

GENERAL NOTES

- PROVIDE OPENINGS IN NEW FULL-HEIGHT WALLS FOR EXISTING DUCTWORK, PIPES AND CONDUIT TO PASS THROUGH. SEAL AROUND PENETRATIONS FOR SOUND ATTENUATION AND SMOKE SEPARATION AS REQUIRED.
- LOCATION OF EXISTING EQUIPMENT SHOWN ON THIS DRAWING IS FOR INFORMATION ONLY. CONTRACTOR SHALL REVIEW AND CHECK THE EXACT LOCATION, SIZE, ELEVATION AND INVERT OF ALL EXISTING EQUIPMENT ON SITE PRIOR TO COMMENCING WITH WORK.
- LIGHTING LOCATION TAKE PRECEDENCE OVER MECHANICAL SERVICES OR PIPES/DUCTS. ALLOW TO RELOCATE NEW OR EXISTING TO SUIT.
- PATCH AND MAKE GOOD DAMAGED CEILING/WALL FOR NEW MECHANICAL WORK.
- BRANCH DUCT SIZE TO MATCH THAT OF DIFFUSER NECK SIZE.
- BALANCE DIFFUSERS TO INDICATED AIR VOLUME (L/S).
- MODIFY THE SIZE AND ROUTING OF NEW DUCTWORK AS REQUIRED TO SUIT THE SITE CONDITIONS WITHOUT EXTRA COST TO THE OWNER. PROVIDE ADEQUATE OFFSETS, AND TRANSITIONS ON NEW DUCTWORK AS REQUIRED TO SUIT SITE CONDITIONS.
- ALL DIFFUSERS/GRILLES SHALL BE C/W SEISMIC CLIPS AND FASTENED TO STRUCTURE.
- PROVIDE NEW BALANCING DAMPER TO EACH TAKE OFF FROM S/A MAIN TO AIR OUTLETS AND BALANCE AIR FLOW TO DESIGN RATE SHOWN ON DRAWING. PROVIDE NEW BALANCING DAMPERS TO EXISTING TAKE-OFFS AS REQUIRED.
- EXISTING HVAC UNITS TO BE TESTED BY QUALIFIED HVAC TECHNICIANS FOR PROPER CONTROLLED OPERATION. DEFICIENCIES TO BE REPORTED IN WRITING TO LANDLORD.
- CONTRACTOR TO CO-ORDINATE THERMOSTAT LOCATION WITH ARCHITECT / INTERIOR DESIGNER / ELECTRICAL ENGINEER TO AVOID INSTALLATION OVER DAMPER SWITCHES OR HEAT EMITTING DEVICES PRIOR TO INSTALLATION.
- CONTRACTOR SHALL REVIEW THE MECHANICAL DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL AND ELECTRICAL DRAWINGS AND VERIFY SITE CONDITIONS BEFORE SUBMITTING A BID. REPORT ANY DISCREPANCY TO CONSULTANT DURING PRICING.
- FLEXIBLE DUCT SHALL BE NO MORE THAN 5 FEET(1,500 MM) IN LENGTH.
- CONTRACTOR TO PROVIDE FLEX CONNECTIONS TO ALL EQUIPMENT AT CONNECTIONS TO DUCTS AND PIPES.
- PROVIDE COMPLETE AIR BALANCING OF THE HVAC SYSTEM. THIS INCLUDES ALL AIR OUTLETS, TERMINAL UNITS AND FANS. BALANCING SHALL BE PROVIDED BY BASE BUILDING BALANCING CONTRACTOR.
- NOTIFY THE BUILDING ENGINEER OF ANY ACTIVITY THAT MAY AFFECT THE FIRE ALARM SYSTEM (EG. WELDING, GRINDING OR SOLDERING) 48 HOURS IN ADVANCE.
- INSULATE ALL NEW DUCTWORK C/W VAPOR BARRIER. REFER TO SPECIFICATION FOR MORE INFO ON PIPING AND DUCTWORK INSULATION REQUIREMENTS.
- PROVIDE X-RAY OF ALL REQUIRED PENETRATION OF THE FLOOR TO AVOID DAMAGING IN-SLAB SERVICES AS WELL AS REINFORCING STEEL. COORDINATE X-RAYS WITH THE BUILDING OPERATING ENGINEER WITH 48 HOURS NOTICE. ALL SLAB PENETRATIONS MUST BE FIRE STOPPED AND WATER SEALED TO MAINTAIN THE INTEGRITY OF THE SLAB.
- CONTRACTOR TO INFORM CONSULTANT 24 HOURS PRIOR TO INITIAL PRESSURE TEST, AND CONFIRM TYPE OF TEST AND PRESSURE BEING APPLIED FOR PLUMBING WORK. CONTRACTOR TO USE THE PRESSURE GAUGE FROM BUILDING ENGINEERING STAFF. COORDINATE WITH BASE BUILDING CONSTRUCTION MANAGER AND FOLLOW THE BUILDING GUIDELINES FOR MORE INFORMATION.
- ALL WORK SHALL ALSO CONFORM TO THE REQUIREMENTS SET OUT IN THE BASE BUILDING TENANT CONSTRUCTION GUIDELINES.
- SEISMICALLY RESTRAIN ALL DIFFUSERS AND ANY OTHER CEILING EQUIPMENT. CONTRACTOR IS TO HIRE A SEISMIC ENGINEER AND PROVIDE SCHEDULE B & C-B FROM ENGINEER.
- ALL WORK SHALL CONFORM TO CURRENT EDITION OF BC BUILDING CODE AND OTHER LEGAL REGULATIONS AND BYLAWS APPLICABLE TO THE WORK AND WILL MEET THE AUTHORITIES HAVING JURISDICTION
- ALL WORK IN THE SCOPE OF THIS PROJECT SHALL BE COMPLIANT WITH ASHRAE 90.1 ENERGY STANDARD.
- ALL WATER PIPING SHALL BE INSULATED AS PER THE MECHANICAL SPECIFICATIONS.
- THERMAL INSULATION SHALL BE ADDED TO ALL NEW AND EXISTING SUPPLY AIR DUCTWORK IN THE RENOVATED AREA.
- ALL CONSTRUCTION SHALL COMPLY W/ CSA-2317.13. PROVIDE A DETAILED CONSTRUCTION PLAN TO ACHIEVE THE CSA STANDARDS.

