

EXISTING / DEMOLITION SYMBOLS	
SYMBOL	DESCRIPTION
CTE	CONNECT TO EXISTING
C	CAPPED SERVICE
	EXISTING EQUIPMENT / SERVICES
	EXISTING EQUIPMENT / SERVICES TO BE REMOVED
	EXISTING EQUIPMENT / SERVICES TO BE RELOCATED
	RELOCATED EQUIPMENT AND SERVICES

PIPING SYMBOLS	
SYMBOL	DESCRIPTION
---	DOMESTIC COLD WATER
---	DOMESTIC HOT WATER
--- SAN ---	SANITARY
--- - SAN ---	SANITARY - BELOW
--- ST ---	STORM
--- - ST ---	STORM - BELOW
---	VENT
---	HEATING WATER SUPPLY
---	HEATING WATER RETURN
---	CHILLED WATER SUPPLY
---	CHILLED WATER RETURN
G	GAS
	UNION
	PIPE DOWN
	PIPE UP
	BRANCH OFF TOP OF MAIN
	BRANCH OFF BOTTOM OF MAIN
	BALL VALVE
	ISOLATION VALVE
	CHECK VALVE
	STRAINER
	CIRCUIT BALANCING VALVE
	PRESSURE REDUCING VALVE
	THERMOMETER
	PIPE END CAP
	HOSE BIB
	FLOW DIRECTION
FD	FLOOR DRAIN
RD	ROOF DRAIN
	P-TRAP
FFD	FUNNEL FLOOR DRAIN
	WALL-MOUNTED CONTROL PANEL
BFP	BACK FLOW PREVENTER
BWV	BACK WATER VALVE
TRSP	TRAP SEAL PRIMER
ETC	ELECTRIC HEAT TRACING CABLE

FLOW / CONTROL DIAGRAM SYMBOLS	
SYMBOL	DESCRIPTION
	ROOM THERMOSTAT
	HARD WIRED FLOW SWITCH
	STATIC PRESSURE PROBE FOR HUMIDIFIER AIR FLOW SWITCH
	DIFFERENTIAL PRESSURE SENSOR
	FILTERS
	THERMOMETER

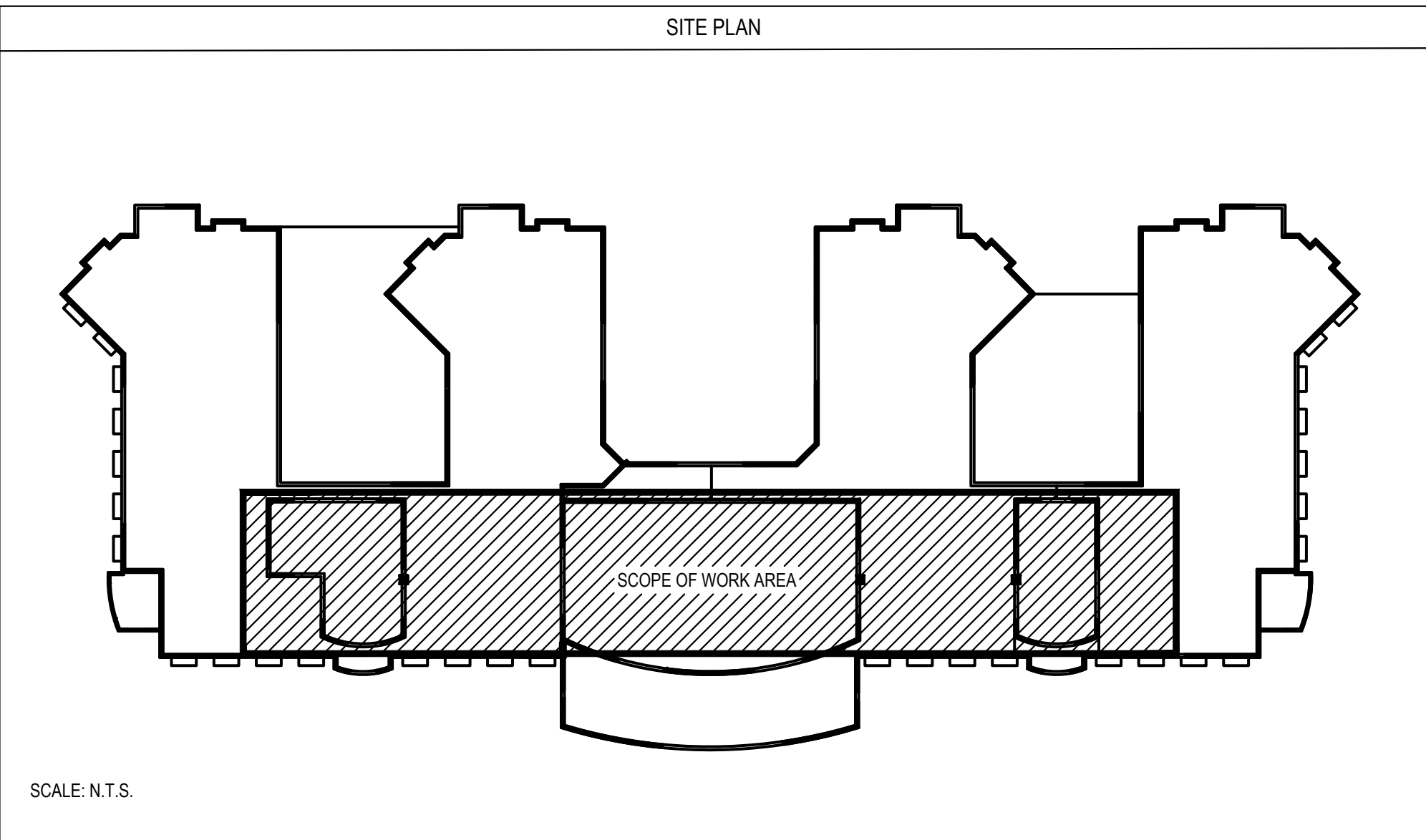
MECHANICAL AIR-SIDE SYMBOLS	
SYMBOL	DESCRIPTION
	NEW DUCT (FIRST FIGURE INDICATES DIMENSION SHOWN)
	NEW DUCT (SINGLE LINE)
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	ACOUSTICALLY LINED DUCT
	SILENCER
	FLEXIBLE DUCT (SIZE MATCH NECK SIZE)
	FLEXIBLE DUCT
	RECTANGULAR ELBOW WITH AIR TURNING VANES
	DUCT TRANSITION FROM RECTANGULAR TO ROUND
	DUCT CONCENTRIC REDUCER
	ROUND DUCT TAKE-OFF FROM RECTANGULAR DUCT
	ROUND DUCT TAKE-OFF FROM ROUND DUCT
	RECTANGULAR DUCT TAKE-OFF FROM RECTANGULAR DUCT
	ACCESS DOOR
	AIR FLOW DIRECTION
	DUCT MOUNTED REHEAT COIL
	CONTROL WIRING
S/A	SUPPLY AIR
R/A	RETRUN AIR
E/A	EXHAUST AIR
O/A	OUTDOOR AIR
WE	WASH-ROOM EXHAUST AIR
	DUCT REDUCER (SINGLE LINE AND DOUBLE LINE)
MD	MOTORIZED DAMPER
	FIRE DAMPER
BD	BALANCING VOLUME DAMPER
	SUPPLY DUCT - UP
	SUPPLY DUCT - DOWN
	RETURN DUCT - UP
	RETURN DUCT - DOWN
	EXHAUST DUCT - UP
	EXHAUST DUCT - DOWN

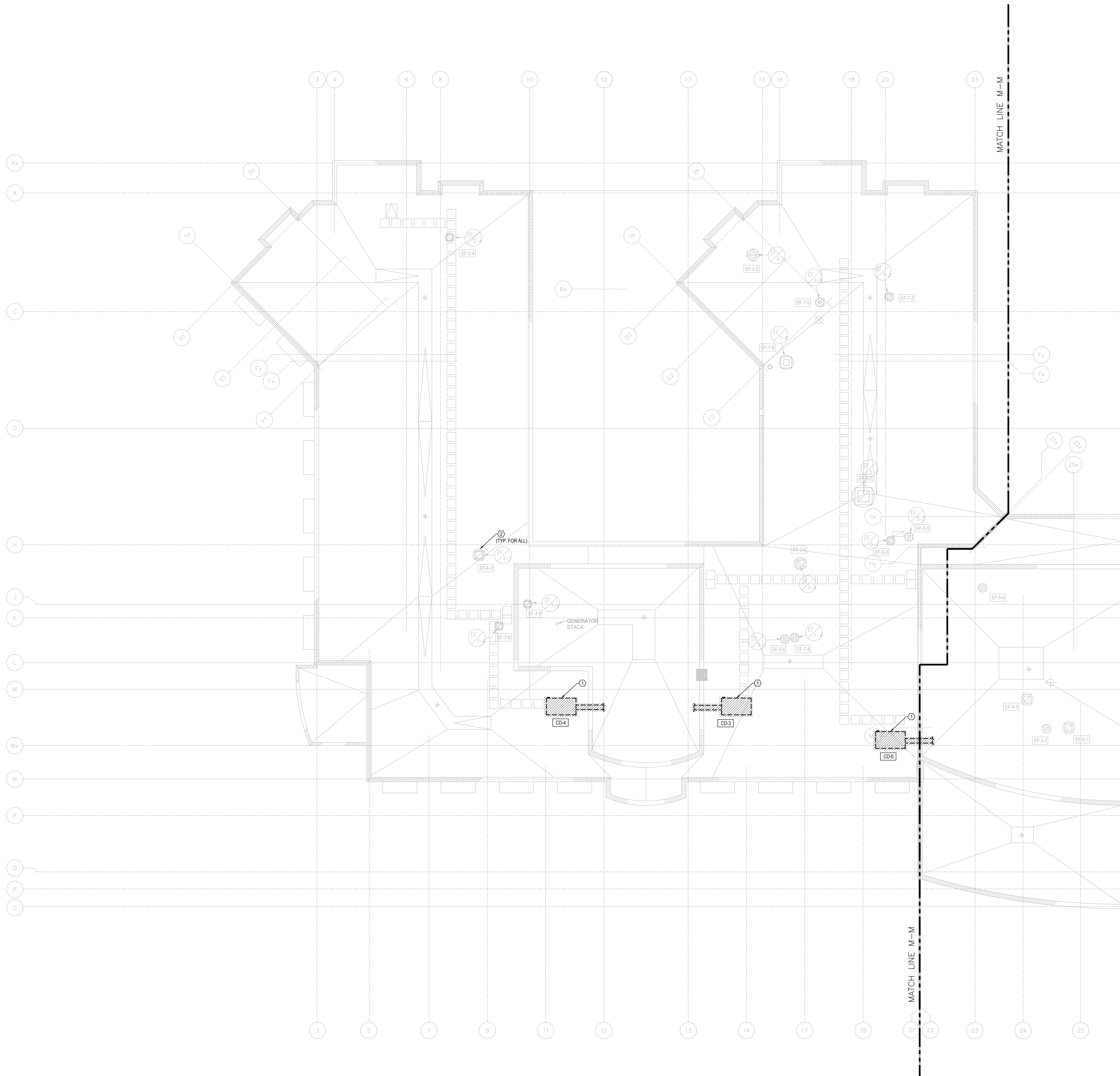
ANNOTATION SYMBOLS	
SYMBOL	DESCRIPTION
##	KEYNOTE
AAA-###	EQUIPMENT TAG
	REVISION TAG
FFH-XX-YY	FORCE FLOW HEATER TAG; XX: HEATING SOURCE / YY: SIZE
AA-XXD-###	DIFFUSER/GRILLE TAG; A: TYPE / XX: NECK SIZE / ##: AIRF LOW
##	VIEW TITLE
1	SCALE
M:101	DETAIL CALLOUT

MECHANICAL GENERAL NOTES:

