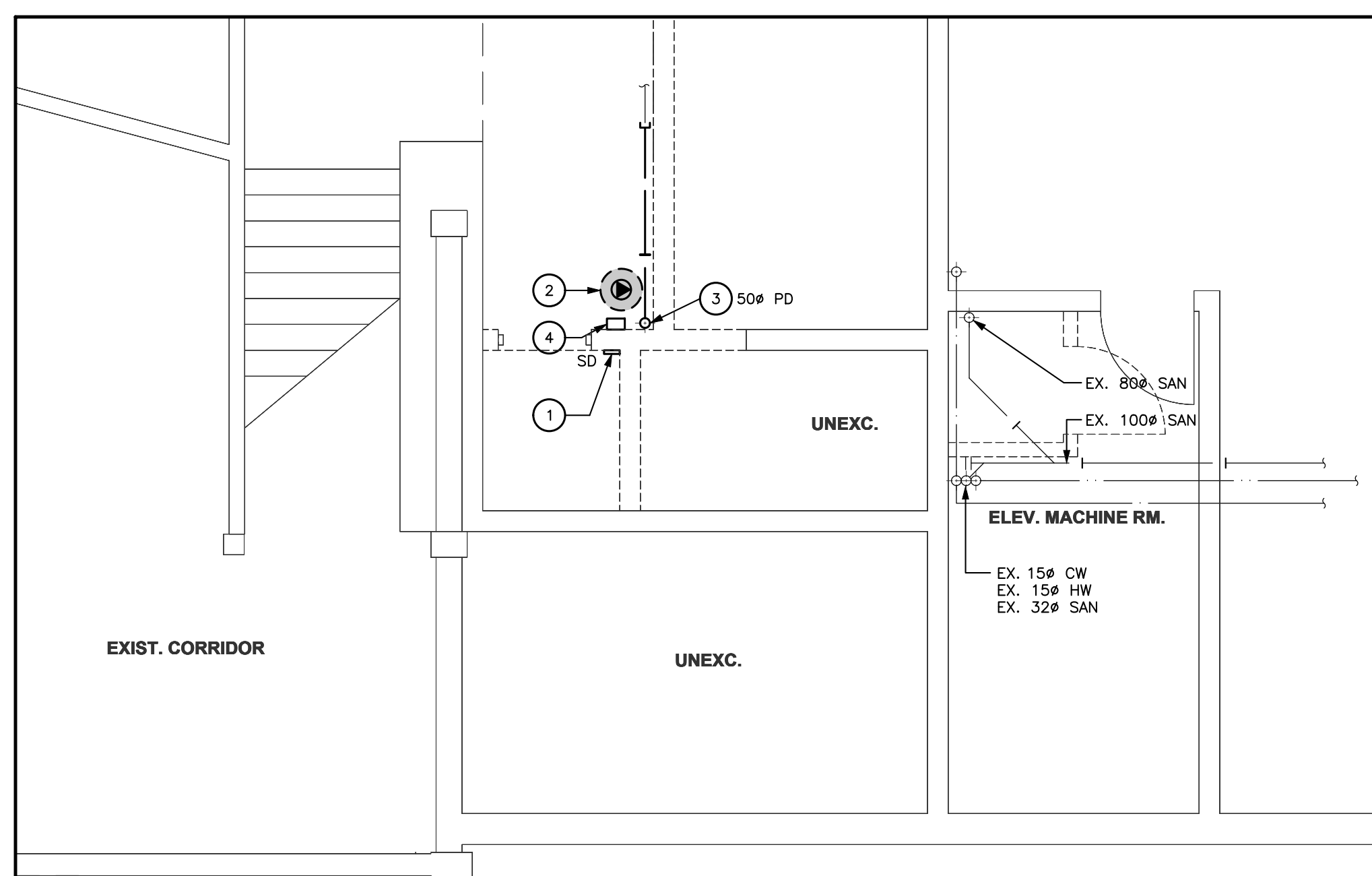
- DRAWING NOTES

1. EXISTING PIPING TO BE REMOVED AND DISPOSED OF.
2. CUTBACK EXISTING PIPING TO EXTENT INDICATED AND PREPARE FOR REUSE. CONTRACTOR TO UTILIZE PIPE FREEZING TO COMPLETE WORK.
3. EXISTING PIPING WITHIN UNEXCAVATED AREA TO BE DEMOLISHED. CONTRACTOR TO DEMOLISH PIPING AS REQUIRED TO FACILITATE COMPLETION OF ELEVATOR INSTALLATION AND NEW WORK.
4. EXISTING PIPING TO REMAIN.
5. EXISTING SANITARY PIPING IN UNEXCAVATED AREA TO REMAIN.
6. DRAIN DOWN EXISTING FIRE LINE TO FACILITATE PIPE REROUTING. MECHANICAL CONTRACTOR TO COORDINATE FIRE WATCH WITH GENERAL CONTRACTOR.

Project North	True North
---------------	------------

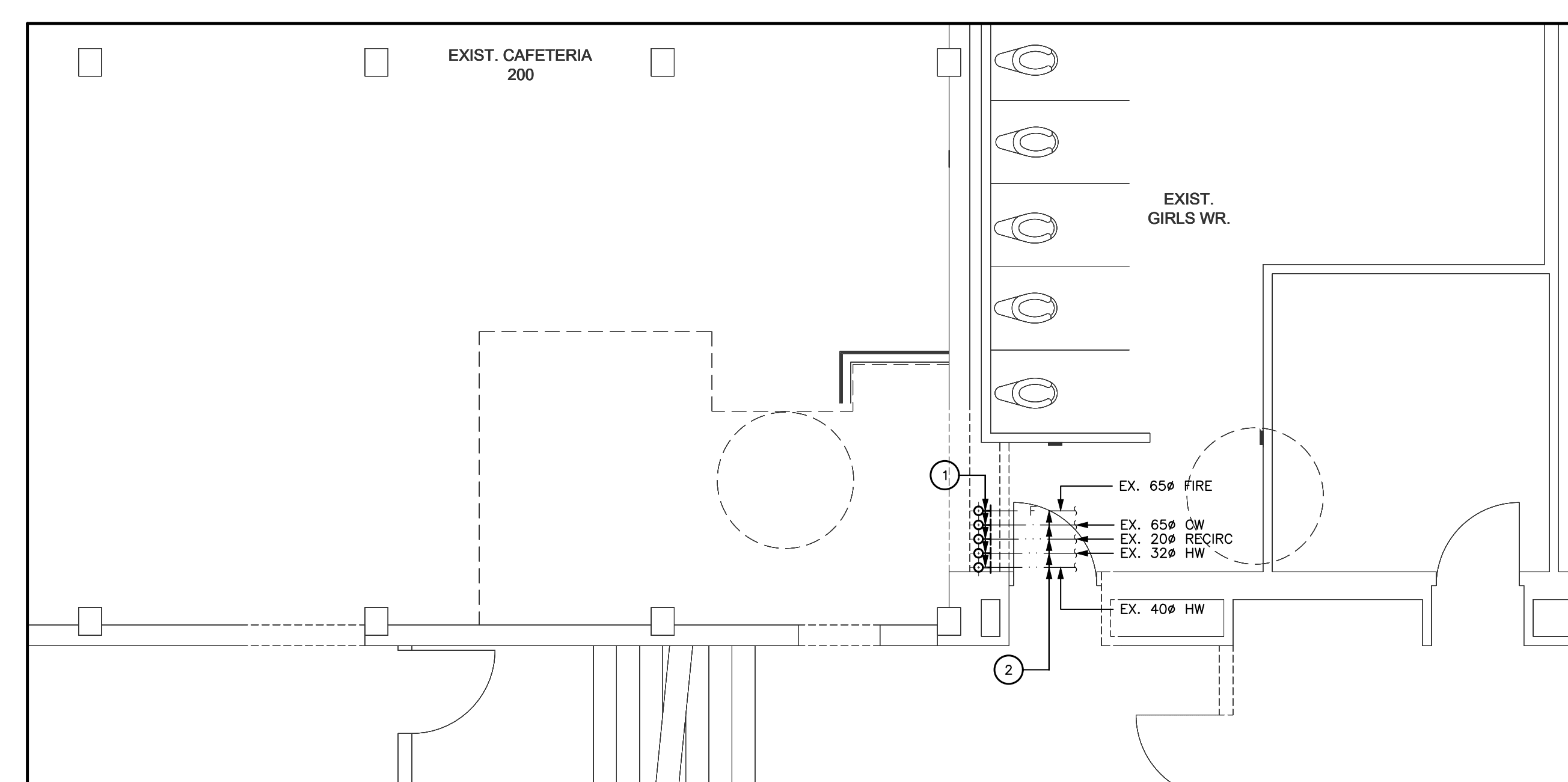
- #### GENERAL NOTES

- A) THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS
- B) FOR DRAWINGS LEGENDS SEE DRAWING MO00.



- DRAWING NOTES

- ① EXISTING ELEVATOR PIT SCUPPER DRAIN TO BE REMOVED AND DISPOSED OF.
- ② EXISTING ELEVATOR SUMP PUMP AND IT TO BE DEMOLISHED AND DISPOSED OF.
- ③ EXISTING ABOVE GRADE SANITARY PUMP DISCHARGE AND SUMP PIT VENTING TO BE DEMOLISHED AND DISPOSED OF.
- ④ EXISTING SUMP PUMP CONTROL PANEL TO BE REMOVED AND DISPOSED OF.



- DRAWING NOTES

- 1 DEMOLISH AND DISPOSE OF EXISTING PIPE RISERS WITHIN EXISTING PIPE CHASE. CONTRACTOR TO UTILIZE PIPE FREEZING TO COMPLETE WORK.
- 2 EXISTING PIPING WITHIN CORRIDOR TO REMAIN. CAP EXISTING PIPING AND PREPARE FOR RECONNECTION.

General Contractor shall check and verify all dimensions and report errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by Architect for construction.

Drawing Title:

LIBRARY WASHROOM
DEMOLITION DRAWING

DEMOLITION DRAINAGE
AND PLUMBING PLAN

Scale: AS NOTED Date: 2025-02-06

Scale: AS NOTED	Date: 2025-03-0
Drawn by: C.C.	Checked by: W

A) THE EXISTING SERVICES SHOWN ON THIS
DRAWING HAVE BEEN TAKEN FROM THE

- INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS
- B) FOR DRAWINGS LEGENDS SEE DRAWING M000.



- 1 DEMOLISH EXISTING DUCTWORK TO EXTENT INDICATED. COMPLETE WITH ALL DUCTWORK ACCESSORIES AND SPECIALTIES.
- 2 CAP EXISTING DUCTWORK AND SEAL AIR TIGHT.
- 3 DEMOLISH AND DISPOSE OF EXISTING EXHAUST AIR GRILL.
- 4 DEMOLISH AND DISPOSE OF EXISTING RADIAN HEAT EXCHANGER. COMPETE WITH ALL ACCESSORIES INCLUDING CONTROL WIRING. REPAIR OR REPLACE EXISTING SPRING AND PROVIDE A CAPPED CONNECTION.
- 5 EXISTING HEATING EQUIPMENT TO REMAIN.
- 6 EXISTING THERMOSTAT TO BE RELOCATED. REFER TO NEW WORK FOR NEW LOCATION. CLOSE OFF EXISTING EXHAUST LINE AND RELOCATE EXHAUST LINE TO EXTEND THIS COMPRESSED AIR LINE OVER TO THE NEW THERMOSTAT LOCATION.
- 7 EXISTING ROOF EXHAUST FAN TO BE SHUT DOWN DURING CONSTRUCTION. MAKE SAFE POWER. COORDINATE WORK WITH ELECTRICAL TRADE. RE-START EXHAUST FAN UPON COMPLETION OF WORK.
- 8 EXISTING HEATING PIPES TO BE DEMOLISHED AND REPLACED WITH NEW. DISCONNECTION SHALL BE DONE IN FIELD. PRELIMING. PROVIDE NEW TIGHT JOINTS WHERE REQUIRED TO FACILITATE NEW WORK.

A) THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS

B) FOR DRAWINGS LEGENDS SEE DRAWING MOOD



- ① DEMOLISH AND DISPOSE OF EXISTING AIR REGISTER
- ② DEMOLISH AND CUTBACK DUCTWORK TO EXTENT INDICATED. CAP AT LOCATION SHOWN

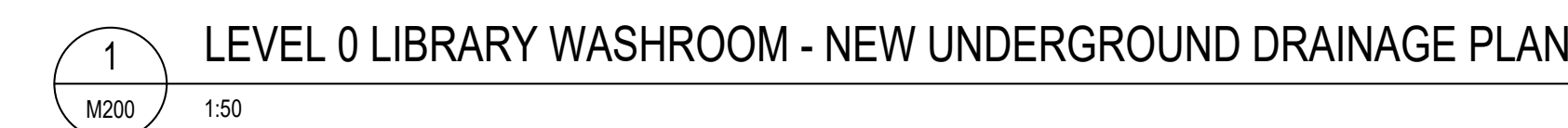
A) THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS

B) FOR DRAWINGS LEGENDS SEE DRAWING M000.

- ① DEMOLISH AND DISPOSE OF EXISTING AIR GRILLES AND DUCTWORK ACCESSORIES.
- ② DEMOLISH AND CUTBACK DUCTWORK TO EXTENT INDICATED. CAP AT LOCATION SHOWN

A) THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS

B) FOR DRAWINGS LEGENDS SEE DRAWING M000.



- # GENERAL NOTES
- 1. PIPING, VALVES AND EQUIPMENT TO BE CONCEALED UNLESS OTHERWISE NOTED.
 - 2. CO-ORDINATE ALL FLOOR DRAINS WITH ARCHITECTURAL DRAWINGS.
 - 3. ALL RUNNING TRAPS TO BE COMPLETE WITH RAP SEAL PRIMER CONNECTION.
 - 4. CO-ORDINATE PIPE RUNS WITH SHEETMETAL, HEATING SPRINKLER AND ELECTRICAL DIVISIONS.
 - 5. SUPPLY AND INSTALL PIPE SLEEVES FOR PIPES PASSING THROUGH FOUNDATION WALLS OR FLOORS.
 - 6. ALL CATCHBASINS/AREA DRAINS AND FLOOR DRAINS TO BE INDIVIDUALLY TRAPPED, PRIMED AND VENTED.
- FOR DRAWINGS LEGENDS SEE DRAWING MOOD.



