GENERAL NOTES

1. CONTRACTOR TO NOTIFY CONSULTANT OF ANY SITE CONDITIONS WHICH ARE NOT INDICATED ON THESE PLANS THAT WILL BE AFFECTED BY THE RENOVATION.
2. THE CONTRACTOR MUST SURVEY AND VERIFY THAT SERVICES TO BE DEMOLISHED, HAVE BEEN COMPLETELY REMOVED PRIOR TO NEW INSTALLATION.
3. DURING DEMOLITION, ALL ACTIONS MUST BE TAKEN TO AVOID DAMAGE OR SERVICE INTERRUPTIONS TO OTHER FLOORS. ASSUME ALL ISOLATIONS WILL REQUIRE PIPE FREEZING TO ALLOW FOR DEMOLITION OR RELOCATION. PROVIDE TEMPORARY INSTALLATIONS OR BYPASSES AS REQUIRED TO ENSURE CONTINUAL OPERATION WITHIN THE FACILITY.
4. ALL EXISTING REDUNDANT SERVICES WITHIN THE GROUND LEVEL CEILING SPACE SHALL BE REMOVED AS PART OF THIS PROJECT.
5. AFTER HOURS/WEEKEND WORK MAY BE REQUIRED AT THE DISCRETION OF THE HOSPITAL AT NO ADDITIONAL COST.
6. PRIOR TO INSTALLATION OF NEW WORK, CONTRACTOR TO COORDINATE ALL NEW WORK WITH EXISTING SERVICES THAT ARE TO REMAIN AND REPORT CONFLICT TO OWNER AND CONSULTANT.
7. CONTRACTOR SHALL PROVIDE "FIRE WATCH" TO THE REQUIREMENTS OF NATIONAL FIRE CODE OF CANADA, OBC AND AUTHORITY HAVING JURISDICTION, WHILE THE WORK ENTAILS AN INTERRUPTION OF THE NORMAL OPERATION OF THE FIRE PROTECTION SYSTEM.
8. CONTRACTOR TO PROVIDE FIRE ALARM BYPASS, DRAIN DOWN, AND FILLING OF SYSTEM AS REQUIRED.
9. SCAN FOR AND DO NOT CUT EXISTING REINFORCING BARS.

KEY PLAN

1 SATELLITE DIAGNOSTIC IMAGING

MECHANICAL DRAWING LIST

SHEET NO.	DRAWING NAME
M000	MECHANICAL LEGENDS & DRAWING LIST
M111	GROUND LEVEL - VENTILATION DEMO
M121	GROUND LEVEL - PLUMBING DEMO
M122	BASEMENT LEVEL - PLUMBING DRAINAGE DEMO
M131	GROUND LEVEL - FIRE PROTECTION DEMO
M141	GROUND LEVEL - HVAC PIPING DEMO
M151	GROUND LEVEL - MEDICAL GAS DEMO
M211	GROUND LEVEL - VENTILATION
M221	BASEMENT LEVEL - PLUMBING DRAINAGE
M222	GROUND LEVEL - PLUMBING DRAINAGE
M223	GROUND LEVEL - PLUMBING WATER
M231	GROUND LEVEL - FIRE PROTECTION
M241	BASEMENT LEVEL - HVAC PIPING
M242	GROUND LEVEL - HVAC PIPING
M251	GROUND LEVEL - MEDICAL GAS
M401	MECHANICAL DETAILS
M402	MECHANICAL DETAILS
M403	MECHANICAL DETAILS
M500	MECHANICAL SCHEDULES

GENERAL

DEMOLITION REGION

PIPING COMPONENTS

REAL OBJECT | SYMBOL

ISOLATION VALVE (GENERIC)
GATE VALVE
GLOBE VALVE
BUTTERFLY VALVE NPS 6 AND LESS
BUTTERFLY VALVE NPS 8 AND MORE
BALL VALVE
PLUG VALVE
NEEDLE VALVE
CHECK VALVE (GENERIC)
BALANCING VALVE
FLOW LIMITING VALVE
PRESSURE REDUCING VALVE
2-WAY CONTROL VALVE (GENERIC)
TWO-WAY ELECTRIC CONTROL VALVE, BUTTERFLY TYPE
3-WAY CONTROL VALVE (GENERIC)
MULTI-PURPOSE VALVE (SHUTOFF, BALANCING AND CHECK)
Y STRAINER (GENERIC)
AUTOMATIC AIR VENT
MANUAL AIR VENT
VACUUM BREAKER
SHOCK ABSORBER
TEMPERATURE GAUGE
PRESSURE GAUGE
TEMPERATURE AND PRESSURE TAP
SIGHT FLOW GLASS
FLEXIBLE CONNECTOR
EXPANSION JOINT
GUIDE
ANCHOR
FLOW ARROW
1% PIPING SLOPE
PIPE CAP
PIPE BREAK
PIPE CROSS
PIPING ELBOW UP
PIPING ELBOW DOWN
PIPING TEE UP
PIPING TEE DOWN
UNION CONNECTION
FLANGED CONNECTION
CONCENTRIC REDUCER
ECCENTRIC REDUCER
CO STANDARD CLEAN-OUT IN LINE END OF RUN
CO STANDARD CLEAN-OUT THROUGH FLOOR END OF RUN
CO STANDARD CLEAN-OUT THROUGH FLOOR IN LINE

FIRE PROTECTION

REAL OBJECT | SYMBOL

FIRE - WET
FIRE EXTINGUISHER
UPRIGHT SPRINKLER
CONCEALED PENDANT SPRINKLER
FIRE HOSE VALVE ASSEMBLY
FIRE DAMPER
SMOKE DAMPER
FIRE SMOKE DAMPER
TEST AND DRAIN VALVE
CHECK VALVE
TREADED BALL VALVE
GROOVED BALL VALVE
ELBOW WITH DRAIN 1 in.
GROOVE ELBOW
GROOVE TE
CONCENTRIC GROOVED MECHANICAL REDUCER
GROOVED MECHANICAL TEE OR CAP
REDUCING COUPLING
GROOVED MECHANICAL TEE OR CAP
THREADED MECHANICAL CROSS
THREADED MECHANICAL TEE
FIRE HOSE RACK
SEISMIC EXPANSION LOOP
HANGER
WALL MOUNTED PORTABLE FIRE EXTINGUISHER
SEMI RECESSED CABINET FOR PORTABLE EXTINGUISHER

PLUMBING

1 1/2" PIPE SIZE
XX PIPING ROUTED BELOW SLAB OR GRADE
CD CONDENSATE DRAIN
DCW DOMESTIC COLD WATER
DCW(S) DOMESTIC COLD WATER SOFTENED
DHW DOMESTIC HOT WATER
DHWR DOMESTIC HOT WATER RECIRCULATION
SAN SANITARY DRAIN
ST STORM DRAIN
V VENT
PIPE INSULATION
FIXTURE TRAP
CB CATCH BASIN
MH MANHOLE
FD FLOOR DRAIN
FFD FUNNEL FLOOR DRAIN
TRAP PRIMER
HB HOSE BIBB
PLUMBING FIXTURES
TYPE / QUANTITY PLUMBING FIXTURE TAG (REFER TO SCHEDULE)

PIPING SYSTEMS (HVAC)

2 1/2" PIPE SIZE
CHWR CHILLED WATER RETURN
CHWR(G) CHILLED WATER RETURN - GLYCOL
CHWR(P) CHILLED WATER RETURN - PROCESS
CHWS CHILLED WATER SUPPLY
CHWS(G) CHILLED WATER SUPPLY - GLYCOL
CHWS(P) CHILLED WATER SUPPLY - PROCESS
CWR CONDENSER WATER RETURN
CWS CONDENSER WATER SUPPLY
PHWR PERIMETER HEATING WATER RETURN
PHWS PERIMETER HEATING WATER SUPPLY
HWR HEATING WATER RETURN
HWR(G) HEATING WATER RETURN - GLYCOL
HWS HEATING WATER SUPPLY
HWS(G) HEATING WATER SUPPLY - GLYCOL
REF(HG) REFRIGERANT HOT GAS
REF(L) REFRIGERANT LIQUID
REF(S) REFRIGERANT SUCTION
REF(V) REFRIGERANT VENT
S(##) STEAM (NOMINAL PRESSURE)
CS(##) STEAM - CLEAN (NOMINAL PRESSURE)
C(##) STEAM CONDENSATE (NOMINAL PRESSURE)
PC(##) STEAM PUMPED CONDENSATE (NOMINAL PRESSURE)
LPC(##) STEAM CONDENSATE (LOW PRESSURE)
PIPE INSULATION

VENTILATION (HVAC)

AIR FLOW ARROW
18"x12" 18"x12" RECTANGULAR DUCT AND SIZE*
18"ø 18"ø ROUND DUCT AND SIZE*
18"x12"ø 18"x12"ø FLAT OVAL DUCT AND SIZE*
18"x12" EXTERIOR DUCT TREATMENT*
18"x12" 18"x12" RECTANGULAR DUCT WITH ACOUSTIC LINING*
30"x12" DUCT SECTION, SUPPLY AIR. SIZE* IS HORIZONTAL DIM. x VERTICAL DIM. APPLIES TO RECT., ROUND AND OVAL
DUCT SECTION, OUTSIDE AIR. APPLIES TO RECT., ROUND AND OVAL
DUCT SECTION, RETURN AIR. APPLIES TO RECT., ROUND AND OVAL
DUCT SECTION, EXHAUST AIR. APPLIES TO RECT., ROUND AND OVAL
FLEXIBLE DUCT
ELBOW TURN, SUPPLY DOWN. APPLIES TO RECT., ROUND AND OVAL
ELBOW TURN, OUTSIDE AIR DOWN. APPLIES TO RECT., ROUND AND OVAL
ELBOW TURN, RETURN DOWN. APPLIES TO RECT., ROUND AND OVAL
ELBOW TURN, EXHAUST DOWN. APPLIES TO RECT., ROUND AND OVAL
UP CHANGE IN DUCT ELEVATION RISING IN DIRECTION INDICATED
DN CHANGE IN DUCT ELEVATION DROPPING IN DIRECTION INDICATED
END CAP
ELBOW, RECTANGULAR, SMOOTH RADIUS WITH SPLITTER VANES (0.25 R/W DEFAULT)
ELBOW, RECTANGULAR, SMOOTH RADIUS WITHOUT VANES (1.5 R/W DEFAULT)
ELBOW, ROUND, SMOOTH RADIUS (1.5 R/W DEFAULT)
MITERED ELBOW, RECTANGULAR, WITH TURNING VANES
AD RECTANGULAR TO ROUND TRANSITION
AD AD DUCT ACCESS DOOR (TOP, SIDE, BOTTOM)
FC FLEXIBLE CONNECTION

* NOTE: ALL DUCT SIZES ARE INTERIOR, FREE DIMENSIONS (ALWAYS WIDTH X HEIGHT IN FLOOR PLAN AND SECTION)

VENTILATION (HVAC)

BDD BACKDRAFT DAMPER
MANUAL DAMPER
MOTORIZED DAMPER
FIRE DAMPER
SMOKE DAMPER
SMOKE AND FIRE DAMPER
DUCT SILENCER
X CONTROL DEVICE (REFER TO CONTROLS LEGEND)
AIR FLOW MEASURING STATION (REFER TO CONTROLS LEGEND)
QUANTITY / TYPE / SIZE (mm) / VOLUME (L/s) AIR OUTLET OR INLET TAG (REFER TO SCHEDULE)
RECTANGULAR DIFFUSER, SUPPLY. OPTIONAL ARROWS SHOW THE FLOW DIRECTION.
RECTANGULAR REGISTER OR GRILLE, RETURN
RECTANGULAR REGISTER OR GRILLE, EXHAUST
ROUND DIFFUSER, SUPPLY
LINEAR DIFFUSER
SIDEWALL REGISTER OR GRILLE, SUPPLY
SIDEWALL GRILLE, RETURN OR EXHAUST
UC UNDERCUT DOOR
DOOR GRILLE OR LOUVER
TRANSFER GRILLE OR LOUVER
COIL (REFER TO CONTROLS LEGEND)
ID-# EQUIPMENT TAG
QUANTITY / TYPE / LENGTH (FT) / CAPACITY (MBH) RADIATION HEATING TAG (REFER TO SCHEDULE)

LAB & MEDICAL GAS

MA MEDICAL AIR
MV MEDICAL VACUUM
O2 OXYGEN
MEDICAL AIR OUTLET
MEDICAL VACUUM OUTLET
MEDICAL OXYGEN OUTLET
MEDICAL GAS MASTER ALARM PANEL
MEDICAL GAS AREA ALARM PANEL
MEDICAL GAS ZONE VALVE
BALL VALVE
CHECK VALVE

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Key Plan

SHN SCARBOROUGH HEALTH NETWORK

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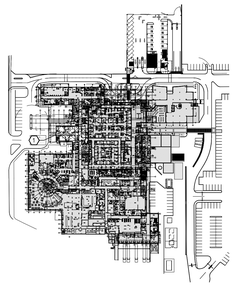

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3 ISSUED FOR TENDER AND PERMIT	BR	LY	2025.04.07
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LICENSED PROFESSIONAL ENGINEER
LIZ YANG
100070664
2025-04-07
PROVINCE OF ONTARIO

Client/Project

SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title MECHANICAL LEGENDS & DRAWING LIST

Project No. 140023034
Scale As indicated

Drawing No.

M000

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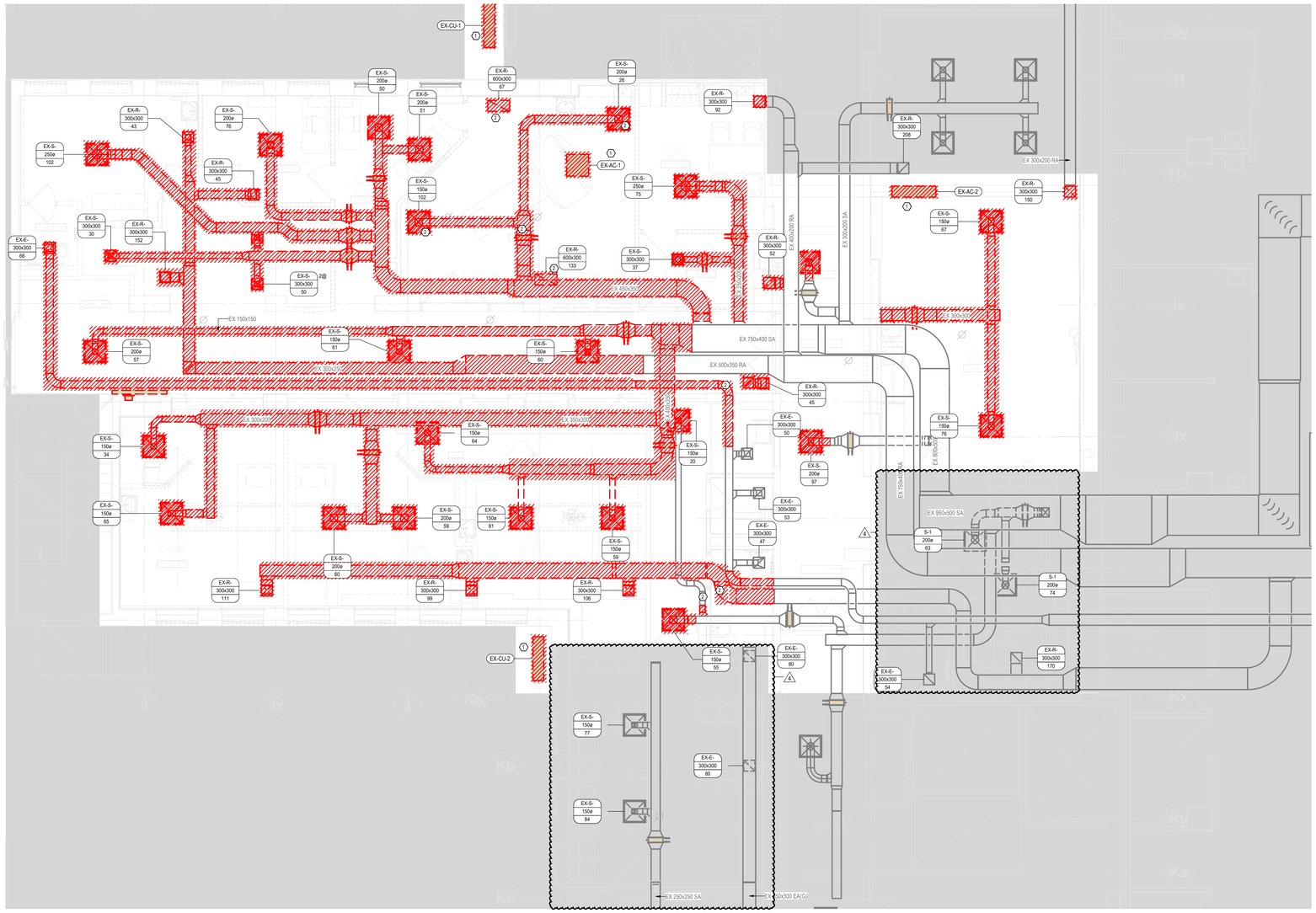

1 / M111 GROUND LEVEL - VENTILATION DEMO

1 : 50

GENERAL NOTES:

1. ALL EXISTING HVAC DUCTWORK SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL DUCT SIZES AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ALL EXISTING HVAC DUCTWORK THAT MAY NOT BE SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/ CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AS TO THE SOURCE AND ROUTING, AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAVE BEEN EXPOSED AT NO EXTRA COST TO THE OWNER.
3. ALL NEW WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL PHASING DRAWINGS.
4. REFER TO ARCHITECTURAL DRAWINGS AND DOCUMENTS FOR DETAILS ON PHASING AND SUMMARY OF WORK. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF ALL TRADES TO INCLUDE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL HVAC SERVICES TO ACCOMMODATE ALL TRADE WORK.
5. PRIOR TO COMMENCEMENT OF WORK CONTRACTOR SHALL PRE-TEST EXISTING HVAC SYSTEM AND PROVIDE A WRITTEN REPORT AND TEST RESULTS TO THE ENGINEER. UPON COMPLETION OF WORK CONTRACTOR MUST RE-BALANCE EXISTING HVAC SYSTEM AND PROVIDE THE ENGINEER WITH A WRITTEN BALANCING REPORT AND RESULTS.
6. PROVIDE DUCT FILTER MEDIA ON RETURN AIR DUCT BRANCH OPENINGS IN RENOVATION AREA PRIOR TO CONSTRUCTION.
7. DURING CONSTRUCTION, MAINTAIN REQUIRED AIRFLOW IN EXISTING SPACES. EXISTING SPACES SHALL REMAIN OPERATIONAL. REBLANCE TO EXISTING REQUIRED AIRFLOW UPON COMPLETION.

KEY NOTES:

1. EXISTING AC UNIT AND CU UNIT SHALL BE REMOVED AND TURNED OVER TO OWNER. DEMOLISH ASSOCIATED REFRIGERATION PIPING.
2. EXISTING DUCT ROUTING IS UNKNOWN. CONTRACTOR SHALL ALLOW FOR DUCT TRACING AND DEMOLITION OF BRANCH DUCTS. CUT AND CAP EXISTING SERVICES AT MAIN.

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Key Plan

SHN SCARBOROUGH HEALTH NETWORK

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Client/Project

SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - VENTILATION DEMO

Project No. 140023034

Scale As indicated

Drawing No.