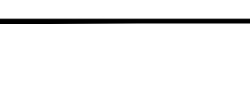
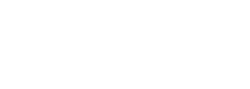
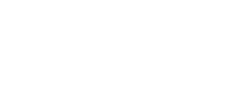
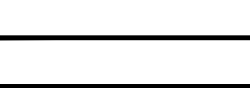
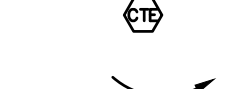
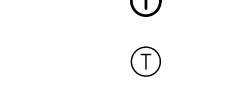
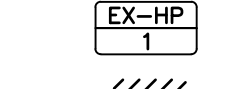
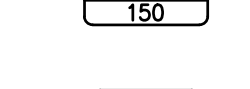
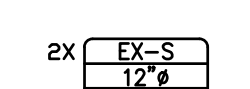
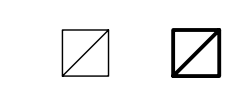
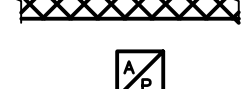
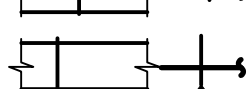
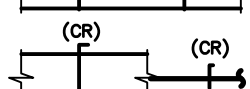
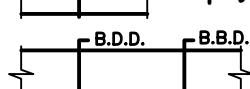
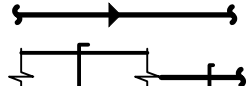
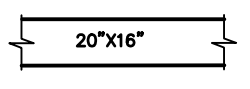
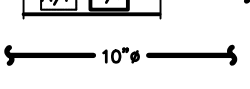
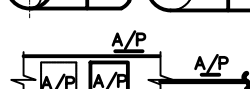
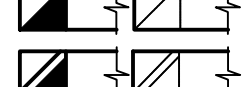
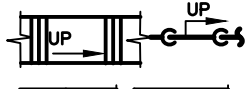
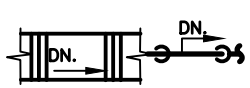
DRAWING LIST