- THE SERVICES & EQUIPMENT SHOWN ARE BASED ON SURVEYS AND THE EXISTING PDF DRAWINGS. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY TO CONFIRM ALL EXISTING SERVICES & EQUIPMENT PRIOR TO SUBMITTING THE BID PACKAGE.
- COORDINATE DELIVERY OF EQUIPMENT AND MATERIALS WITH THE OWNER. ENSURE EQUIPMENT DELIVERY TO SITE IS IN SECTIONS AS REQUIRED AND ASSEMBLE ON SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING FOR ANY REQUIRED SHUT-DOWN WITH OWNER. CONTRACTOR TO MINIMIZE SERVICE INTERRUPTION AND IMPACT ON FACILITY OPERATION, AND ALLOW FOR AFTER-HOURS WORK AS REQUIRED BY THE OWNER. ALL AFTER HOUR WORK SHALL BE COORDINATED ON SITE AND TO BE APPROVED BY THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING A COMPLETE TEMPORARY HVAC SYSTEM AS REQUIRED TO MAINTAIN INDOOR AIR TEMPERATURE IN ALL AFFECTED SPACES FOR THE DURATION OF THE PROJECT. EQUIPMENT PROVIDED SHALL BE CAPABLE OF MAINTAINING 22°C INDOOR AIR TEMPERATURE.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT PROPERTY IN AREAS WHERE WORK IS BEING CONDUCTED. THE CONTRACTOR IS RESPONSIBLE FOR FIXING ALL DAMAGES CAUSED TO BUILDING COMPONENTS DUE TO WORK OPERATIONS, AND BRING IT TO ITS ORIGINAL FORM.
- CONTRACTOR MUST CLEAN THE WORK AREA AT THE END OF EACH DAY TO AVOID INTERRUPTION TO FACILITY OPERATION AND MAINTAIN SERVICE DURING CONSTRUCTION.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL HOISTING/CRANE WORK ASSOCIATED WITH THIS PROJECT AND ASSOCIATED COSTS.
- CONTRACTOR TO INCLUDE FOR ALL NEW/TEMPORARY STRUCTURAL STEEL SUPPORT, DUCTWORK, PIPING, ETC. TO ENSURE COMPLETE INSTALLATION.
- ALL HOIST / CRANE PLAN TO BE PROVIDED FOR OWNER REVIEW AND APPROVAL. CONTRACTOR TO CLEARLY INDICATE LOCATIONS AND LENGTH OF TIME REQUIRED FOR THE CRANE.
- SEAL ALL WALL/S LAB OPENINGS TO MATCH ORIGINAL AFTER THE WORK IS COMPLETED.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AIR FLOW BALANCING REPORT AFTER ANY NEW EQUIPMENT IS INSTALLED AND ENSURE PROPER FUNCTION.
- ANY HVAC SERVICE (SERVICES) THAT MAY NOT BE SHOWN ON THE DRAWINGS AND IS EXPOSED DURING DEMOLITION/CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR AS TO THE SOURCE AND ROUTING AND THIS INFORMATION SHALL BE REPORTED TO THE CONSULTANT.
- PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COORDINATE WITH THE OWNER PROJECT MANAGER THE DATE AND PERIOD OF TIME REQUIRED FOR DISCONNECTING AND MAKING NEW CONNECTION TO THE HVAC SERVICES, IN ORDER TO KEEP INTERRUPTIONS OF THE FACILITY DAILY OPERATIONS AS MINIMAL AS POSSIBLE. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER TO VERIFY THE METHOD OF SHUTDOWNS SUCH THAT THE WORK CAN PROCEED IN THE TIME ALLOTTED.
- CONTRACTOR SHALL COORDINATE WITH ALL EXISTING AND NEW MECHANICAL AND ELECTRICAL SERVICES FOR FINAL HVAC ROUTING ON SITE.
- WHEN CONNECTING TO EXISTING CHILLED WATER, GLYCOL, STEAM, OR CONDENSATE PIPING VERIFY WITH THE OWNER THAT THE SHUT-OFF VALVES CAN CLOSE OFF AGAINST THE SERVICE. IF THE VALVES DO NOT CLOSE, CONTRACTOR IS TO INCLUDE FOR PIPE FREEZING TO SHUT OFF SERVICE LOCALLY TO NOT DISRUPT OTHER OPERATING AREAS & TO REPLACE THE SHUT-OFF VALVES.
- CONTRACTOR TO COORDINATE WITH THE OWNER AND ROOFING CONTRACTOR FOR ALL ASSOCIATED WORK ON THE ROOF.
- PRIOR TO DEMOLITION, CONTRACTOR TO PERFORM POINT-TO-POINT CHECK OUT OF EXISTING EQUIPMENT CONTROLS AND SEQUENCES OF OPERATION. CONTRACTOR TO REINSTATE EXISTING CONTROLS SEQUENCES WITH NEW EQUIPMENT.

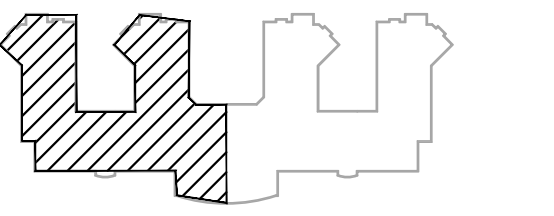
MECHANICAL DRAWING LIST		
DRAWING NO.	DRAWING NAME	DRAWING SCALE
M000	MECHANICAL GENERAL NOTES, LEGEND, KEY PLAN AND DRAWING LIST	N.T.S.
M100D	DEMOLITION - HVAC - PART ROOF PLAN SOUTH WING	1:100
M100	NEW WORK - HVAC - PART ROOF PLAN SOUTH WING	1:100
M101D	DEMOLITION - HVAC - PART ROOF PLAN NORTH WING	1:100
M101	NEW WORK - HVAC - PART ROOF PLAN NORTH WING	1:100
M102D	DEMOLITION - HVAC - CENTRAL PENTHOUSE PLAN	1:50
M102	NEW WORK - HVAC - CENTRAL PENTHOUSE PLAN	1:50
M103D	DEMOLITION - HVAC - NORTH & SOUTH PENTHOUSE PLAN	1:50
M103	NEW WORK - HVAC - NORTH & SOUTH PENTHOUSE PLAN	1:50
M800	DEMOLITION - HYDRONIC SCHEMATIC	N.T.S.
M801	NEW WORK - HYDRONIC SCHEMATIC	N.T.S.
M700	MECHANICAL DETAILS & CONTROL DIAGRAMS	N.T.S.
M800	MECHANICAL SCHEDULES	N.T.S.



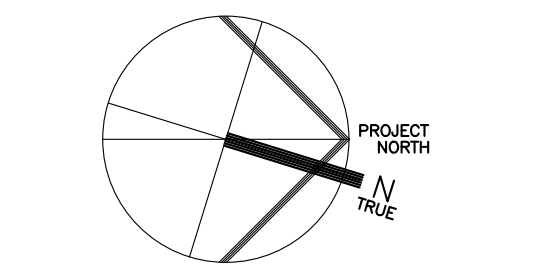


- HVAC DEMOLITION GENERAL NOTES:
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, MINISTRY OF THE ENVIRONMENT, MINISTRY OF LABOR, MUNICIPAL REQUIREMENTS AND OTHER AUTHORITIES HAVING JURISDICTION WHICH ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SPECIFICATION.
 - THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES BEFORE THE COMMENCEMENT OF ANY WORK.
 - CONTRACTOR TO FIELD VERIFY ALL PIPE CONNECTION LOCATIONS AND ROUTING WITH BUILDING SERVICES PRIOR TO COMMENCEMENT OF WORK. NOT ALL PIPING AND DUCTWORK SHOWN FOR CLARITY.
 - CONTRACTOR TO IDENTIFY ALL SERVICES PRIOR TO DEMOLITION.
 - RELOCATE OR REROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW WORK.
 - PROVIDE ALL CUTTING AND PATCHING. REFER TO SPECIFICATIONS.
 - REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE. CAP AT MAIN.
 - EXISTING PIPES SERVING AREAS REMAINING IN SERVICE AT THIS TIME SHALL NOT BE INTERRUPTED UNLESS A TEMPORARY INTERRUPTION IS COORDINATED WITH THE OWNER.
 - DEMOLITION WORK SHALL INCLUDE ALL MATERIALS, LABOR, EXTENSIONS, CONNECTIONS, CUTTING, REPAIRING, ADAPTING AND OTHER FIRE PROTECTION WORK REQUIRED TO MAINTAIN SERVICE PENDING THE COMPLETION OF THE PERMANENT WORK.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING FOR ANY REQUIRED SHUT-DOWN WITH OWNER. CONTRACTOR SHALL INCLUDE FOR AND DETERMINE THE BEST METHOD TO MINIMIZE SERVICE INTERRUPTION AND IMPACT ON BUILDING OPERATION, INCLUDING USE OF HOT TAP/TEMPORARY FREEZING AND AFTER-HOUR WORK AS REQUIRED.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OWNER TO MINIMIZE SERVICE INTERRUPTION FOR RUNNING SYSTEM, INCLUDING CAP PIPE OPENING, PROVIDING TEMPORARY PIPE CONNECTION, PROVIDE NECESSARY METHOD TO AVOID PIPE FREEZING WHEN SYSTEM IS OFF.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING A COMPLETE TEMPORARY HVAC SYSTEM AS REQUIRED TO MAINTAIN INDOOR AIR TEMPERATURE IN ALL AFFECTED SPACES FOR THE DURATION OF THE PROJECT. EQUIPMENT PROVIDED SHALL BE CAPABLE OF MAINTAINING 22°C INDOOR AIR TEMPERATURE.

- DEMOLITION DRAWING NOTES:
- ① REMOVE AND DISCONNECT EXISTING CONDENSING UNIT (CD-3.4 & 6). REMOVE ASSOCIATED REFRIGERANT PIPING AND ACCESSORIES. CNV REMOVAL OF THE CONTROLS WIRING, POWER WIRING, AND SLEEPERS.
 - ② EXISTING EXHAUST FANS TO REMAIN.



No.	Date	Description
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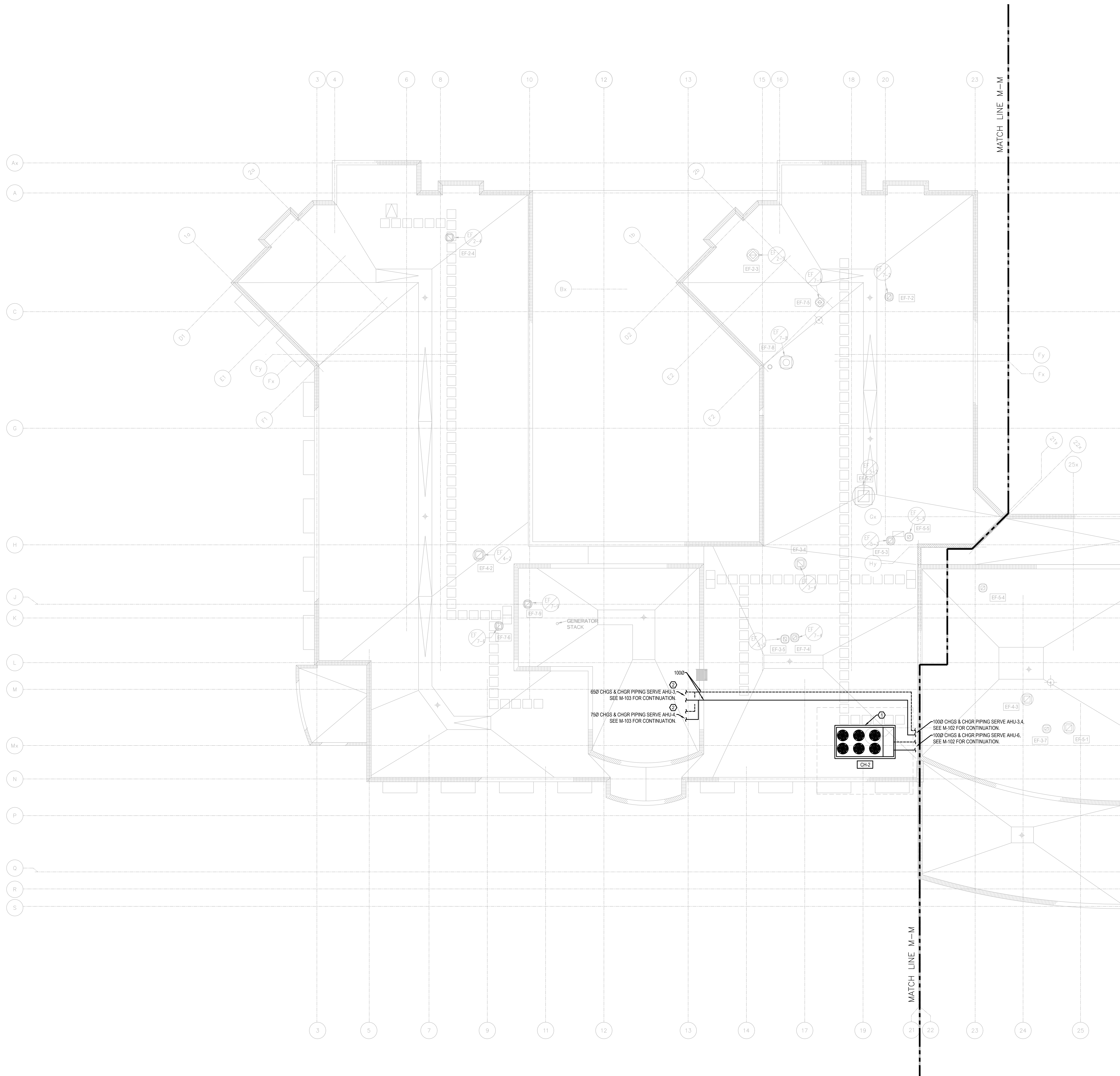