M111

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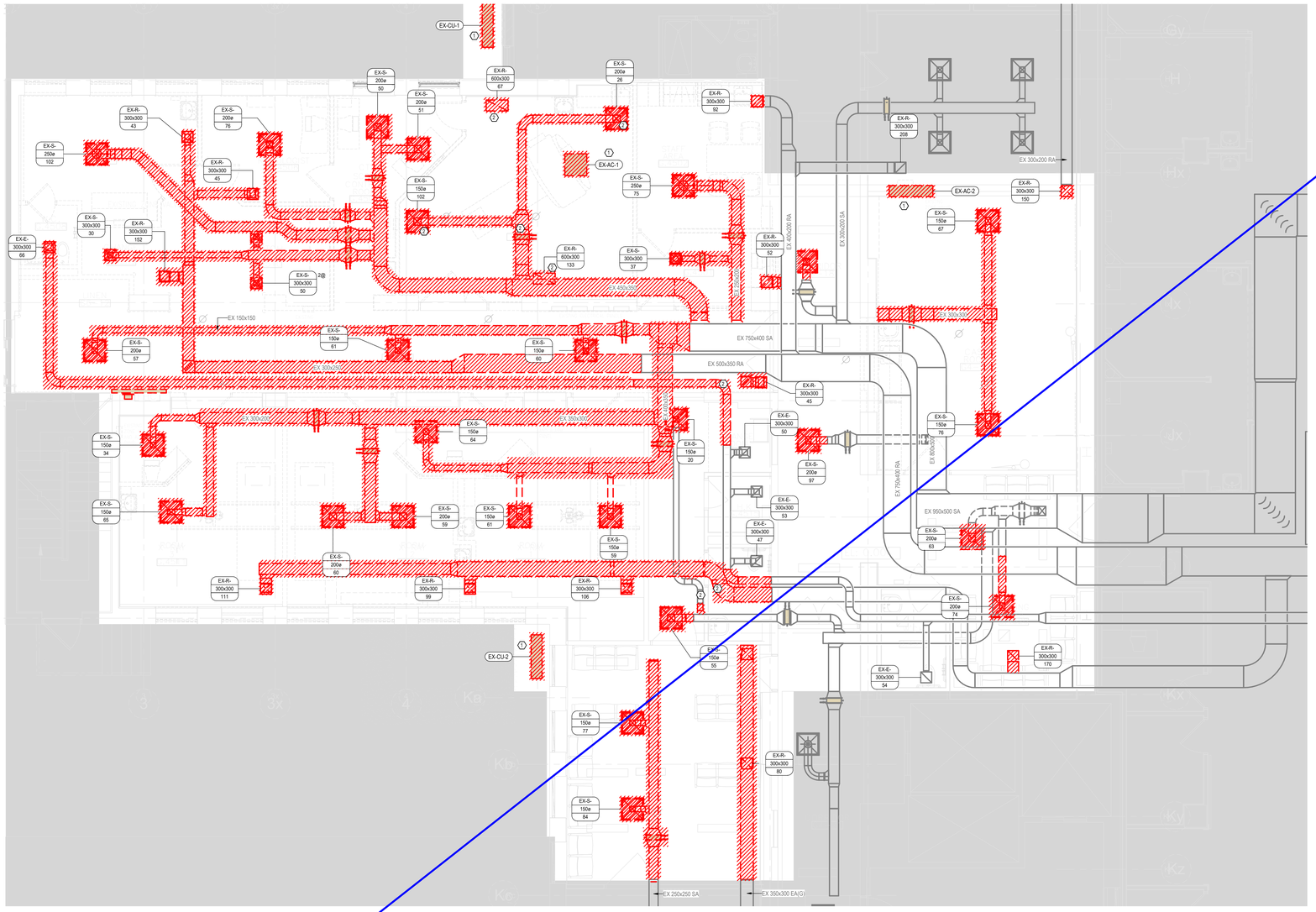

1 / M111 **GROUND LEVEL - VENTILATION DEMO**
1 : 50

GENERAL NOTES:

1. ALL EXISTING HVAC DUCTWORK SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL DUCT SIZES AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
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6. PROVIDE DUCT FILTER MEDIA ON RETURN AIR DUCT BRANCH OPENINGS IN RENOVATION AREA PRIOR TO CONSTRUCTION.
7. DURING CONSTRUCTION, MAINTAIN REQUIRED AIRFLOW IN EXISTING SPACES. EXISTING SPACES SHALL REMAIN OPERATIONAL. REBLANCE TO EXISTING REQUIRED AIRFLOW UPON COMPLETION.

KEY NOTES:

1. EXISTING AC UNIT AND CU UNIT SHALL BE REMOVED AND TURNED OVER TO OWNER. DEMOLISH ASSOCIATED REFRIGERATION PIPING.
2. EXISTING DUCT ROUTING IS UNKNOWN. CONTRACTOR SHALL ALLOW FOR DUCT TRACING AND DEMOLITION OF BRANCH DUCTS. CUT AND CAP EXISTING SERVICES AT MAIN.

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SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - VENTILATION DEMO

Project No. 140023034

Scale As indicated

Drawing No.

M111

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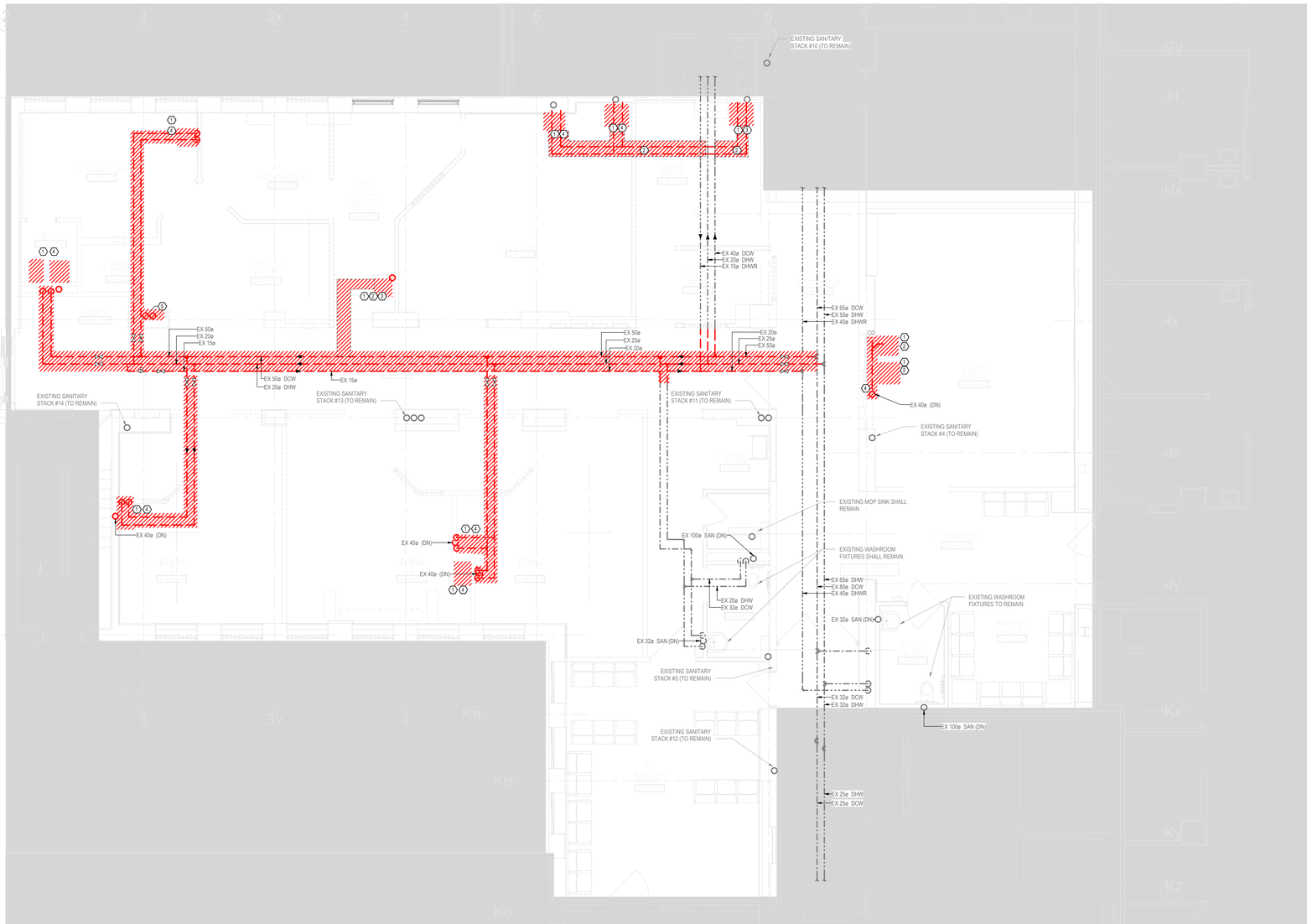

1 GROUND LEVEL - PLUMBING DEMO

M121 1 : 50

GENERAL NOTES:

1. ALL EXISTING PLUMBING SERVICES SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. MECHANICAL CONTRACTOR SHALL VERIFY ALL CONNECTIONS. PIPE SIZES AND LOCATIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ALL EXISTING PLUMBING SERVICES THAT MAY NOT BE SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/ CONSTRUCTION SHALL BE VERIFIED BY THE MECHANICAL CONTRACTOR AS TO THE SOURCE AND ROUTING, AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAVE BEEN EXPOSED AT NO EXTRA COST TO THE OWNER.
3. NEW WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL PHASING DRAWINGS.
4. REFER TO ARCHITECTURAL DRAWINGS AND DOCUMENTS FOR DETAILS OF PHASING AND SUMMARY OF WORK. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF ALL TRADES TO INCLUDE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL PLUMBING SERVICES TO ACCOMMODATE ALL TRADE WORK.
5. CONTRACTOR TO CONFIRM LOCATION OF STRUCTURAL CONCRETE JOISTS PRIOR TO CUTTING/CORING HOLES IN EXISTING FLOOR STRUCTURE. DO NOT CUT/CORE THROUGH CONCRETE JOISTS.
6. PROVIDE PLUMBING VENTS AS PER OBC.
7. TEMPORARILY SEAL ALL SANITARY DRAINS AND VENTS TO PREVENT SEWER GAS FROM ENTERING SPACE.
8. CONTRACTOR SHALL INCLUDE FOR PIPE FREEZING AT ALL CONNECTIONS TO EXISTING SERVICES AND ASSUME EXISTING ISOLATION VALVES WILL NOT HOLD. PROVIDE NEW VALVES AT ALL CONNECTION TO EXISTING SERVICES.

KEY NOTES:

1. EXISTING FIXTURES AND ASSOCIATED PIPING SHALL BE DEMOLISHED. REMOVE ALL BRANCH PIPING BACK TO MAIN PIPE. CAP VENT AND DOMESTIC WATER PIPING IN CEILING SPACE.
2. EXISTING DCW AND DHW PIPE ROUTING IS UNKNOWN. CONTRACTOR SHALL ALLOW FOR PIPE TRACING AND DEMOLITION OF BRANCH PIPES. CUT AND CAP EXISTING SERVICES AT MAIN.
3. DEMOLISH SANITARY PIPING AND CAP DRAIN IN WALL SPACE FOR NEW CONNECTION.
4. DEMOLISH SANITARY PIPING AND PATCH FLOOR OPENING.
5. DEMOLISH EXISTING LEAKING SANITARY DRAINAGE RISER ON LEVEL 1 AND IN LEVEL 0. TEMPORARILY CAP EXISTING RISER FOR NEW CONNECTION.

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Key Plan

SHN SCARBOROUGH HEALTH NETWORK

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Permit-Seal

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PROVINCE OF ONTARIO

Client/Project

SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - PLUMBING DEMO

Project No. 140023034

Scale As Indicated

Drawing No.

M121

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1 M122 **BASEMENT LEVEL - PLUMBING DRAINAGE DEMO**
1 : 50

GENERAL NOTES:

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5. CONTRACTOR TO CONFIRM LOCATION OF STRUCTURAL CONCRETE JOISTS PRIOR TO CUTTING/CORING HOLES IN EXISTING FLOOR STRUCTURE. DO NOT CUT/CORE THROUGH CONCRETE JOISTS.
6. PROVIDE PLUMBING VENTS AS PER OBC.
7. TEMPORARILY SEAL ALL SANITARY DRAINS AND VENTS TO PREVENT SEWER GAS FROM ENTERING SPACE.
8. CONTRACTOR SHALL INCLUDE FOR PIPE FREEZING AT ALL CONNECTIONS TO EXISTING SERVICES AND ASSUME EXISTING ISOLATION VALVES WILL NOT HOLD. PROVIDE NEW VALVES AT ALL CONNECTION TO EXISTING SERVICES.

KEY NOTES:

1. DEMOLISH EXISTING LEAKING SANITARY DRAINAGE RISER ON LEVEL 1 AND IN LEVEL 0. TEMPORARILY CAP EXISTING RISER FOR NEW CONNECTION.
2. CONTRACTOR SHALL TRACE ROUTING OF LEVEL 0 SANITARY DRAINAGE FROM ABOVE AND DEMOLISH ASSOCIATED LEVEL 0 PIPING. CAP AT MAIN PIPE.
3. RELOCATE EXISTING PIPE HANGERS TO ENABLE STRUCTURAL PLATE INSTALLATION.

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3 ISSUED FOR TENDER AND PERMIT	BR	LY	2025.04.07
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Issued

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LICENSED PROFESSIONAL ENGINEER
LIZ YANG
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SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title BASEMENT LEVEL - PLUMBING DRAINAGE DEMO

Project No. 140023034

Scale As indicated

Drawing No.

M122

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Plotted: 2025-04-08

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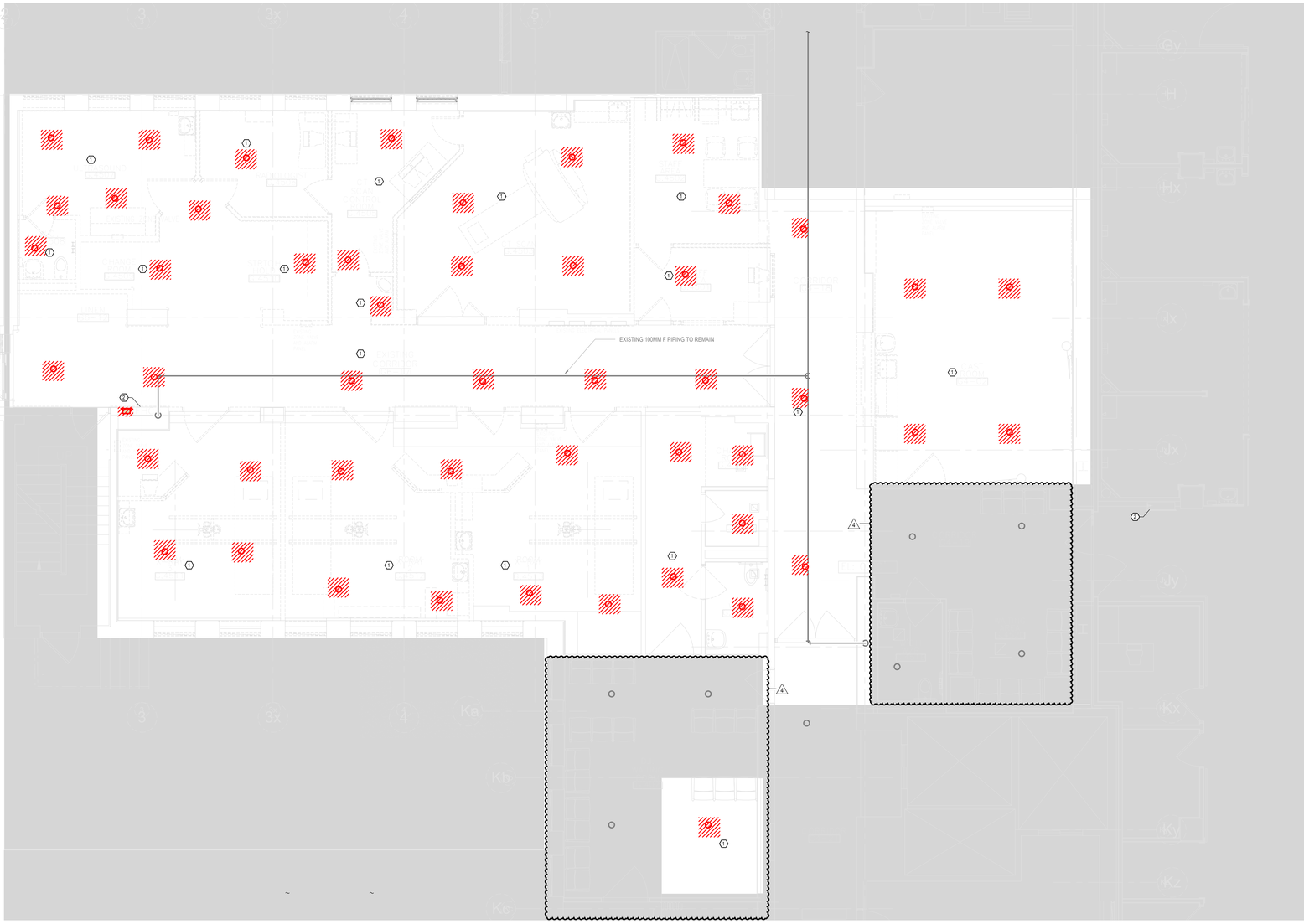

1 / M131 GROUND LEVEL - FIRE PROTECTION DEMO

1 : 50

GENERAL NOTES:

1. ALL EXISTING FIRE PROTECTION SERVICES SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL CONNECTIONS, PIPE SIZES, LOCATION OF SPRINKLERS AND PIPE ROUTINGS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ANY SPRINKLER SERVICE THAT MAY NOT BE SHOWN ON THE DRAWING THAT ARE EXPOSED DURING DEMOLITION/CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR TO THE SOURCE AND ROUTING AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAS BEEN EXPOSED. CONTRACTOR SHALL INCLUDE FOR THE REMOVAL AND REPLACEMENT OF 5 ADDITIONAL HEADS AND BRANCHES NOT SHOWN ON DRAWINGS.
3. UPON COMPLETION OF SPRINKLER WORKS, CONTRACTOR SHALL TEST REVISED SPRINKLER ZONES TO THE LATEST REQUIREMENTS OF NFPA 13 "INSTALLATION OF SPRINKLER SYSTEM".
4. CONTRACTOR SHALL ALLOW COST FOR OFF HOURS WORKING IN ORDER TO KEEP THE HOSPITAL FUNCTIONING DURING CONSTRUCTION PERIOD.
5. ALL NEW WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL PHASING DRAWINGS.
6. REFER TO ARCHITECTURAL DRAWINGS AND DOCUMENTS FOR DETAILS ON PHASING AND SUMMARY OF WORK. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF ALL TRADES TO INCLUDE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL FIRE PROTECTION SERVICES TO ACCOMMODATE ALL TRADE WORK.
7. PROVIDE HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA 13 AND NFPA 14.
8. FIRE PROTECTION SHALL BE MAINTAINED AT ALL TIMES WITH SPRINKLERS OR FIRE WATCH. ANY LIVE SPRINKLER HEADS WITHIN THE SPACE MUST BE PROVIDED WITH CAGE HEAD GUARDS.
9. CONTRACTOR SHALL PROVIDE "FIRE WATCH" TO THE REQUIREMENTS OF NATIONAL FIRE CODE OF CANADA, OBC AND AUTHORITY HAVING JURISDICTION, WHILE WORK ENTAILS AN INTERRUPTION OF THE NORMAL OPERATION OF THE FIRE PROTECTION SYSTEM.
10. CONTRACTOR TO PROVIDE FIRE ALARM BYPASS, DRAIN DOWN, AND FILLING OF SYSTEM AS REQUIRED.

KEY NOTES:

1. REMOVE EXISTING SPRINKLER HEADS AND BRANCH PIPING BACK TO MAIN (TYPICAL)
2. EXISTING FIRE HOSE CABINET SHALL REMAIN.

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1 ISSUED FOR CLASS C COSTING	BR	LY	2024.11.27

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Client/Project

SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - FIRE PROTECTION DEMO

Project No. 140023034

Scale As indicated

Drawing No.