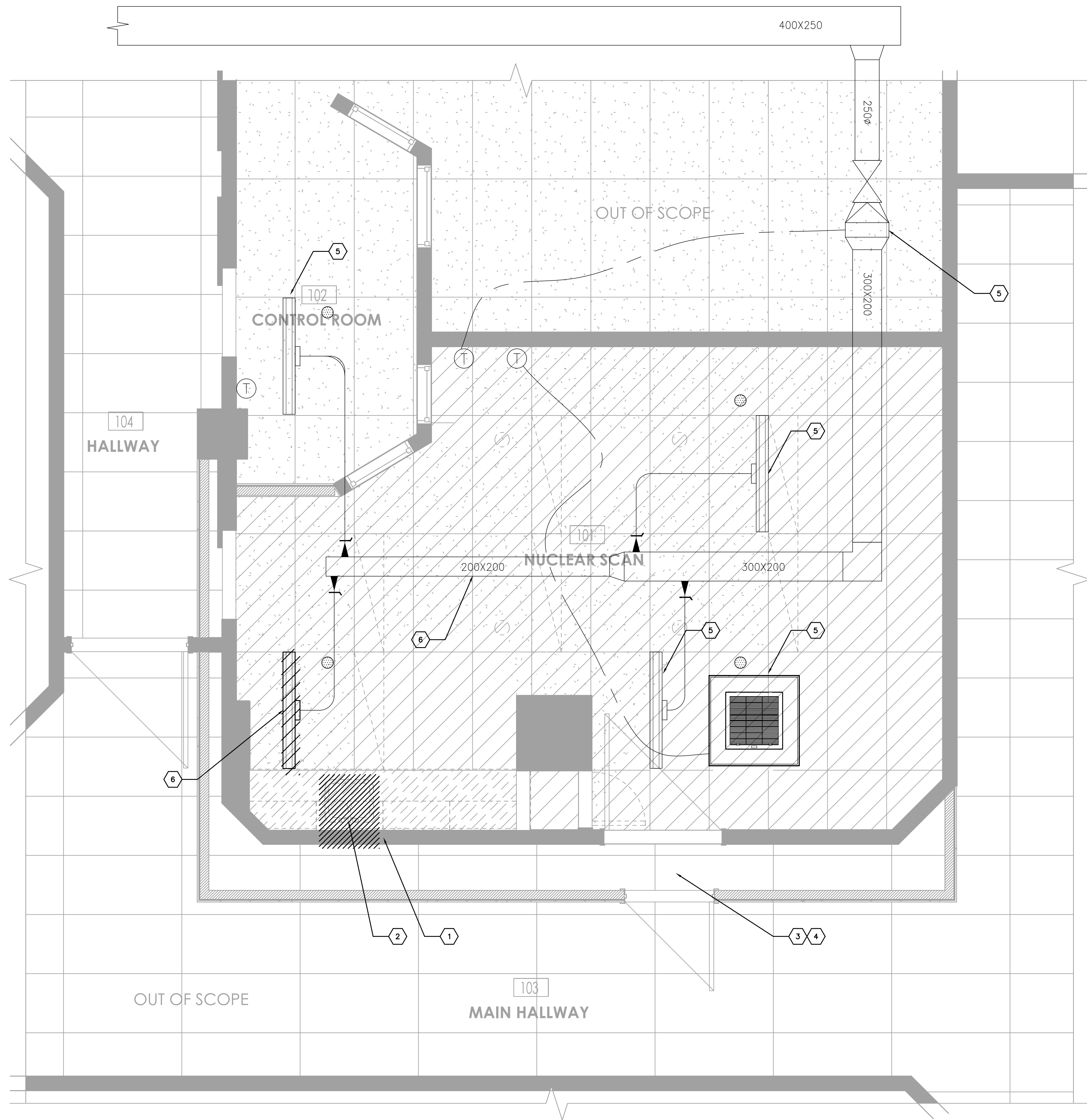
M000	GENERAL NOTES, LEGENDS, DETAILS & SCHEDULES
M100	MECHANICAL DEMO PLAN
M200	NEW HVAC PLAN
M300	NEW PLUMBING PLANS

CLOSE-OUT DOCUMENT LIST

- THE FOLLOWING REQUIREMENTS SHALL BE PROVIDED TO THE ENGINEER FOR COMPLETION OF THE PROJECT.
 - THE FOLLOWING ITEMS ARE MANDATORY REQUIREMENTS PRIOR TO ISSUANCE OF THE SCHEDULE LETTER CB:
 - FINAL (PASSED) CITY INSPECTION CARD FOR PLUMBING.
 - DOMESTIC WATER, SANITARY AND VENT PRESSURE TEST REPORTS FOR NEW PIPING.
 - SEISMIC SCHEDULE B AND CB FOR NEW MECHANICAL AND PLUMBING ITEMS.
 - CONTRACTOR'S FIRE STOPPING LETTER OF COMPLETION.
 - MECHANICAL EQUIPMENT START UP REPORT.
 - ANY DEFICIENCY ITEMS NOTED IN THE MECHANICAL FIELD REPORTS.
 - THE FOLLOWING ITEMS SHALL BE PROVIDED AT THE END OF THE PROJECT:
 - OPERATION AND MAINTENANCE MANUALS
 - AIR BALANCING REPORT
 - CONTRACTOR SIGNED MECHANICAL AND PLUMBING (RED LINE) AS-BUILT DRAWINGS
 - CONTRACTOR'S LETTER OF GUARANTEE AND WARRANTY