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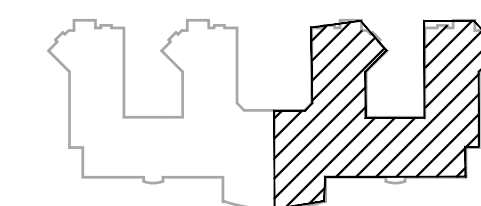
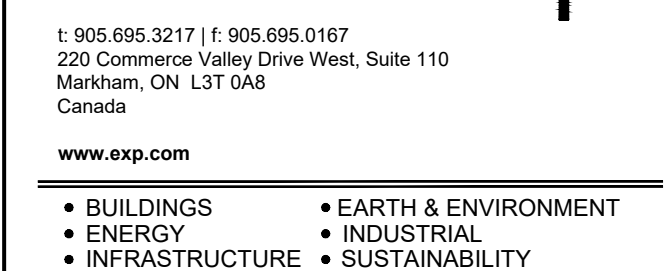
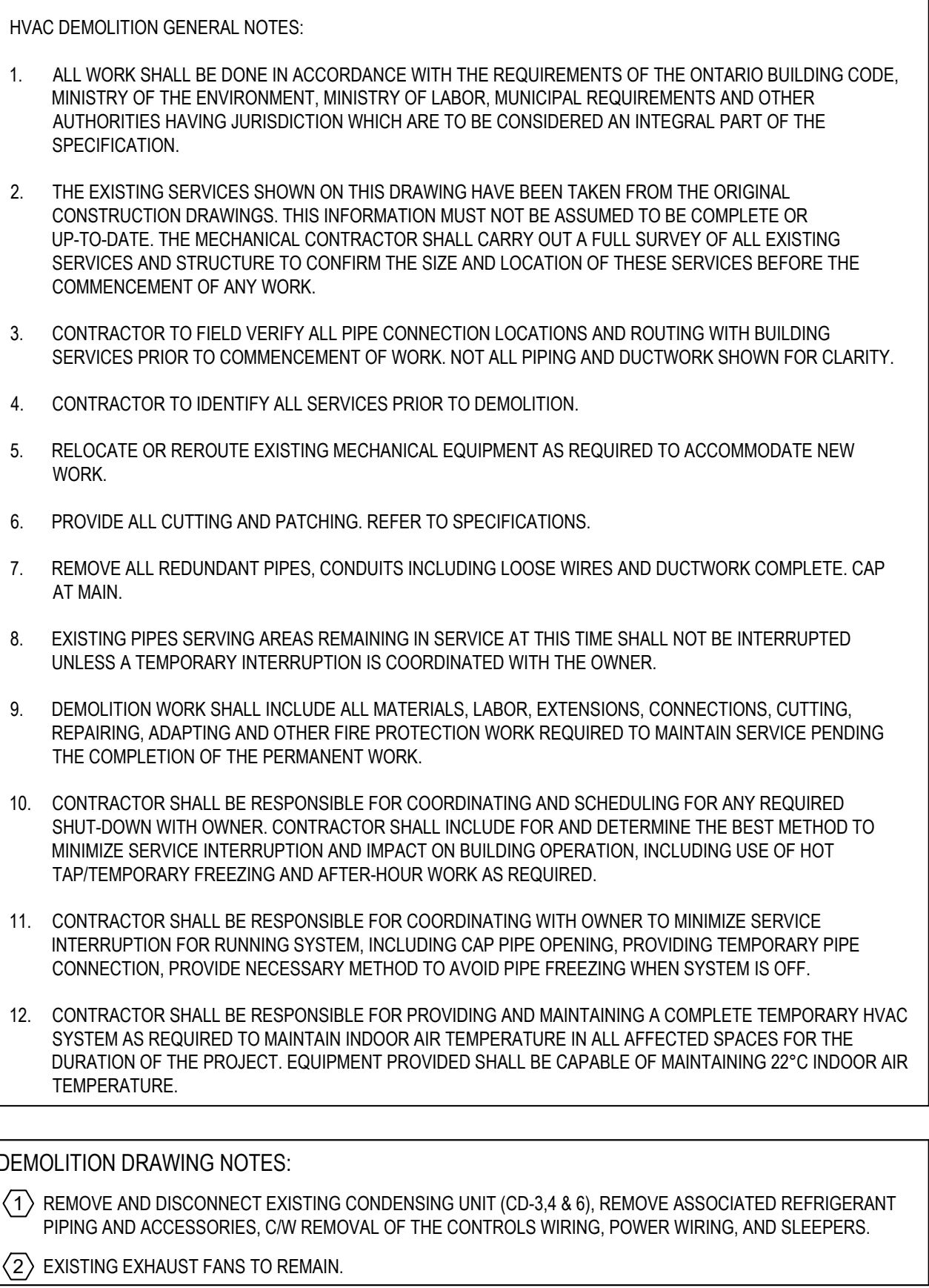
DEMOLITION - HVAC - PART ROOF
PLAN SOUTH WING
1:100

M100D



- HVAC NEW WORK GENERAL NOTES:
- PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE CODES, STANDARDS AND BULLETINS AND TO THE LOCAL AUTHORITIES REQUIREMENTS.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND CHECK THE EXISTING SITE CONDITION PRIOR TO AND DURING CONSTRUCTION. ANY CHANGES AND/OR DISCREPANCIES SHALL BE REPORTED AND REVIEWED BY THE ENGINEER AND/OR PROJECT MANAGER PRIOR TO PROCEEDING.
 - THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND THE DOCUMENTS PERTAINING TO THE WORK OF OTHER TRADES.
 - OBTAIN EXACT DIMENSION FROM SITE MEASUREMENTS. DO NOT SCALE THESE DRAWINGS.
 - PENETRATIONS OF EITHER THE FIRE OR SMOKE BARRIERS SHALL BE SLEEVED SEALED AGAINST THE PASSAGE OF FLAME AND/OR SMOKE WITH A SUITABLE NON-COMBUSTIBLE MATERIAL EQUAL TO THE CONSTRUCTION PENETRATED.
 - CHECK AND VERIFY THE LOCATIONS OF ALL PIPES, DUCTWORK AND EQUIPMENT WITH THE WORK OF OTHER TRADES TO PREVENT INTERFERENCE. REMOVAL AND RELOCATION OF ANY SUCH WORK INTERFERING WITH THE WORK OF OTHER TRADES IS THE RESPONSIBILITY OF THE MECHANICAL TRADES, UNLESS OTHERWISE APPROVED IN WRITING.
 - PROVIDE ACCESS DOORS AS REQUIRED FOR ALL CONCEALED SERVICEABLE COMPONENTS, LOCATED ABOVE, BEHIND OR BELOW INACCESSIBLE CONSTRUCTION.
 - ALL CHILLED WATER PIPING SHALL BE INSULATED.
 - FOR THE ROOF MOUNTED EQUIPMENT, CONTRACTOR TO DESIGN AND ANCHOR NEW ROOF MOUNTED EQUIPMENT TO WITHSTAND WIND SPEEDS ACTING ON ALL EXPOSED SURFACES. REFERENCE SHALL BE MADE TO FN DESIGN CRITERIA. FOR ADDITIONAL GUIDANCE, REFER TO ASCE 7.

- NEW WORK DRAWING NOTES:
- INSTALL NEW AIR COOLED CHILLER (CH-1) SERVING AHU-3, 4 & 6, PROVIDE NEW SLEEPERS FOR STRUCTURAL SUPPORT. CONTRACTOR TO PROVIDE ENGINEERED SHOP DRAWINGS WITH PROFESSIONAL ENGINEER SEAL FOR REVIEW. CONTRACTOR TO RELOCATE STONE PAVERS TO SUIT NEW CHILLER DIMENSIONS, PROVIDE NEW STONE PAVERS AS REQUIRED.
 - PROVIDE NEW PIPING CW ACCESSORIES, INSULATION, AND PIPE SUPPORTS.



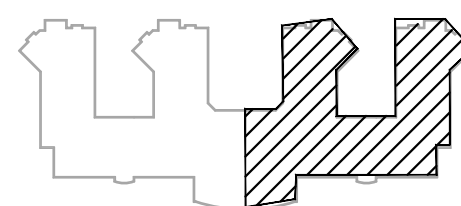
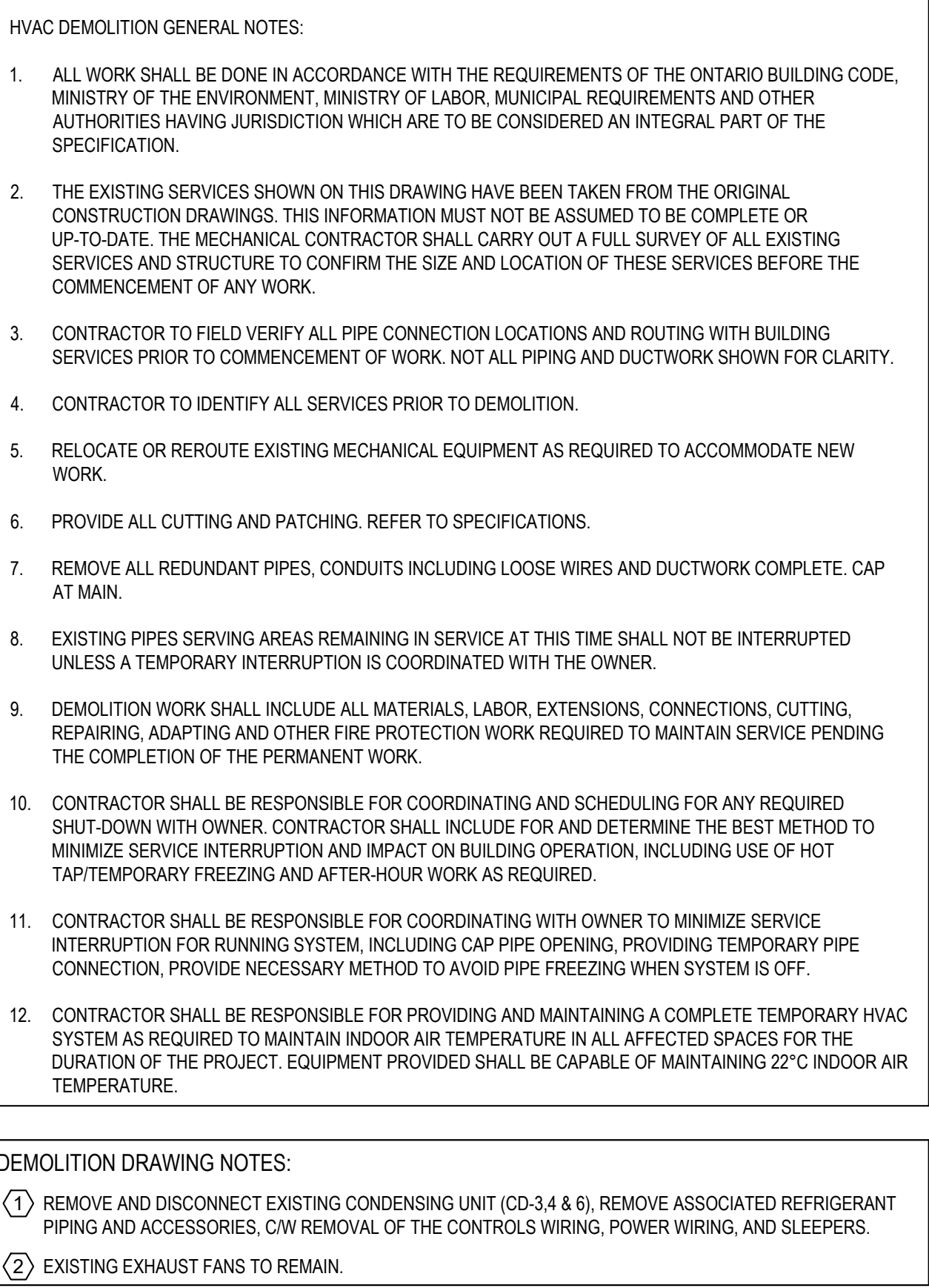
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DEMOLITION - HVAC - PART ROOM
PLAN NORTH WING

M101D

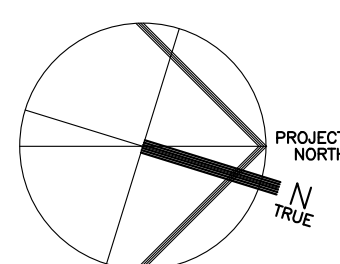


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DEMOLITION DRAWING NOTES:

① REMOVE AND DISCONNECT EXISTING CONDENSING UNIT (CD-3.4 & 6), REMOVE ASSOCIATED REFRIGERANT PIPING AND ACCESSORIES, C/W REMOVAL OF THE CONTROLS WIRING, POWER WIRING, AND SLEEPERS.

② EXISTING EXHAUST FANS TO REMAIN.