- ## GENERAL NOTES
- A) ALL PIPING, VALVES AND EQUIPMENT TO BE CONCEALED UNLESS OTHERWISE NOTED.
 - B) CO-ORDINATE ALL FLOOR DRAINS WITH ARCHITECTURAL DRAWINGS.
 - C) ALL RUNNING TRAPS TO BE COMPLETE WITH TRAP, PRIMER CONNECTION.
 - D) CO-ORDINATE PIPE RUNS WITH SHEETMETAL, HEATING, SPRINKLER AND ELECTRICAL DIVISIONS.
 - E) SUPPLY AND INSTALL PIPE SLEEVES FOR PIPES PASSING THROUGH FOUNDATION WALLS AND FLOORS.
 - F) PROVIDE INDIVIDUAL ISOLATION VALVES FOR EACH PIPE (I.E. DOW, CHW) SERVING EACH PLUMBING FIXTURE.
 - G) REFER TO ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE MOUNTING HEIGHTS AND INSTALLATION INSTRUCTIONS.
 - H) FOR DRAWINGS LEGENDS SEE DRAWING M000.

Consultants

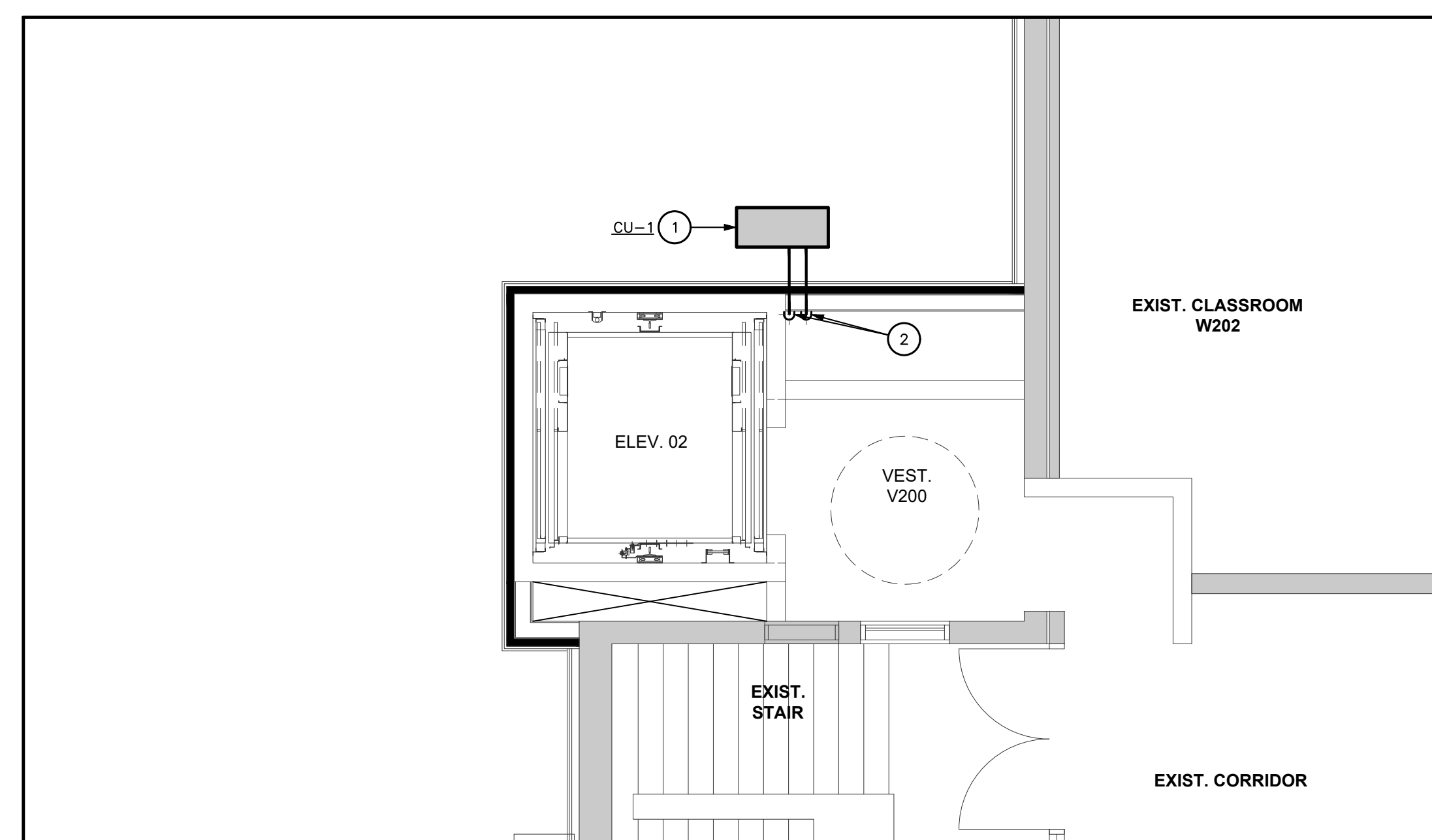
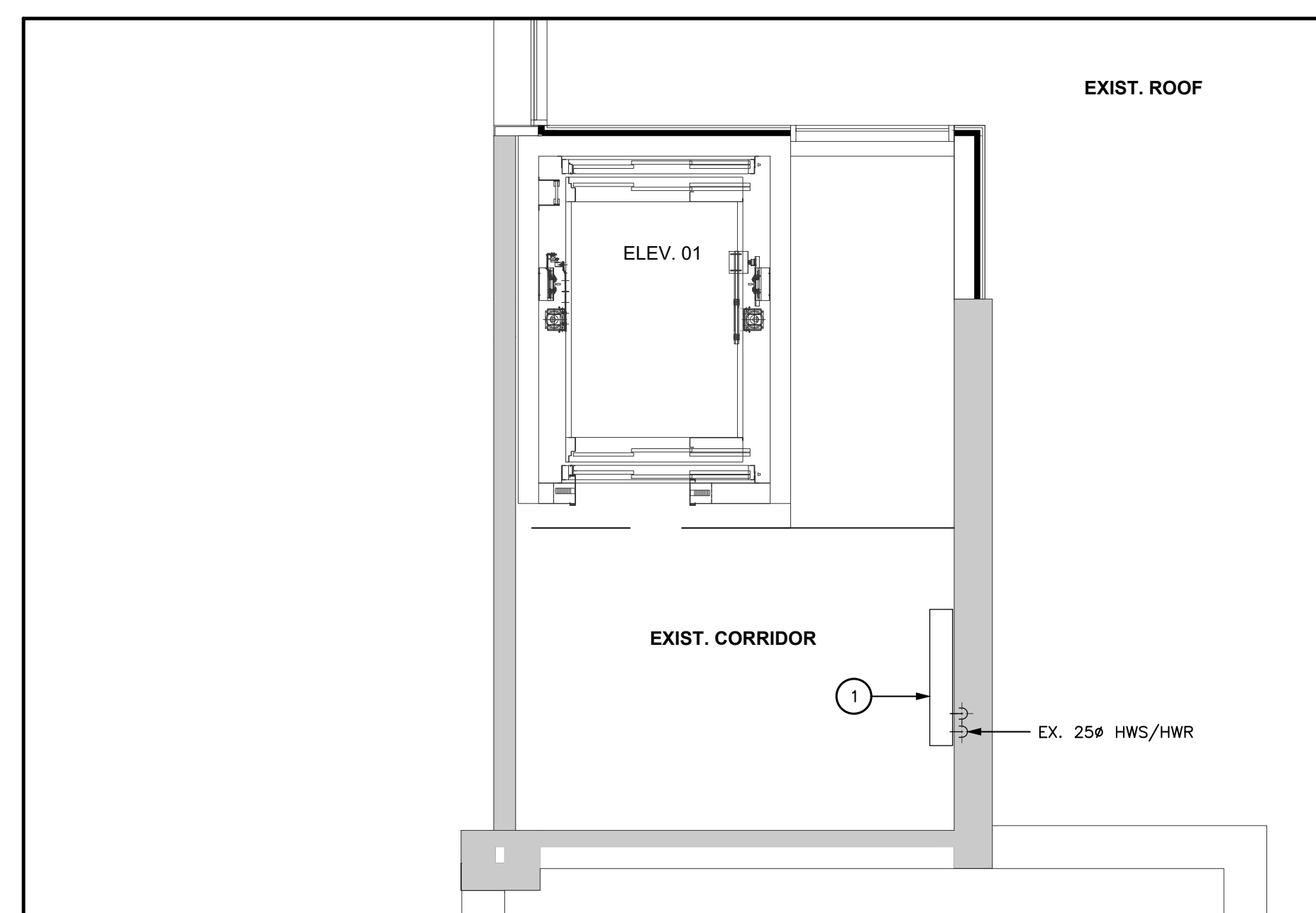
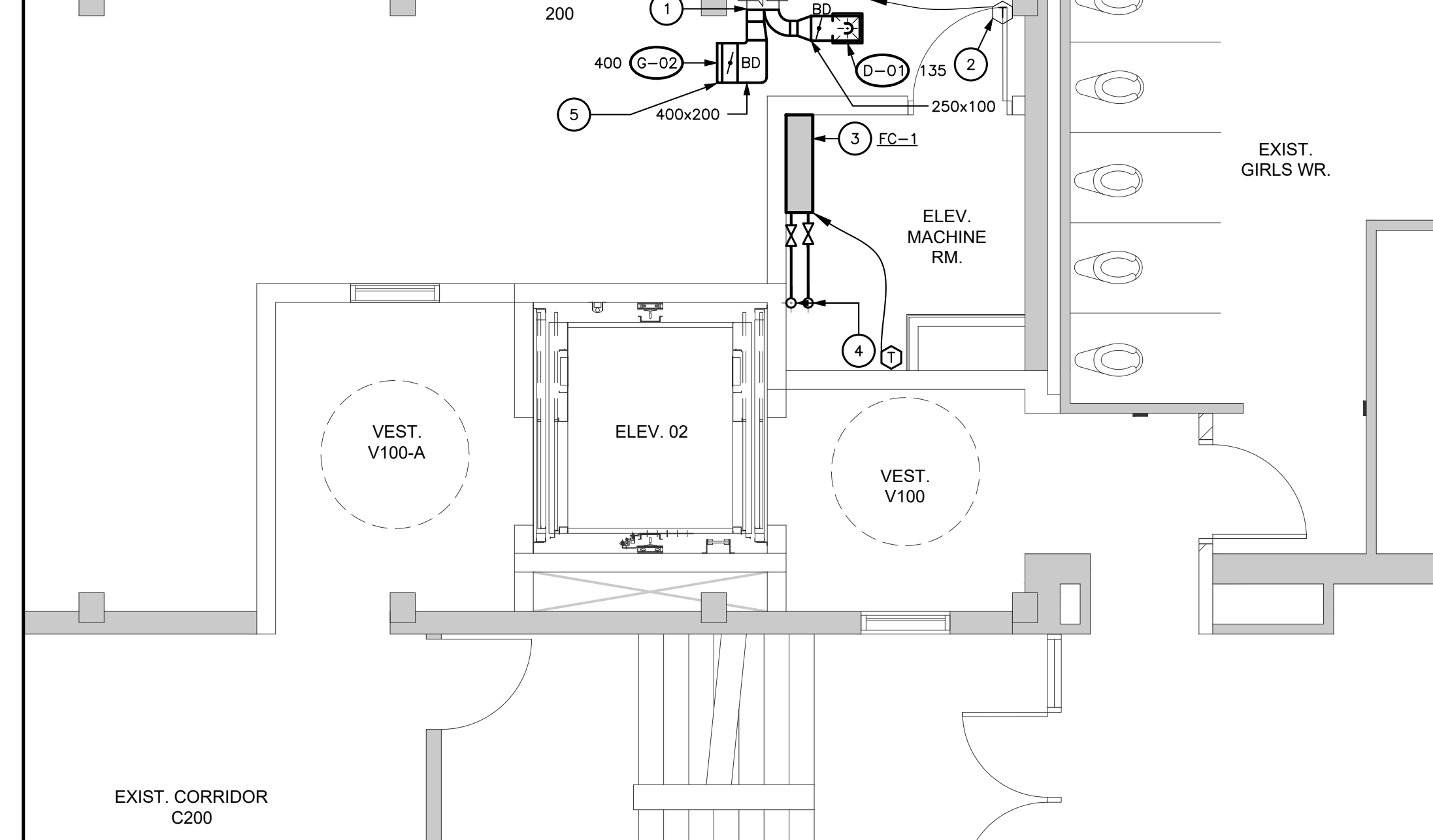
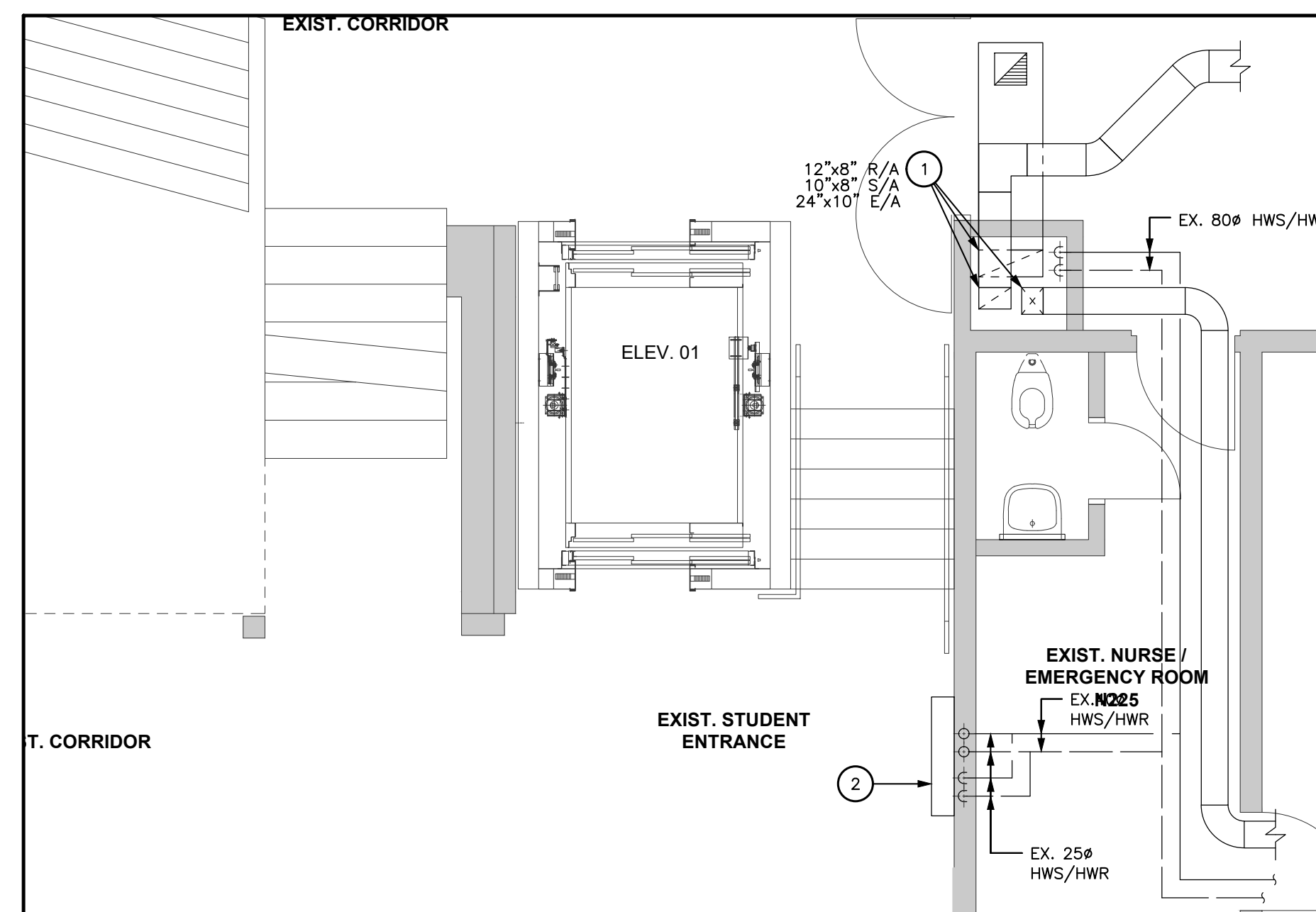
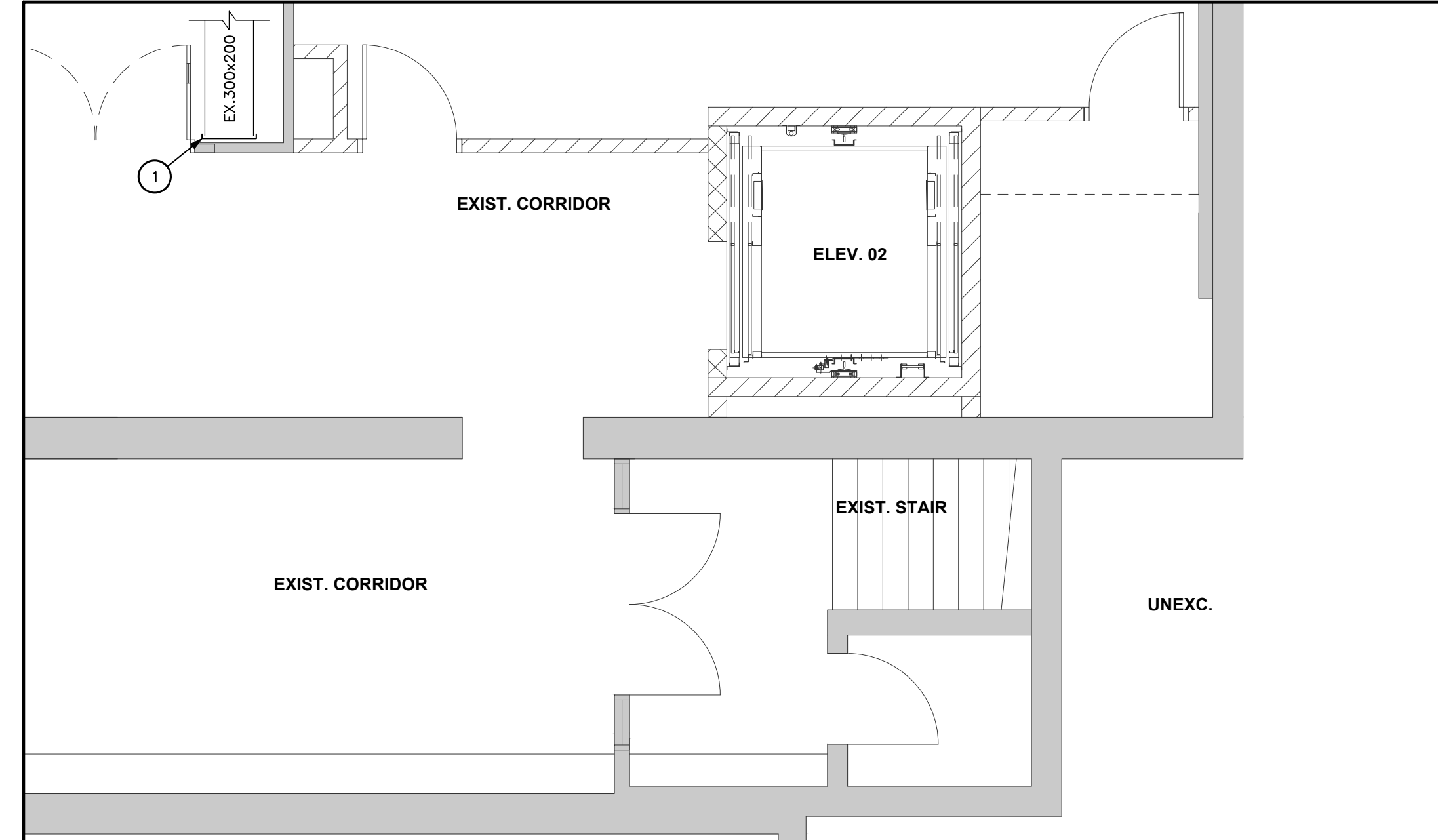
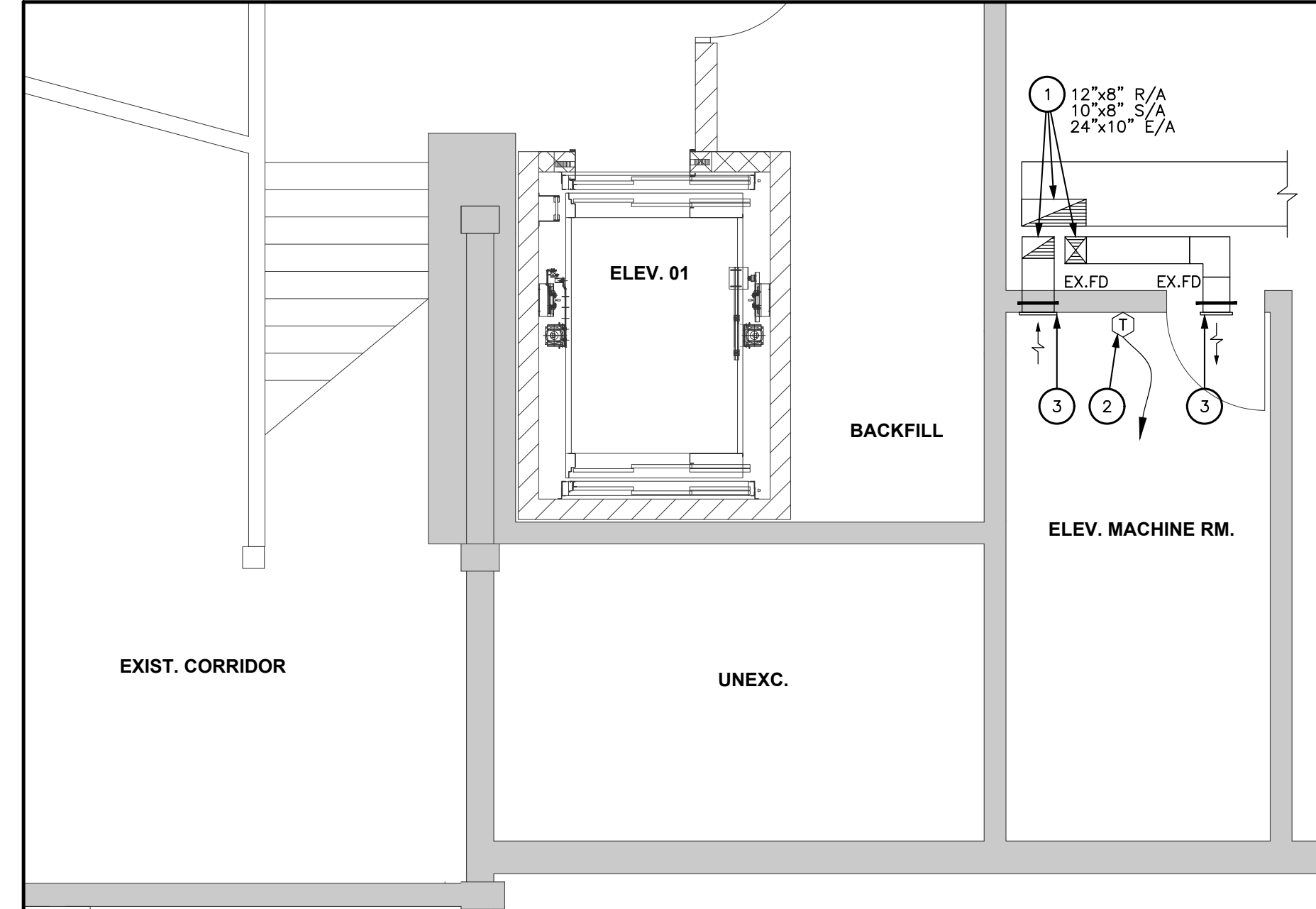
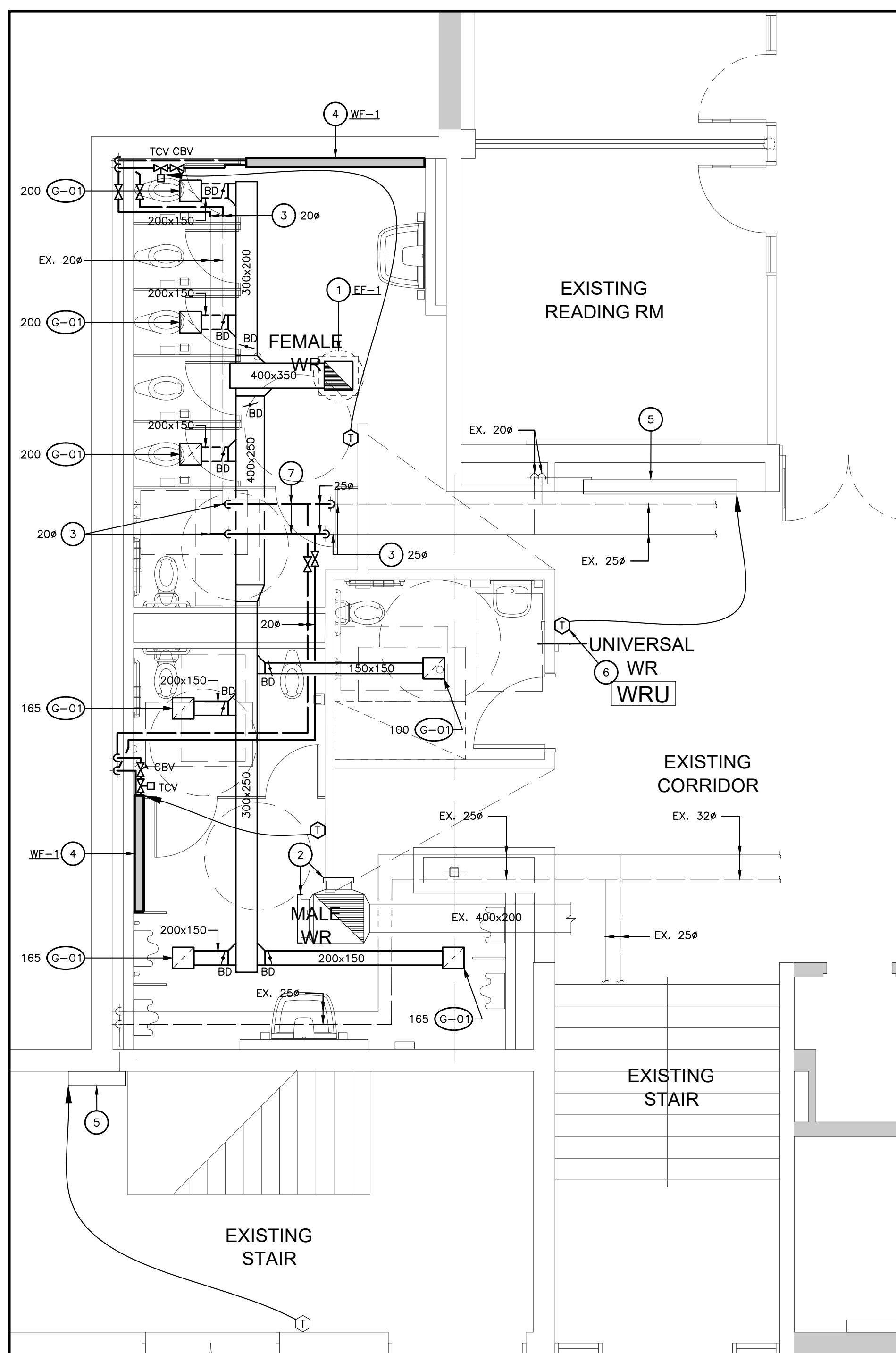
Structural Consultants
Kalos Engineering Inc.
300 York Boulevard
Hamilton, Ontario, L8R 3K6
Tel: 905-333-9119