HVAC LEGEND





1 HVAC DEMOLITION PLAN
M100 Scale: 1:25

GENERAL NOTES

- CONTRACTOR SHALL VERIFY AND CONFIRM ON SITE LOCATIONS OF ALL EXISTING PLUMBING SERVICES, PIPES, MAINS, AND CONNECTION POINTS PRIOR TO START OF DEMOLITION.
- CONTRACTOR TO VERIFY ON SITE LOCATION ROUTING OF EXISTING BELOW FLOOR SANITARY DRAIN PIPES PRIOR TO DEMOLITION. RETAIN SANITARY MAINS FOR REUSE. ALLOW FOR BELOW GRADE PIPE MAPPING OF EXISTING SANITARY ROUTES.
- DISCONNECT AND REMOVE ALL EXISTING PLUMBING FIXTURES, HOT WATER TANK, AND ALL ASSOCIATED DOMESTIC WATER, SANITARY, VENT PIPES AND ACCESSORIES WHERE INDICATED HATCHED.
- ALL EXISTING SANITARY PIPES FROM PLUMBING FIXTURES TO BE REMOVED AND CAPPED OFF BELOW SLAB. ALL VENT PIPES TO BE REMOVED UP TO TAKE OFF FROM VENT MAIN IN CEILING. RETAIN VENT MAIN IN CEILING PLENUM FOR RECONNECTION TO NEW. CONFIRM LOCATIONS ON SITE.
- ALL EXISTING MEDICAL GAS PIPES TO BE RETAINED.
- EXISTING ROOF DRAINS AND RAIN WATER LEADERS TO BE RETAINED OR TO BE RELOCATED AS REQUIRED.
- CONTRACTOR SHALL VERIFY AND CONFIRM ON SITE LOCATIONS OF ALL EXISTING HVAC EQUIPMENT, DUCTS, AND CONTROLS ON SITE PRIOR TO START OF DEMOLITION.
- CONTRACTOR SHALL PROVIDE A VARIABLE SPEED NEGATIVE AIR HEPA FILTERED FAN IN EACH PHASE OF CONSTRUCTION AREA TO PREVENT THE SPREAD OF ANY DUST OR DEBRIS.
- CONTRACTOR SHALL COMPLY W/ CSA-2317.22.
- CONTRACTOR TO COORDINATE WITH THE BUILDING OPERATOR TO DISABLE THE HVAC SYSTEM IN THE CONSTRUCTION AREA UNTIL THE PROJECT COMPLETED.
- PROVIDE AIR FLOW MEASUREMENT OF EXISTING AIR OUTLETS IN THE PROJECT SPACE PRIOR TO COMMENCING CONSTRUCTION. PROVIDE THE REPORT TO THE ENGINEER AND MATCH/ADJUST THE AIR VOLUME AS REQUIRED.

DEMO SPECIFIC NOTES

- CONTRACTOR TO VERIFY THE SIZES AND EXACT LOCATIONS OF EXISTING PLUMBING RISERS IN PLUMBING WALL OF THE SINK AND ALLOW FOR MODIFICATION OF ALL EXISTING PLUMBING RISERS TO SUIT NEW DOOR LAYOUT.
- EXISTING SINK AND ASSOCIATED PLUMBING ROUGH IN TO BE REMOVED. EXISTING DOMESTIC COLD AND HOT WATER LINES AND SANITARY SERVICES FLOOR BELOW TO BE REUSED FOR NEW SINK. REFER TO DRAWING M300 FOR NEW PLUMBING LAYOUT.
- ALLOW FOR A TEMPORARY EXHAUST AIR SYSTEM TO MAINTAIN DIFFERENTIAL NEGATIVE PRESSURE 5 TO 10 PA WITHIN THE CONSTRUCTION AREA AND HEPA FILTER IN ANTEROOM DURING THE CONSTRUCTION ACCORDING TO PREVENTIVE MEASURES III & IV OF CSA-2317.22. COORDINATE EXACT LOCATION OF THE EXHAUST ROUTE ON SITE WITH THE LANDLORD AND ARCHITECT/ENGINEER.
- CONTRACTOR TO ENSURE THAT THE TEMPORARY EXHAUST SYSTEM TO BE TERMINATED THROUGH THE EXTERIOR WINDOW AND TO VERIFY THE ROUTE OF THE EXHAUST AIR DUCT PRIOR TO COMMENCING THE WORK. COORDINATE EXACT LOCATION OF THE EXHAUST TERMINATION WITH THE LANDLORD AND ARCHITECT/ENGINEER.
- EXISTING MECHANICAL SHALL REMAIN CONTRACTOR TO DISABLE THE EXISTING HVAC SYSTEM IN THE CONSTRUCTION AREA AND SEAL AND COVER ALL OPEN ENDED DUCTWORK AND DIFFUSERS UNTIL THE PROJECT COMPLETED.
- ALLOW FOR RE/RE OF THE EXISTING DIFFUSER AND SUPPLY AIR DUCT TO SUIT A NEW PATIENT LIFT IN THE CEILING SPACE.

architect

THIBODEAU
ARCHITECTURE+DESIGN
Refreshing Ideas. Reliable Services
J. Robert Thibodeau Architecture + Design Inc.
158 West 8th Avenue,
Vancouver, (British Columbia), V5Y 1N2
1.778.350.1159
www.goTAD.ca
Vancouver | Montreal

6	18/10/24	ISSUED FOR CONSTRUCTION	
5	17/09/24	ISSUED FOR BP	
4	05/09/24	ISSUED FOR TENDER	
3	20/08/24	90% CD	
2	02/08/24	60% CD	
1	17/07/24	30% CD	
#	Date	Description	Rev

revisions

This drawing is the property of J. Robert Thibodeau Architecture + Design Inc. A written approval by J.R.T.A.D. is required prior to any use of this drawing. Contractors must verify all dimensions on site and immediately inform the Architect of all errors and omissions.