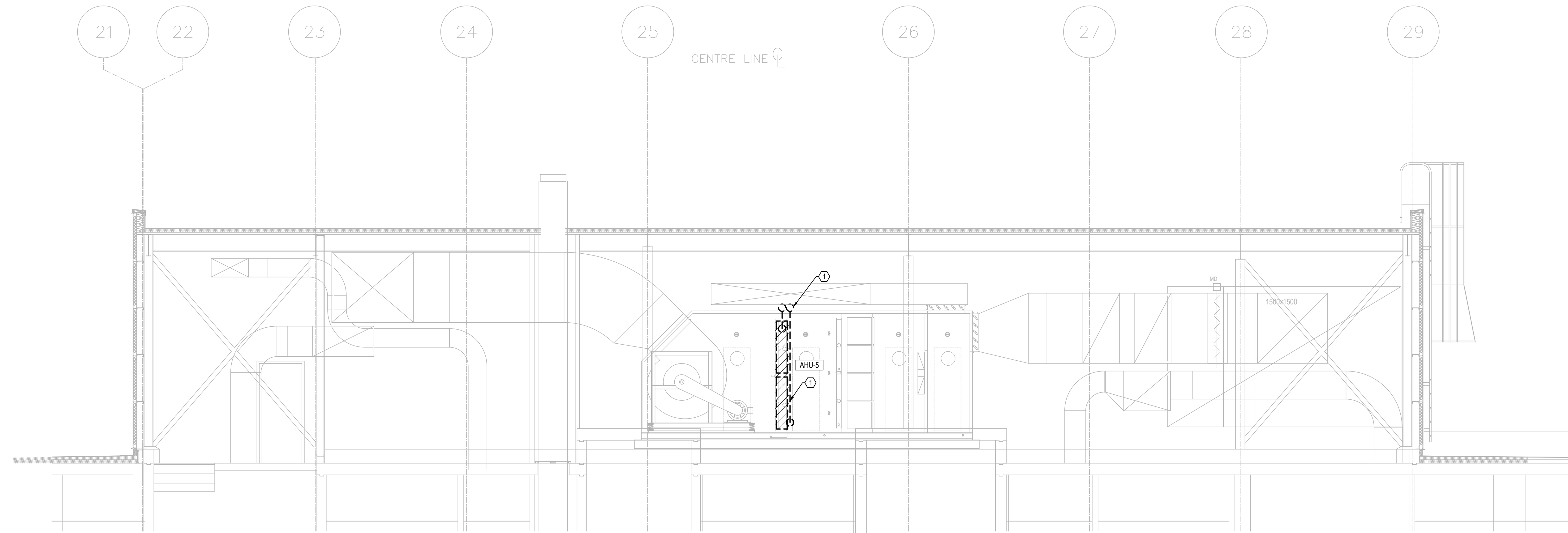


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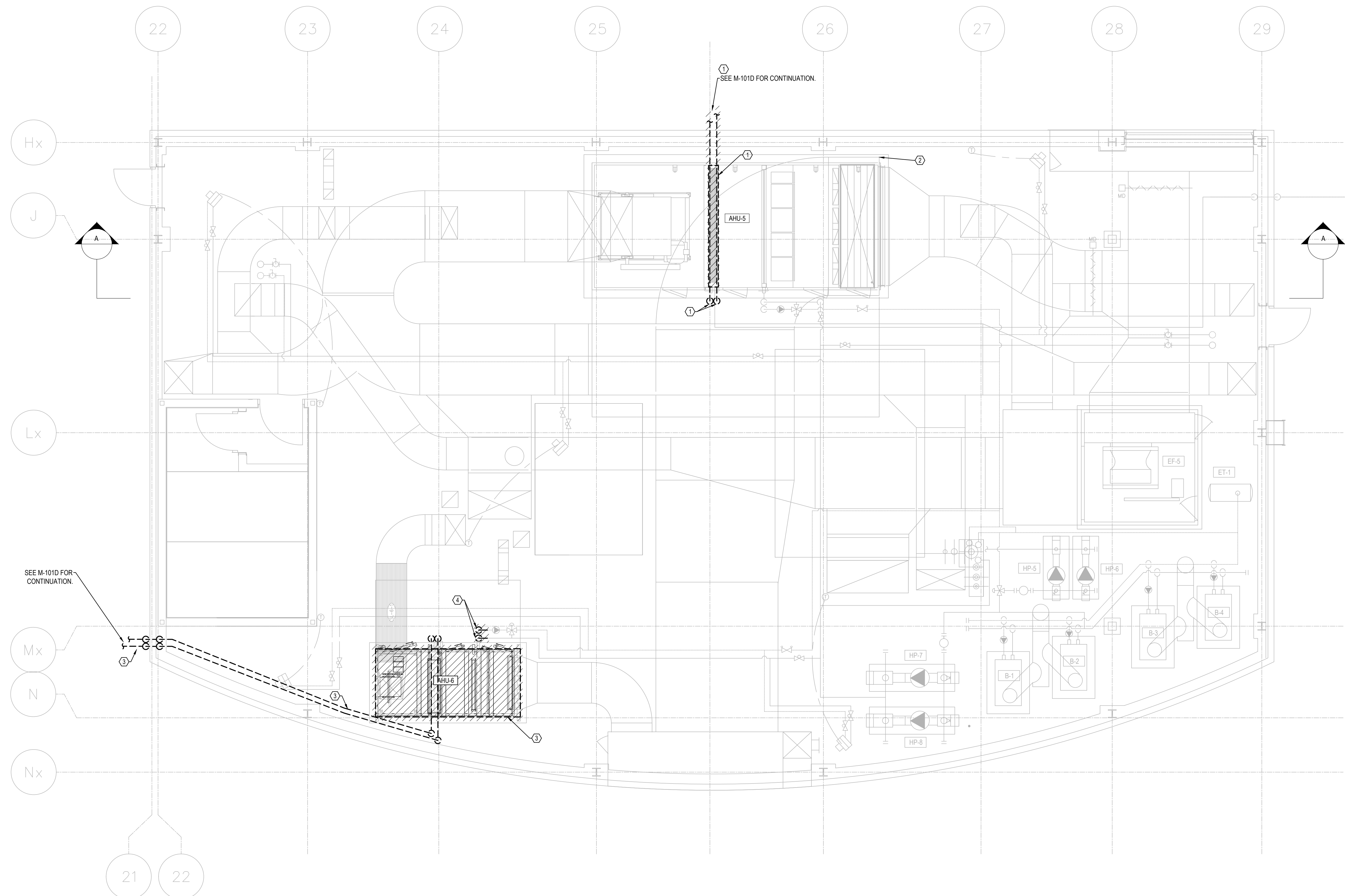
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**NEW WORK - HVAC - PART ROOF
PLAN NORTH WING**

M101



SECTION VIEW A-A



HVAC DEMOLITION GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, MINISTRY OF THE ENVIRONMENT, MINISTRY OF LABOR, MUNICIPAL REQUIREMENTS AND OTHER AUTHORITIES HAVING JURISDICTION WHICH ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SPECIFICATION.
2. THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES BEFORE THE COMMENCEMENT OF ANY WORK.
3. CONTRACTOR TO FIELD VERIFY ALL PIPE CONNECTION LOCATIONS AND ROUTING WITH BUILDING SERVICES PRIOR TO COMMENCEMENT OF WORK. NOT ALL PIPING AND DUCTWORK SHOWN FOR CLARITY.
4. CONTRACTOR TO IDENTIFY ALL SERVICES PRIOR TO DEMOLITION.
5. RELOCATE OR REROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW WORK.
6. PROVIDE ALL CUTTING AND PATCHING. REFER TO SPECIFICATIONS.
7. REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE. CAP AT MAIN.
8. EXISTING PIPES SERVING AREAS REMAINING IN SERVICE AT THIS TIME SHALL NOT BE INTERRUPTED UNLESS A TEMPORARY INTERRUPTION IS COORDINATED WITH THE OWNER.
9. DEMOLITION WORK SHALL INCLUDE ALL MATERIALS, LABOR, EXTENSIONS, CONNECTIONS, CUTTING, REPAIRING, ADAPTING AND OTHER FIRE PROTECTION WORK REQUIRED TO MAINTAIN SERVICE PENDING THE COMPLETION OF THE PERMANENT WORK.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING FOR ANY REQUIRED SHUT-DOWN WITH OWNER. CONTRACTOR SHALL INCLUDE FOR AND DETERMINE THE BEST METHOD TO MINIMIZE SERVICE INTERRUPTION AND IMPACT ON BUILDING OPERATION, INCLUDING USE OF HOT TAP/TEMPORARY FREEZING AND AFTER-HOUR WORK AS REQUIRED.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OWNER TO MINIMIZE SERVICE INTERRUPTION FOR RUNNING SYSTEM, INCLUDING CAP PIPE OPENING, PROVIDING TEMPORARY PIPE CONNECTION, PROVIDE NECESSARY METHOD TO AVOID PIPE FREEZING WHEN SYSTEM IS OFF.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING A COMPLETE TEMPORARY HVAC SYSTEM AS REQUIRED TO MAINTAIN INDOOR AIR TEMPERATURE IN ALL AFFECTED SPACES FOR THE DURATION OF THE PROJECT. EQUIPMENT PROVIDED SHALL BE CAPABLE OF MAINTAINING 22°C INDOOR AIR TEMPERATURE.

DEMOLITION DRAWING NOTES:

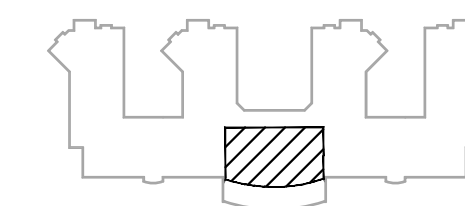
- ① DEMOLISH EXISTING COOLING COIL AND ALL ASSOCIATED REFRIGERANT PIPING SERVING AHU-5.
- ② EXISTING AHU-5 TO REMAIN.
- ③ DEMOLISH EXISTING AHU-6 UNIT. DEMOLISH ASSOCIATED REFRIGERANT PIPING BACK TO CO-6. DISCONNECT SIA AND RIA DUCTWORK AND ACCESSORIES. CNV REMOVAL OF THE CONTROLS WIRING, POWER WIRING ETC.
- ④ DEMOLISH EXISTING HEATING COIL AND ASSOCIATED HWS & HWR PIPING TO EXISTING VALVE LOCATIONS. PRIOR TO ANY PIPE REMOVAL, CONTRACTOR TO VERIFY ON SITE THE CONDITION OF THE EXISTING VALVE AND REPORT BACK TO THE ENGINEER IF THEY HOLD. ALL NEW VALVES AS REQUIRED, SIZE TO MATCH NEW PIPING.