Mechanical and Electrical Consultants
EXP
1266 S. Service Rd.,
Stoney Creek, Ontario, L8E 5R9
Tel: 905-525-6069

[illegible]

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

Scale: AS NOTED	Date: 2025-03-03
Drawn by: CC	Checked by: WD
Job No. ALL-22020201	Drawing No. M200



- ## DRAWING NOTES
1. OUTLINE OF NEW ROOF MOUNTED EXHAUST FAN ABOVE. INSTALL AS PER MANUFACTURERS INSTRUCTIONS. COMPLETE WITH CURBS AND BACK DRAFT DAMPER.
 2. CAP EXISTING DUCTWORK AND SEAL AIR TIGHT.
 3. CONNECT TO EXISTING HEATING WATER SUPPLY AND RETURN PIPING AT APPROPRIATE LOCATION.
 4. INSTALL NEW WALL FAN CONNECTOR DETAILS WITH CONTROL VALVE. REFER TO MECHANICAL SPECIFICATIONS FOR PIPING ARRANGEMENTS.
 5. EXISTING HEATING EQUIPMENT TO REMAIN.
 6. EXISTING THERMOSTAT TO BE RE-INSTALLED AT NEW LOCATION. EXTEND EXISTING COMPRESSED AIR LINE FROM ORIGINAL THERMOSTAT LOCATION TO RELOCATED POSITION.
 7. OFFSET HEATING PIPES TO CLEAR NEW DUCTWORK

- # GENERAL NOTES
- A) MINIMUM PIPE SIZE TO BE 20mm (3/4") DIAMETER UNLESS OTHERWISE NOTED.
 - B) ALL PRESSURE VALVES AND EQUIPMENT SHALL BE UNLESS OTHERWISE NOTED OTHERWISE.
 - C) CO-ORDINATE PIPE RUNS WITH SHEETMETAL PLUMBING, SPRINKLER AND ELECTRICAL DIVISIONS.
 - D) FOR EXACT LOCATION OF GRILLES AND DIFFUSERS REFER TO ARCHITECTURAL, REFLECTED LIGHTING PLAN.
 - E) ALL DUCTWORK AND EQUIPMENT TO BE CONCEALED IN CEILING SPACE UNLESS NOTED OTHERWISE.
 - F) DUCT RUNOUTS TO MATCH GRILLE/DIFFUSER SIZE UNLESS OTHERWISE NOTED.
 - G) DUCTWORK LOCATIONS TO BE FULLY CO-ORDINATED WITH GENERAL PLUMBING, SPRINKLER AND ELECTRICAL CONTRACTORS PRIOR TO FABRICATION OR INSTALLATION.
 - H) FOR DRAWING LEGENDS SEE DRAWING MOOD.
 - I) READ IN CONJUNCTION WITH SCHEMATICS AND DETAILS.

- ### DRAWING NOTES
- 1 EXISTING DUCTWORK RISES UP TO FLOOR ABOVE.
 - 2 EXISTING T-STAT TO REMAIN.
 - 3 EXISTING AIR REGISTERS TO REMAIN.

- ### DRAWING NOTES
1. EXISTING DUCTWORK CONTINUES DOWN TO FLOOR BELOW.
 2. EXISTING RADIANT HEATER TO REMAIN.

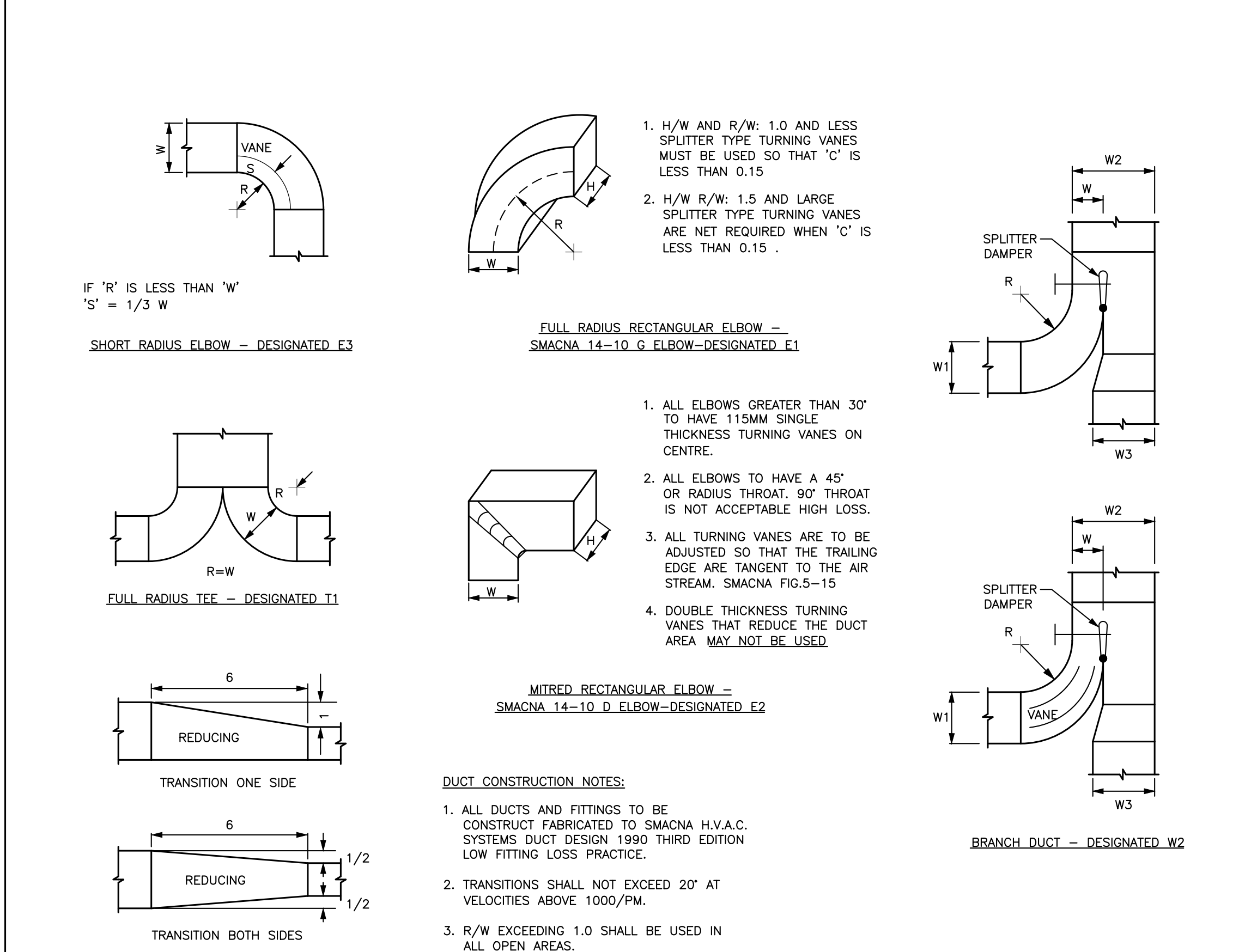
- DRAWING NOTES**
- 1 EXISTING RADIANT HEATER TO REMAIN.

- DRAWING NOTES**
- 1 CAP EXISTING DUCTWORK AS INDICATED. SEAL AND MAKE AIR TIGHT.

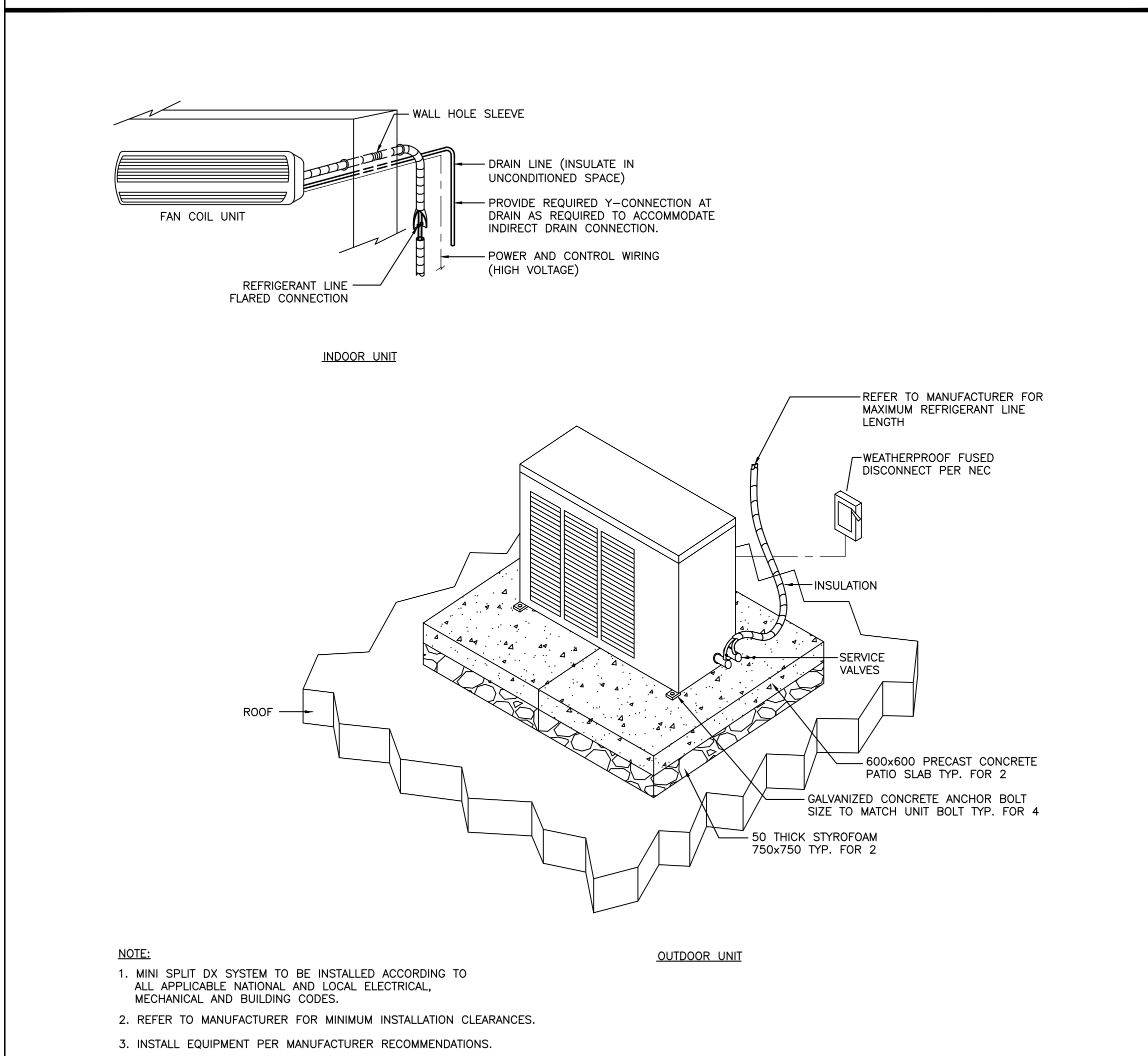
- ## DRAWING NOTES
1. RELOCATE EXISTING AIR GRILLES TO POSITION INDICATED. PATCH/MODIFY DUCTWORK AND SEAL AIR TIGHT. RE-BALANCE AIRFLOW TO PRE CONSTRUCTION LEVELS.
 2. EXISTING THERMOSTAT TO REMAIN.
 3. OUTLINE OF FAN COIL UNIT TO BE SUITABLY SUPPORTED FROM WALL. INSTALL UNIT TO MANUFACTURERS RECOMMENDATION. PROVIDE REFRIGERANT PIPES COORDINATE WITH EQUIPMENT MANUFACTURER FOR PIPE SIZES. EXACT LOCATION TO BE COORDINATED WITH FINAL ELEVATOR MACHINE ROOM LAYOUT.
 4. RISE REFRIGERANT UP TO ROOF ABOVE.
 5. INSTALL NEW AIR REGISTER WITHIN EXISTING BULKHEAD MATCH VENTILATION WITH NEARBY EXISTING REGISTERS.

- # DRAWING NOTES
1. OUTLINE OF CONDENSING UNIT TO BE MOUNTED ON ECO-FOOT® SUPPORT KIT TO ACCEPT UNIT—STRUTS FRAMING, SUPPORT KIT TO BE MOUNTED ON 450X450 NON-PENETRATIVE "UV" STAINLESS STEEL BASES AND FINISH WITH PRE-FORMED BRACKET. INSTALL CONDENSING UNIT TO MANUFACTURERS RECOMMENDATIONS AND INSTRUCTIONS. PROVIDE REFRIGERANT PIPING AS REQUIRED. COORDINATE WITH EQUIPMENT MANUFACTURER FOR PIPE SIZING.
 2. DROP REFRIGERANT PIPING DOWN THROUGH ROOF TO BELOW.