APERTA

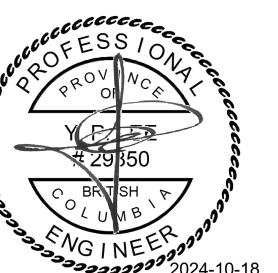
UNIT 205, 3003 ST. JOHNS STREET,
PORT MOODY, BC V3H 2C4
E: INFO@APERTA.CONSULTING

PERMIT TO PRACTICE NUMBER: 1004560

Client:

NUCLEAR MEDICAL SCAN ROOM RENOVATION
NHA_UHNBC
1475 EDMONTON STREET
PRINCE GEORGE, BC V2M 1S2

seal



project no. **20240051**

drawing title

**MECHANICAL
DEMOLITION PLAN**

date 2024-07-16 sheet number

scale As indicated

drawn by DK **M100**

checked by JL rev no. 01

[illegible]

6	18/10/24	ISSUED FOR CONSTRUCTION	
5	17/09/24	ISSUED FOR BP	
4	05/09/24	ISSUED FOR TENDER	
3	20/08/24	90% CD	
2	02/08/24	60% CD	
1	17/07/24	30% CD	
#	Date	Description	R

This drawing is the property of J. Robert Thibodeau Architecture + Design Inc. A written approval by J.R.T.A.D. is required prior to any use of this drawing. Contractors must verify all dimensions on site and immediately inform the Architect of all errors and omissions.