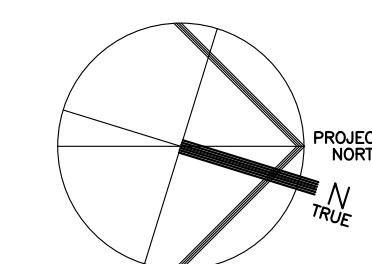
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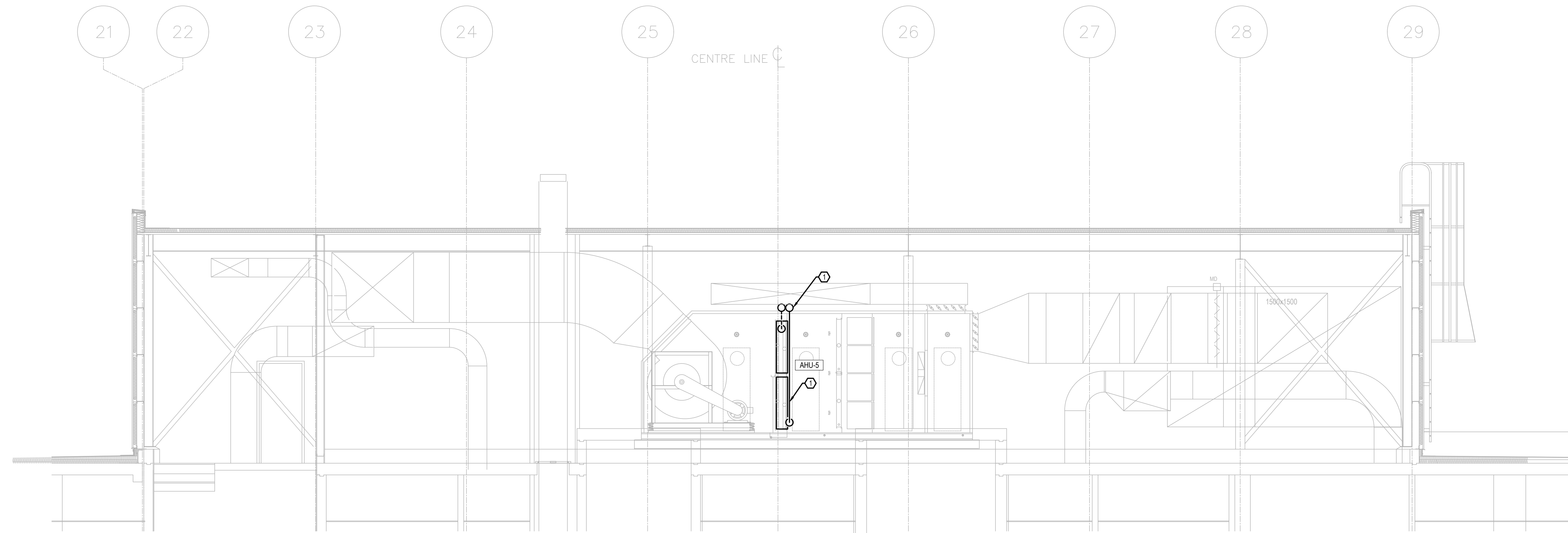
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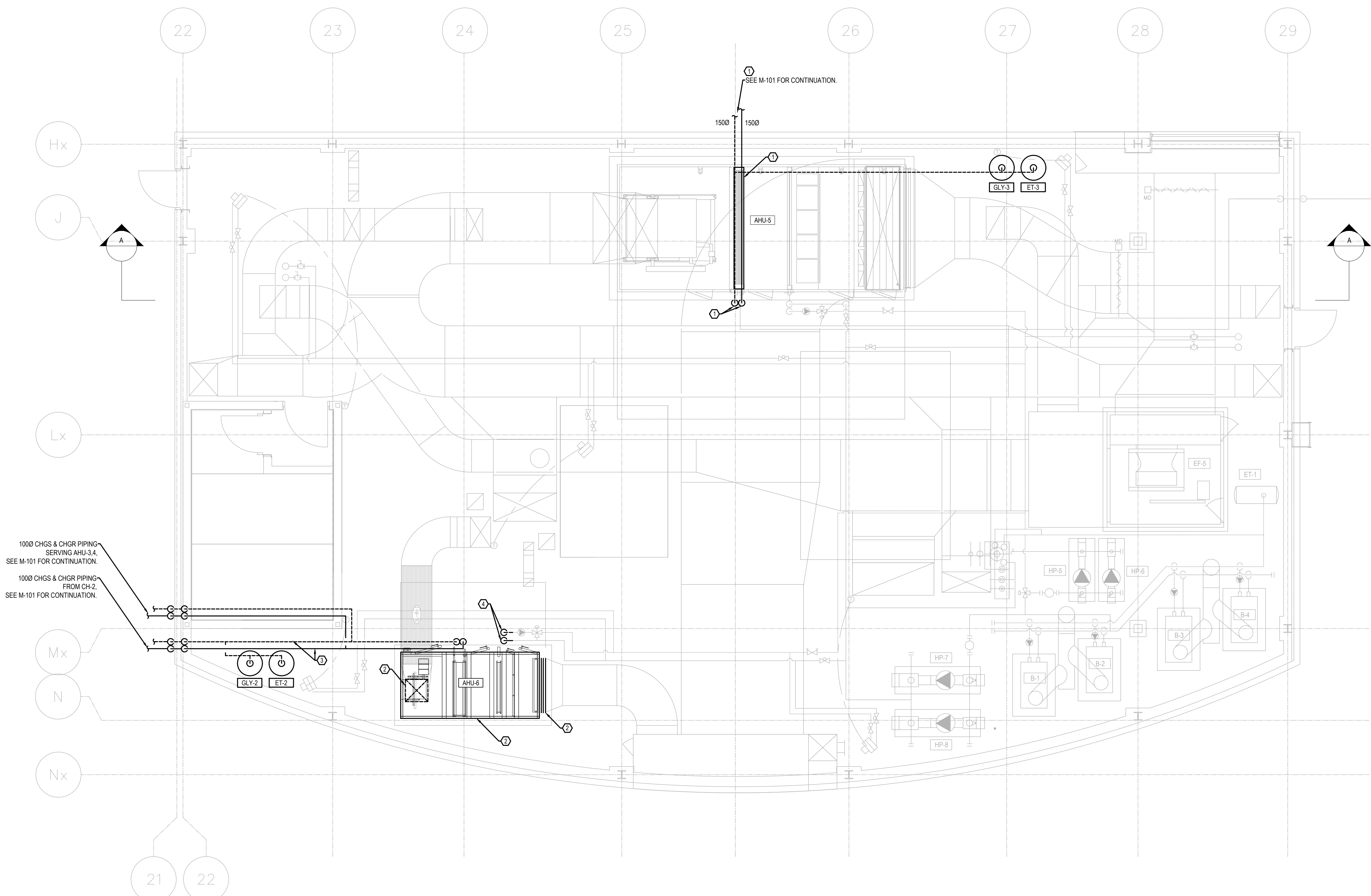
DEMOLITION - HVAC - CENTRAL
PENTHOUSE PLAN

1/50

M102D



SECTION VIEW A-A



- HVAC NEW WORK GENERAL NOTES:
1. PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE CODES, STANDARDS AND BULLETINS AND TO THE LOCAL AUTHORITIES REQUIREMENTS.
 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND CHECK THE EXISTING SITE CONDITION PRIOR TO AND DURING CONSTRUCTION. ANY CHANGES AND/OR DISCREPANCIES SHALL BE REPORTED AND REVIEWED BY THE ENGINEER AND/OR PROJECT MANAGER PRIOR TO PROCEEDING.
 3. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND THE DOCUMENTS PERTAINING TO THE WORK OF OTHER TRADES.
 4. OBTAIN EXACT DIMENSION FROM SITE MEASUREMENTS. DO NOT SCALE THESE DRAWINGS.
 5. PENETRATIONS OF EITHER THE FIRE OR SMOKE BARRIERS SHALL BE SLEEVED SEALED AGAINST THE PASSAGE OF FLAME AND/OR SMOKE WITH A SUITABLE NON-COMBUSTIBLE MATERIAL EQUAL TO THE CONSTRUCTION PENETRATED.
 6. CHECK AND VERIFY THE LOCATIONS OF ALL PIPES, DUCTWORK AND EQUIPMENT WITH THE WORK OF OTHER TRADES TO PREVENT INTERFERENCE. REMOVAL AND RELOCATION OF ANY SUCH WORK INTERFERING WITH THE WORK OF OTHER TRADES IS THE RESPONSIBILITY OF THE MECHANICAL TRADES, UNLESS OTHERWISE APPROVED IN WRITING.
 7. PROVIDE ACCESS DOORS AS REQUIRED FOR ALL CONCEALED SERVICEABLE COMPONENTS, LOCATED ABOVE, BEHIND OR BELOW INACCESSIBLE CONSTRUCTION.
 8. ALL CHILLED WATER PIPING SHALL BE INSULATED.
 9. FOR THE ROOF MOUNTED EQUIPMENT, CONTRACTOR TO DESIGN AND ANCHOR NEW ROOF MOUNTED EQUIPMENT TO WITHSTAND WIND SPEEDS ACTING ON ALL EXPOSED SURFACES. REFERENCE SHALL BE MADE TO FM DESIGN CRITERIA. FOR ADDITIONAL GUIDANCE, REFER TO ASCE 7.

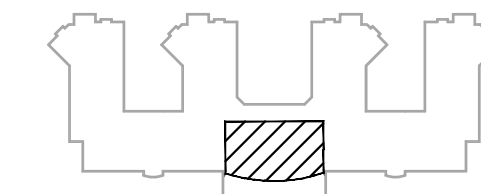
- NEW WORK DRAWING NOTES:
- ① INSTALL NEW COOLING COIL AND NEW REFRIGERANT PIPING TO SERVE AHU-5. PROVIDE NEW PIPING CW ACCESSORIES, INSULATION, AND PIPE SUPPORTS. PROVIDE A NEW COIL RACK, SPLIT COIL AND COIL SECTION ACCESS PANEL. THE ACCESS PANEL SHALL MATCH THE EXISTING AHU CASING AND BE DESIGNED SPECIFICALLY FOR THE EXISTING UNIT. COIL RACK SHALL BE CONSTRUCTED OF SABS. THE NEW COOLING COIL SHALL BE OF SPLIT DESIGN TO FACILITATE COIL INSTALLATION/REMOVAL WITHIN THE EXISTING SPACE. COIL CASING SHALL BE 304 SS.
 - ② INSTALL NEW AHU-6. PROVIDE REQUIRED DUCT MODIFICATION TO SUIT NEW AHU INSTALLATION. PROVIDE NEW HANGER AND MOUNTS AS REQUIRED TO SECURE THE NEW AHU, DUCTWORK, HEATING, AND REFRIGERANT PIPES.
 - ③ PROVIDE NEW CHGS & CHGR PIPING TO SERVE AHU-6. REFER TO SCHEDULE AND SPECIFICATION FOR PERFORMANCE AND DETAILS FOR INSTALLATION.
 - ④ CONNECT NEW AHU-6 TO EXISTING HWS & HWR PIPING. REFER TO SCHEDULE AND SPECIFICATION FOR PERFORMANCE AND DETAILS FOR INSTALLATION.



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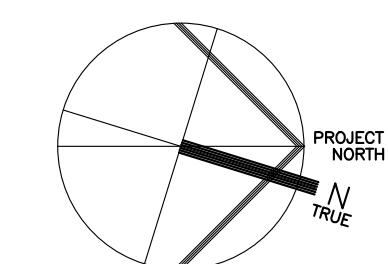
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AHU REPLACEMENT

NEW WORK - HVAC - CENTRAL
PENTHOUSE PLANE PLAN

1.00

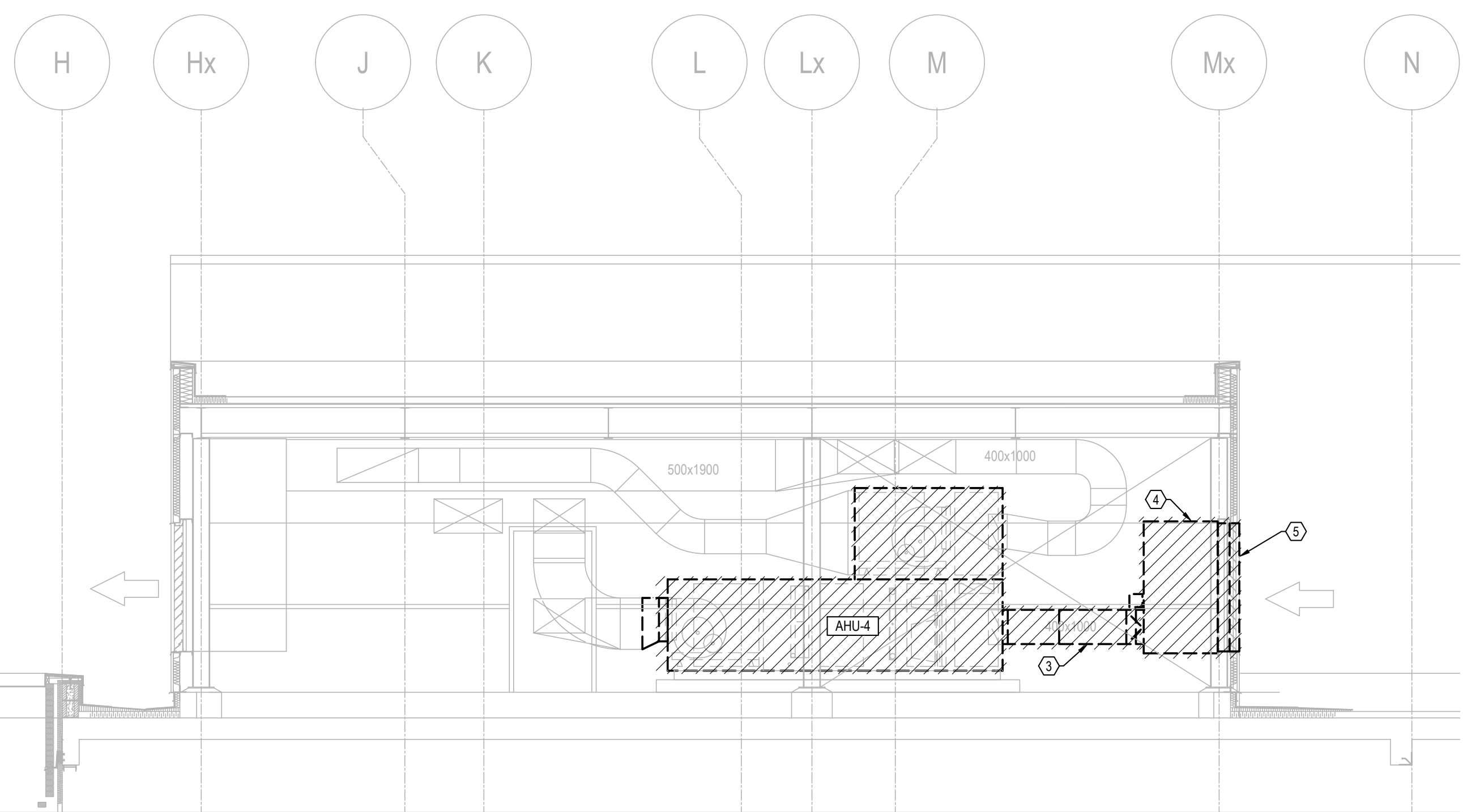
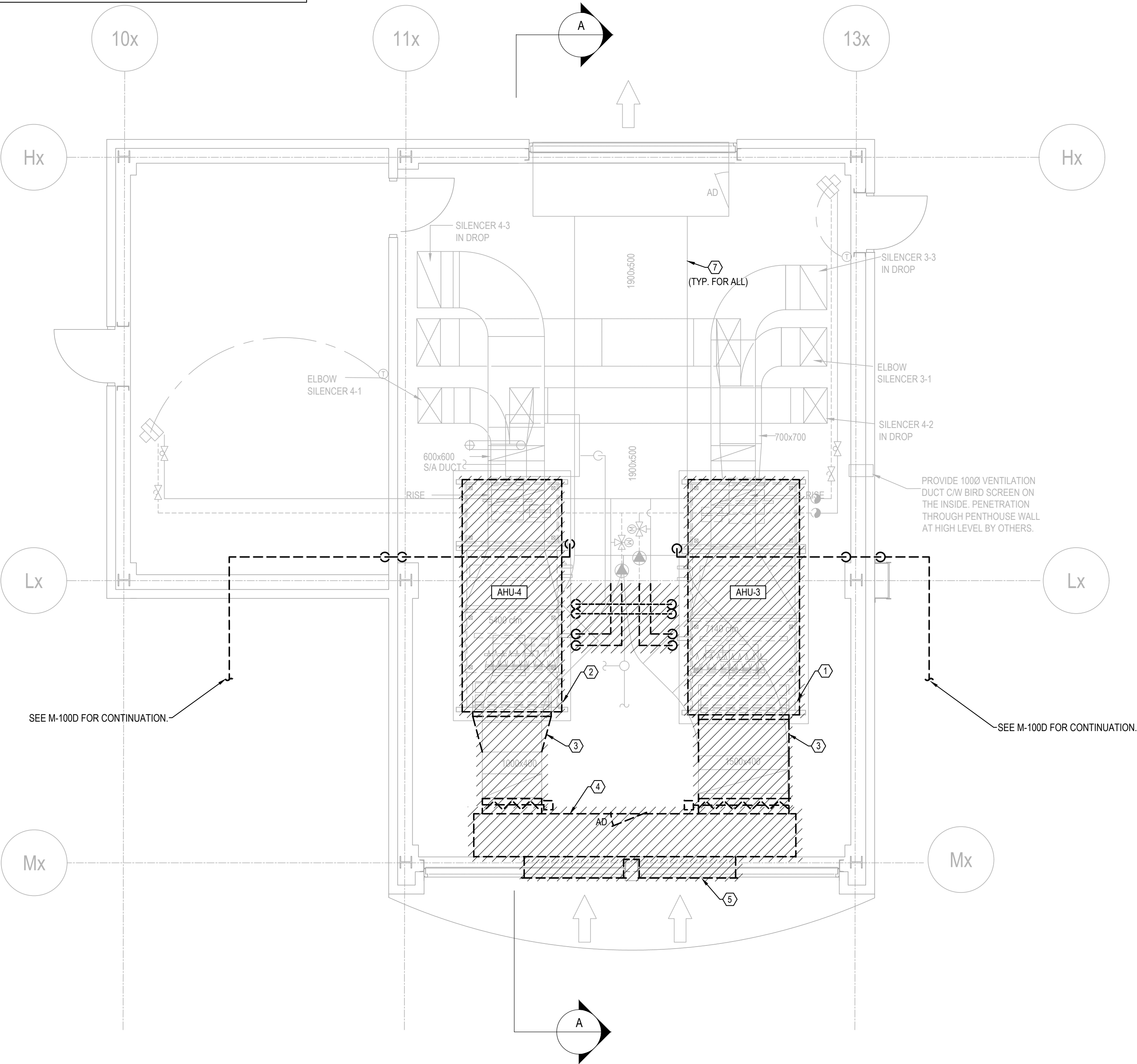
M102