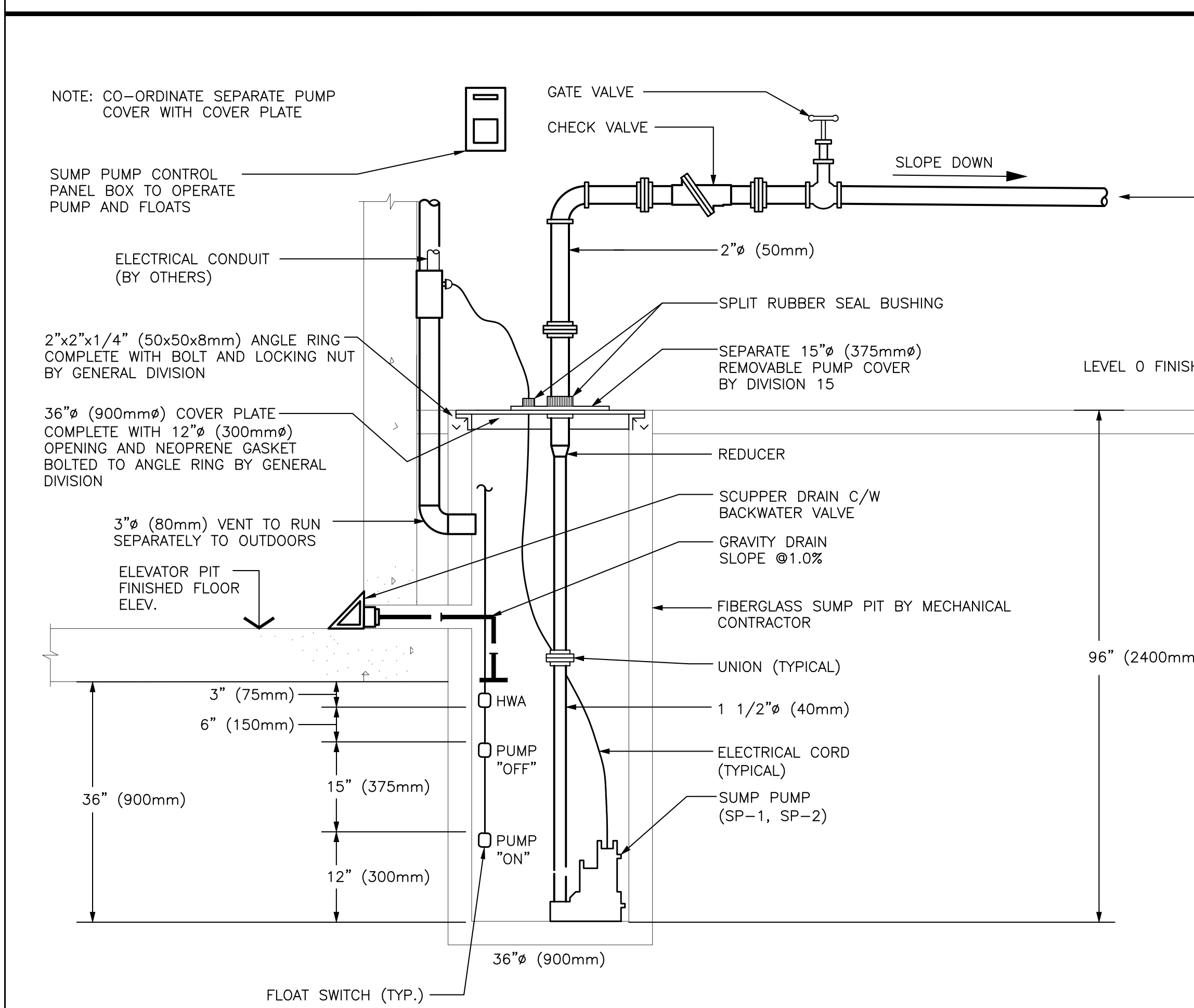
[illegible]