APERITA

UNIT 205, 3003 ST. JOHNS STREET
PORT MOODY, BC V3H 2C4
E: INFO@APERTA.CONSULTING

PERMIT TO PRACTICE NUMBER: 1004560

client

NUCLEAR MEDICAL SCAN ROOM RENOVATION
NHA_UHNBC
1475 EDMONTON STREET
PRINCE GEORGE, BC V2M 1S2

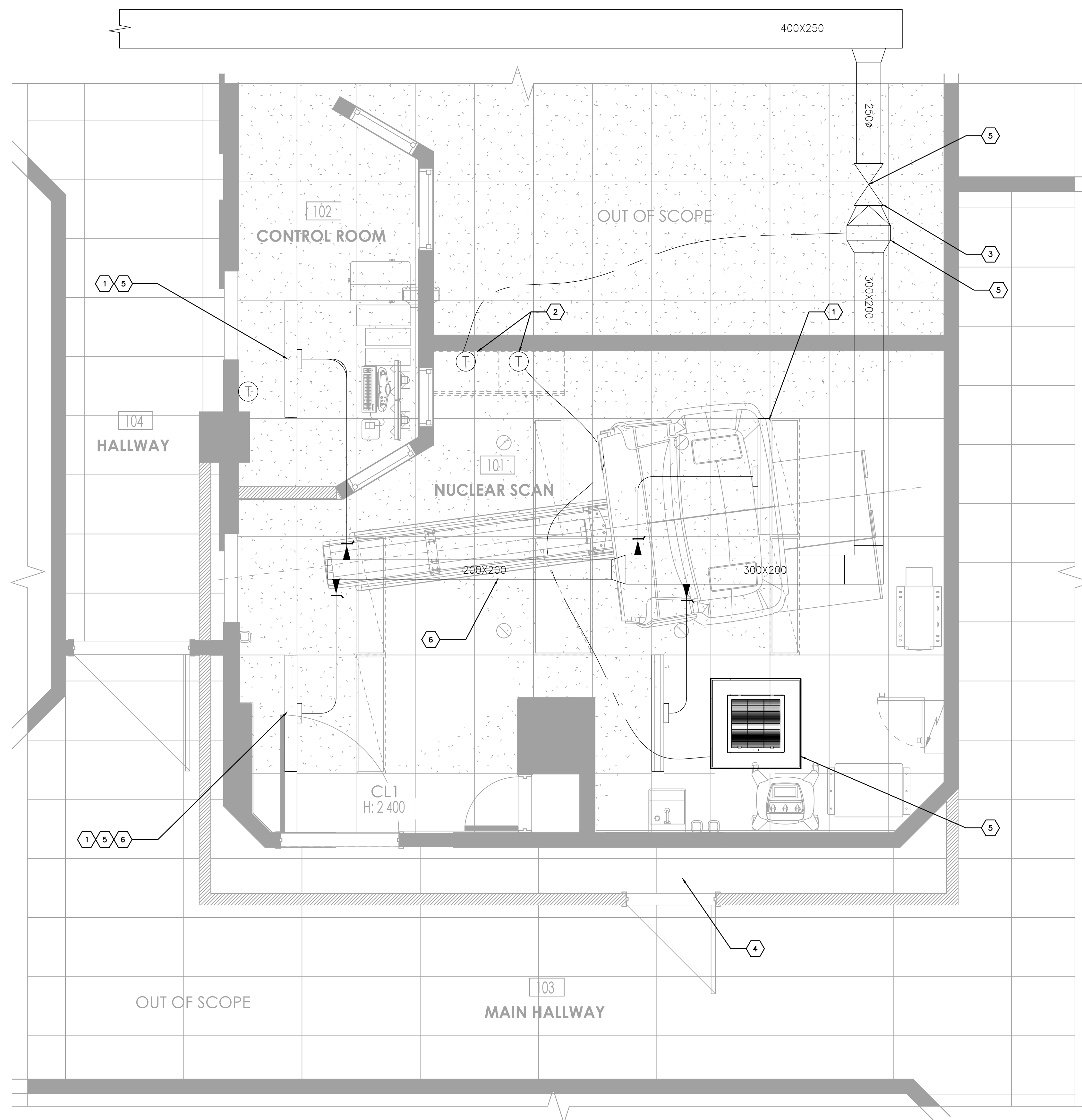