HVAC DEMOLITION GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, MINISTRY OF THE ENVIRONMENT, MINISTRY OF LABOR, MUNICIPAL REQUIREMENTS AND OTHER AUTHORITIES HAVING JURISDICTION WHICH ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SPECIFICATION.
- THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES BEFORE THE COMMENCEMENT OF ANY WORK.
- CONTRACTOR TO FIELD VERIFY ALL PIPE CONNECTION LOCATIONS AND ROUTING WITH BUILDING SERVICES PRIOR TO COMMENCEMENT OF WORK. NOT ALL PIPING AND DUCTWORK SHOWN FOR CLARITY.
- CONTRACTOR TO IDENTIFY ALL SERVICES PRIOR TO DEMOLITION.
- RELOCATE OR REROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW WORK.
- PROVIDE ALL CUTTING AND PATCHING. REFER TO SPECIFICATIONS.
- REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE. CAP AT MAIN.
- EXISTING PIPES SERVING AREAS REMAINING IN SERVICE AT THIS TIME SHALL NOT BE INTERRUPTED UNLESS A TEMPORARY INTERRUPTION IS COORDINATED WITH THE OWNER.
- DEMOLITION WORK SHALL INCLUDE ALL MATERIALS, LABOR, EXTENSIONS, CONNECTIONS, CUTTING, REPAIRING, ADAPTING AND OTHER FIRE PROTECTION WORK REQUIRED TO MAINTAIN SERVICE PENDING THE COMPLETION OF THE PERMANENT WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING FOR ANY REQUIRED SHUT-DOWN WITH OWNER. CONTRACTOR SHALL INCLUDE FOR AND DETERMINE THE BEST METHOD TO MINIMIZE SERVICE INTERRUPTION AND IMPACT ON BUILDING OPERATION, INCLUDING USE OF HOT TAP/TEMPORARY FREEZING AND AFTER-HOUR WORK AS REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OWNER TO MINIMIZE SERVICE INTERRUPTION FOR RUNNING SYSTEM, INCLUDING CAP PIPE OPENING, PROVIDING TEMPORARY PIPE CONNECTION, PROVIDE NECESSARY METHOD TO AVOID PIPE FREEZING WHEN SYSTEM IS OFF.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING A COMPLETE TEMPORARY HVAC SYSTEM AS REQUIRED TO MAINTAIN INDOOR AIR TEMPERATURE IN ALL AFFECTED SPACES FOR THE DURATION OF THE PROJECT. EQUIPMENT PROVIDED SHALL BE CAPABLE OF MAINTAINING 22°C INDOOR AIR TEMPERATURE.

DEMOLITION DRAWING NOTES:

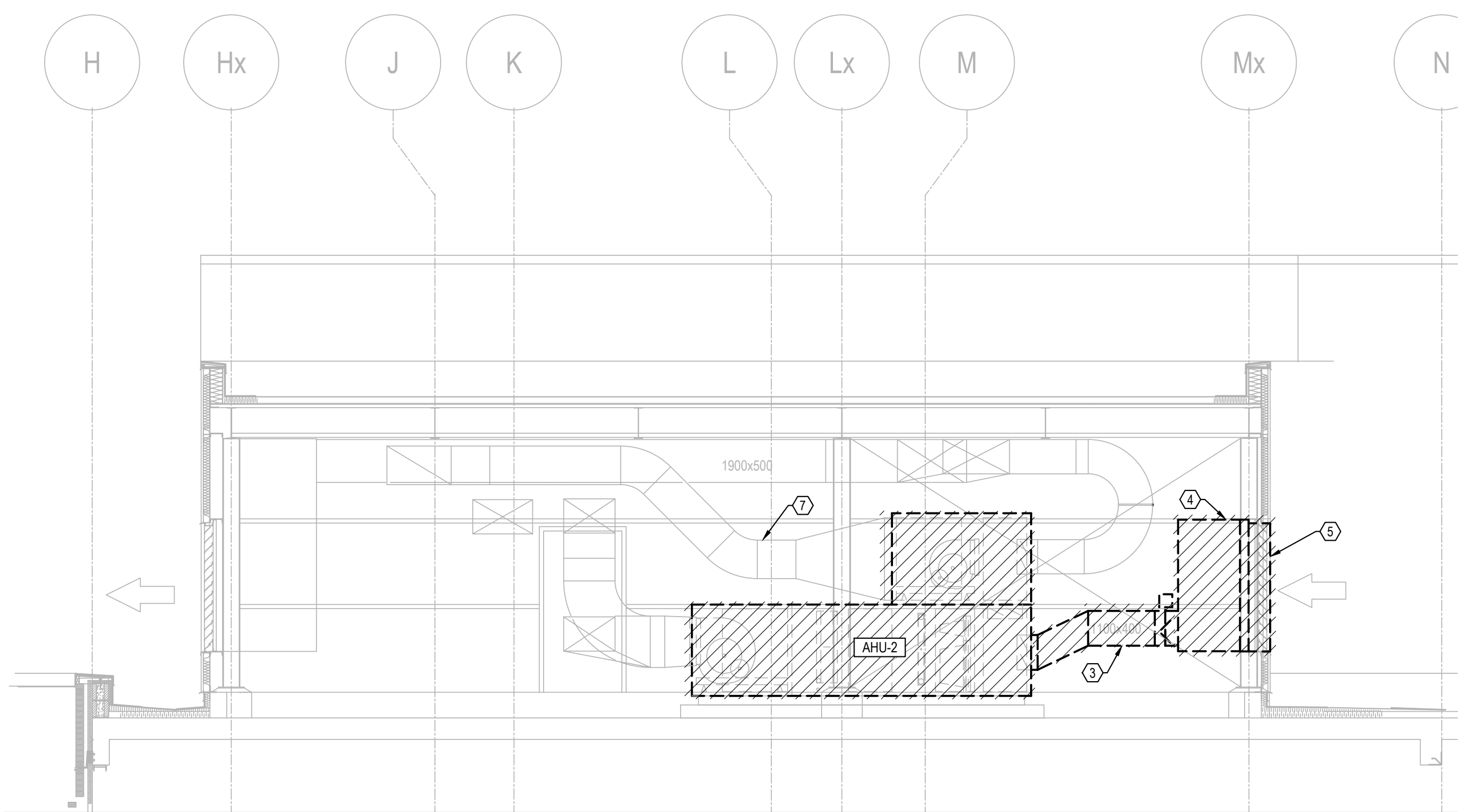
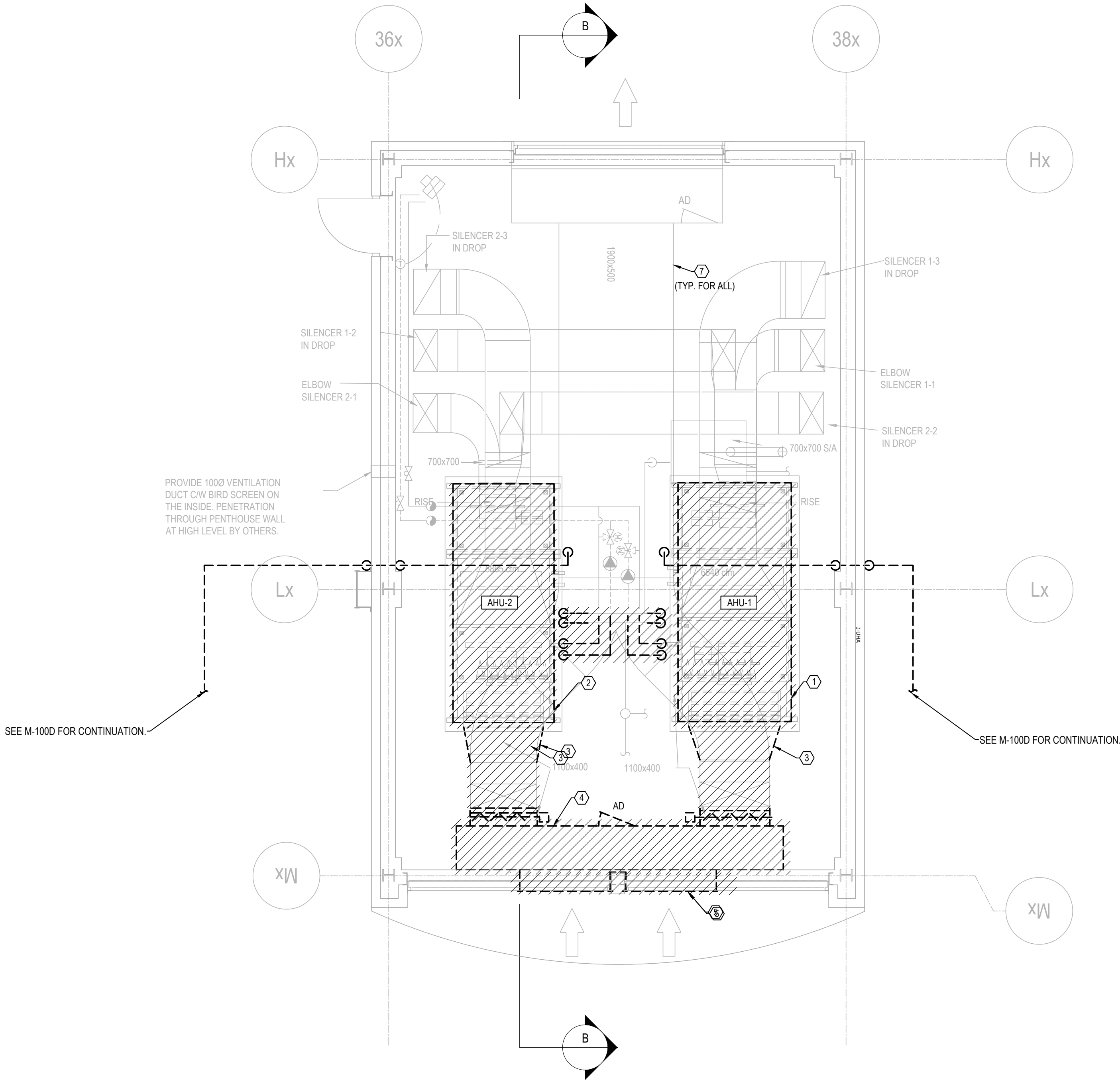
- DEMOLISH EXISTING AHU-3 UNIT. DEMOLISH ASSOCIATED REFRIGERANT PIPING BACK TO CD-3. DISCONNECT S/A AND R/A DUCTWORK AND ACCESSORIES. C/W REMOVAL OF THE CONTROLS WIRING, POWER WIRING ETC.
- DEMOLISH EXISTING AHU-4 UNIT. DEMOLISH ASSOCIATED REFRIGERANT PIPING BACK TO CD-4. DISCONNECT S/A AND R/A DUCTWORK AND ACCESSORIES. C/W REMOVAL OF THE CONTROLS WIRING, POWER WIRING ETC.
- DEMOLISH EXISTING O/A DUCTWORK AS SHOWN.
- DEMOLISH EXISTING O/A PLENUM AS SHOWN.
- REMOVE AND REINSTALL EXISTING O/A INTAKE AIR LOUVRE AS SHOWN.
- EXISTING DUCTWORK TO REMAIN.