SQUARE, RADIUS ELBOW AND TRANSITION FITTINGS

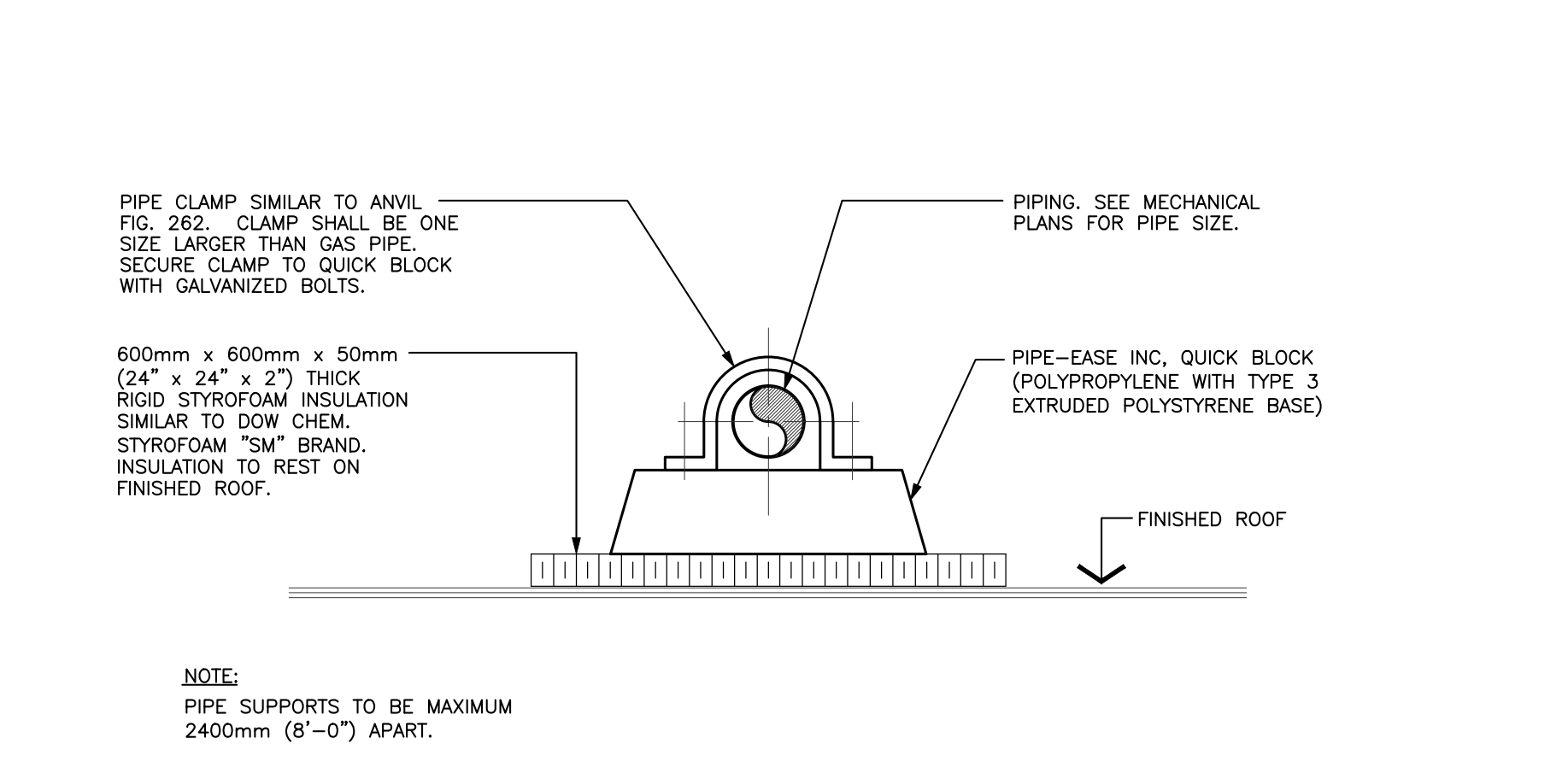


SPLIT DX SYSTEM INSTALLATION DETAIL

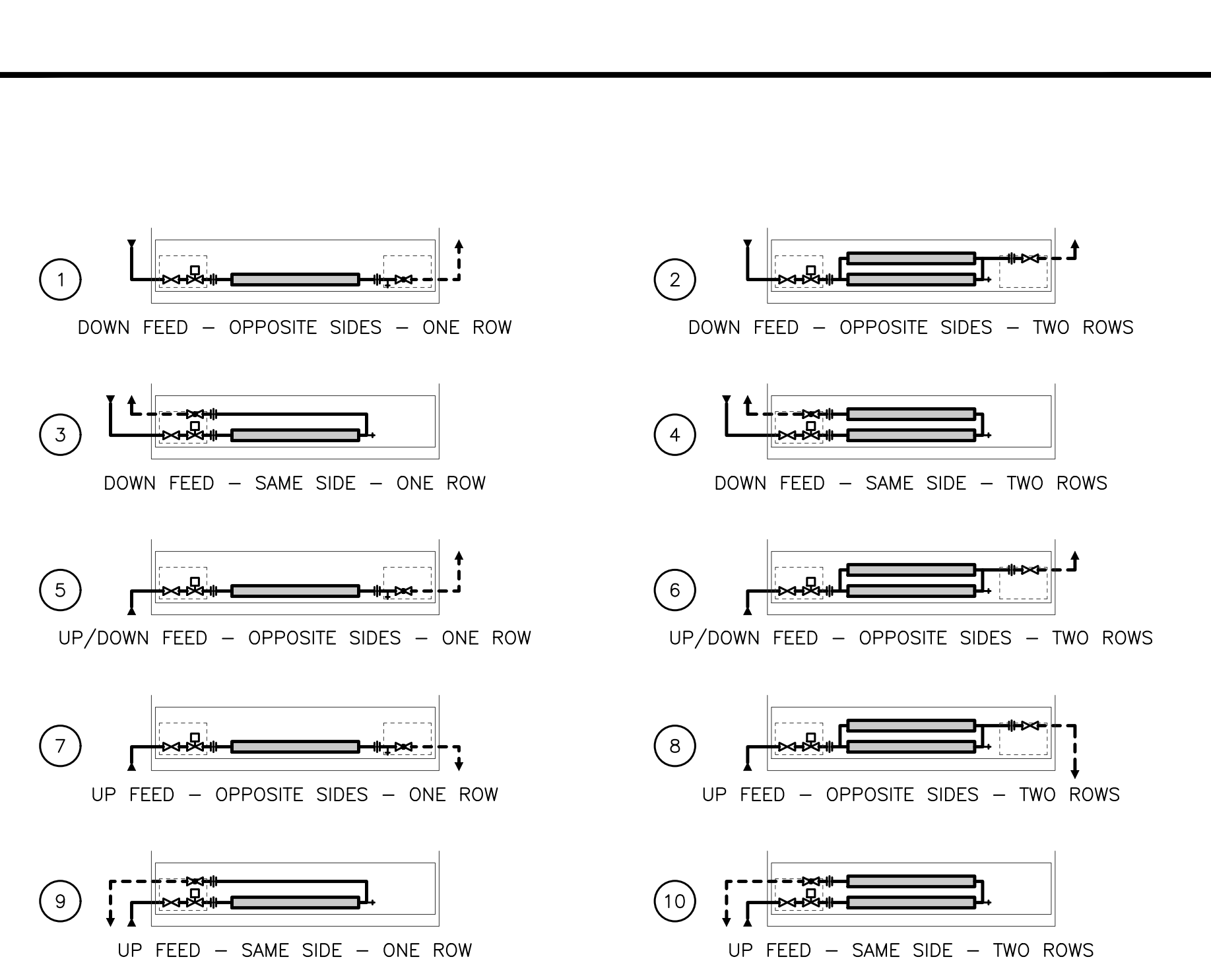


ELEVATOR SUMP PUMP DETAIL

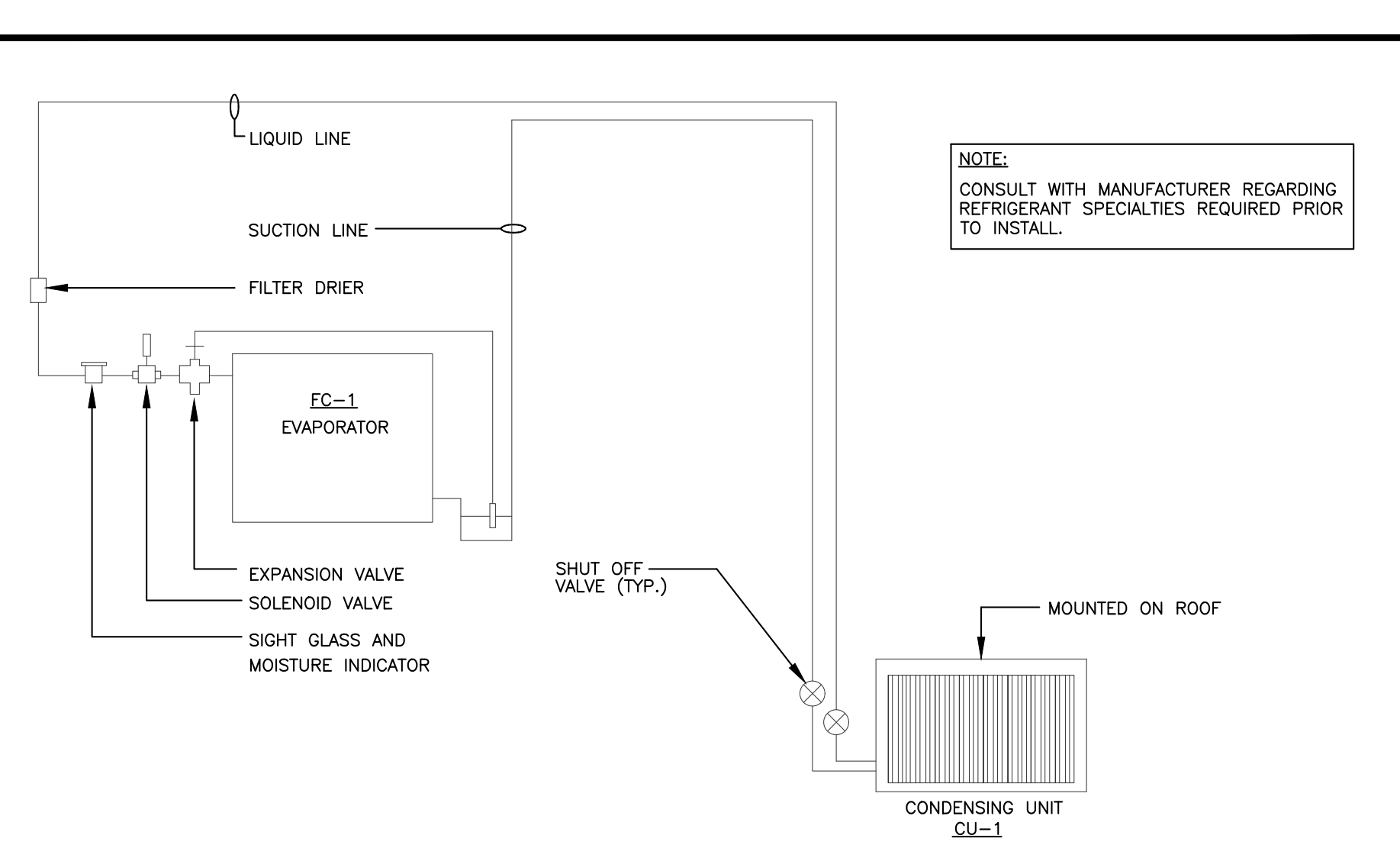
00000



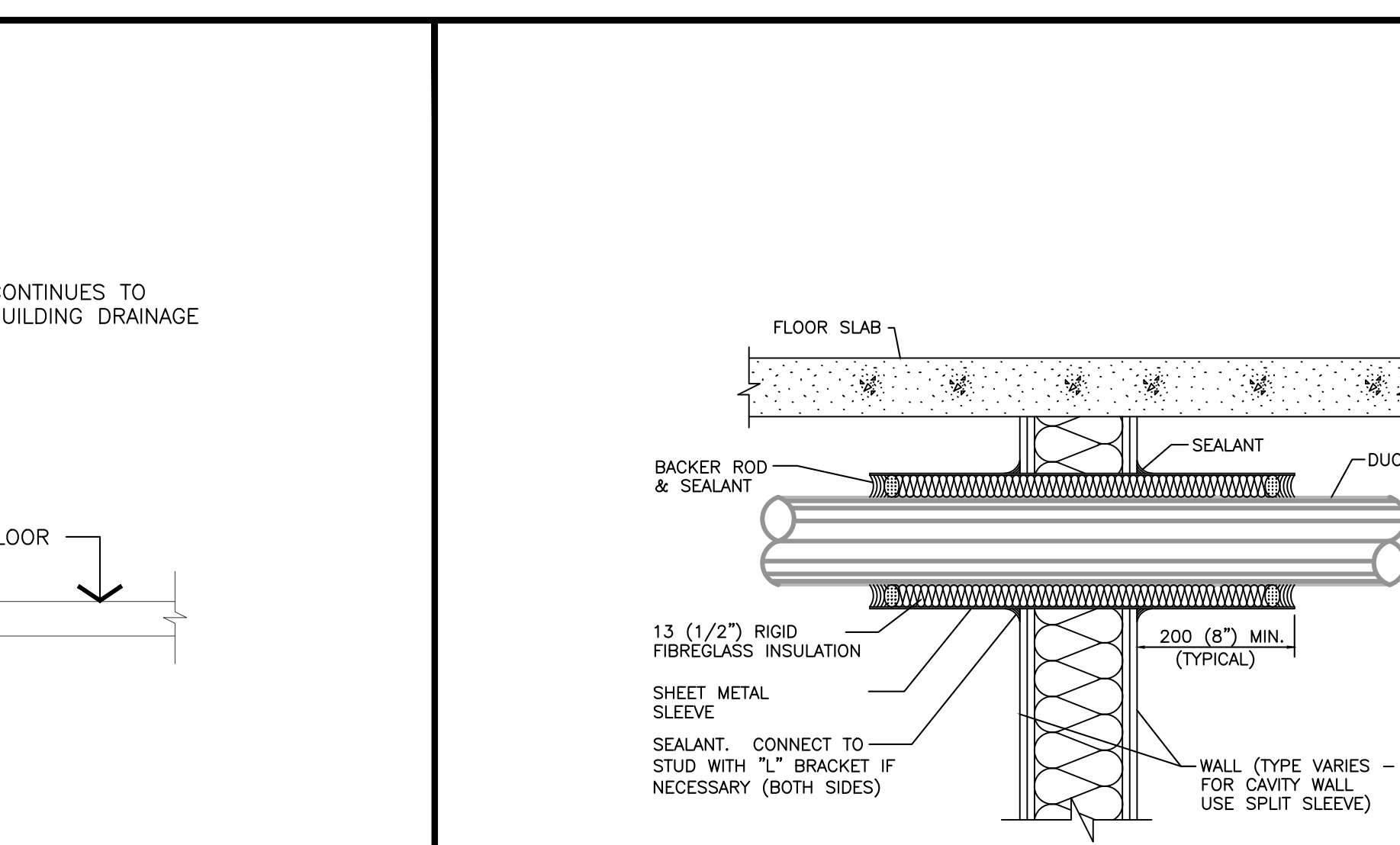
TYPICAL PIPING SUPPORT ON ROOF



TYPICAL WALL FIN CONVECTOR PIPE CONNECTIONS

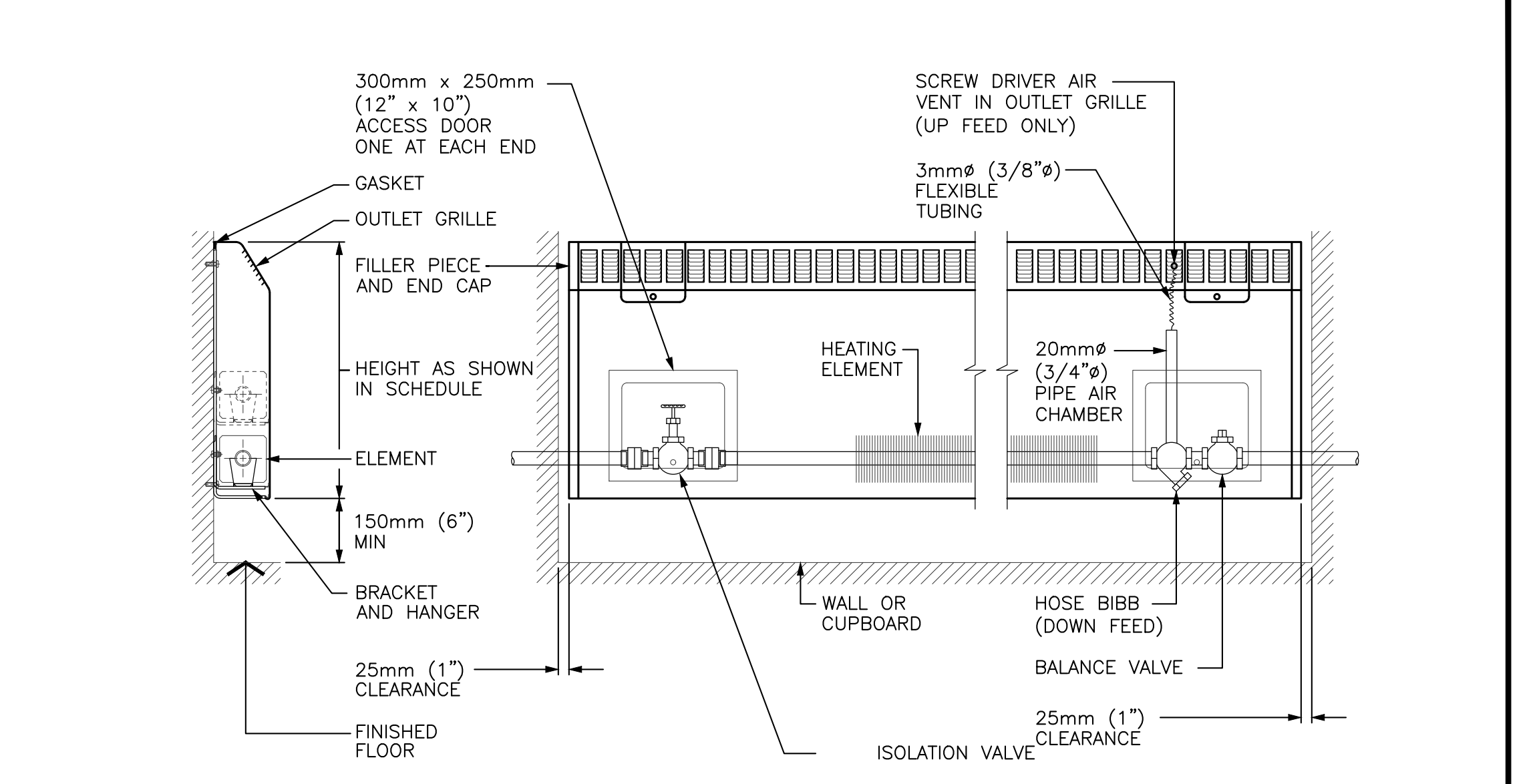


SPLIT VRF SYSTEM PIPING DETAIL

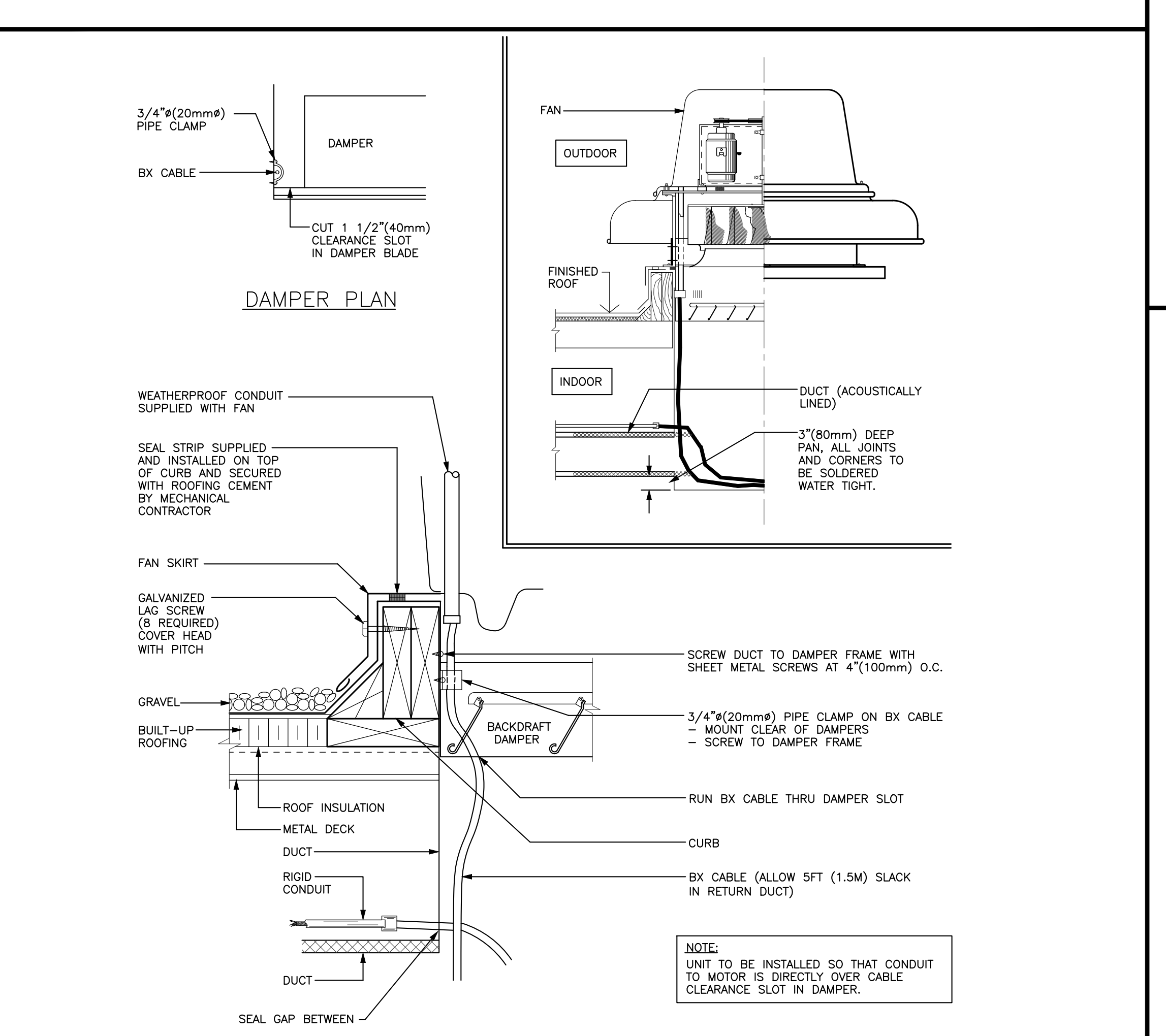


PIPE & DUCT PENETRATIONS DETAIL

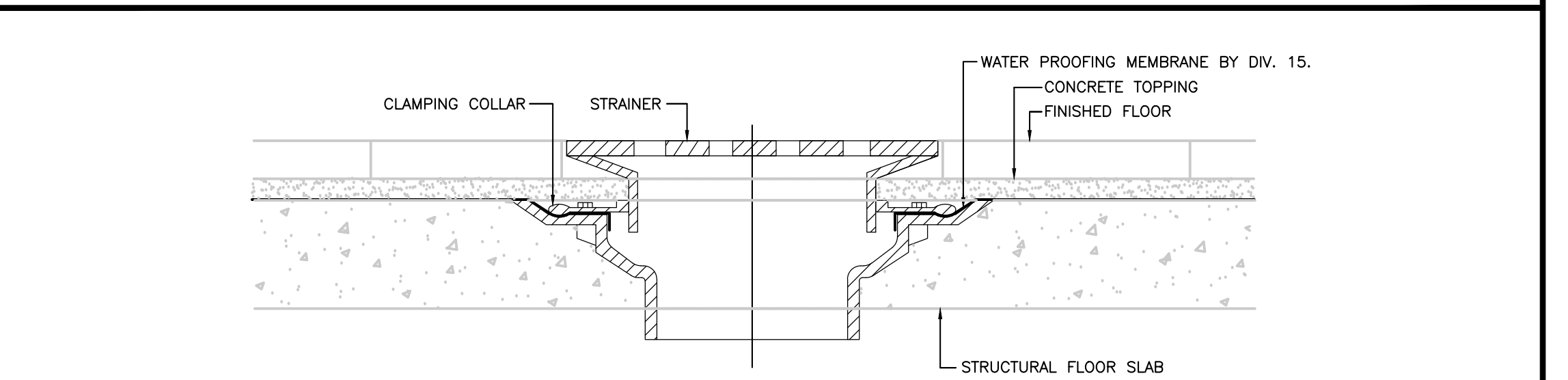
00000



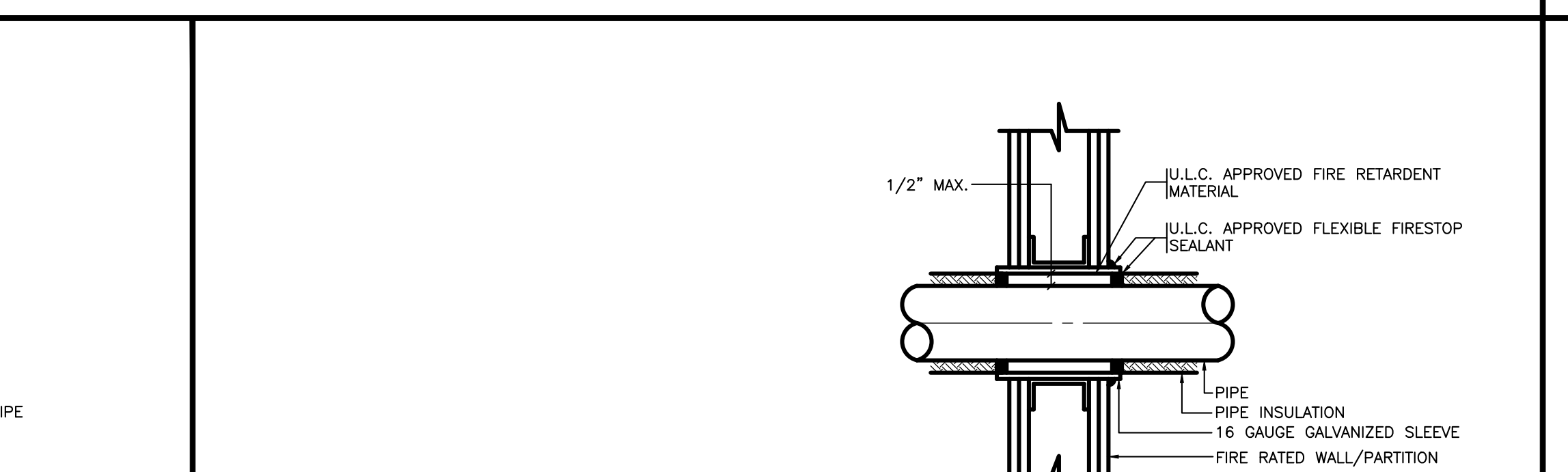
TYPICAL CONTINUOUS — CONVECTOR DETAIL



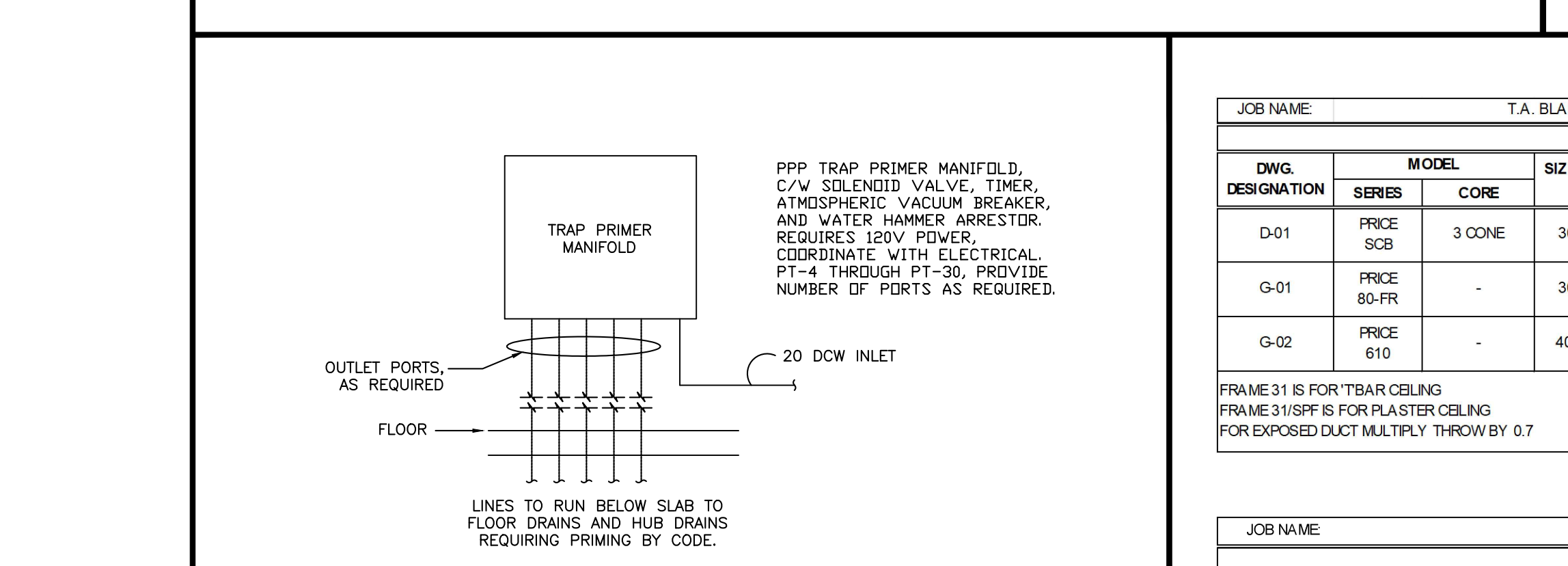
TYPICAL CURB MOUNTED FAN INSTALLATION



FLOOR DRAIN DETAIL

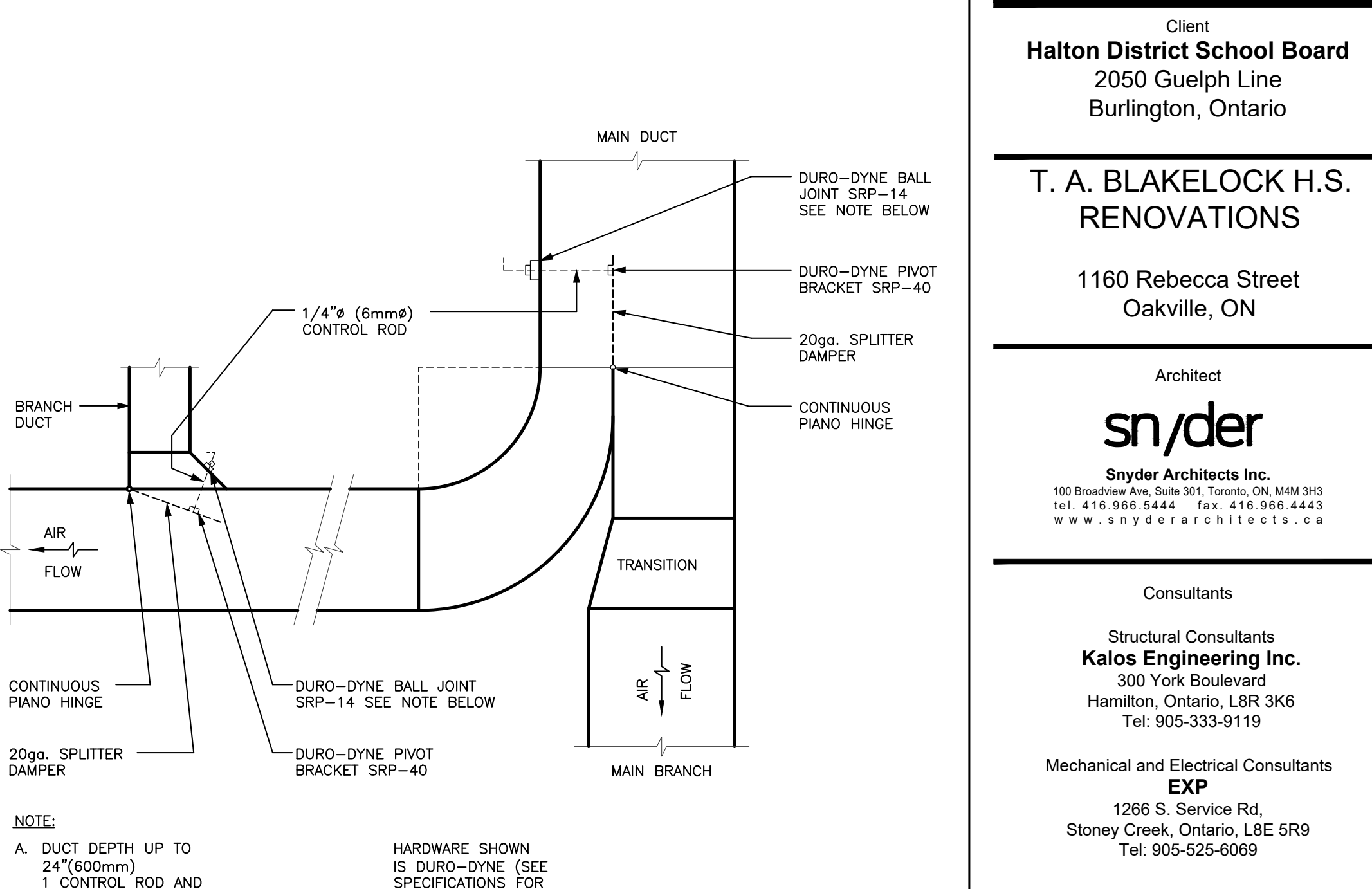


DETAIL OF PIPE SLEEVE THROUGH FIRE RATED WALL

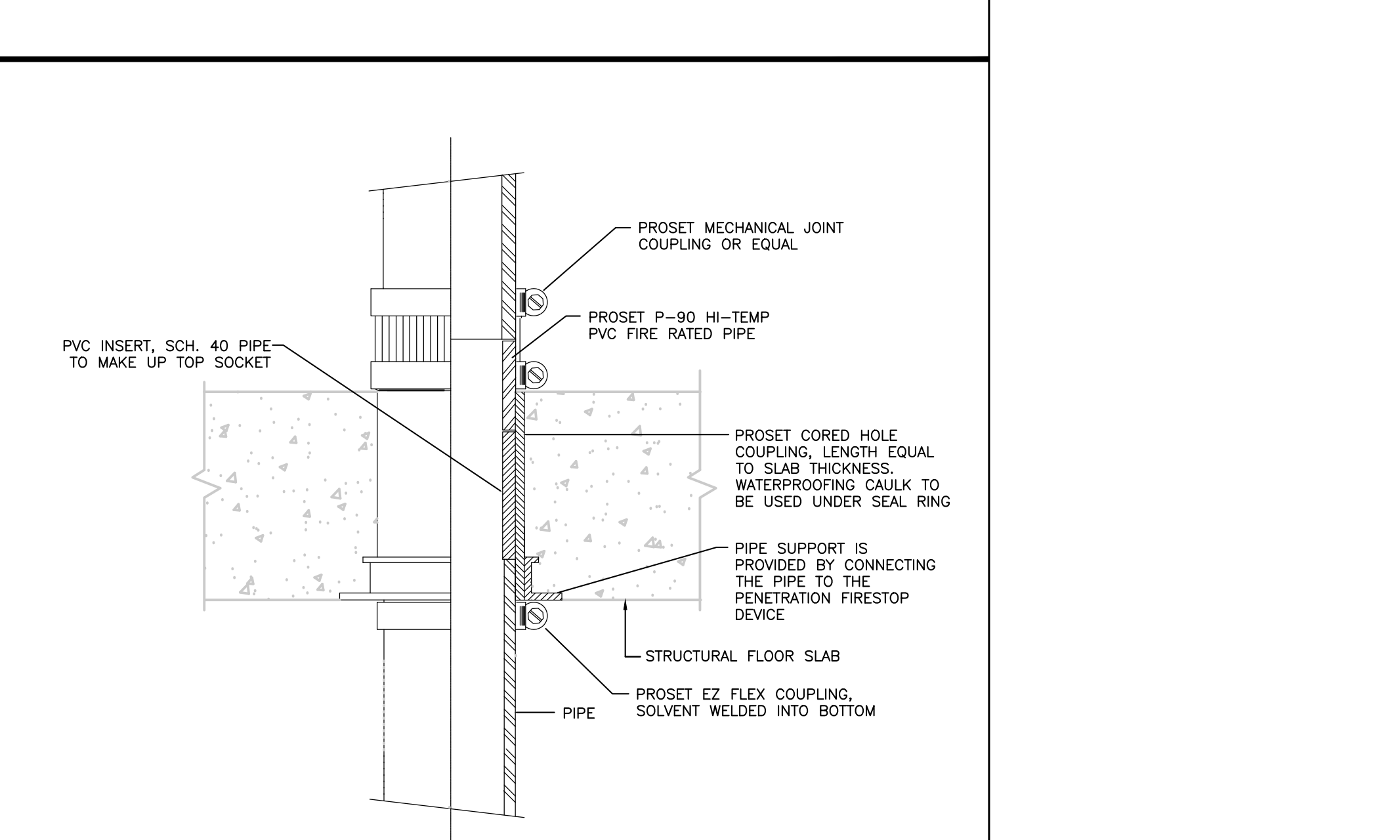


TRAP PRIMER MANIFOLD DETAIL

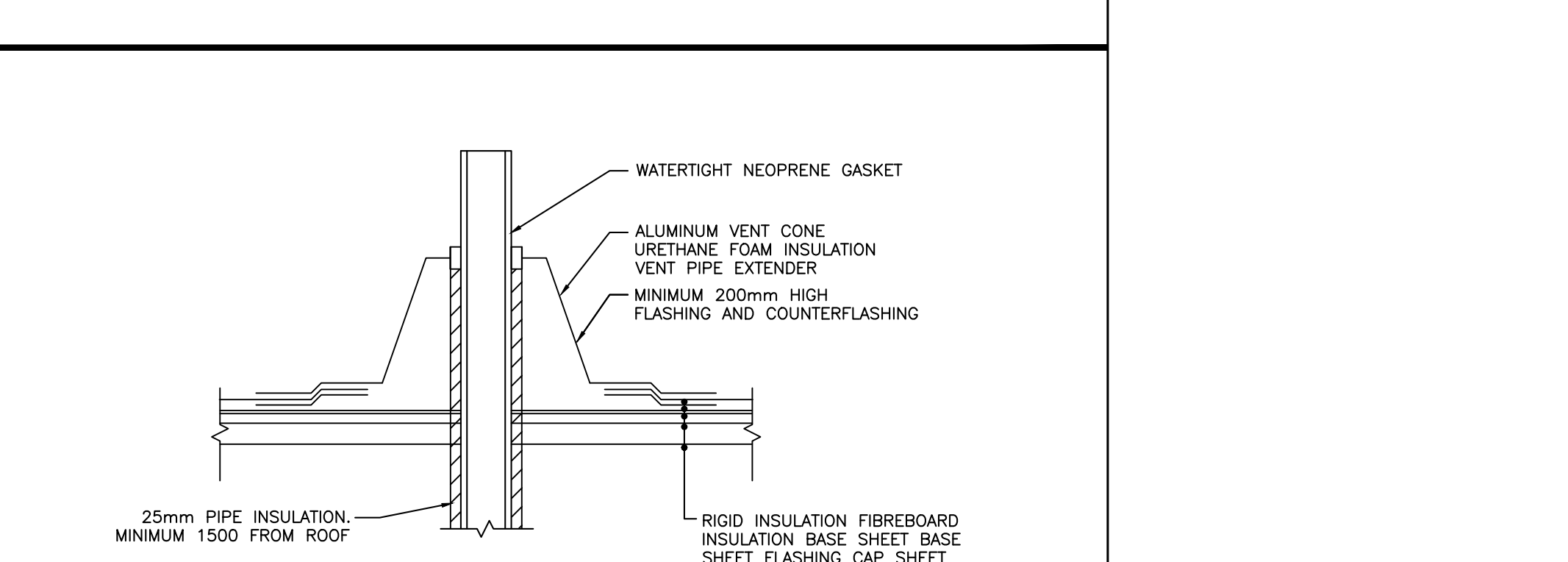
00000



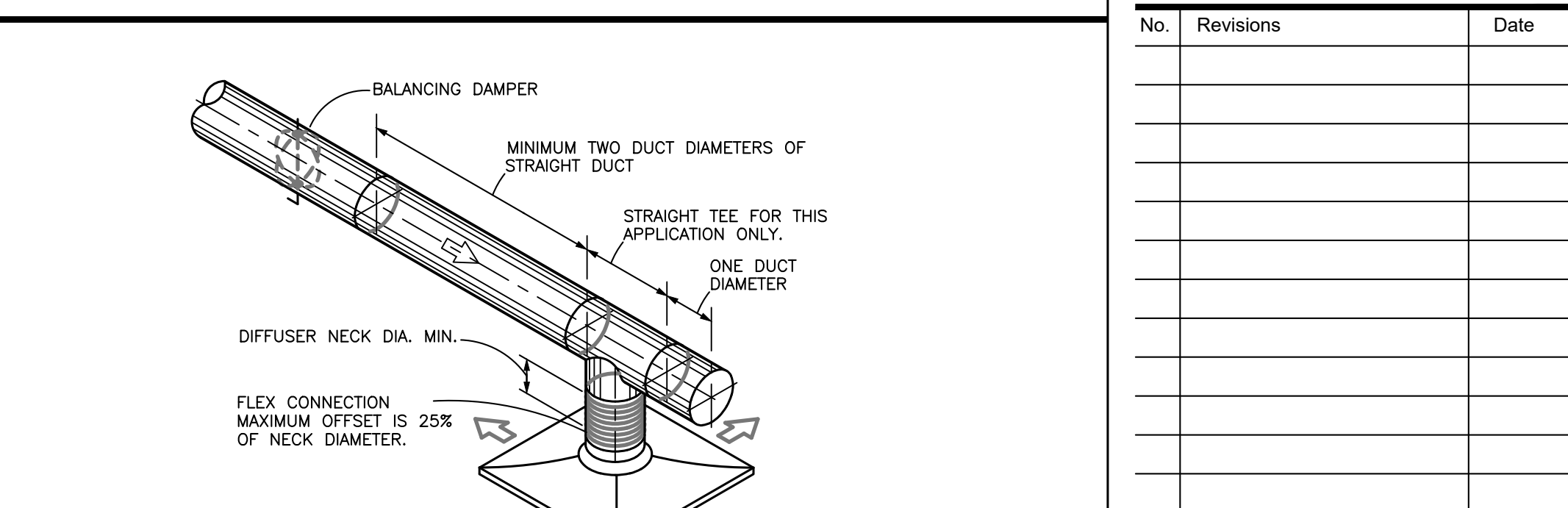
TYPICAL DUCT CONNECTION



DETAIL OF PIPE THROUGH FLOOR SLAB



PLUMBING VENT DETAIL



TYPICAL DIFFUSER CONNECTION DETAIL

MECHANICAL SCHEDULE - GRILLES AND DIFFUSERS									
DWG. DESIGNATION	SERIES	CORE	SIZE (L x W) (MM)	NECK SIZE (MM)	MIN	MAX	SP (IN/W) (MM)	MIN	MAX
G-01	PRICE SCB	3 CORE	300 x 300	150 DIA.	30	250	0.01	0.02	
G-01	PRICE B01P	-	300 x 300	-	30	700	0	0.08	
G-02	PRICE B10	-	400 x 200	-	250	600	0.08	0.03	

MECHANICAL SCHEDULE - CONVECTION RADIATOR									
DWG. DESIGNATION	SYSTEM AND ROOM	MODEL	ROWS	ENCLOSURE HEIGHT (IN)	OUTPUT (BTU/HW) (MM)	AVG WYTR TEMP (F)	MECHANICAL REMARKS	Scale:	Date:
WF-1	NEW WASHROOMS	ENKA WF-1A	2 at 300mm CENTER	24	2000	170	COPPER TUBE ALUMINUM FIN MOUNT AT 1000 A.F.F. FIELD MEASURE EXACT COVER LENGTH PRIOR TO ORDERING. DOWN ACCESS DOOR CORNER HOOK, BUTT JOINT AND ENCLOSURE BRACKETS, HANGERS AND END CAPS.	Drawn by: JL	Checked by: WD
								Job No.	Drawing No.

ALL-22020201

Client
Halton District School Board
2050 Guelph Line
Burlington, Ontario

**T. A. BLAKELOCK H.S.
RENOVATIONS**

1160 Rebecca Street
Oakville, ON

Architect
sn/der
Snyder Architects Inc.
100 Broadview Ave. Suite 201, Toronto, ON M4M 3H3