M131

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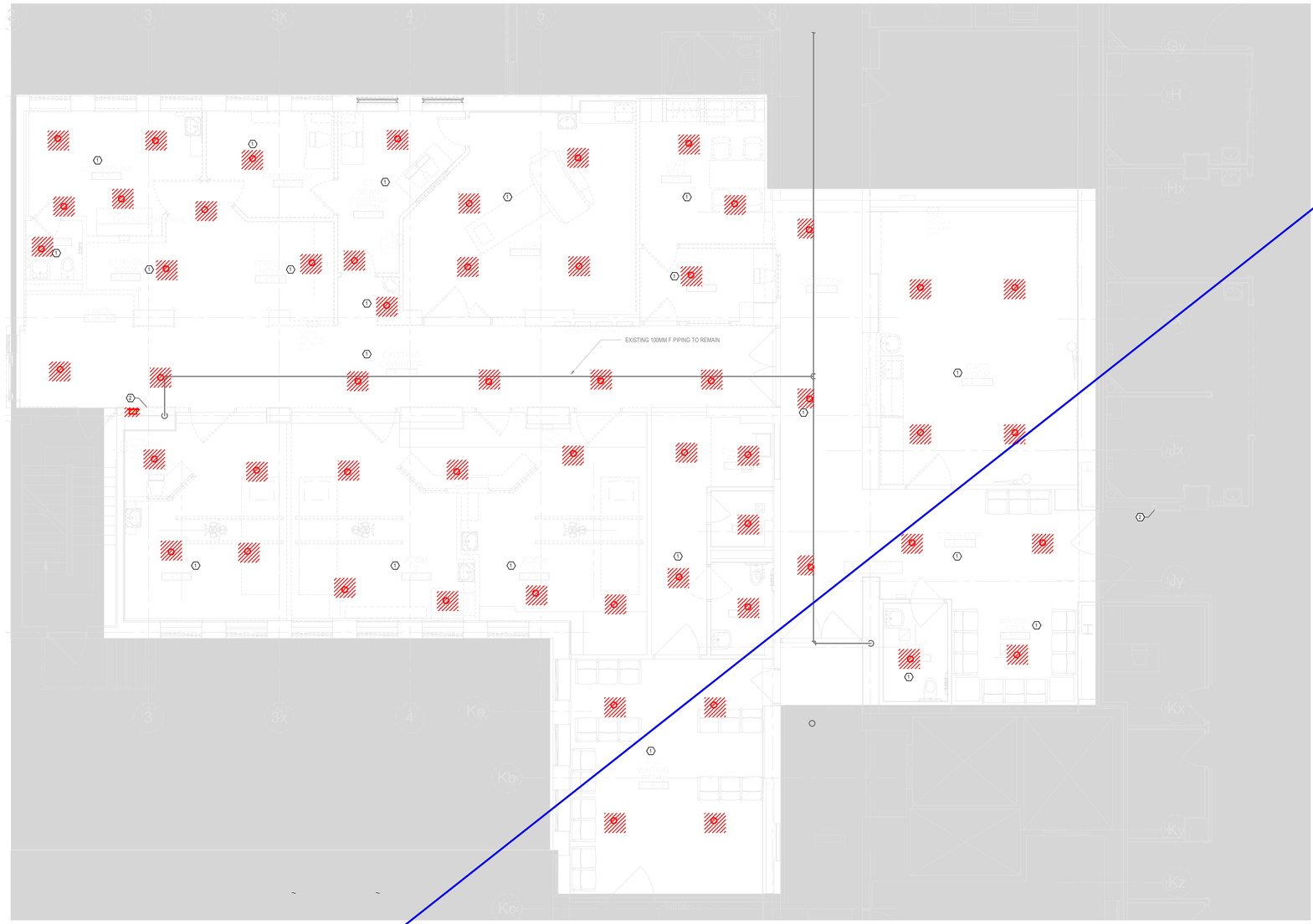

1 / M131 **GROUND LEVEL - FIRE PROTECTION DEMO**
1 : 50

GENERAL NOTES:

1. ALL EXISTING FIRE PROTECTION SERVICES SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL CONNECTIONS, PIPE SIZES, LOCATION OF SPRINKLERS AND PIPE ROUTINGS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ANY SPRINKLER SERVICE THAT MAY NOT BE SHOWN ON THE DRAWING THAT ARE EXPOSED DURING DEMOLITION/CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR TO THE SOURCE AND ROUTING AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAS BEEN EXPOSED. CONTRACTOR SHALL INCLUDE FOR THE REMOVAL AND REPLACEMENT OF 5 ADDITIONAL HEADS AND BRANCHES NOT SHOWN ON DRAWINGS.
3. UPON COMPLETION OF SPRINKLER WORKS, CONTRACTOR SHALL TEST REVISED SPRINKLER ZONES TO THE LATEST REQUIREMENTS OF NFPA 13 "INSTALLATION OF SPRINKLER SYSTEM".
4. CONTRACTOR SHALL ALLOW COST FOR OFF HOURS WORKING IN ORDER TO KEEP THE HOSPITAL FUNCTIONING DURING CONSTRUCTION PERIOD.
5. ALL NEW WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL PHASING DRAWINGS.
6. REFER TO ARCHITECTURAL DRAWINGS AND DOCUMENTS FOR DETAILS ON PHASING AND SUMMARY OF WORK. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF ALL TRADES TO INCLUDE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL FIRE PROTECTION SERVICES TO ACCOMMODATE ALL TRADE WORK.
7. PROVIDE HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA 13 AND NFPA 14.
8. FIRE PROTECTION SHALL BE MAINTAINED AT ALL TIMES WITH SPRINKLERS OR FIRE WATCH. ANY LIVE SPRINKLER HEADS WITHIN THE SPACE MUST BE PROVIDED WITH CAGE HEAD GUARDS.
9. CONTRACTOR SHALL PROVIDE "FIRE WATCH" TO THE REQUIREMENTS OF NATIONAL FIRE CODE OF CANADA, OBC AND AUTHORITY HAVING JURISDICTION, WHILE WORK ENTAILS AN INTERRUPTION OF THE NORMAL OPERATION OF THE FIRE PROTECTION SYSTEM.
10. CONTRACTOR TO PROVIDE FIRE ALARM BYPASS, DRAIN DOWN, AND FILLING OF SYSTEM AS REQUIRED.

KEY NOTES:

1. REMOVE EXISTING SPRINKLER HEADS AND BRANCH PIPING BACK TO MAIN (TYPICAL)
2. EXISTING FIRE HOSE CABINET SHALL REMAIN.

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NOV 1, 2025
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SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - FIRE PROTECTION DEMO

Project No. 140023034

Scale As indicated

Drawing No.
M131

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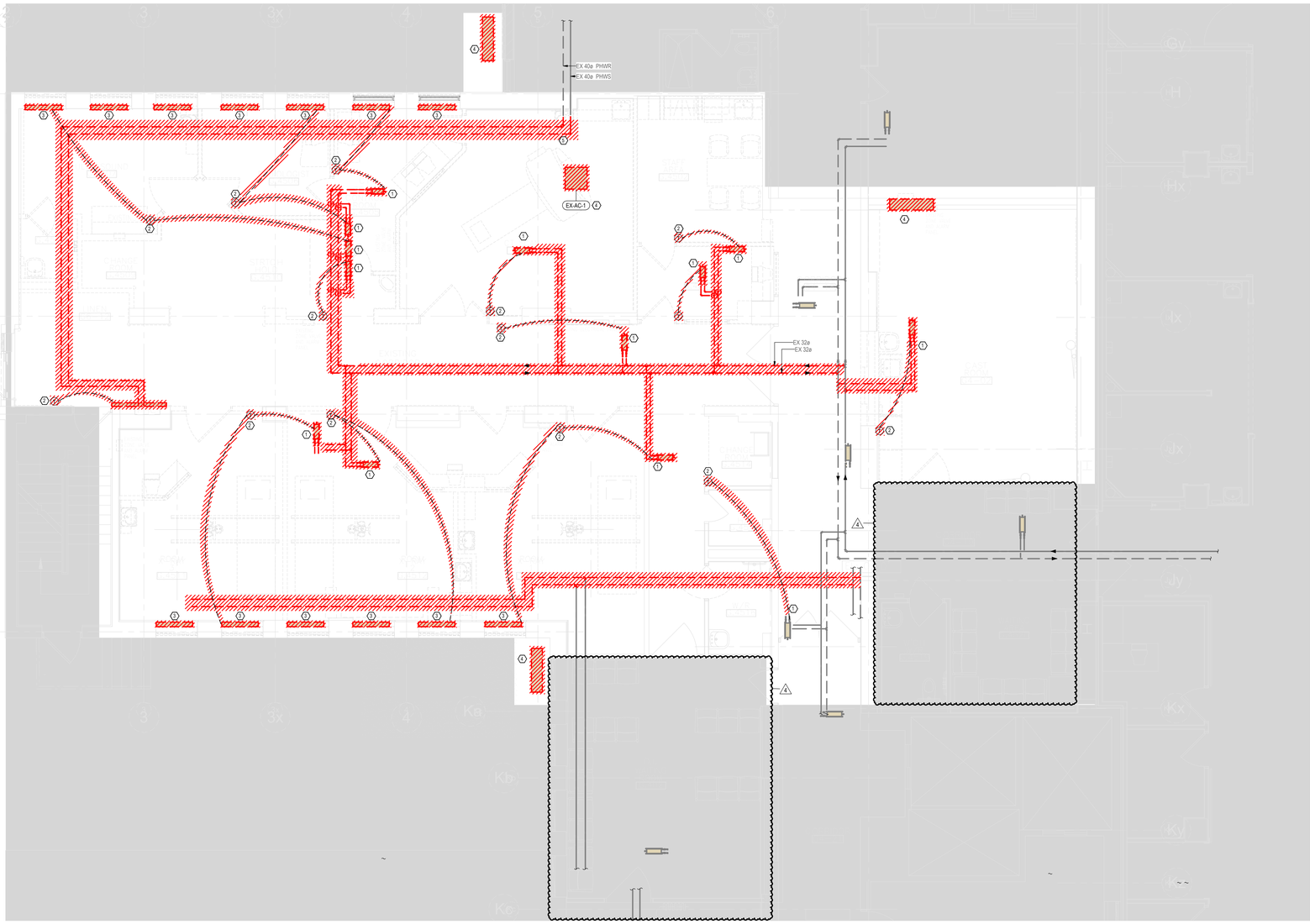

1 M141 **GROUND LEVEL - HVAC PIPING DEMO**
1 : 50

GENERAL NOTES:

1. ALL EXISTING HVAC PIPE WORK SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL PIPE SIZES AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ALL EXISTING HVAC PIPE WORK THAT MAY NOT BE SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/ CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AS TO THE SOURCE AND ROUTING, AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAVE BEEN EXPOSED AT NO EXTRA COST TO THE OWNER.
3. CONTRACTOR SHALL ASSUME EXISTING ISOLATION VALVES WILL NOT HOLD AND INCLUDE FOR FREEZING. PROVIDE NEW VALVES AT ALL CONNECTION TO EXISTING SERVICES.
4. ALL NEW WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL PHASING DRAWINGS.
5. REFER TO ARCHITECTURAL DRAWINGS AND DOCUMENTS FOR DETAILS ON PHASING AND SUMMARY OF WORK. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF ALL TRADES TO INCLUDE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL HVAC PIPING SERVICES TO ACCOMMODATE ALL TRADE WORK.
6. DURING DEMOLITION, AVOID SERVICE INTERRUPTIONS TO EXISTING HEATING PIPE LOOP. PROVIDE TEMPORARY INSTALLATIONS OR BYPASSES AS REQUIRED TO ENSURE CONTINUAL OPERATION WITHIN THE FACILITY.

KEY NOTES:

1. DEMOLISH EXISTING REHEAT COIL. REMOVE EXISTING HWS & HWR PIPING CONNECTIONS AND TEMPORARILY CAP.
2. EXISTING THERMOSTAT AND ASSOCIATED CONTROL WIRING SHALL BE DEMOLISHED.
3. DEMOLISH EXISTING PERIMETER HEATER. REMOVE EXISTING HWS & HWR PIPING CONNECTIONS AND TEMPORARILY CAP.
4. EXISTING AC UNIT AND CU UNIT SHALL BE REMOVED AND TURNED OVER TO OWNER. DEMOLISH ASSOCIATED REFRIGERATION PIPING.
5. EXISTING PERIMETER HEATER HWS AND HWR PIPE ROUTING IS UNKNOWN. CONTRACTOR SHALL ALLOW FOR PIPE TRACING AND DEMOLITION OF BRANCH PIPES. CUT AND CAP EXISTING SERVICES AT MAIN.

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Client/Project
SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - HVAC PIPING DEMO

Project No. 140023034
Scale As indicated

Drawing No.
M141

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Created: 2025-05-02

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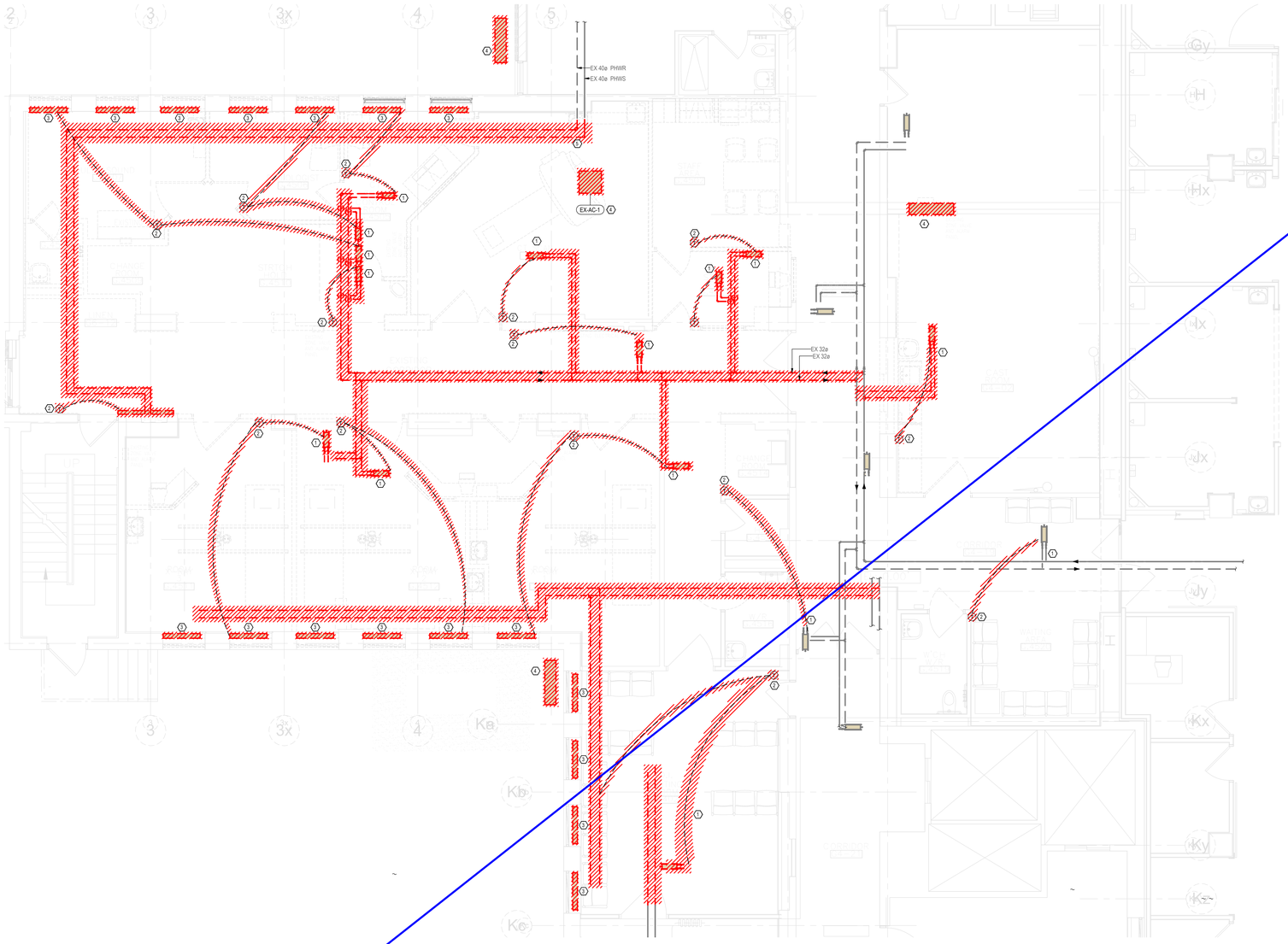

1 GROUND LEVEL - HVAC PIPING DEMO
M141 1 : 50

GENERAL NOTES:

1. ALL EXISTING HVAC PIPE WORK SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL PIPE SIZES AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ALL EXISTING HVAC PIPE WORK THAT MAY NOT BE SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/ CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AS TO THE SOURCE AND ROUTING, AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAVE BEEN EXPOSED AT NO EXTRA COST TO THE OWNER.
3. CONTRACTOR SHALL ASSUME EXISTING ISOLATION VALVES WILL NOT HOLD AND INCLUDE FOR FREEZING. PROVIDE NEW VALVES AT ALL CONNECTION TO EXISTING SERVICES.
4. ALL NEW WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL PHASING DRAWINGS.
5. REFER TO ARCHITECTURAL DRAWINGS AND DOCUMENTS FOR DETAILS ON PHASING AND SUMMARY OF WORK. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF ALL TRADES TO INCLUDE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL HVAC PIPING SERVICES TO ACCOMMODATE ALL TRADE WORK.

KEY NOTES:

1. DEMOLISH EXISTING REHEAT COIL. REMOVE EXISTING HWS & HWR PIPING CONNECTIONS AND TEMPORARILY CAP.
2. EXISTING THERMOSTAT AND ASSOCIATED CONTROL WIRING SHALL BE DEMOLISHED.
3. DEMOLISH EXISTING PERIMETER HEATER. REMOVE EXISTING HWS & HWR PIPING CONNECTIONS AND TEMPORARILY CAP.
4. EXISTING AC UNIT AND CU UNIT SHALL BE REMOVED AND TURNED OVER TO OWNER. DEMOLISH ASSOCIATED REFRIGERATION PIPING.
5. EXISTING PERIMETER HEATER HWS AND HWR PIPE ROUTING IS UNKNOWN. CONTRACTOR SHALL ALLOW FOR PIPE TRACING AND DEMOLITION OF BRANCH PIPES. CUT AND CAP EXISTING SERVICES AT MAIN.