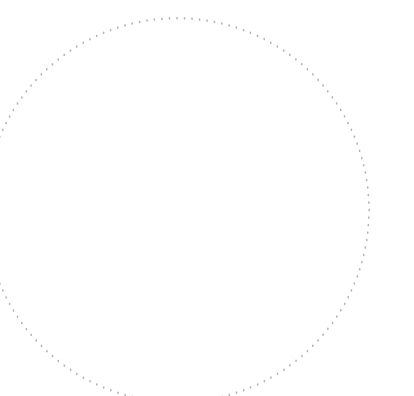
SECTION VIEW A-A

DEMOLITION DRAWING NOTES:

- DEMOLISH EXISTING AHU-1 UNIT. DEMOLISH ASSOCIATED REFRIGERANT PIPING BACK TO CD-3. DISCONNECT S/A AND R/A DUCTWORK AND ACCESSORIES. C/W REMOVAL OF THE CONTROLS WIRING, POWER WIRING ETC.
- DEMOLISH EXISTING AHU-2 UNIT. DEMOLISH ASSOCIATED REFRIGERANT PIPING BACK TO CD-4. DISCONNECT S/A AND R/A DUCTWORK AND ACCESSORIES. C/W REMOVAL OF THE CONTROLS WIRING, POWER WIRING ETC.
- DEMOLISH EXISTING O/A DUCTWORK AS SHOWN.
- DEMOLISH EXISTING O/A PLENUM AS SHOWN.
- REMOVE AND REINSTALL EXISTING O/A INTAKE AIR LOUVRE AS SHOWN.
- EXISTING DUCTWORK TO REMAIN.



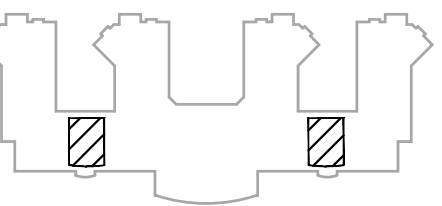
SECTION VIEW B-B



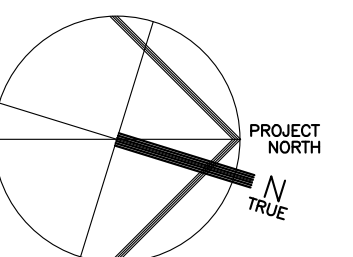
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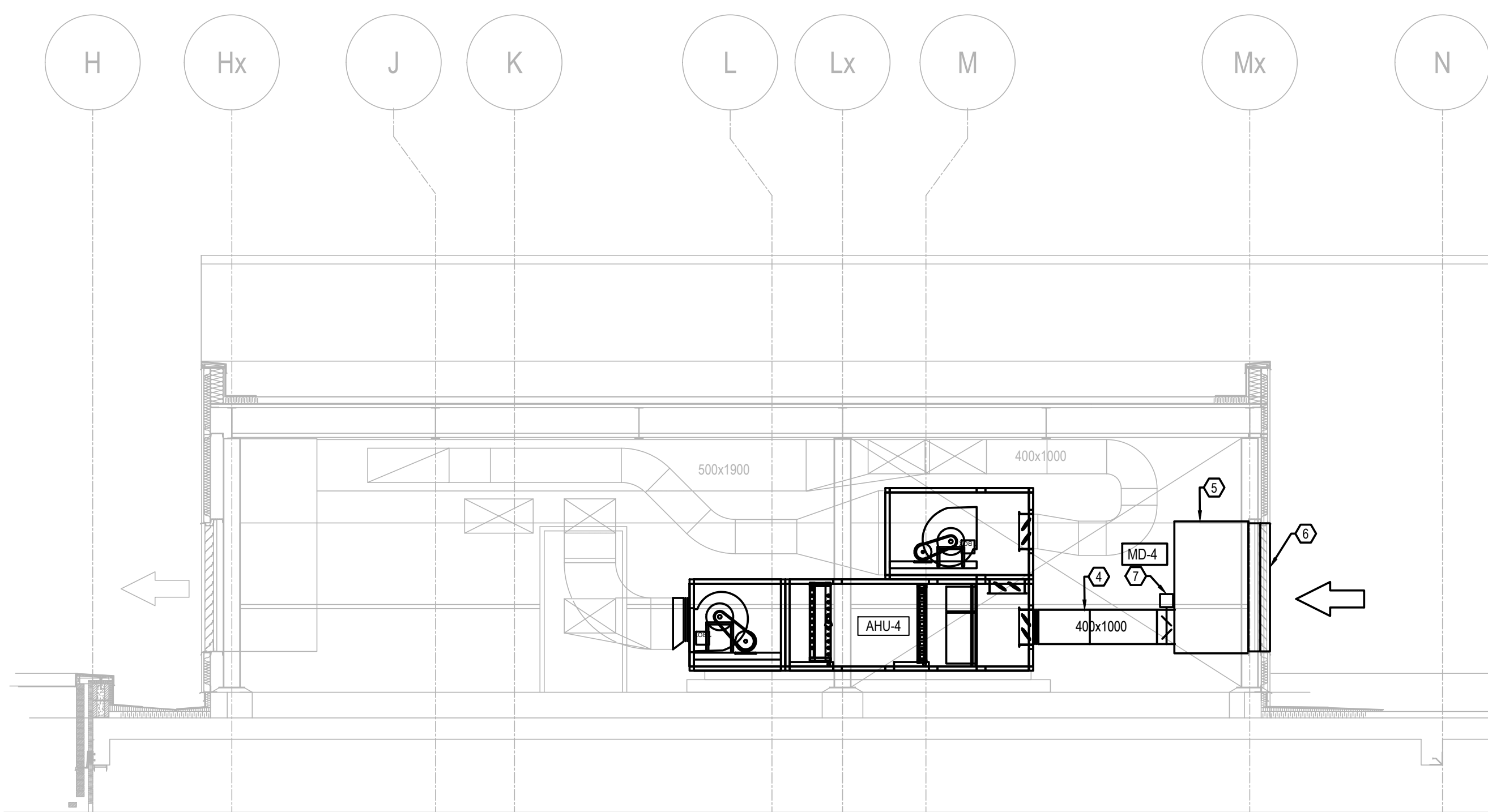
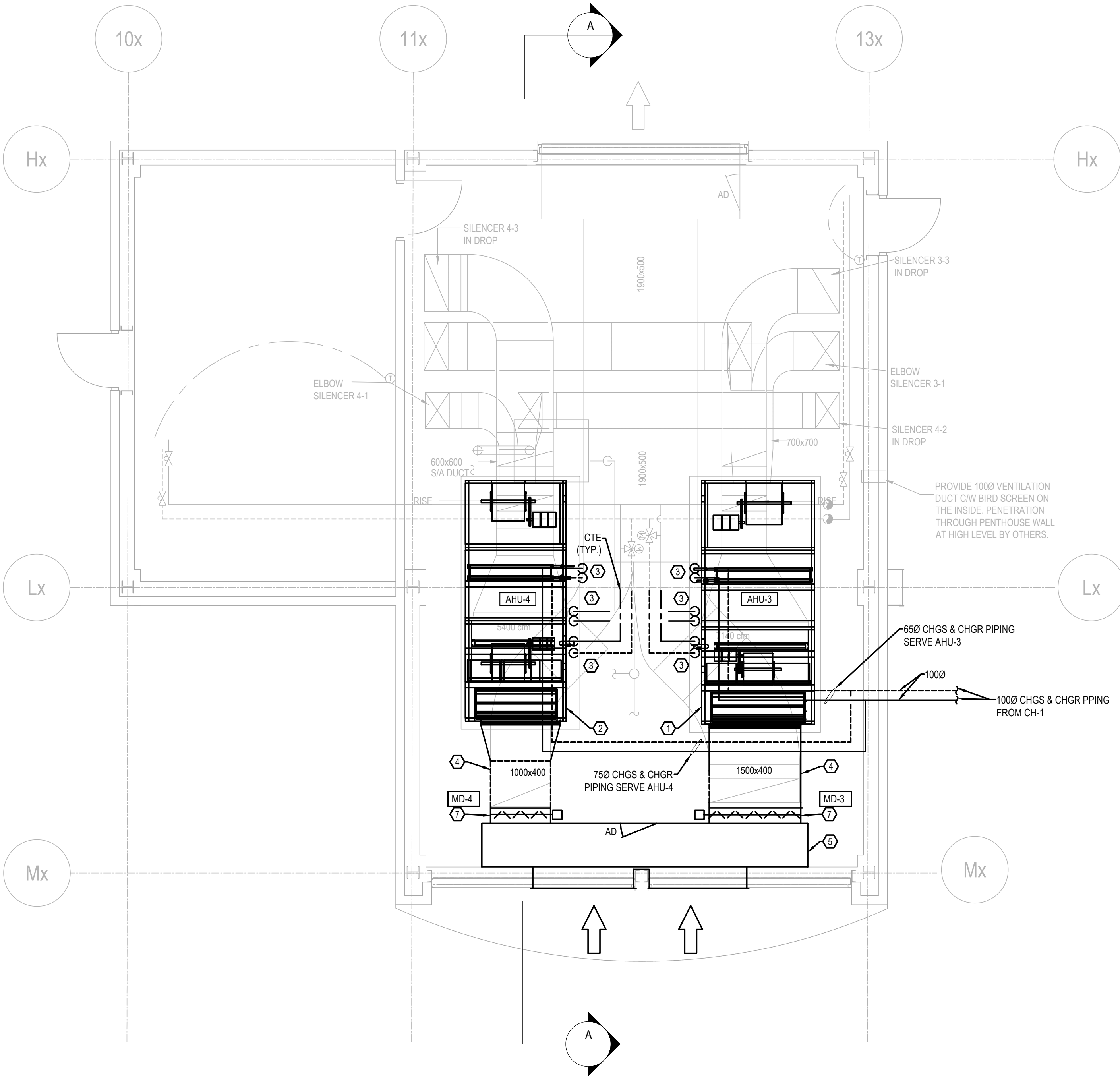
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AHU REPLACEMENT