Tel: 416-593-8844 Fax: 416-593-4443
www.snyderarchitects.ca

Consultants
Kalos Engineering Inc.
300 York Boulevard
Hamilton, Ontario L8R 3K6
Tel: 905-333-9119

Mechanical and Electrical Consultants
EXP
1286 S. Service Rd.
Stoney Creek, Ontario L3E 5R9
Tel: 905-525-6089

Project North

True North

No.	Revisions	Date
1	ISSUED FOR PERMIT	2025 04 08
2	ISSUED FOR REVIEW	2025 03 21
3	ISSUED FOR TENDER	2025 04 17

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

MECHANICAL DETAILS AND SCHEDULES

Scale: N.T.S. Date: 2025-03-03
Drawn by: JL Checked by: WD
Job No. Drawing No.

M400

JOB NAME: TLA BLANKBOOK HIGH SCHOOL RENOVATIONS										ALL 2/20/2020/1				
MECHANICAL SCHEDULE - FANS														
DWG DESIGNATION	SYSTEM AND ROOM	MODEL	FLOW (CFM)	ESP (IN W.G.)	TSP (IN W.G.)	RPM	VFD	WEIGHT LBS	MECHANICAL REMARKS	WIRING FOR MECHANICAL EQUIPMENT SCHEDULE				ELECTRICAL WIRING INSTRUCTIONS
										MOTOR W or HP	MCA	MCP	VAC/φ	
EF-1	EXISTING WASHROOMS	GREENHECK GB-10-0	1200	0.25	0.32	867	NO	81	ROOMMOUNTED CENTRAL EXHAUST FAN, COMPLETE WITH GR 18" ROOF CURB, BD-100 EXHAUST DAMPER, NEMA 1 TOGGLE SWITCH, CONDUIT CHASE, JUNCTION BOX MOUNTED AND WIRED, BPO SCREEN	0.25 HP	-	15	1151	DIVISION 16 TO WIRE POWER TO FAN MOUNTED JUNCTION BOX.

JOB NAME		T.A. BLAKELOCK HIGH SCHOOL RENOVATIONS										ALL: 2/20/2021		
MECHANICAL SCHEDULE - CONDENSING UNITS														
DWG. DESIGNATION	EVAPORATOR UNIT DESIGNATION	SYSTEM and ROOM	MODEL	WBHGT (LBS)	COOLING				MECHANICAL REMARKS	WIRING FOR MECHANICAL EQUIPMENT SCHEDULE				ELECTRICAL WIRING INSTRUCTIONS
					AMBIENT (F)	CAPACITY (MBH)	SOUND PRESSURE (DBA)	EBR		MOTOR (KW)	MCA FLA	MCOP	VACIB	
CU-1	FC-1	SERVES NEW ELEV. MACHINE ROOM UNIT LOCATED ON ROOF	DAIKIN RPH18AVUJU	101	115	22	49	12	INTERLOCK WITH FC-1. COMPLETE WITH LOW AMBIENT KIT, WIND Baffle AND ECOPOFF BASE FRAME.		14.23	20	208 / 1	DN: 20 TO WIRE CLAMP AND CORRESPONDING FC UNIT SLUG THAT BOTH UNITS ARE FED FROM A SINGLE BREAKER. ALL CONTROL WIRING BY DV.
NOTE: OPERATING RANGE + COOLING (-4F TO 115F). OUTDOOR UNIT MUST BE INSTALLED ON 16" DIA. STAND. START UP AND COMMISSIONING SHALL BE PERFORMED BY THE MANUFACTURER SUPPORTED BY INSTALLING CONTRACTOR. UNIT SHALL INCLUDE A MANUFACTURER SUPPLIED SNOW & WIND HODD KIT FOR EACH MODULE.														