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SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - HVAC PIPING DEMO

Project No. 140023034
Scale As indicated
Drawing No. M141

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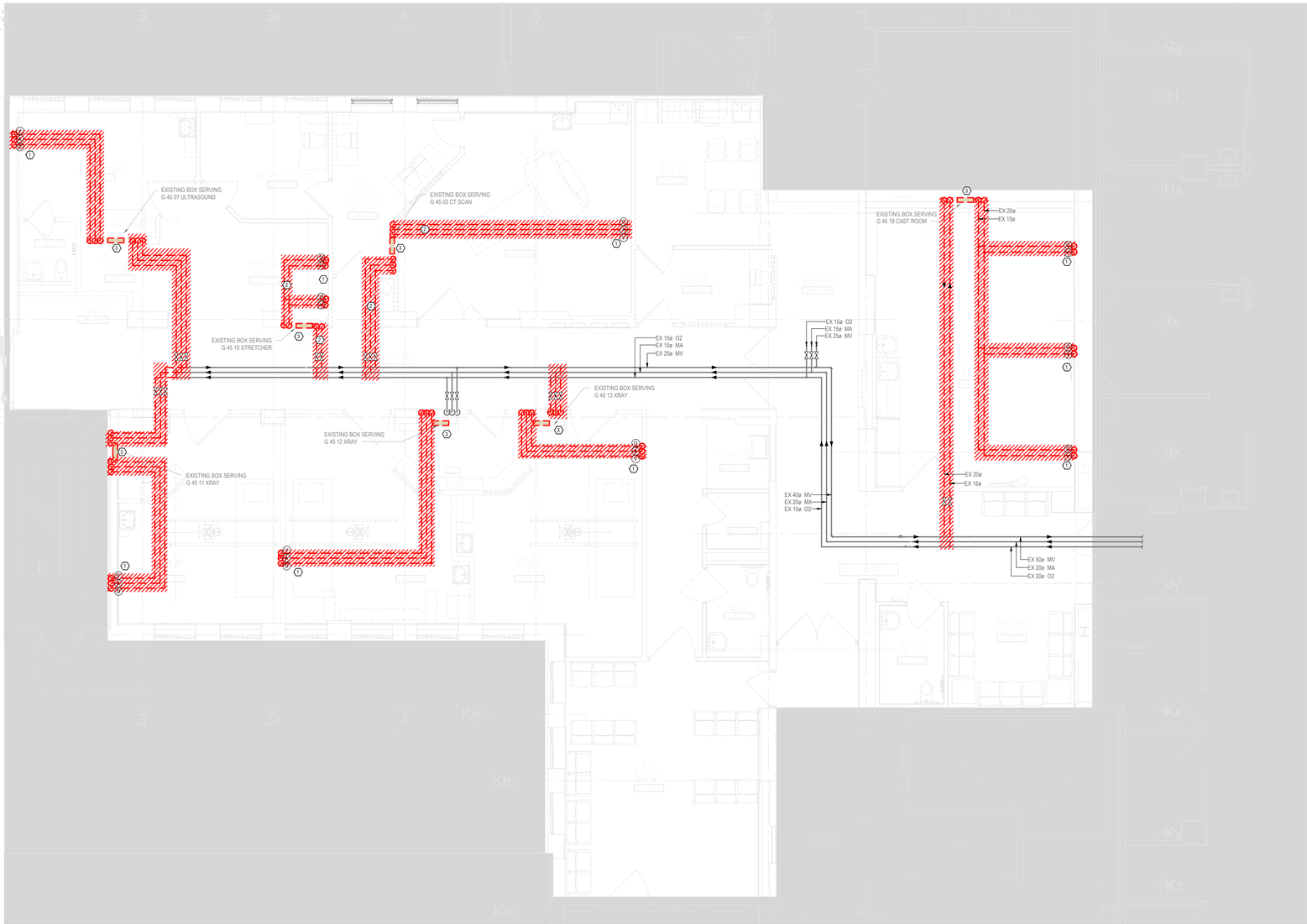

1 M151 **GROUND LEVEL - MEDICAL GAS DEMO**
1 : 50

GENERAL NOTES:

1. ALL EXISTING MEDICAL GAS SERVICES SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL PIPE SIZES AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ALL EXISTING MEDICAL GAS SERVICES THAT MAY NOT BE SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/ CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AS TO THE SOURCE AND ROUTING, AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAVE BEEN EXPOSED AT NO EXTRA COST TO THE OWNER.
3. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COORDINATE WITH THE HOSPITAL THE DATE AND SHUTDOWN PERIOD FOR DISCONNECTING AND MAKING NEW CONNECTION TO EXISTING MEDICAL GAS SERVICES, IN ORDER TO KEEP INTERRUPTIONS OF THE HOSPITAL DAILY OPERATIONS AS MINIMAL AS POSSIBLE.
4. CONTRACTOR TO CONFIRM LOCATION OF STRUCTURAL CONCRETE JOISTS PRIOR TO CUTTING/CORING HOLES IN EXISTING FLOOR STRUCTURE. DO NOT CUT/CORE THROUGH CONCRETE JOISTS.

KEY NOTES:

1. DEMOLISH EXISTING MEDICAL GAS OUTLETS AND ASSOCIATED PIPING.
2. EXISTING MEDICAL GAS PIPE ROUTING IS UNKNOWN. CONTRACTOR SHALL ALLOW FOR TRACING AND DEMOLITION OF BRANCH PIPE.
3. DEMOLISH EXISTING ZONE VALVE ALARM PANEL.

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SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - MEDICAL GAS DEMO

Project No. 140023034

Scale As indicated

Drawing No.

M151

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Plotted: 2025-05-16

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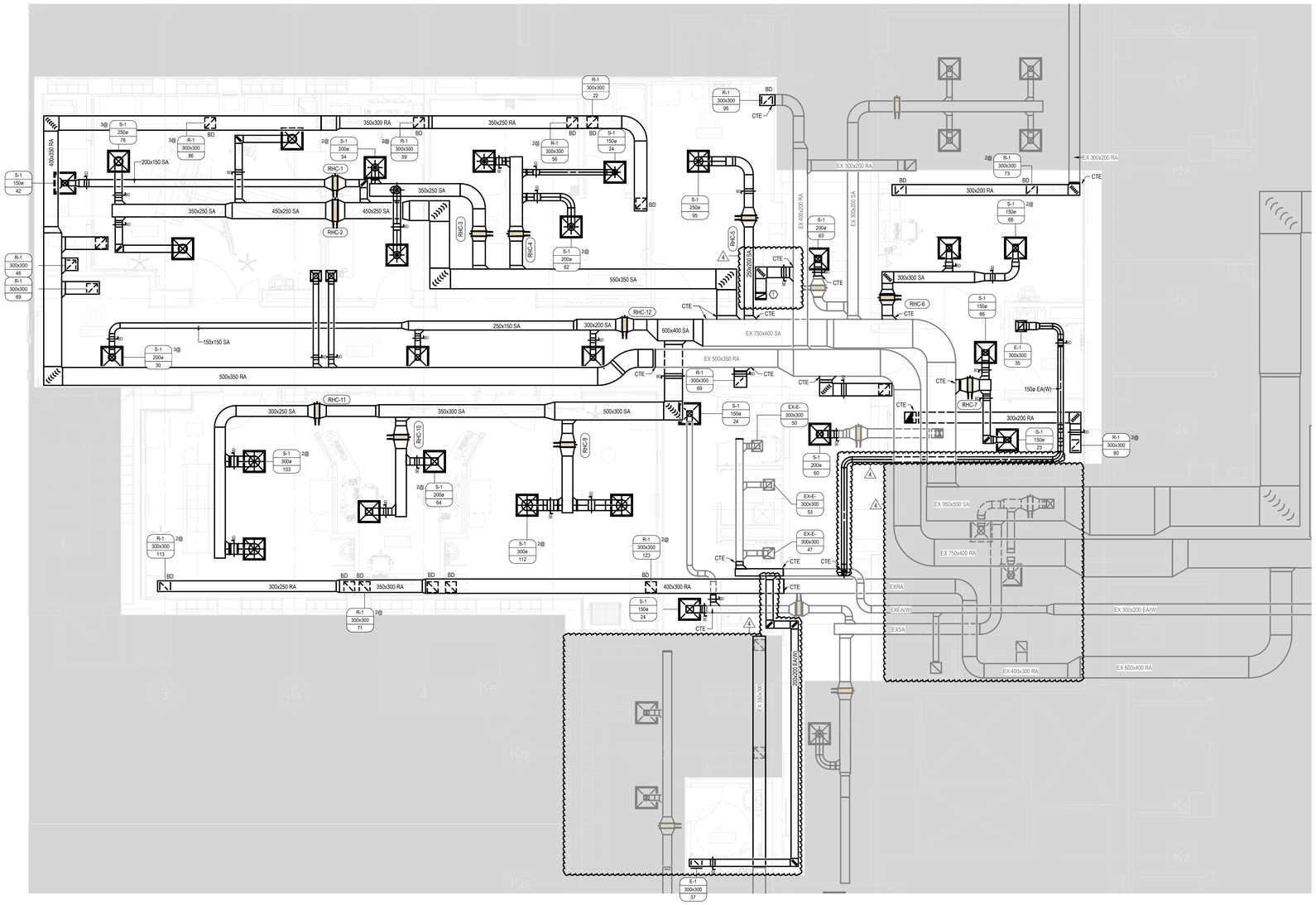

1 M211 **GROUND LEVEL - VENTILATION**

1 : 50

GENERAL NOTES:

1. ALL EXISTING HVAC DUCTWORK SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL DUCT SIZES AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ALL EXISTING HVAC DUCTWORK THAT MAY NOT BE SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/ CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AS TO THE SOURCE AND ROUTING, AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAVE BEEN EXPOSED AT NO EXTRA COST TO THE OWNER.
3. ALL NEW WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL PHASING DRAWINGS.
4. REFER TO ARCHITECTURAL DRAWINGS AND DOCUMENTS FOR DETAILS ON PHASING AND SUMMARY OF WORK. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF ALL TRADES TO INCLUDE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL HVAC SERVICES TO ACCOMMODATE ALL TRADE WORK.
5. PRIOR TO COMMENCEMENT OF WORK CONTRACTOR SHALL PRE-TEST EXISTING HVAC SYSTEM AND PROVIDE A WRITTEN REPORT AND TEST RESULTS TO THE ENGINEER. UPON COMPLETION OF WORK CONTRACTOR MUST RE-BALANCE EXISTING HVAC SYSTEM AND PROVIDE THE ENGINEER WITH A WRITTEN BALANCING REPORT AND RESULTS.
6. PROVIDE BALANCING DAMPERS AT ALL BRANCHES AND TAKE-OFFS.
7. PROVIDE DUCT FILTER MEDIA ON RETURN AIR DUCT BRANCH OPENINGS IN RENOVATION AREA PRIOR TO CONSTRUCTION.
8. DURING CONSTRUCTION, MAINTAIN REQUIRED AIRFLOW IN EXISTING SPACES. EXISTING SPACES SHALL REMAIN OPERATIONAL. REBLANCE TO EXISTING REQUIRED AIRFLOW UPON COMPLETION.

KEY NOTES:

1. PROVIDE DUCTED CONNECTION INTO MILLWORK.

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1 ISSUED FOR CLASS C COSTING	BR	LY	2024.11.27

Permit-Seal

Client/Project
SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title
GROUND LEVEL - VENTILATION

Project No. 140023034

Scale As Indicated

Drawing No.
M211

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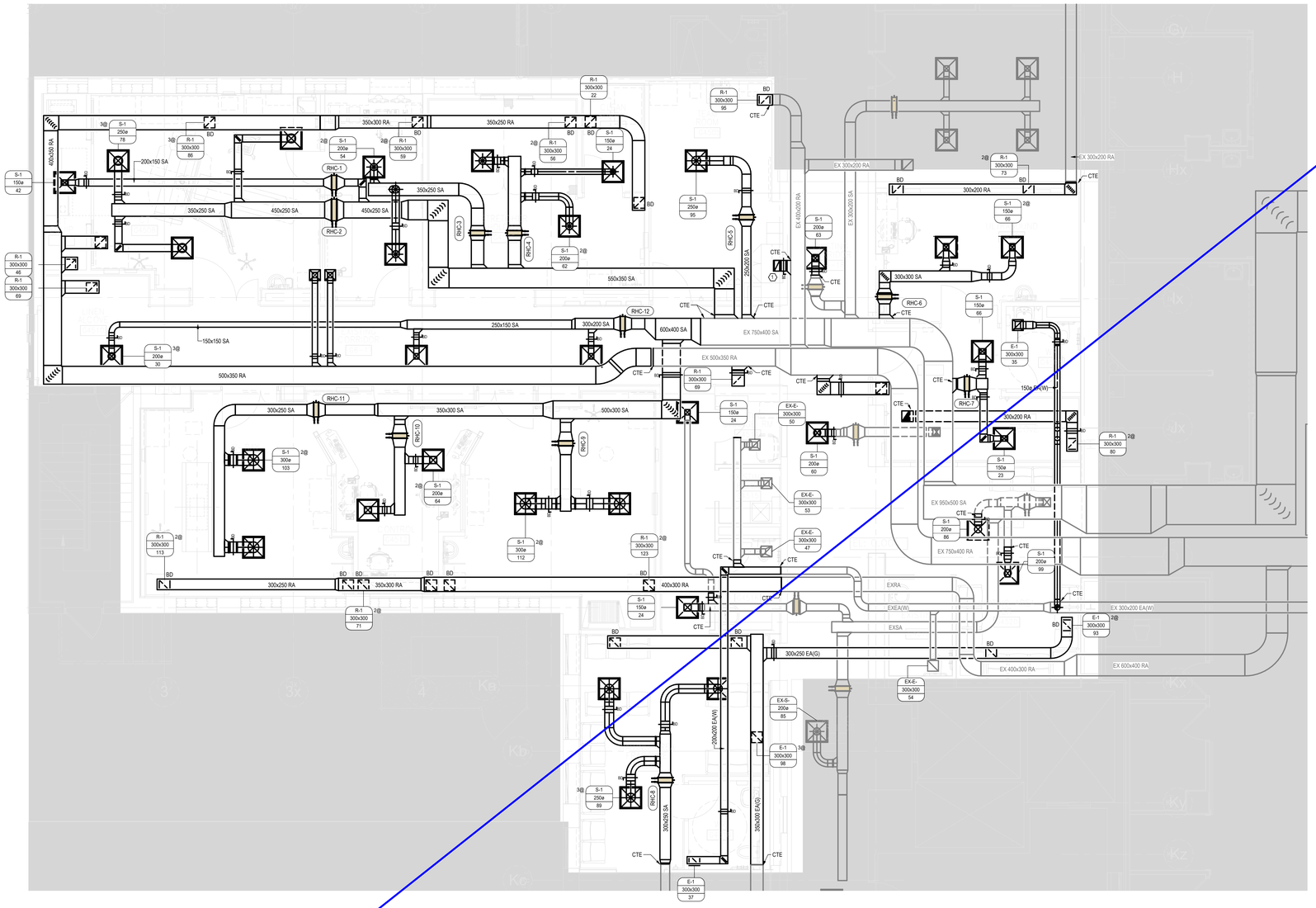
ORIGINAL SHEET - ISO A0 (841x1189)



1 M211 **GROUND LEVEL - VENTILATION**
1 : 50

GENERAL NOTES:

1. ALL EXISTING HVAC DUCTWORK SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL DUCT SIZES AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ALL EXISTING HVAC DUCTWORK THAT MAY NOT BE SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/ CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AS TO THE SOURCE AND ROUTING, AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAVE BEEN EXPOSED AT NO EXTRA COST TO THE OWNER.
3. ALL NEW WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL PHASING DRAWINGS.
4. REFER TO ARCHITECTURAL DRAWINGS AND DOCUMENTS FOR DETAILS ON PHASING AND SUMMARY OF WORK. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF ALL TRADES TO INCLUDE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL HVAC SERVICES TO ACCOMMODATE ALL TRADE WORK.
5. PRIOR TO COMMENCEMENT OF WORK CONTRACTOR SHALL PRE-TEST EXISTING HVAC SYSTEM AND PROVIDE A WRITTEN REPORT AND TEST RESULTS TO THE ENGINEER. UPON COMPLETION OF WORK CONTRACTOR MUST RE-BALANCE EXISTING HVAC SYSTEM AND PROVIDE THE ENGINEER WITH A WRITTEN BALANCING REPORT AND RESULTS.
6. PROVIDE BALANCING DAMPERS AT ALL BRANCHES AND TAKE-OFFS.
7. PROVIDE DUCT FILTER MEDIA ON RETURN AIR DUCT BRANCH OPENINGS IN RENOVATION AREA PRIOR TO CONSTRUCTION.
8. DURING CONSTRUCTION, MAINTAIN REQUIRED AIRFLOW IN EXISTING SPACES. EXISTING SPACES SHALL REMAIN OPERATIONAL. REBLANCE TO EXISTING REQUIRED AIRFLOW UPON COMPLETION.

KEY NOTES:

1. PROVIDE DUCTED CONNECTION INTO MILLWORK.

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Key Plan

SHN SCARBOROUGH HEALTH NETWORK

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3 ISSUED FOR TENDER AND PERMIT	BR	LY	2025.04.07
2 ISSUED FOR DRAFT	BR	LY	2025.02.21
1 ISSUED FOR CLASS C COSTING	BR	LY	2024.11.27

Permit-Seal

LICENSED PROFESSIONAL ENGINEER
APR. 7, 2025
LIZ YANG
100076984
PROVINCE OF ONTARIO

Client/Project

SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - VENTILATION

Project No. 140023034

Scale As indicated

Drawing No.

M211

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Autodesk Revit 2023 (Build: 20230308_1515(x64))

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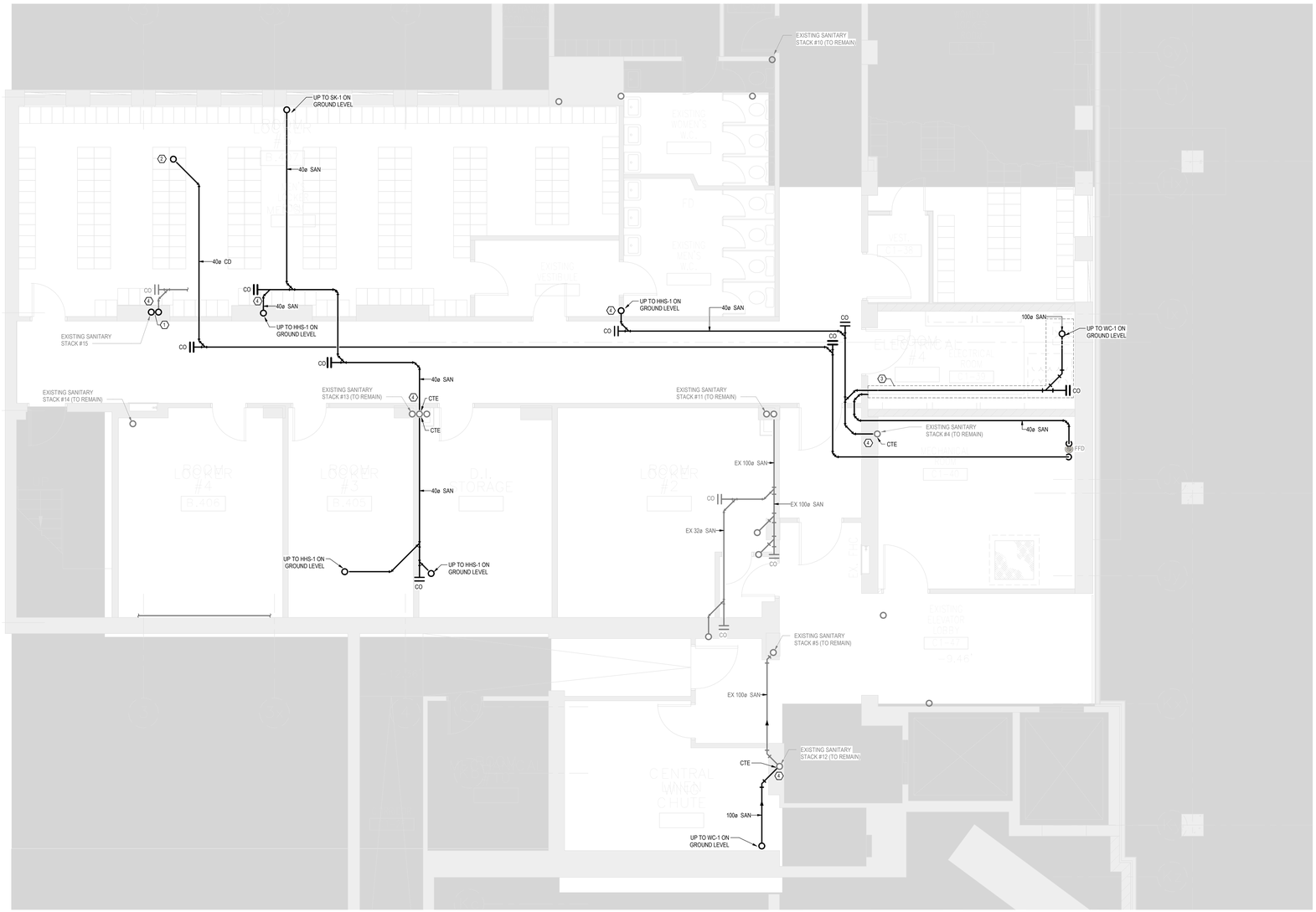

1 M221 **BASEMENT LEVEL - PLUMBING DRAINAGE**
1 : 50

GENERAL NOTES:

1. ALL EXISTING PLUMBING SERVICES SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. MECHANICAL CONTRACTOR SHALL VERIFY ALL CONNECTIONS, PIPE SIZES AND LOCATIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ALL EXISTING PLUMBING SERVICES THAT MAY NOT BE SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/ CONSTRUCTION SHALL BE VERIFIED BY THE MECHANICAL CONTRACTOR AS TO THE SOURCE AND ROUTING, AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAVE BEEN EXPOSED AT NO EXTRA COST TO THE OWNER.
3. NEW WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL PHASING DRAWINGS.
4. REFER TO ARCHITECTURAL DRAWINGS AND DOCUMENTS FOR DETAILS OF PHASING AND SUMMARY OF WORK. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF ALL TRADES TO INCLUDE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL PLUMBING SERVICES TO ACCOMMODATE ALL TRADE WORK.
5. PROVIDE PLUMBING VENTS AS PER OBC.
6. CONTRACTOR SHALL INCLUDE FOR PIPE FREEZING AT ALL CONNECTIONS TO EXISTING SERVICES AND ASSUME EXISTING ISOLATION VALVES WILL NOT HOLD. PROVIDE NEW VALVES AT ALL CONNECTION TO EXISTING SERVICES.