seal



project no. 20240051

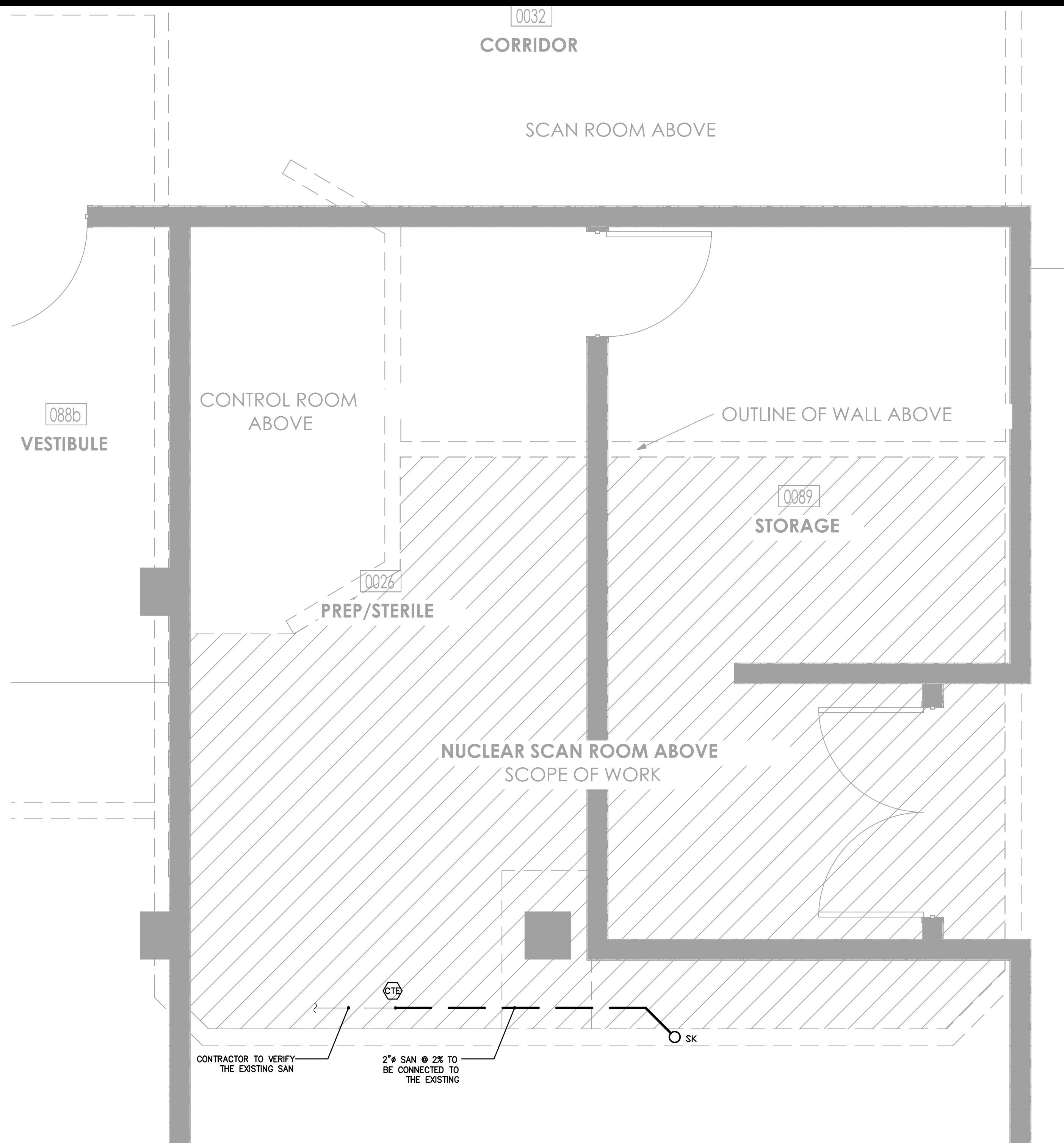
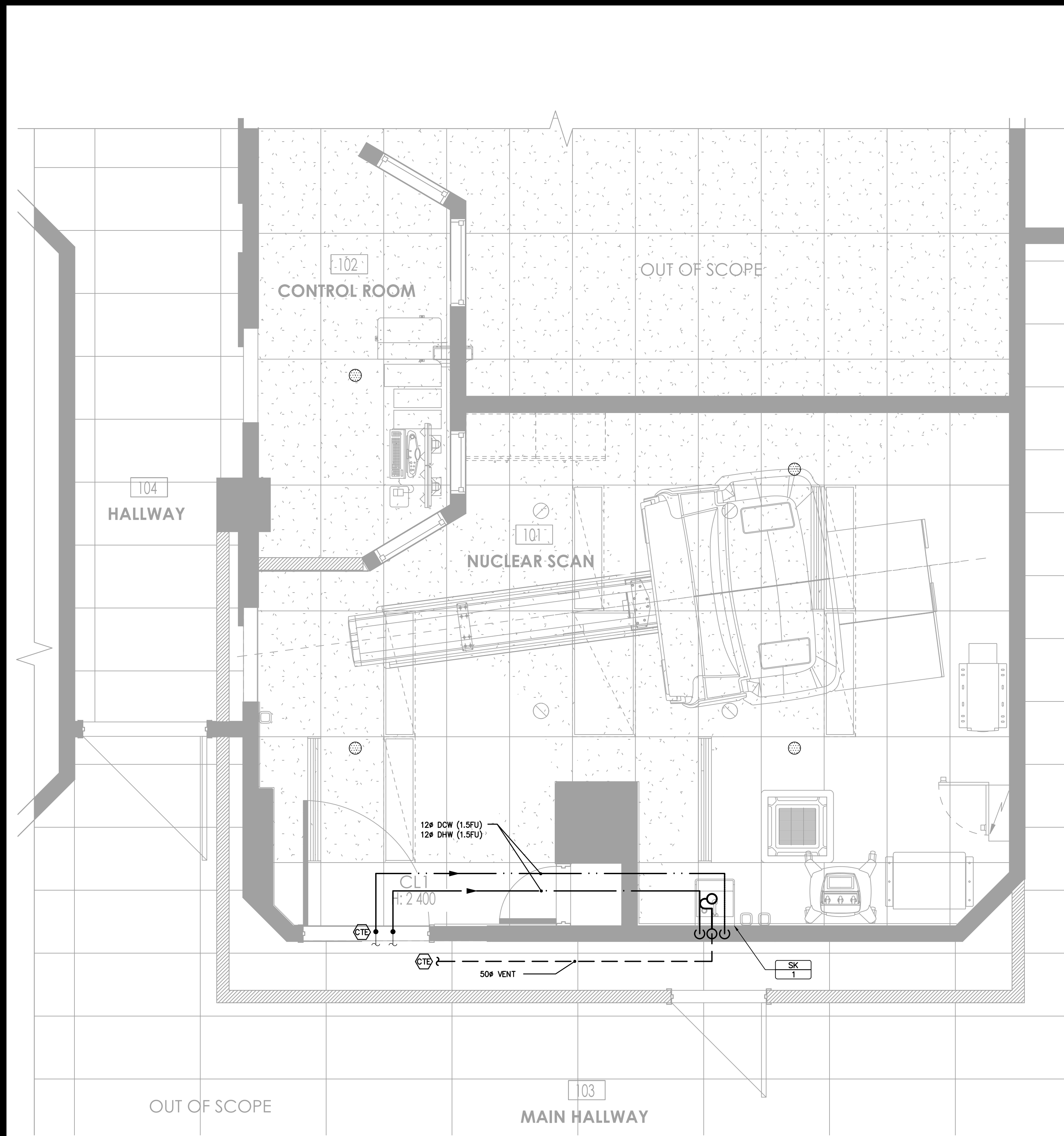
drawing title
NEW HVAC PLAN

date	2024-07-16	sheet number	
scale	As indicated	M200	
drawn by	DK		
checked by	JL		rev no.