JOB NAME		T.A. BLAKELOCK HIGH SCHOOL - RENOVATIONS													
MECHANICAL SCHEDULE - VRF FAN COILS															
DWG. DESIGNATION	SYSTEM AND ROOM	MODEL	SPEC TYPE	INTEGRATED SYSTEM TAG	CFM		ESP (IN W.G.)	TOTAL COOLING (MBH)	WEIGHT LBS		MECHANICAL RSBMS	WIRING FOR MECHANICAL EQUIPMENT SCHEDULE			
					MIN	MAX						QA	MOTOR (VW)	MCA	MCOP
FC-1	NEW/ELEV. MACHINE ROOM	DAIKIN FRP418V-AU	DX	CU-1	390	754	-	-	18.1	30.5	INTERLOCK WITH CU-1, COMPLETE WITH THERMOSTAT AND ALL REFRIGERANT PIPING SPECIALTIES. BUILT IN DUA GA-CPI-1 CONDENSATE PUMP	-	0.4	15	208 / 1

JOB NAME		T.A. BLAUROCK HIGH SCHOOL RENOVATIONS										JOB No.		ALL: 2020-001		
MECHANICAL SCHEDULE - SUMP PUMPS																
DWG. DESIGNATION	SYSTEM AND ROOM	MANUFACTURER MODEL	SIZE (IN)	FLOW (GPM)	HEAD (FT)	EFF. (%)	VFD	MECHANICAL REMARKS	WIRING FOR MECHANICAL EQUIPMENT SCHEDULE						ELECTRICAL INSTRUCTIONS	
									MOTOR W or HP	MCA FLA	MCOIP	VAC/PH	ROOM STARTER TYPE	REMOTE CONTROL DEVICE		DESC. TYPE
SP-1, SP-2	SUMP PUMP - ELEVATOR RT SANITARY	BELL & GOSSETT BLAT200011	-	50	25	NO		SIMPLEX CAST IRON CONSTRUCTION, LA OFF. HMA CONNECTION TIE IN, PRICE 30"Ø" REINFORCED FIBERGLASS RT EQUAL TO BARBERS. PROVIDE BASIN RT COVER WITH HINGED ACCESS DOOR & LIFTING HANDLE	1/2 HP	14.5	15	120V1	BC	CONTROLLER	C2	DIV 26 TO PROVIDE DISCONNECT AND WIRE POWER FEEDER TO PUMP FROM CONTROLLER TO PUMP.

Client
Halton District School Board
2050 Guelph Line
Burlington, Ontario

T. A. BLAKELOCK H.S.
RENOVATIONS

1160 Rebecca Street
Oakville, ON

Architect
sn/der
Snyder Architects Inc.
100 Broadview Ave., Suite 321, Toronto, ON, M4M 3H3
tel. 416.966.5444 fax. 416.966.4443
www.snyderarchitects.ca

Consultants

Structural Consultants
Kalos Engineering Inc.
300 York Boulevard
Hamilton, Ontario, L8R 3K6
Tel: 905-333-9119

Mechanical and Electrical Consultants
EXP
1266 S. Service Rd,
Stoney Creek, Ontario, L8E 5R9
Tel: 905-525-6069

[illegible]

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

Drawing Title:
**MECHANICAL
AND ELECTRICAL
SCHEDULES**

Scale: N.T.S.	Date: 2025-03-03
Drawn by: JL	Checked by: WD
Job No. ALL-22020201	Drawing No. ME100