KEY NOTES:

1. REPLACE EXISTING LEAKING SANITARY DRAINAGE RISER (STACK #15) ON LEVEL 1 AND IN LEVEL 0.
2. PROVIDE CONDENSED WATER DRAINAGE FROM CT GANTRY TO EXISTING FUNNEL FLOOR DRAIN.
3. PROVIDE DRIP TRAY C/W LEAK DETECTION SENSOR AND BMS ALARM. DRIP TRAY SHALL DRAIN TO EXISTING FUNNEL FLOOR DRAIN.
4. PROVIDE SHAFT WALL OPENING AND REPAIR.

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APR. 7, 2025
LIZ YANG
100070664
PROVINCE OF ONTARIO

Client/Project
SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title BASEMENT LEVEL - PLUMBING DRAINAGE

Project No. 140023034
Scale As indicated
Drawing No. **M221**

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Created on 2025-04-07

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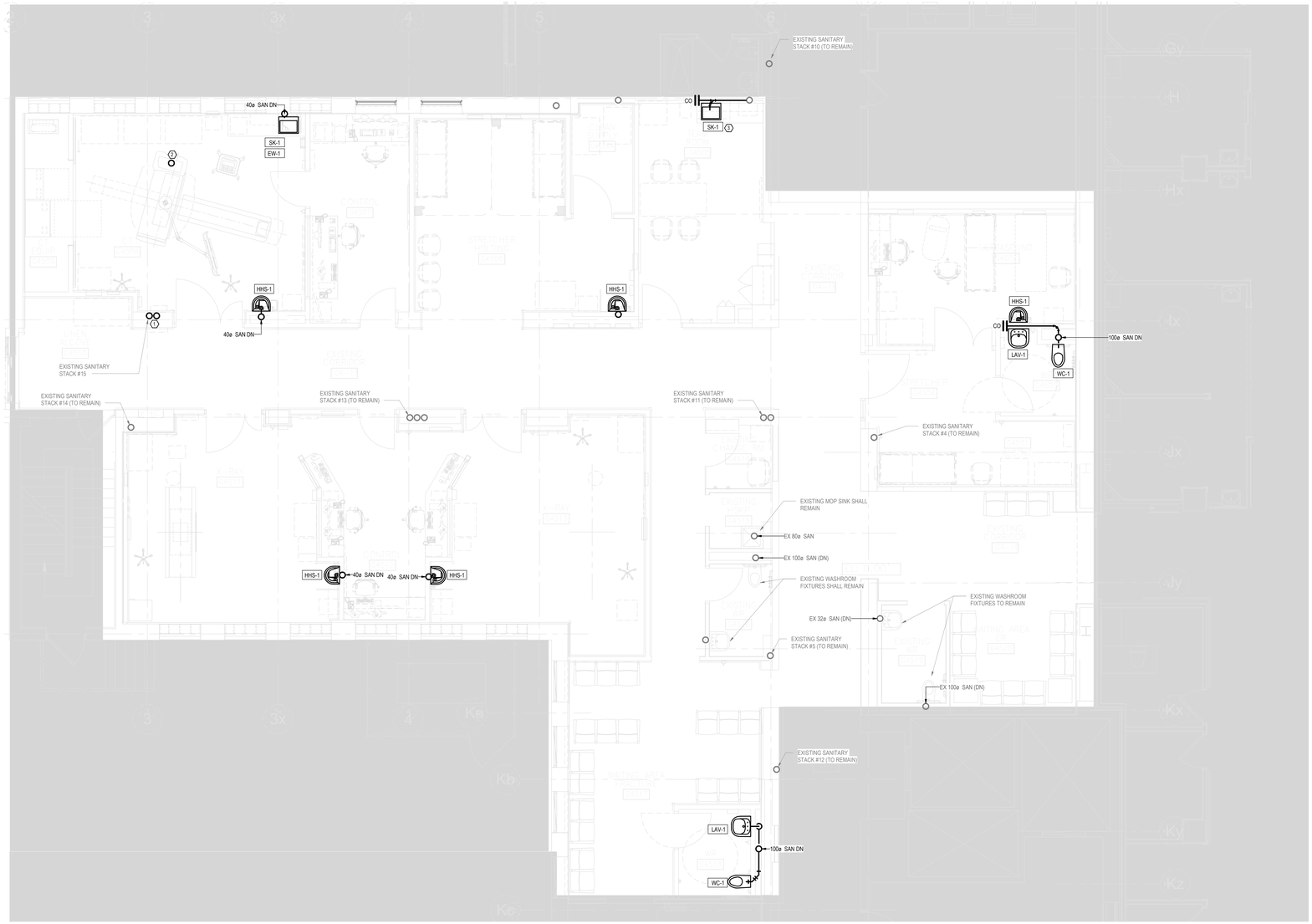

1 / M222 **GROUND LEVEL - PLUMBING DRAINAGE**

1 : 50

GENERAL NOTES:

1. ALL EXISTING PLUMBING SERVICES SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. MECHANICAL CONTRACTOR SHALL VERIFY ALL CONNECTIONS, PIPE SIZES AND LOCATIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ALL EXISTING PLUMBING SERVICES THAT MAY NOT BE SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/ CONSTRUCTION SHALL BE VERIFIED BY THE MECHANICAL CONTRACTOR AS TO THE SOURCE AND ROUTING, AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAVE BEEN EXPOSED AT NO EXTRA COST TO THE OWNER.
3. NEW WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL PHASING DRAWINGS.
4. REFER TO ARCHITECTURAL DRAWINGS AND DOCUMENTS FOR DETAILS OF PHASING AND SUMMARY OF WORK. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF ALL TRADES TO INCLUDE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL PLUMBING SERVICES TO ACCOMMODATE ALL TRADE WORK.
5. CONTRACTOR TO CONFIRM LOCATION OF STRUCTURAL CONCRETE JOISTS PRIOR TO CUTTING/CORING HOLES IN EXISTING FLOOR STRUCTURE. DO NOT CUT/CORE THROUGH CONCRETE JOISTS.
6. ALL PLUMBING FIXTURES AND VENTING OF ALL FIXTURES TO MEET ONTARIO BUILDING CODE AND NATIONAL BUILDING CODE REQUIREMENTS. VENT ALL PLUMBING TRAPS PER OBC.
7. PIPEWORK 75MM OR LESS SHALL BE SLOPED AT 1 IN 50 (2%). PIPEWORK 100MM AND LARGER SHALL BE SLOPED AT 1 IN 100 (1%). TRAP SEAL PRIMER TO BE PROVIDED FOR ALL FLOOR DRAIN TRAPS AND DIALYSIS DRAIN CONNECTIONS PROVIDE ACCESS TO PRIMER. REFER TO SPECIFICATION FOR DETAILS.

KEY NOTES:

1. REPLACE EXISTING LEAKING SANITARY DRAINAGE RISER (STACK #15) ON LEVEL 1 AND IN LEVEL 0.
2. PROVIDE 50MM CONDUIT THROUGH SLAB FOR CONDENSED WATER HOSE PROVIDED BY CT EQUIPMENT SUPPLIER. CONNECT TO 50MM SAN PIPING BELOW SLAB.
3. CONNECT TO NEW FIXTURE TO EXISTING CAPPED SANITARY DRAINAGE PIPING IN WALL SPACE.

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3 ISSUED FOR TENDER AND PERMIT	BR	LY	2025.04.07
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LICENSED PROFESSIONAL ENGINEER
DATE 7, 2025
LIZ YANG
100070954
PROVINCE OF ONTARIO

Client/Project

SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - PLUMBING DRAINAGE

Project No. 140023034

Scale As indicated

Drawing No.

M222

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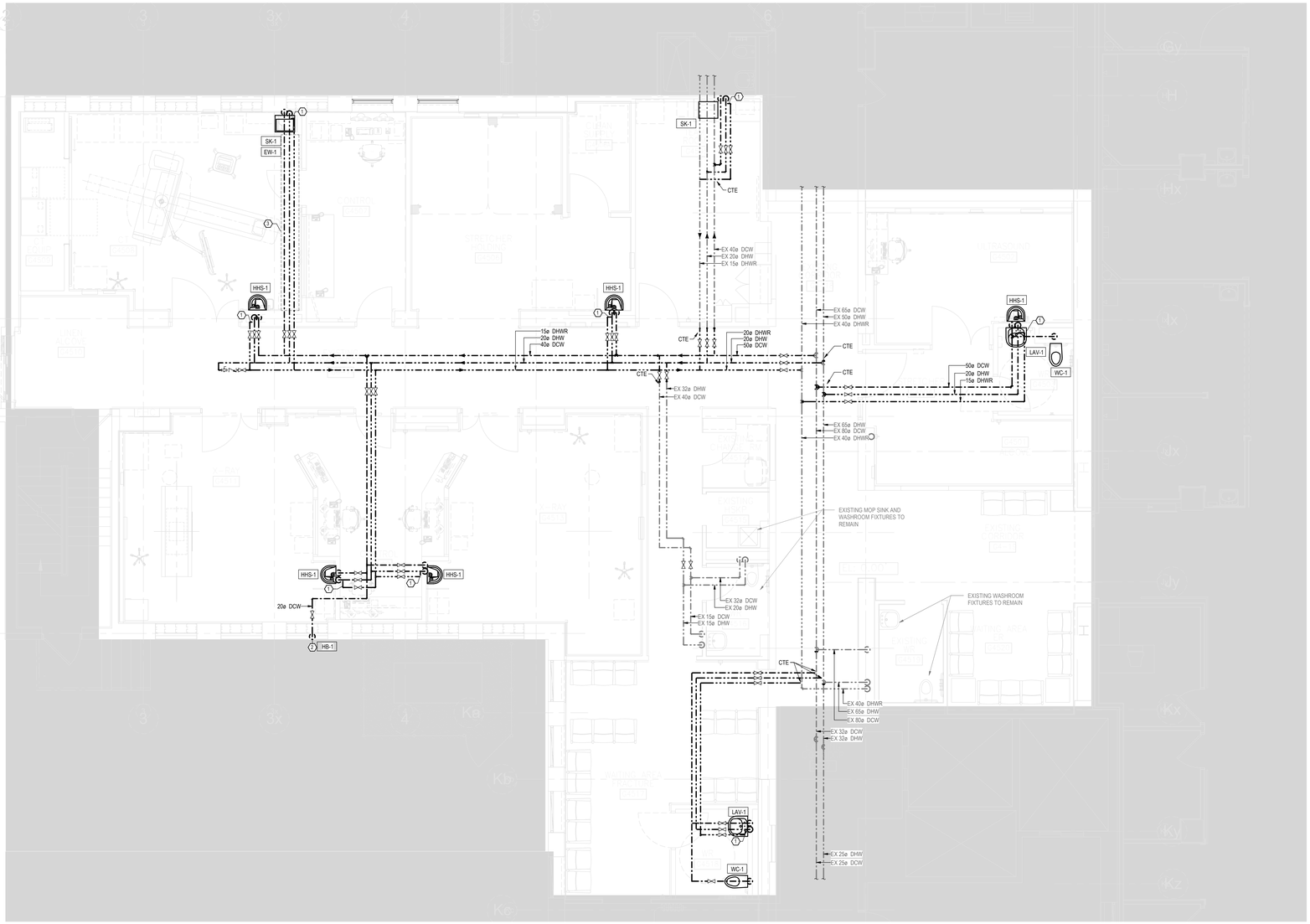

1 GROUND LEVEL - PLUMBING WATER
M223 1 : 50

GENERAL NOTES:

1. ALL EXISTING PLUMBING SERVICES SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. MECHANICAL CONTRACTOR SHALL VERIFY ALL CONNECTIONS, PIPE SIZES AND LOCATIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ALL EXISTING PLUMBING SERVICES THAT MAY NOT BE SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/ CONSTRUCTION SHALL BE VERIFIED BY THE MECHANICAL CONTRACTOR AS TO THE SOURCE AND ROUTING, AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAVE BEEN EXPOSED AT NO EXTRA COST TO THE OWNER.
3. NEW WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL PHASING DRAWINGS.
4. REFER TO ARCHITECTURAL DRAWINGS AND DOCUMENTS FOR DETAILS OF PHASING AND SUMMARY OF WORK. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF ALL TRADES TO INCLUDE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL PLUMBING SERVICES TO ACCOMMODATE ALL TRADE WORK.
5. PROVIDE PLUMBING VENTS AS PER OBC.
6. CONTRACTOR SHALL INCLUDE FOR PIPE FREEZING AT ALL CONNECTIONS TO EXISTING SERVICES AND ASSUME EXISTING ISOLATION VALVES WILL NOT HOLD. PROVIDE NEW VALVES AT ALL CONNECTION TO EXISTING SERVICES.

KEY NOTES:

1. PROVIDE CHECK VALVE AND THERMOSTATIC VARIABLE FLOW VALVE BEFORE CONNECTING END OF RUN DHW TO DHWR LINE
2. PROVIDE ENCASED NON FREEZE EXTERIOR HOSEBIB
3. PROVIDE TRIP TRAY C/W LEAK DETECTION SENSOR AND BMS ALARM.

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3 ISSUED FOR TENDER AND PERMIT	BR	LY	2025.04.07
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LICENSED PROFESSIONAL ENGINEER
LIZ WANG
100076984
PROVINCE OF ONTARIO

Client/Project
SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - PLUMBING WATER

Project No. 140023034
Scale As Indicated
Drawing No. **M223**

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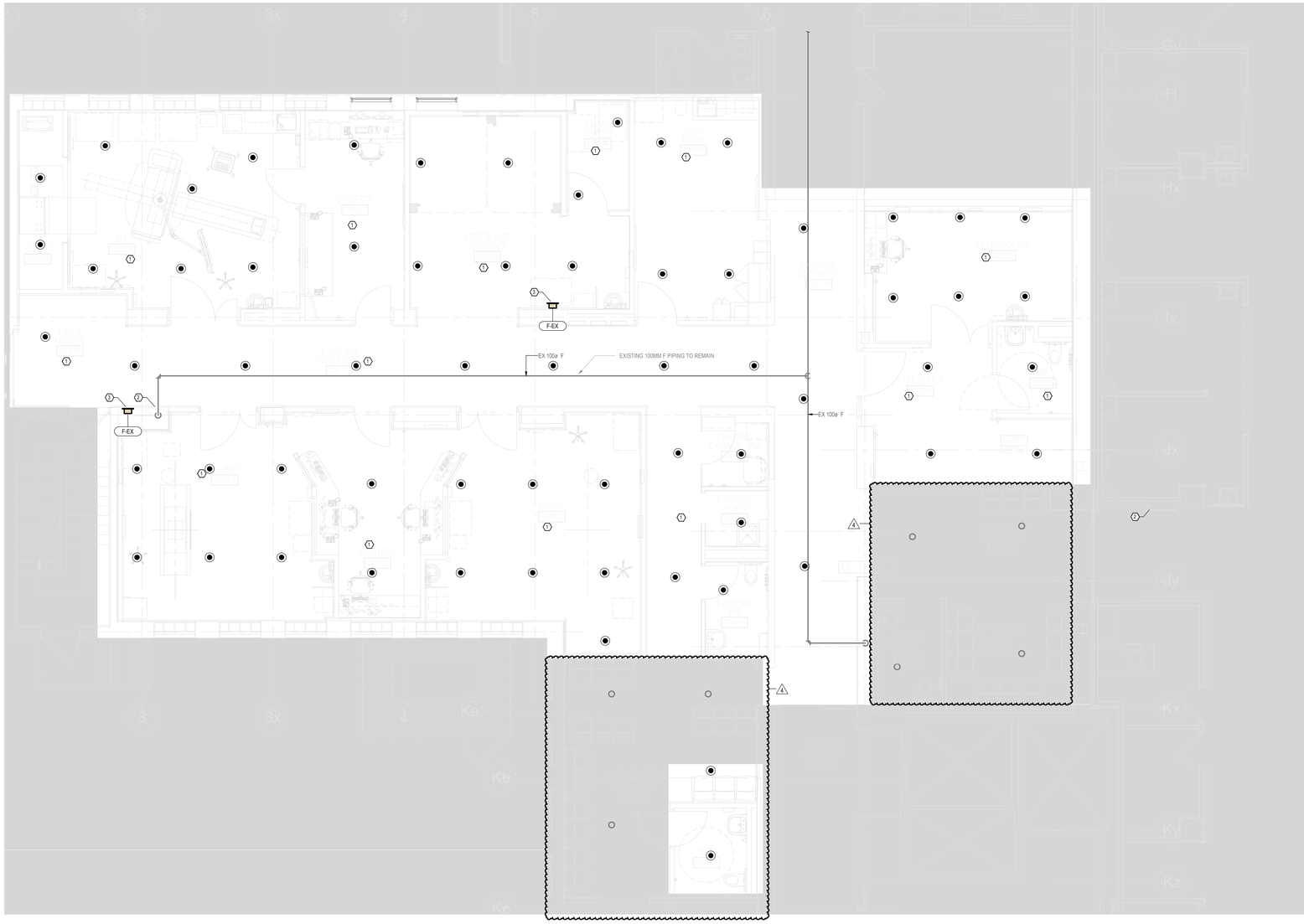

1 GROUND LEVEL - FIRE PROTECTION
M231 1 : 50

GENERAL NOTES:

1. ALL EXISTING FIRE PROTECTION SERVICES SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL CONNECTIONS, PIPE SIZES, LOCATION OF SPRINKLERS AND PIPE ROUTINGS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ANY SPRINKLER SERVICE THAT MAY NOT BE SHOWN ON THE DRAWING THAT ARE EXPOSED DURING DEMOLITION/CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR TO THE SOURCE AND ROUTING AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAS BEEN EXPOSED. CONTRACTOR SHALL INCLUDE FOR THE REMOVAL AND REPLACEMENT OF 5 ADDITIONAL HEADS AND BRANCH PIPING TO PROVIDE FULL COVERAGE.
3. UPON COMPLETION OF SPRINKLER WORKS, CONTRACTOR SHALL TEST REVISED SPRINKLER ZONES TO THE LATEST REQUIREMENTS OF NFPA 13 "INSTALLATION OF SPRINKLER SYSTEM".
4. CONTRACTOR SHALL ALLOW COST FOR OFF HOURS WORKING IN ORDER TO KEEP THE HOSPITAL FUNCTIONING DURING CONSTRUCTION PERIOD.
5. ALL NEW WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL PHASING DRAWINGS.
6. REFER TO ARCHITECTURAL DRAWINGS AND DOCUMENTS FOR DETAILS ON PHASING AND SUMMARY OF WORK. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF ALL TRADES TO INCLUDE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL FIRE PROTECTION SERVICES TO ACCOMMODATE ALL TRADE WORK.
7. PROVIDE HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA 13 AND NFPA 14.
8. FIRE PROTECTION SHALL BE MAINTAINED AT ALL TIMES WITH SPRINKLERS OR FIRE WATCH. ANY LIVE SPRINKLER HEADS WITHIN THE SPACE MUST BE PROVIDED WITH CAGE HEAD GUARDS.
9. CONTRACTOR SHALL PROVIDE "FIRE WATCH" TO THE REQUIREMENTS OF NATIONAL FIRE CODE OF CANADA, OBC AND AUTHORITY HAVING JURISDICTION, WHILE WORK ENTAILS AN INTERRUPTION OF THE NORMAL OPERATION OF THE FIRE PROTECTION SYSTEM.
10. CONTRACTOR TO PROVIDE FIRE ALARM BYPASS, DRAIN DOWN, AND FILLING OF SYSTEM AS REQUIRED.