1 HVAC PLAN
M200 Scale: 1:25

FORMAT 24 x 3



GENERAL NOTES

- PLUMBING GENERAL NOTES SHALL APPLY TO ALL PLUMBING DRAWINGS.
- ALL PLUMBING REVISIONS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE BC PLUMBING CODE CSA Z317.22 AND TO THE APPROVAL OF AUTHORITIES HAVING JURISDICTION.
- COORDINATE ALL PLUMBING WORK WITH ALL OTHER TRADES PRIOR TO START OF WORK.
- PROVIDE AND INSTALL NEW PLUMBING FIXTURES AS SPECIFIED. PROVIDE NEW PLUMBING SERVICES TO SUIT AND CONNECT TO BASE BUILDING CONNECTIONS.
- COORDINATE PLUMBING FIXTURE ROUGH-IN REQUIREMENTS WITH PLUMBING FIXTURE SHOP DRAWINGS AS REQUIRED PRIOR TO START OF WORK.
- ALL CORE HOLE REQUIREMENTS SHALL BE X-RAYED OR GPR SCANNED PRIOR TO CORING. COORDINATE ALL X-RAY AND CORING REQUIREMENTS WITH BASE BUILDING STRUCTURAL ENGINEER PRIOR TO START OF WORK.
- ALL DOMESTIC HOT AND COLD WATER PIPES SHALL BE PROVIDED WITH INSULATION AND VAPOUR SEAL AS PER MECHANICAL SPECIFICATIONS.
- FIXTURE INSTALLATION SHALL INCLUDE ALL ASSOCIATED FLANGES, BALL VALVES, ANGLE STOPS, BRAIDED FLEX SUPPLIES, ESCUTCHEONS, ETC..
- ALL PIPE PENETRATIONS SHALL BE FIRESTOPPED WHERE PASSING THROUGH A RATED SEPARATION. CONFIRM SEPARATION RATING OF WALL AND FLOOR PRIOR TO START OF WORK. ALL FIRE STOPPING WORK SHALL BE INSTALLED AS PER FIRE STOP MANUFACTURER'S RECOMMENDATIONS AND PRODUCT LISTING FOR ASSOCIATED APPLICATION. FIRE STOP INSTALLATION SHALL ONLY BE CARRIED OUT BY QUALIFIED TECHNICIANS CERTIFIED TO INSTALL THE APPLICABLE FIRESTOP PRODUCT. FIRESTOP PRODUCT SHALL BE ULC LISTED AND SUBMITTED TO THE ENGINEER FOR REVIEW / COMMENT PRIOR TO START OF WORK.
- CONTRACTOR TO PROVIDE ALL REQUIRED ACCESS PANELS IN DRYWALL CEILINGS FOR VALVE ACCESS AND EQUIPMENT MAINTENANCE. COORDINATE LOCATIONS WITH REFLECTED CEILING PLAN.
- CONTRACTOR SHALL COMPLY W/ CSA-Z317.22.
- CONTRACTOR TO VERIFY THE AREA BELOW FOR PLUMBING WORK AND IMPLEMENT PREVENTIVE MEASURE INFECTION CONTROL.
- THE INDICATED SPRINKLER HEADS ARE FOR REFERENCE ONLY, FINAL LAYOUT AND QUANTITIES MEETING NFPA 13 REQUIREMENTS SHALL BE CONSIDERED AS PART OF THE CONTRACT. PROVIDE SCHEDULE B & C-B FROM B.C. REGISTERED SPRINKLER ENGINEER.

PLUMBING FIXTURE UNITS & MINIMUM PIPE CONNECTIONS

FIXTURE	TAG	CW	HW	SAN	VENT	COLD FU	HOT FU	TOTAL FU	SAN FU
HYGIENE SINK	SK-1	1/2"	1/2"	2"	1-1/2"	1.5	1.5	2.0	1.5
PLUMBING LINES ARE DESIGNED BASED ON A DETAILED ENGINEERING DESIGN METHOD AS PER THE 2020 NATIONAL PLUMBING CODE OF CANADA									

architect

THIBODEAU
ARCHITECTURE+DESIGN
Refreshing ideas. Reliable services
J. Robert Thibodeau Architecture + Design Inc.
158 West 8th Avenue,
Vancouver, (British Columbia), V5Y 1N2
1.778.350.1159
www.goTAD.ca
Vancouver | Montreal

#	Date	Description	Rev
6	18/10/24	ISSUED FOR CONSTRUCTION	
5	17/09/24	ISSUED FOR BP	
4	05/09/24	ISSUED FOR TENDER	
3	20/08/24	90% CD	
2	02/08/24	60% CD	
1	17/07/24	30% CD	

revisions

This drawing is the property of J. Robert Thibodeau Architecture + Design Inc. A written approval by J.R.T.A.D. is required prior to any use of this drawing. Contractors must verify all dimensions on site and immediately inform the Architect of all errors and omissions.

APERTA

UNIT 205, 3003 ST. JOHNS STREET,
PORT MOODY, BC V3H 2C4
E: INFO@APERTA.CONSULTING
PERMIT TO PRACTICE NUMBER: 1004560

Client

NUCLEAR MEDICAL SCAN ROOM RENOVATION
NHA_UHNBC
1475 EDMONTON STREET
PRINCE GEORGE, BC V2M 1S2

seal

project no. **20240051**

drawing title
NEW PLUMBING PLANS

date 2024-07-16 sheet number
scale As indicated **M300**
drawn by DK
checked by JL rev no. 01