KEY NOTES:

1. PROVIDE NEW SPRINKLER HEADS AND ASSOCIATED BRANCH PIPING (TYPICAL)
2. EXISTING FIRE HOSE CABINET SHALL REMAIN.
3. PROVIDE NEW FIRE EXTINGUISHER.

Stantec

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Key Plan

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Revision	By	Appd	YYYY.MM.DD
4 ISSUED FOR ADDENDUM 1	BR	LY	2025.05.02
3 ISSUED FOR TENDER AND PERMIT	BR	LY	2025.04.07
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Client/Project
SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - FIRE PROTECTION

Project No. 140023034

Scale As indicated

Drawing No.
M231

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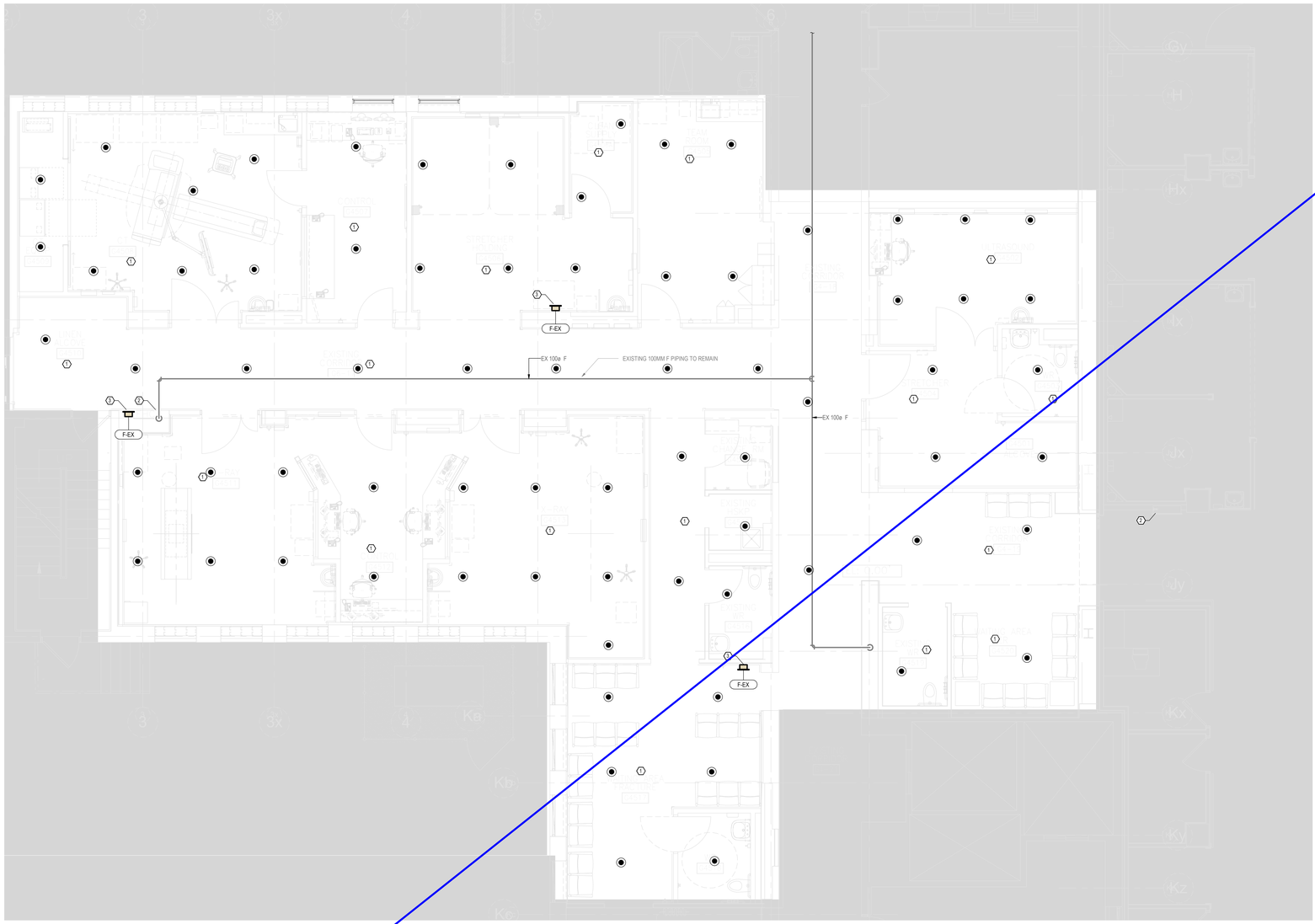

1 GROUND LEVEL - FIRE PROTECTION
M231 1 : 50

GENERAL NOTES:

1. ALL EXISTING FIRE PROTECTION SERVICES SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL CONNECTIONS, PIPE SIZES, LOCATION OF SPRINKLERS AND PIPE ROUTINGS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ANY SPRINKLER SERVICE THAT MAY NOT BE SHOWN ON THE DRAWING THAT ARE EXPOSED DURING DEMOLITION/CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR TO THE SOURCE AND ROUTING AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAS BEEN EXPOSED. CONTRACTOR SHALL INCLUDE FOR THE REMOVAL AND REPLACEMENT OF 5 ADDITIONAL HEADS AND BRANCH PIPING TO PROVIDE FULL COVERAGE.
3. UPON COMPLETION OF SPRINKLER WORKS, CONTRACTOR SHALL TEST REVISED SPRINKLER ZONES TO THE LATEST REQUIREMENTS OF NFPA 13 "INSTALLATION OF SPRINKLER SYSTEM".
4. CONTRACTOR SHALL ALLOW COST FOR OFF HOURS WORKING IN ORDER TO KEEP THE HOSPITAL FUNCTIONING DURING CONSTRUCTION PERIOD.
5. ALL NEW WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL PHASING DRAWINGS.
6. REFER TO ARCHITECTURAL DRAWINGS AND DOCUMENTS FOR DETAILS ON PHASING AND SUMMARY OF WORK. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF ALL TRADES TO INCLUDE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL FIRE PROTECTION SERVICES TO ACCOMMODATE ALL TRADE WORK.
7. PROVIDE HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA 13 AND NFPA 14.
8. FIRE PROTECTION SHALL BE MAINTAINED AT ALL TIMES WITH SPRINKLERS OR FIRE WATCH. ANY LIVE SPRINKLER HEADS WITHIN THE SPACE MUST BE PROVIDED WITH CAGE HEAD GUARDS.
9. CONTRACTOR SHALL PROVIDE "FIRE WATCH" TO THE REQUIREMENTS OF NATIONAL FIRE CODE OF CANADA, OBC AND AUTHORITY HAVING JURISDICTION, WHILE WORK ENTAILS AN INTERRUPTION OF THE NORMAL OPERATION OF THE FIRE PROTECTION SYSTEM.
10. CONTRACTOR TO PROVIDE FIRE ALARM BYPASS, DRAIN DOWN, AND FILLING OF SYSTEM AS REQUIRED.

KEY NOTES:

1. PROVIDE NEW SPRINKLER HEADS AND ASSOCIATED BRANCH PIPING (TYPICAL)
2. EXISTING FIRE HOSE CABINET SHALL REMAIN.
3. PROVIDE NEW FIRE EXTINGUISHER.

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NOV 1, 2025
LIZ YANG
100170954
PROVINCE OF ONTARIO

Client/Project
SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - FIRE PROTECTION

Project No. 140023034
Scale As indicated
Drawing No. M231

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Plotted: 2025-11-19

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2 M241 BASEMENT LEVEL - HVAC PIPING

1 : 50

GENERAL NOTES:

1. ALL EXISTING HVAC PIPE WORK SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL PIPE SIZES AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ALL EXISTING HVAC PIPE WORK THAT MAY NOT BE SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/ CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AS TO THE SOURCE AND ROUTING, AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAVE BEEN EXPOSED AT NO EXTRA COST TO THE OWNER.
3. ALL NEW WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL PHASING DRAWINGS.
4. REFER TO ARCHITECTURAL DRAWINGS AND DOCUMENTS FOR DETAILS ON PHASING AND SUMMARY OF WORK. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF ALL TRADES TO INCLUDE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL HVAC PIPING SERVICES TO ACCOMMODATE ALL TRADE WORK.
5. REFER TO DETAIL 9/M402 FOR REHEAT COIL PIPING ARRANGEMENT
6. CONTRACTOR SHALL INCLUDE FOR PIPE FREEZING AT ALL CONNECTIONS TO EXISTING SERVICES AND ASSUME EXISTING ISOLATION VALVES WILL NOT HOLD. PROVIDE NEW VALVES AT ALL CONNECTION TO EXISTING SERVICES.

KEY NOTES:

1. PROVIDE TWO 75MM CONDUITS TO CONTAIN FLEX HOSES. CONTRACTOR SHALL ALLOW FOR CORING AND ROUTE CONDUIT BENEATH GROUND LEVEL SLAB. FLEX HOSES SHALL BE SUPPLIED AND INSTALLED BY CT EQUIPMENT VENDOR.

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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
1 ISSUED FOR TENDER AND PERMIT	BR	LY	2025.04.07

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LICENSED PROFESSIONAL ENGINEER
LIZ YANG
100070954
PROVINCE OF ONTARIO

Client/Project

SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title BASEMENT LEVEL - HVAC PIPING

Project No. 140023034

Scale As indicated

Drawing No.

M241

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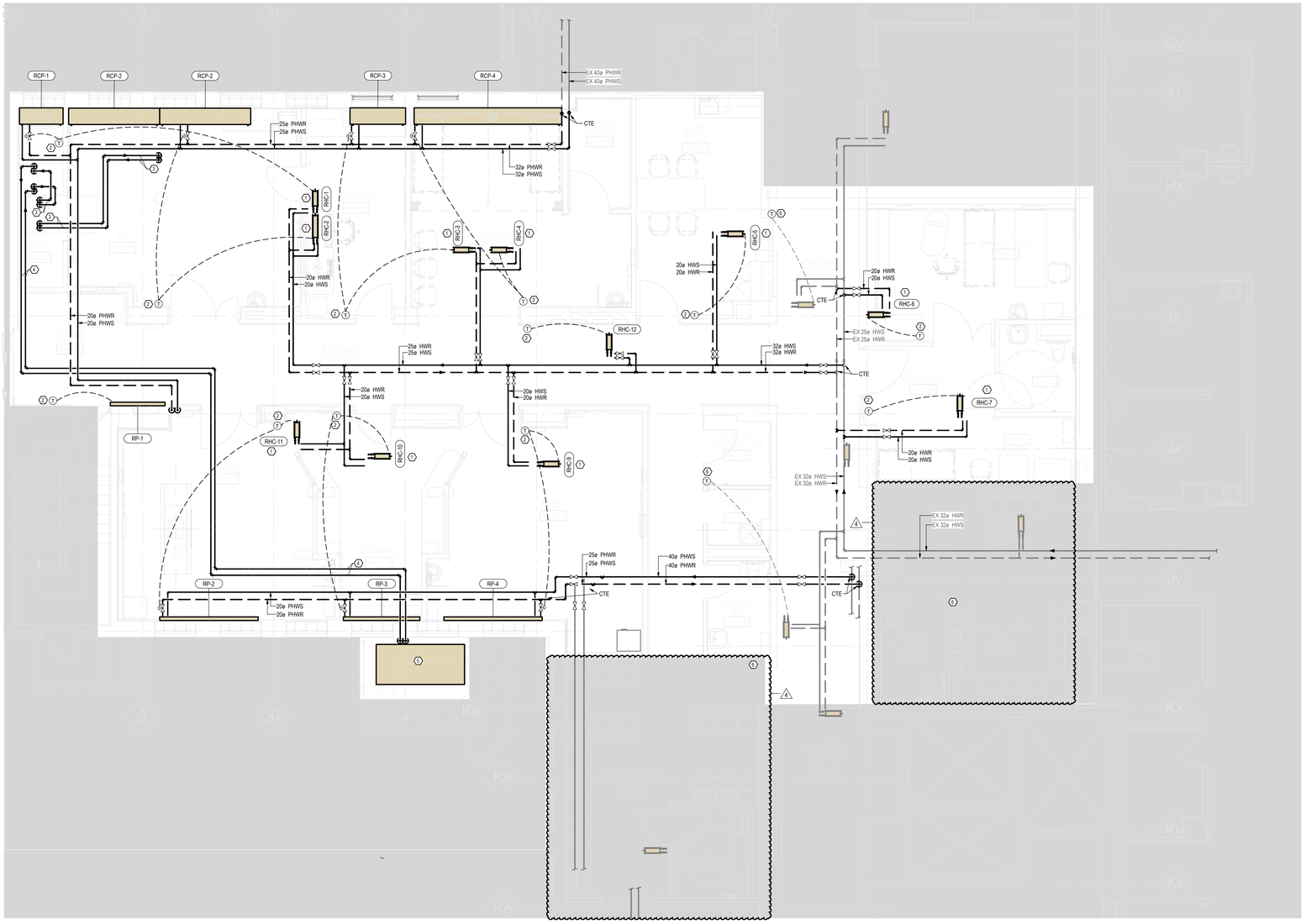
Plotted: 2025-04-07

ORIGINAL SHEET - ISO A0 (841x1189)



3 M242 **GROUND LEVEL - HVAC PIPING**
1 : 50

GENERAL NOTES:

1. ALL EXISTING HVAC PIPE WORK SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL PIPE SIZES AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ALL EXISTING HVAC PIPE WORK THAT MAY NOT BE SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/ CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AS TO THE SOURCE AND ROUTING, AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAVE BEEN EXPOSED AT NO EXTRA COST TO THE OWNER.
3. ALL NEW WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL PHASING DRAWINGS.
4. REFER TO ARCHITECTURAL DRAWINGS AND DOCUMENTS FOR DETAILS ON PHASING AND SUMMARY OF WORK. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF ALL TRADES TO INCLUDE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL HVAC PIPING SERVICES TO ACCOMMODATE ALL TRADE WORK.
5. REFER TO DETAIL 9/M402 FOR REHEAT COIL PIPING ARRANGEMENT
6. CONTRACTOR SHALL INCLUDE FOR PIPE FREEZING AT ALL CONNECTIONS TO EXISTING SERVICES AND ASSUME EXISTING ISOLATION VALVES WILL NOT HOLD. PROVIDE NEW VALVES AT ALL CONNECTION TO EXISTING SERVICES.

4 DURING NEW CONSTRUCTION, AVOID SERVICE INTERRUPTIONS TO EXISTING HEATING PIPE LOOP. PROVIDE TEMPORARY INSTALLATIONS OR BYPASSES AS REQUIRED TO ENSURE CONTINUAL OPERATION WITHIN THE FACILITY.

KEY NOTES:

1. PROVIDE NEW REHEAT COIL C/W HWS & HWR PIPING CONNECTIONS PER DETAIL 9/M402.
2. PROVIDE NEW THERMOSTAT AND ASSOCIATED CONTROL WIRING. COORDINATE LOCATION ON WALL WITH OTHER DEVICES.
3. PROVIDE TWO 75MM CONDUITS TO CONTAIN FLEX HOSES. CONTRACTOR SHALL ALLOW FOR CORING AND ROUTE CONDUIT BENEATH SLAB. HYDRONIC FLEX HOSES SHALL BE SUPPLIED AND INSTALLED BY CT EQUIPMENT VENDOR.
4. PROVIDE TWO 75MM CONDUITS TO CONTAIN FLEX HOSES. CONTRACTOR SHALL ROUTE CONDUIT IN CEILING SPACE AND ALLOW FOR CORING. HYDRONIC FLEX HOSES SHALL BE SUPPLIED AND INSTALLED BY CT EQUIPMENT VENDOR.
5. INSTALL NEW CT SCANNER HEAT REJECTION UNIT, SUPPLIED BY CT EQUIPMENT VENDOR. COORDINATE EXACT LOCATION AS PER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
6. EXISTING THERMOSTAT AND CONTROLS TO REMAIN.

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Revision	By	Appd	YYYY.MM.DD

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4 ISSUED FOR ADDENDUM 1	BR	LY	2025.05.02
3 ISSUED FOR TENDER AND PERMIT	BR	LY	2025.04.07
2 ISSUED FOR DRAFT	BR	LY	2025.02.21
1 ISSUED FOR CLASS C COSTING	BR	LY	2024.11.27

Permit-Seal

Client/Project
SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - HVAC PIPING

Project No. 140023034
Scale As indicated
Drawing No. **M242**

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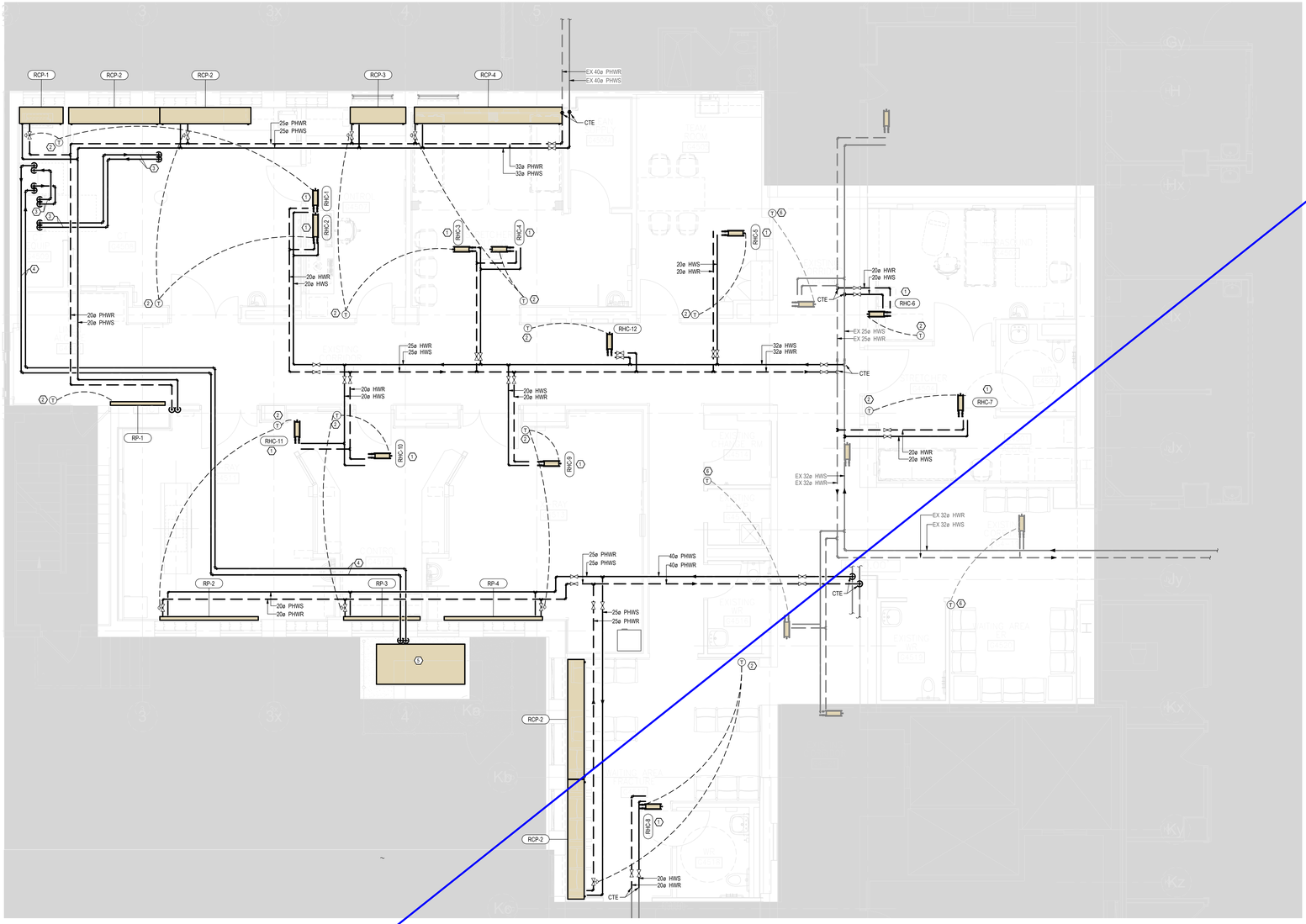

3 / M242 **GROUND LEVEL - HVAC PIPING**
1 : 50

GENERAL NOTES:

1. ALL EXISTING HVAC PIPE WORK SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL PIPE SIZES AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ALL EXISTING HVAC PIPE WORK THAT MAY NOT BE SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/ CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AND THE SOURCE AND ROUTING, AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAVE BEEN EXPOSED AT NO EXTRA COST TO THE OWNER.
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6. CONTRACTOR SHALL INCLUDE FOR PIPE FREEZING AT ALL CONNECTIONS TO EXISTING SERVICES AND ASSUME EXISTING ISOLATION VALVES WILL NOT HOLD. PROVIDE NEW VALVES AT ALL CONNECTION TO EXISTING SERVICES.

KEY NOTES:

1. PROVIDE NEW REHEAT COIL C/W HWS & HWR PIPING CONNECTIONS PER DETAIL 9/M402.
2. PROVIDE NEW THERMOSTAT AND ASSOCIATED CONTROL WIRING. COORDINATE LOCATION ON WALL WITH OTHER DEVICES.
3. PROVIDE TWO 75MM CONDUITS TO CONTAIN FLEX HOSES. CONTRACTOR SHALL ALLOW FOR CORING AND ROUTE CONDUIT BENEATH SLAB. HYDRONIC FLEX HOSES SHALL BE SUPPLIED AND INSTALLED BY CT EQUIPMENT VENDOR.
4. PROVIDE TWO 75MM CONDUITS TO CONTAIN FLEX HOSES. CONTRACTOR SHALL ROUTE CONDUIT IN CEILING SPACE AND ALLOW FOR CORING. HYDRONIC FLEX HOSES SHALL BE SUPPLIED AND INSTALLED BY CT EQUIPMENT VENDOR.
5. INSTALL NEW CT SCANNER HEAT REJECTION UNIT, SUPPLIED BY CT EQUIPMENT VENDOR. COORDINATE EXACT LOCATION AS PER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
6. EXISTING THERMOSTAT AND CONTROLS TO REMAIN.

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1 ISSUED FOR CLASS C COSTING	BR	LY	2024.11.27

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LIZ YANG
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Client/Project
SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - HVAC PIPING

Project No. 140023034
Scale As indicated
Drawing No. **M242**

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Plotted: 2025-11-19

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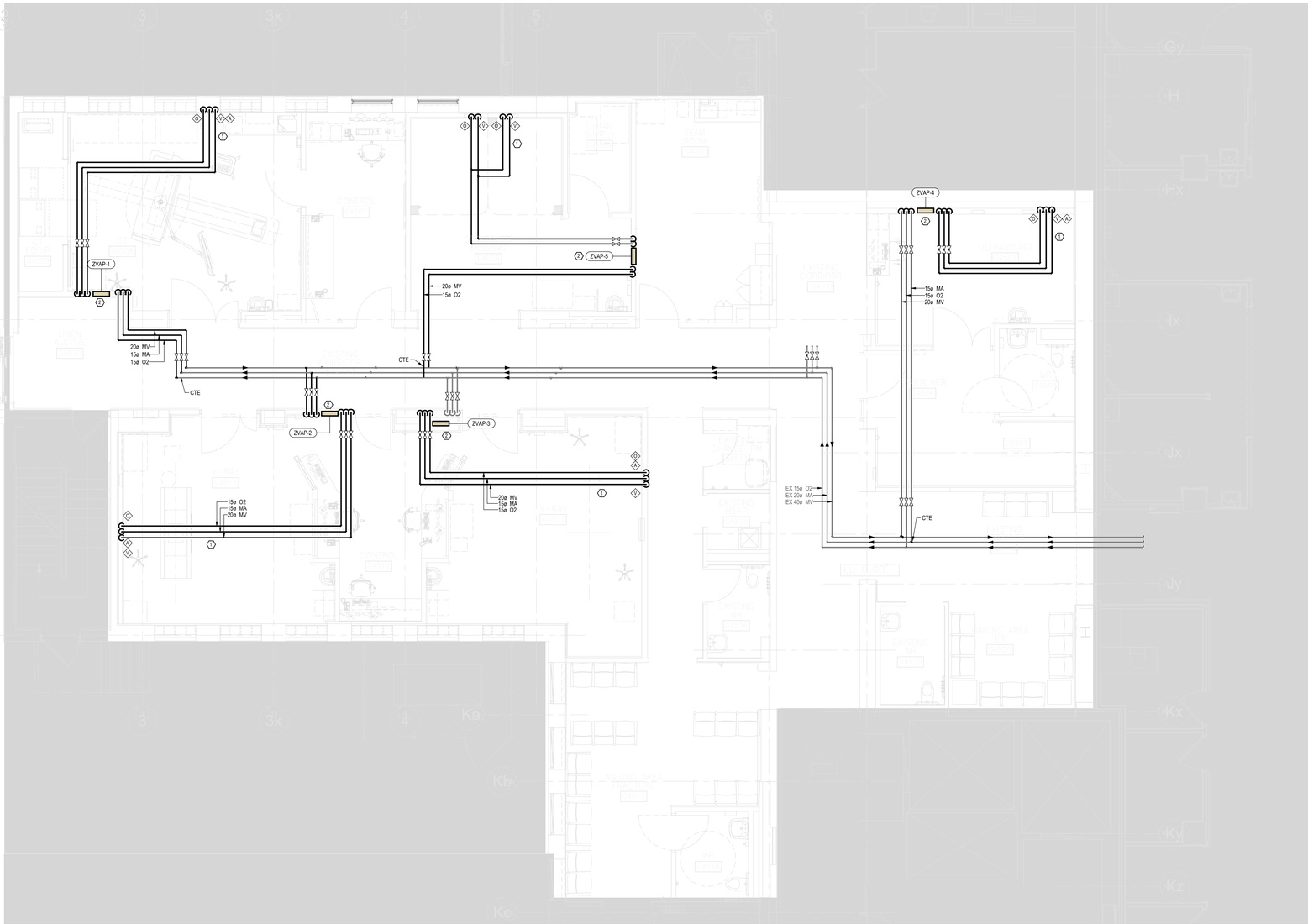

1 / M251 GROUND LEVEL - MEDICAL GAS

1 : 50

GENERAL NOTES:

1. ALL EXISTING MEDICAL GAS SERVICES SHOWN ARE APPROXIMATE AND BASED ON VISUAL SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL PIPE SIZES AND CONNECTIONS ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT FOR RESOLUTION.
2. ALL EXISTING MEDICAL GAS SERVICES THAT MAY NOT BE SHOWN ON THE DRAWINGS AND ARE EXPOSED DURING DEMOLITION/ CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AS TO THE SOURCE AND ROUTING, AND SHALL BE REPORTED TO THE CONSULTANT WITH PROPOSED RESOLUTIONS REQUIRED FOR THE SERVICE THAT HAVE BEEN EXPOSED AT NO EXTRA COST TO THE OWNER.
3. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COORDINATE WITH THE HOSPITAL THE DATE AND SHUTDOWN PERIOD FOR DISCONNECTING AND MAKING NEW CONNECTION TO EXISTING MEDICAL GAS SERVICES, IN ORDER TO KEEP INTERRUPTIONS OF THE HOSPITAL DAILY OPERATIONS AS MINIMAL AS POSSIBLE.
4. CONTRACTOR TO CONFIRM LOCATION OF STRUCTURAL CONCRETE JOISTS PRIOR TO CUTTING/CORING HOLES IN EXISTING FLOOR STRUCTURE. DO NOT CUT/CORE THROUGH CONCRETE JOISTS.

KEY NOTES:

1. PROVIDE NEW MEDICAL GAS OUTLETS. OUTLET LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS
2. PROVIDE NEW ZONE VALVE ALARM PANEL. ZONE VALVE LOCATIONS SHALL BE COORDINATED AS SHOWN ON ARCHITECTURAL DRAWINGS

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1 ISSUED FOR CLASS C COSTING	BR	LY	2024.11.27

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Client/Project

SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title GROUND LEVEL - MEDICAL GAS

Project No. 140023034

Scale As indicated

Drawing No.

M251

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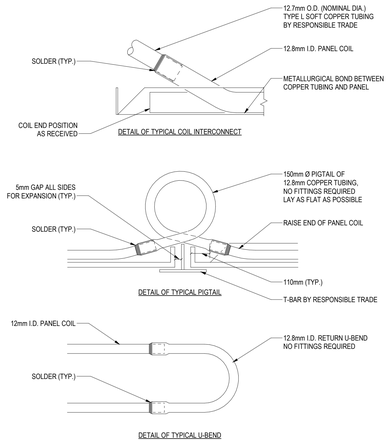
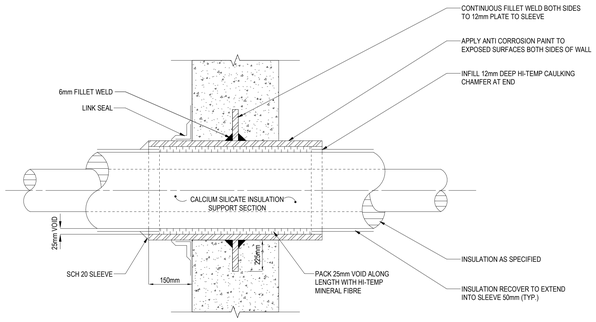


NOTES:

1. PANEL COIL MUST BE RAISED BEFORE INSERTING COPPER TUBING.
2. TOOL FOR RAISING END OF COIL AND RESIZING COIL MAY BE OBTAINED FROM SUPPLIER.

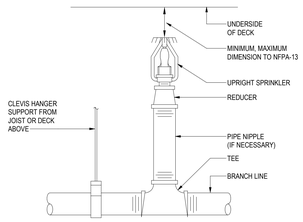
1 / M401 LINEAR RADIANT PANEL CONNECTION DETAILS

N.T.S.



2 / M401 TYPICAL SLEEVE DETAIL FOR WALL PENETRATION

N.T.S.



3 / M401 TYPICAL UPRIGHT SPRINKLER

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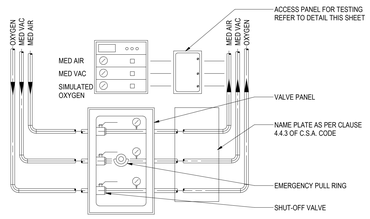
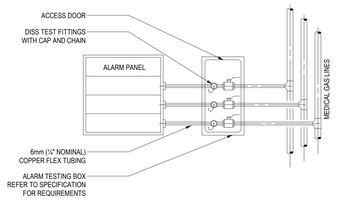


SHUT-OFF/ALARM PANEL DETAIL

NOT TO SCALE



4 / M401 ALARM PANEL TESTING DETAIL

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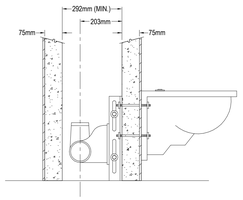
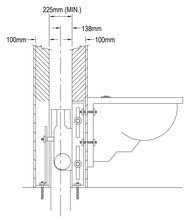


5 / M401 SINGLE CARRIER IN BLOCK WALL

N.T.S.



6 / M401 SINGLE CARRIER IN METAL STUD WALL

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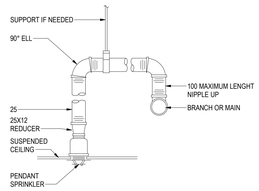
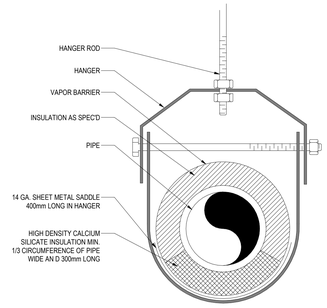


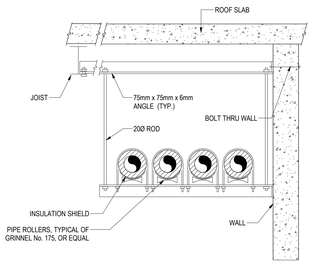
7 / M401 TYPICAL SPRINKLER DETAIL

N.T.S.



8 / M401 PIPING INSULATION DETAIL @ HANGER

N.T.S.

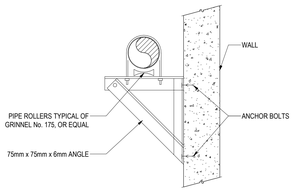


NOTES:

1. PROVIDE HIGH DENSITY POLYURETHANE AT HANGER.

9 / M401 PIPE SUPPORT DETAIL 4

N.T.S.



10 / M401 PIPE SUPPORT DETAIL 5

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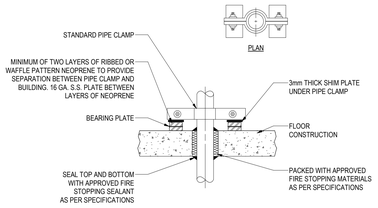
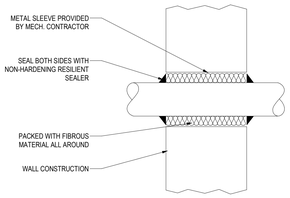


NOTES:

1. NEOPRENE SHOULD BE 50 DUROMETER.

11 / M401 PIPE THRU FLOOR PENETRATION

N.T.S.

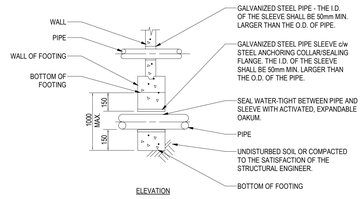


NOTES:

1. PACKING AND SEALING MATERIALS FOR FIRE RATED WALLS TO BE U/L APPROVED AS PER SPECIFICATIONS.

12 / M401 PIPE THRU WALL PENETRATION

N.T.S.



ELEVATION

NOTES:

1. FOR PIPES GREATER THAN ONE METER BELOW BOTTOM OF FOOTING - TRENCH MAY BE BACKFILLED WITH COMPACTED FILL AS PER SPECIFICATIONS.
2. CONCRETE FILL SHALL BE SAME WIDTH OF PIPE TRENCH. PLACE CONCRETE FILL BEFORE FOOTING IS PLACED. FILL ABOVE AND BELOW PIPE TO BE 150 MIN. TOTAL CONCRETE FILL SHALL NOT EXCEED ONE METER.

13 / M401 PIPE UNDER FOOTING OR THRU STRUCTURAL WALL INSTALLATION DETAIL

N.T.S.

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LICENSED PROFESSIONAL ENGINEER
NOV 1, 2025
LZ YANG
100170954
PROVINCE OF ONTARIO

Client/Project

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SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title MECHANICAL DETAILS

Project No. 140023034

Scale N.T.S.

Drawing No.

M401

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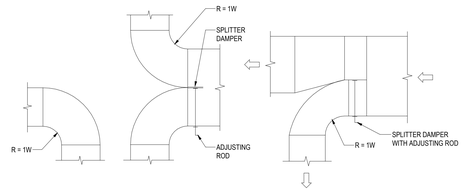

1 M402 DUCTWORK DETAILS 1
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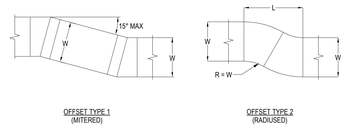
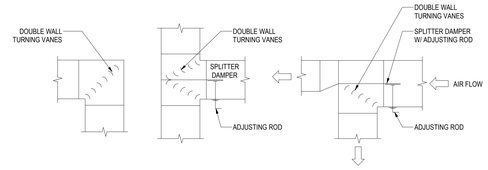
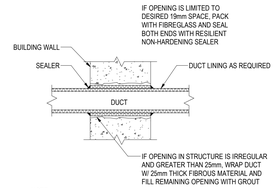


2 M402 DUCTWORK DETAILS 2
N.T.S.



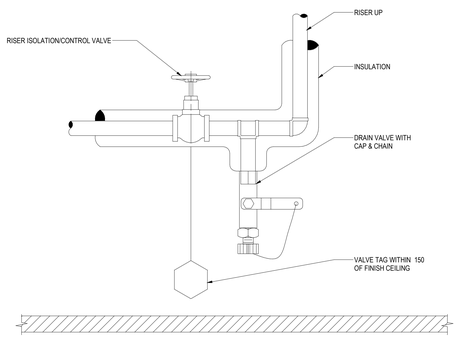
3 M402 DUCTWORK DETAILS 3
N.T.S.



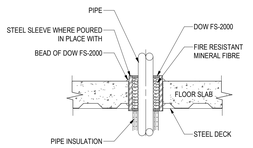
NOTE:

PACKING AND SEALING MATERIALS FOR FIRE RATED WALLS TO BE UL APPROVED.

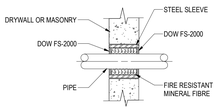
4 M402 DUCTING WALL PENETRATION
N.T.S.



5 M402 RISER CONTROL AND DRAIN VALVE
N.T.S.



FIRE STOPPING AT PENETRATION OF HORIZONTAL FIRE SEPARATION



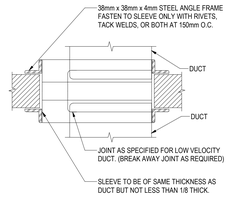
FIRE STOPPING AT PENETRATION VERTICAL FIRE SEPARATION

NOTES:

1. THICKNESS OF FIRE RESISTANT MINERAL FIBRE AND FS-2000 AS REQUIRED FOR FIRE SEPARATION RATING.

2.FIRE STOPPING SHALL BE INSTALLED BY A QUALIFIED APPLICATOR.

6 M402 DETAIL FOR PENETRATIONS OF FIRE SEPARATIONS
N.T.S.

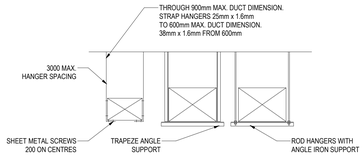


NOTES:

1. FOR FIRE DAMPERS OVER 2400mm, STEEL ANGLE SHALL BE 38mm x 38mm x 4mm.

2. PROVIDE ACCESS DOOR IN DUCT FOR ACCESS TO THE FIRE DAMPER, MIN. SIZE 300mm x 300mm.

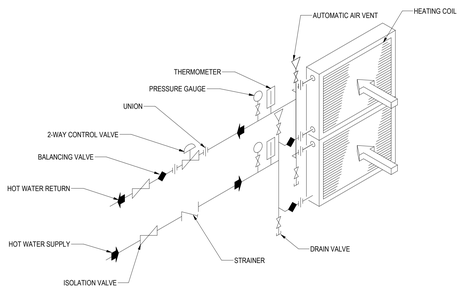
7 M402 HORIZONTAL TYPE FIRE DAMPER DETAIL
N.T.S.



ROD AND ANGLE SIZES TO BE AS FOLLOWS

MAX. DUCT DIMENSION (mm)	MIN. ATTACH RATING (kg)	ROD HANGER SIZE (mm)	NO. OF HANGERS	TRAPEZE ANGLE (mm)	MAX. SPACING
UP THRU. 450	340	6	2	38x38x3	3.0m
475 TO 900	455	6	2	38x38x3	3.0m
925 TO 1525	910	9	2	50x50x6	2.4m
1550 TO 3050	1090	9	2	50x50x6	2.4m

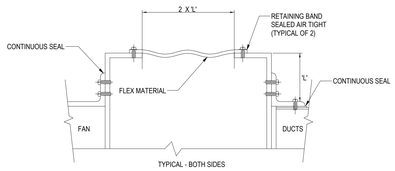
8 M402 ALTERNATE HANGERS FOR RECTANGULAR DUCTS
N.T.S.



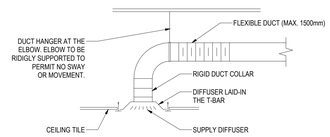
NOTES:

1. SINGLE COIL: PIPED SIMILARLY.

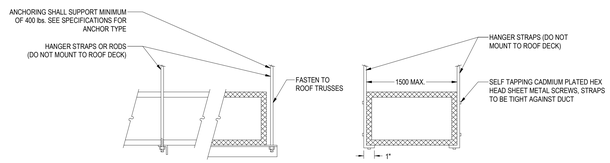
9 M402 HEATING COIL SCHEMATIC
N.T.S.



10 M402 FAN/DUCT FLEXIBLE CONNECTION DETAIL
N.T.S.



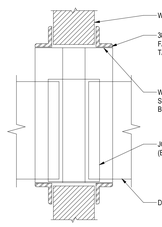
11 M402 LAY-IN TYPE DIFFUSER DETAIL
N.T.S.



NOTES:

1. ALL SUPPLY AIR DUCTS SHALL BE LINED INTERNALLY AS PER SPECIFICATIONS. NO POP RIVETS ALLOWED.

12 M402 DUCT HANGERS
N.T.S.

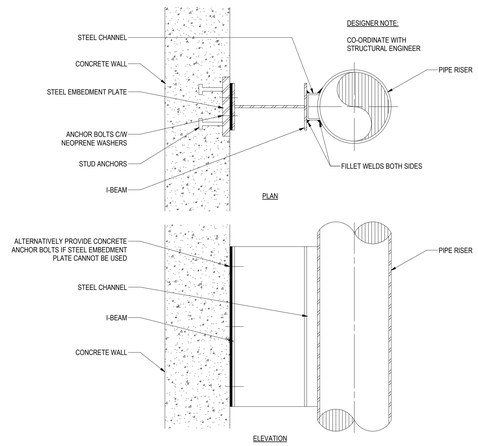


NOTES:

1. FOR FIRE DAMPERS OVER 1200mm, STEEL ANGLE SHALL BE 38mm x 38mm x 2mm.

2. PROVIDE ACCESS DOOR IN DUCT FOR ACCESS TO THE FIRE DAMPER.

13 M402 VERTICAL TYPE FIRE DAMPER DETAIL
N.T.S.



14 M402 WALL MOUNT RISER ANCHORING
N.T.S.

Stantec

Stantec Consulting Ltd.
200-835 Paramount Drive
Stoney Creek, ON L8J 0B4
Tel: (905) 385-3234 / Fax: (905) 385-3534

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Key Plan

SHN SCARBOROUGH HEALTH NETWORK

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TRUE NORTH
CONSTRUCTION NORTH

Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
3 ISSUED FOR TENDER AND PERMIT	BR	LY	2025.04.07
2 ISSUED FOR DRAFT	BR	LY	2025.02.21
1 ISSUED FOR CLASS C COSTING	BR	LY	2024.11.27

Permit-Seal

LICENSED PROFESSIONAL ENGINEER
APR. 7, 2025
LIZ YANG
100076984
PROVINCE OF ONTARIO

Client/Project

SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title MECHANICAL DETAILS

Project No. 140023034

Scale N.T.S.

Drawing No.

M402

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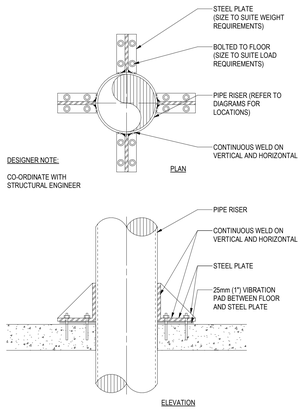
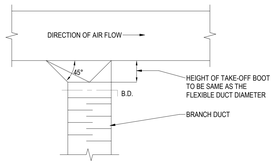
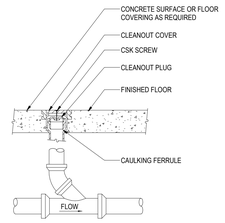
ORIGINAL SHEET - ISO A0 (841x1189)



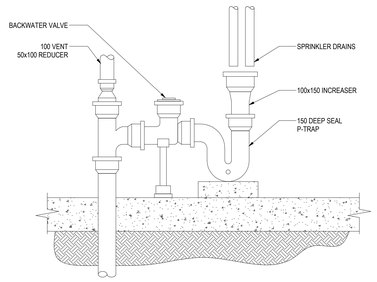
1 M403 FLOOR MOUNTED PIPE ANCHORING
N.T.S.



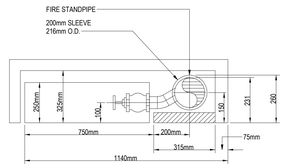
2 M403 SUPPLY TO DIFFUSER TAKE-OFF BOOT DETAIL
N.T.S.



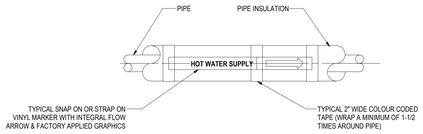
3 M403 FLOOR CLEANOUT - FINISHED ROOMS
N.T.S.



4 M403 OPEN END DRAIN
N.T.S.



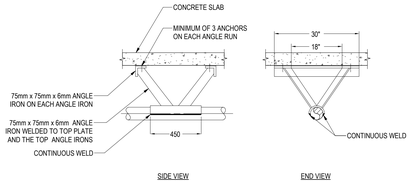
5 M403 FIRE HOSE CABINET SPACE REQUIRMENTS
N.T.S.



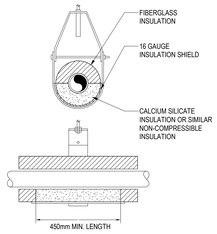
NOTES:

1. REFER TO MECHANICAL SPECIFICATION FOR ADDITIONAL DETAILS.
2. REFER TO SPECIFICATION FOR COLOUR CODING OF SERVICES.
3. INSTALL AT 15m INTERVALS (MAXIMUM) AND AT EACH DIRECTION CHANGE.
4. DUCTWORK IDENTIFICATION SIMILAR - REFER TO MECHANICAL SPECIFICATIONS FOR DETAILS.

6 M403 PIPE IDENTIFICATION DETAIL
N.T.S.



7 M403 PIPE ANCHOR DETAIL
N.T.S.



8 M403 PIPE HANGER INSULATION DETAIL
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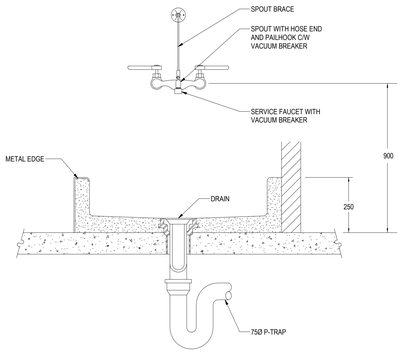
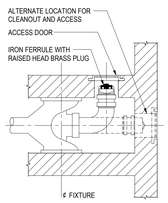


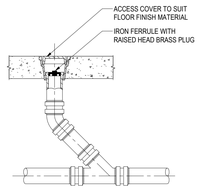
NOTES:

1. PROVIDE EACH JANITORY SINK C/W MOP RACK & STAINLESS STEEL WALL GUARD.

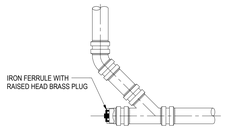
9 M403 JANITOR SINK DETAIL
N.T.S.



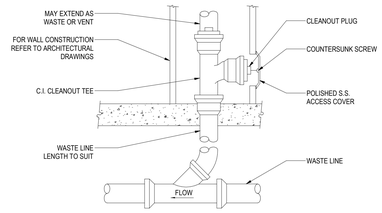
10 M403 CLEANOUT IN PIPE SPACE (HORIZONTAL ABOVE FLOOR) - PLAIN END PIPING-SLEEVE (MJ) COUPLINGS
N.T.S.



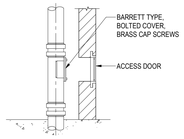
11 M403 CLEANOUT BELOW GRADE (INSIDE BUILDING) - PLAIN END PIPING-SLEEVE (MJ) COUPLINGS
N.T.S.



12 M403 CLEANOUT ABOVE GRADE (INSIDE BUILDING) - PLAIN END PIPING - SLEEVE (MJ) COUPLINGS
N.T.S.



13 M403 WALL CLEANOUT - FINISHED ROOMS (SANITARY)
N.T.S.



14 M403 CLEANOUT IN STACK BASE (CLEANOUT SAME FOR EXPOSED STACK) - PLAIN END PIPING-SLEEVE (MJ) COUPLINGS
N.T.S.

Stantec

Stantec Consulting Ltd.
200-835 Paramount Drive
Stoney Creek, ON L8J 0B4
Tel: (905) 385-3234 / Fax: (905) 385-3534

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Key Plan

SHN SCARBOROUGH HEALTH NETWORK

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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD
3 ISSUED FOR TENDER AND PERMIT	BR	LY	2025.04.07
2 ISSUED FOR DRAFT	BR	LY	2025.02.21
1 ISSUED FOR CLASS C COSTING	BR	LY	2024.11.27

Permit-Seal

LICENSED PROFESSIONAL ENGINEER
LIZ YANG
100070664
PROVINCE OF ONTARIO

Client/Project

SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title MECHANICAL DETAILS

Project No.	Scale
140023034	N.T.S.

Drawing No.

M403

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Plotted: 2025-04-08

ORIGINAL SHEET - ISO A0 (841x1189)

GRILLE, REGISTER, DIFFUSER SCHEDULE

UNIT... TAG	DIFFUSER FACE SIZE (IN)	MOUNTING TYPE	MATERIAL	MANUFACTURER	MODEL NUMBER	NOTES
S-1	600x600	LAY-IN	STEEL	EH PRICE	SPD	1, 2, 3
R-1	SEE DRAWINGS	LAY-IN	STEEL	EH PRICE	530	1, 3
E-1	SEE DRAWINGS	SEE DRAWINGS	STEEL	EH PRICE	530	1, 3

NOTES:
1. REFER TO REFLECTED CEILING PLANS EXACT LOCATION. PROVIDE ALL FRAMES AND ACCESSORIES AS REQUIRED FOR PROPER INSTALLATION.
2. FLEXIBLE DUCTWORK SHALL BE THE SAME SIZE AS THE DIFFUSER NECK OR AN EQUIVALENT ROUND DUCT. FLEXIBLE DUCTWORK SHALL BE SUPPORTED TO PREVENT KINKS OR BENDS.
3. COLOR TO BE SELECTED BY ARCHITECT FROM STANDARD COLORS.

DUCT MOUNTED HOT WATER HEATING COIL SCHEDULE

UNIT IDENTIFICATION	COIL						AIR					FLUID								
TAG	TOTAL CAPACITY (MBH)	NUMBER OF ROWS	FIN DENSITY (FINS/IN)	FIN HEIGHT (IN)	FIN LENGTH (IN)	FACE AREA (FT2)	**AIRFLOW (CFM)**	EDB (F)	LDB (F)	FACE VELOCITY (FPM)	MAX APD (IN-WG)	FLUID TYPE	FLUID FLOW (GPM)	EWT (F)	LWT (F)	FLUID VELOCITY (FT/S)	MAX WPD (FT)	MANUFACTURER	MODEL NUMBER	NOTES
RHC-1	1.893	1	12	6	8	0.3	**89**	55.0	74.4	267.0	0.07	WATER	0.2	200.0	180.6	0.2	0.1	DAIKIN	5BB1201C	
RHC-2	11.654	1	6	9	12	0.8	**495**	55.0	76.5	660.0	0.11	WATER	1.1	200.0	178.5	1.2	0.3	DAIKIN	5BS0601B	
RHC-3	5.160	1	7	6	8	0.3	**238**	55.0	74.8	462.0	0.15	WATER	0.5	200.0	180.2	0.6	0.2	DAIKIN	5BS0701B	
RHC-4	5.160	1	7	6	8	0.3	**228**	55.0	74.8	714.0	0.15	WATER	0.5	200.0	180.2	0.6	0.2	DAIKIN	5BS0701B	
RHC-5	4.271	2	6	6	8	0.3	**195**	55.0	75.0	462.0	0.17	WATER	0.4	200.0	180.0	0.5	0.1	DAIKIN	5BB0602B	
RHC-6	5.998	1	6	6	10	0.4	**280**	55.0	74.6	672.0	0.12	WATER	0.6	200.0	180.4	0.7	0.2	DAIKIN	5BS0601B	
RHC-7	7.481	1	6	6	12	0.5	**340**	55.0	75.1	680.0	0.12	WATER	0.7	200.0	179.9	0.8	0.2	DAIKIN	5BS0601B	
RHC-8	13.148	1	6	9	13	0.8	**565**	55.0	76.3	695.4	0.13	WATER	1.2	200.0	178.7	1.3	0.4	DAIKIN	5BS0601B	
RHC-9	11.439	1	6	9	12	0.8	**480**	55.0	76.8	640.0	0.11	WATER	1.0	200.0	178.2	1.1	0.3	DAIKIN	5BS0601B	
RHC-10	5.998	1	6	6	10	0.4	**270**	55.0	74.6	672.0	0.12	WATER	0.6	200.0	180.4	0.7	0.2	DAIKIN	5BS0601B	
RHC-11	10.846	1	6	9	12	0.8	**440**	55.0	77.5	586.7	0.09	WATER	1.0	200.0	177.5	1.0	0.3	DAIKIN	5BS0601B	
RHC-12	4.271	2	6	6	8	0.3	**192**	55.0	75.0	462.0	0.17	WATER	0.4	200.0	180.0	0.5	0.1	DAIKIN	5BB0602B	

NOTES:

PLUMBING FIXTURE SCHEDULE

REFERENCE	DESCRIPTION	SERVICES (mm)				CW TO MULTIPLE FIXTURES (mm)			
		SAN	VENT	CWS	HWS	2	4	6	8
HHS-1	HAND HYGIENE SINK	40	32	15	15	15	20	25	32
EW-1	EMERGENCY EYEWASH	75	40	15	15	15	20	25	32
EWSS-1	EYEWASH AND SAFETY SHOWER	100	50	50	25	---	---	---	---
SK-1	STAINLESS STEEL SINK	40	32	15	15	15	20	25	32
FD-1	FLOOR DRAIN	100	75	-	-	---	---	---	---
HB-1	HOSE BIBB	-	-	15	-	---	---	---	---
L-1	LAVATORY SINK	40	32	15	15	15	20	25	32
WC-1	WATERCLOSET	100	50	40	-	---	---	---	---

HOT WATER RADIANT CEILING PANEL SCHEDULE

UNIT...				WATER				PANEL									
MARK	NUMBER	CAPACITY (Watts/m)	AMBIENT (°C)	FLOW (GPM)	FLOW (L/min)	EWT (°C)	LWT (°C)	TYPE	TUBE DIAMETER (mm)	NO OF PASSES	LENGTH (m)	WIDTH (mm)	FINISH	OPERATING WEIGHT (kg/m)	MANUFACTURER	MODEL NUMBER	NOTES
RCP	1	327.0	24.0	0.13	0.0084	82.2	71.1	LINEAR	13	6	1.200	457.2	SMOOTH	4.01	SIGMA	SLC 18-6	1,2
RCP	2	327.0	24.0	0.30	0.0190	82.2	71.1	LINEAR	13	6	2.700	457.2	SMOOTH	4.01	SIGMA	SLC 18-6	1,2
RCP	3	327.0	24.0	0.17	0.0107	82.2	71.1	LINEAR	13	6	1.525	457.2	SMOOTH	4.01	SIGMA	SLC 18-6	1,2
RCP	4	327.0	24.0	0.45	0.0285	82.2	71.1	LINEAR	13	6	4.050	457.2	SMOOTH	4.01	SIGMA	SLC 18-6	1,2

NOTES:
1. EXACT PANEL SIZE AND CONFIGURATION TO BE SITE MEASURED AND VERIFIED. PANEL TO BE ALTERED AS REQUIRED TO SUIT LAYOUT.
2. LISTED CAPACITIES MAY NOT BE FULLY ACHIEVABLE DUE TO PHYSICAL DIMENSION RESTRAINTS.

HOT WATER RADIANT WALL PANEL SCHEDULE

UNIT...					WATER				PANEL								
MARK	NUMBER	CAPACITY (Btuh / ft)	CAPACITY (Watts/m)	AMBIENT (°C)	FLOW (GPM)	FLOW (L/min)	EWT (°C)	LWT (°C)	TYPE	TUBE DIAMETER (mm)	NO OF PASSES	LENGTH (m)	WIDTH (mm)	FINISH	MANUFACTURER	MODEL NUMBER	NOTES
RP	1	663.0	637.9	24.0	0.33	0.0206	82.2	71.1	LINEAR	13	6	1.500	900.0	SMOOTH	AIRTEX	LINEAR HEF-2	1,2
RP	2	663.0	637.9	24.0	0.59	0.0371	82.2	71.1	LINEAR	13	6	2.700	900.0	SMOOTH	AIRTEX	LINEAR HEF-2	1,2
RP	3	663.0	637.9	24.0	0.46	0.0288	82.2	71.1	LINEAR	13	6	2.100	900.0	SMOOTH	AIRTEX	LINEAR HEF-2	1,2
RP	4	663.0	637.9	24.0	0.59	0.0371	82.2	71.1	LINEAR	13	6	2.700	900.0	SMOOTH	AIRTEX	LINEAR HEF-2	1,2

NOTES:
1. EXACT PANEL SIZE AND CONFIGURATION TO BE SITE MEASURED AND VERIFIED. PANEL TO BE ALTERED AS REQUIRED TO SUIT LAYOUT.
2. LISTED CAPACITIES MAY NOT BE FULLY ACHIEVABLE DUE TO PHYSICAL DIMENSION RESTRAINTS.

Stantec

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STRUCTURAL, MECHANICAL, ELECTRICAL AND CIVIL
Stantec Consulting Ltd.

Key Plan

SHN SCARBOROUGH HEALTH NETWORK

ISSUED FOR CONSTRUCTION DISCLAIMER

TRUE NORTH
CONSTRUCTION NORTH

Revision	By	Appd	YYYY.MM.DD
3 ISSUED FOR TENDER AND PERMIT	BR	LY	2025.04.07
2 ISSUED FOR DRAFT	BR	LY	2025.02.21
1 ISSUED FOR CLASS C COSTING	BR	LY	2024.11.27

Issued	By	Appd	YYYY.MM.DD

Permit-Seal

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LIZ YANG
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PROVINCE OF ONTARIO

Client/Project

SCARBOROUGH HEALTH NETWORK
SCARBOROUGH GENERAL HOSPITAL

SATELLITE IMAGING RENOVATION
3050 LAWRENCE AVE E, SCARBOROUGH, ONTARIO

Title MECHANICAL SCHEDULES

Project No. 140023034

Scale N.T.S.

Drawing No.

M500

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