DEMOLITION - HVAC - NORTH & SOUTH PENTHOUSE PLAN

M103D

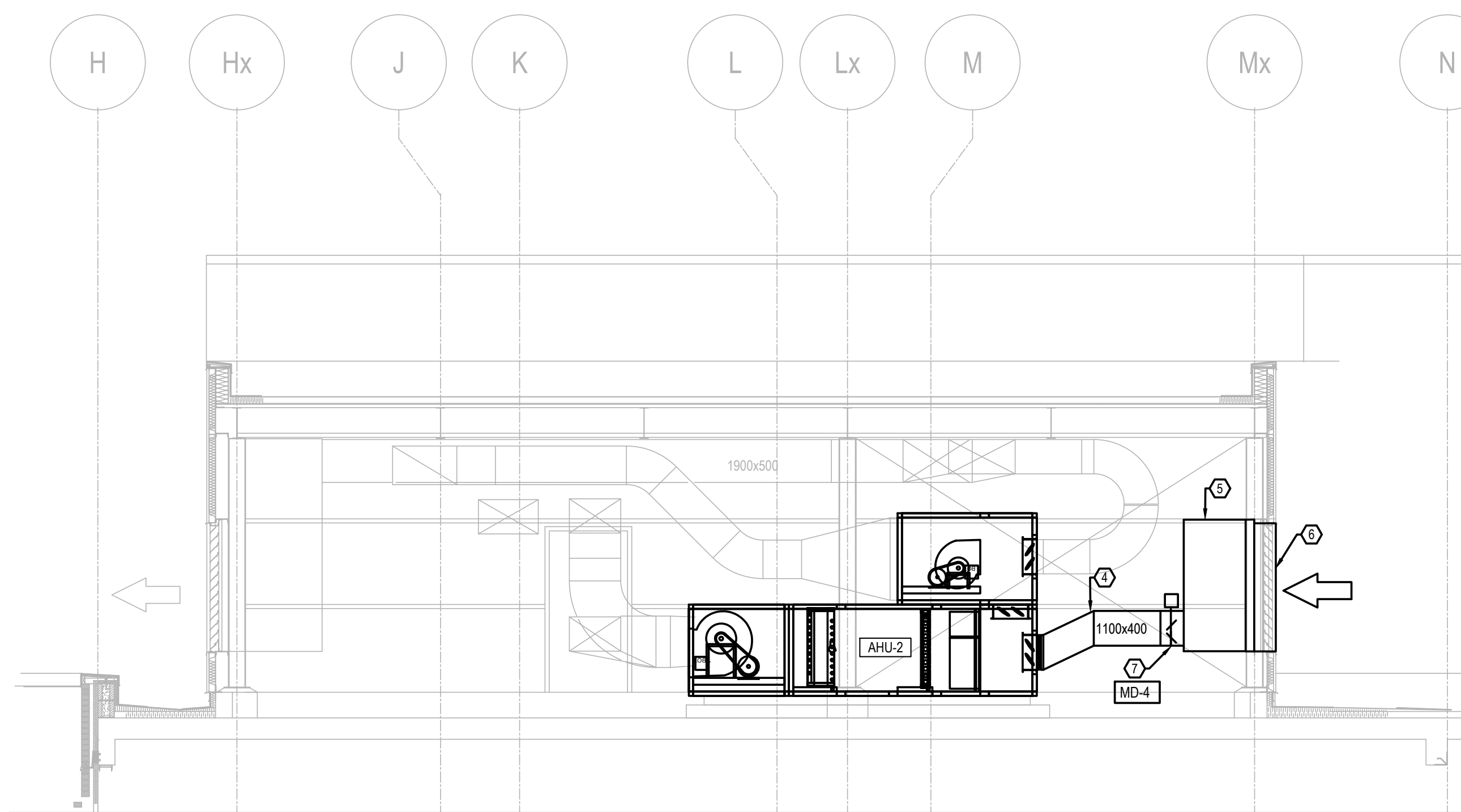
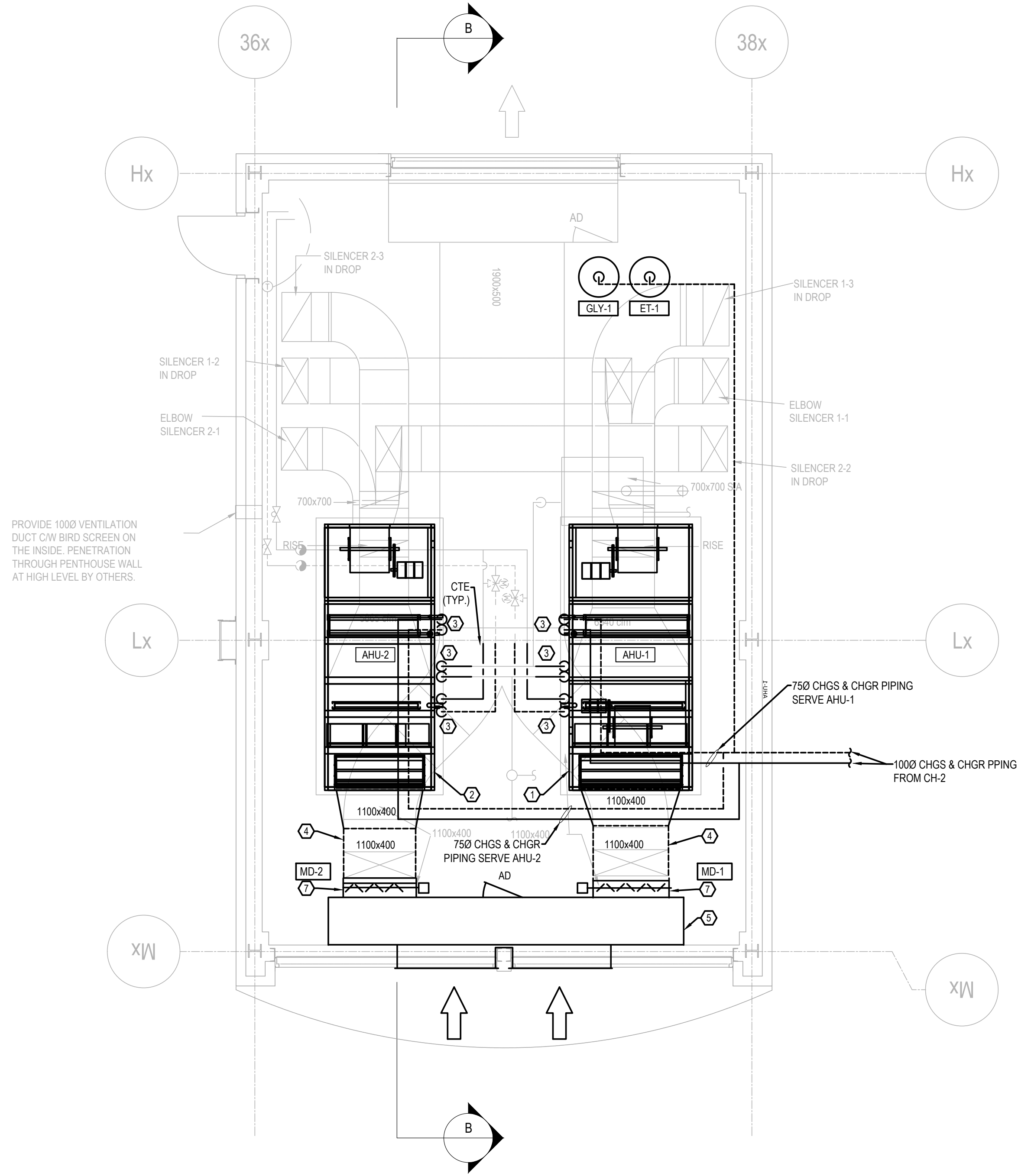
- HVAC NEW WORK GENERAL NOTES:
- PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE CODES, STANDARDS AND BULLETINS AND TO THE LOCAL AUTHORITIES REQUIREMENTS.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND CHECK THE EXISTING SITE CONDITION PRIOR TO AND DURING CONSTRUCTION. ANY CHANGES AND/OR DISCREPANCIES SHALL BE REPORTED AND REVIEWED BY THE ENGINEER AND/OR PROJECT MANAGER PRIOR TO PROCEEDING.
 - THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND THE DOCUMENTS PERTAINING TO THE WORK OF OTHER TRADES.
 - OBTAIN EXACT DIMENSION FROM SITE MEASUREMENTS. DO NOT SCALE THESE DRAWINGS.
 - PENETRATIONS OF EITHER THE FIRE OR SMOKE BARRIERS SHALL BE SLEEVED SEALED AGAINST THE PASSAGE OF FLAME AND/OR SMOKE WITH A SUITABLE NON-COMBUSTIBLE MATERIAL EQUAL TO THE CONSTRUCTION PENETRATED.
 - CHECK AND VERIFY THE LOCATIONS OF ALL PIPES, DUCTWORK AND EQUIPMENT WITH THE WORK OF OTHER TRADES TO PREVENT INTERFERENCE. REMOVAL AND RELOCATION OF ANY SUCH WORK INTERFERING WITH THE WORK OF OTHER TRADES IS THE RESPONSIBILITY OF THE MECHANICAL TRADES, UNLESS OTHERWISE APPROVED IN WRITING.
 - PROVIDE ACCESS DOORS AS REQUIRED FOR ALL CONCEALED SERVICEABLE COMPONENTS, LOCATED ABOVE, BEHIND OR BELOW INACCESSIBLE CONSTRUCTION.
 - ALL CHILLED WATER PIPING SHALL BE INSULATED.
 - FOR THE ROOF MOUNTED EQUIPMENT, CONTRACTOR TO DESIGN AND ANCHOR NEW ROOF MOUNTED EQUIPMENT TO WITHSTAND WIND SPEEDS ACTING ON ALL EXPOSED SURFACES. REFERENCE SHALL BE MADE TO FM DESIGN CRITERIA. FOR ADDITIONAL GUIDANCE, REFER TO ASCE 7.

- NEW WORK DRAWING NOTES:
- INSTALL NEW AHU-3. PROVIDE REQUIRED DUCT MODIFICATION TO SUIT NEW AHU INSTALLTION. PROVIDE NEW HANGER AND MOUNTS AS REQUIRED TO SECURE THE NEW AHU AND DUCTWORK. CONTRACTOR TO INTEGRATE AHU-3 INTO BAS AS PER SEQUENCE OF OPERATION.
 - INSTALL NEW AHU-4. PROVIDE REQUIRED DUCT MODIFICATION TO SUIT NEW AHU INSTALLTION. PROVIDE NEW HANGER AND MOUNTS AS REQUIRED TO SECURE THE NEW AHU AND DUCTWORK. CONTRACTOR TO INTEGRATE AHU-4 INTO BAS AS PER SEQUENCE OF OPERATION.
 - PROVIDE NEW HEATING (HWS & HWRI), COOLING (GLYCOL), STEAM AND CONDENSATE PIPING TO SERVE NEW AHU. REFER TO SCHEDULE AND SPECIFICATION FOR PERFORMANCE AND DETAILS FOR INSTALLATION. CONTRACTOR PROVIDE NEW HANGER AND MOUNTS AS REQUIRED TO SECURE THE NEW HEATING, REFRIGERANT, AND STEAM PIPES.
 - CONTRACTOR TO PROVIDE NEW OIA DUCTWORK AS SHOWN, SIZE TO MATCH EXISTING.
 - CONTRACTOR TO PROVIDE NEW OIA PLENUM AS SHOWN, SIZE TO MATCH EXISTING.
 - INSTALL NEW OIA LOUVERS AS SHOWN, SIZE TO MATCH EXISTING.
 - CONTRACTOR TO PROVIDE NEW MOTORIZED DAMPER (MD-3, MD-4) AS SHOWN.



SECTION VIEW A-A

- NEW WORK DRAWING NOTES:
- INSTALL NEW AHU-1. PROVIDE REQUIRED DUCT MODIFICATION TO SUIT NEW AHU INSTALLTION. PROVIDE NEW HANGER AND MOUNTS AS REQUIRED TO SECURE THE NEW AHU AND DUCTWORK. CONTRACTOR TO INTEGRATE AHU-1 INTO BAS AS PER SEQUENCE OF OPERATION.
 - INSTALL NEW AHU-2. PROVIDE REQUIRED DUCT MODIFICATION TO SUIT NEW AHU INSTALLTION. PROVIDE NEW HANGER AND MOUNTS AS REQUIRED TO SECURE THE NEW AHU AND DUCTWORK. CONTRACTOR TO INTEGRATE AHU-2 INTO BAS AS PER SEQUENCE OF OPERATION.
 - PROVIDE NEW HEATING (HWS & HWRI), COOLING (GLYCOL), STEAM AND CONDENSATE PIPING TO SERVE NEW AHU. REFER TO SCHEDULE AND SPECIFICATION FOR PERFORMANCE AND DETAILS FOR INSTALLATION. CONTRACTOR PROVIDE NEW HANGER AND MOUNTS AS REQUIRED TO SECURE THE NEW HEATING, REFRIGERANT, AND STEAM PIPES.
 - CONTRACTOR TO PROVIDE NEW OIA DUCTWORK AS SHOWN, SIZE TO MATCH EXISTING.
 - CONTRACTOR TO PROVIDE NEW OIA PLENUM AS SHOWN, SIZE TO MATCH EXISTING.
 - INSTALL NEW OIA LOUVERS AS SHOWN, SIZE TO MATCH EXISTING.
 - CONTRACTOR TO PROVIDE NEW MOTORIZED DAMPER (MD-1, MD-2) AS SHOWN.



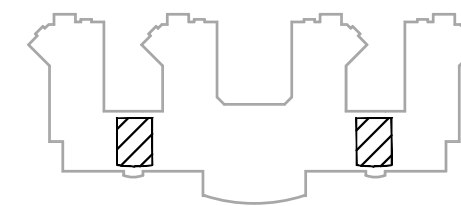
SECTION VIEW B-B



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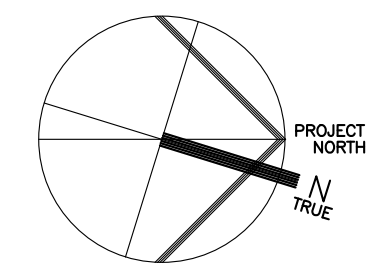
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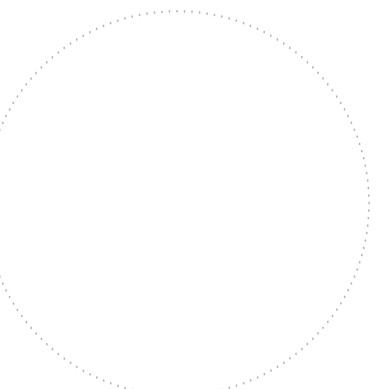


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NEW WORK - HVAC -
NORTH & SOUTH PENTHOUSE PLAN
1.50

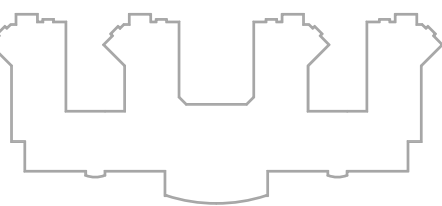
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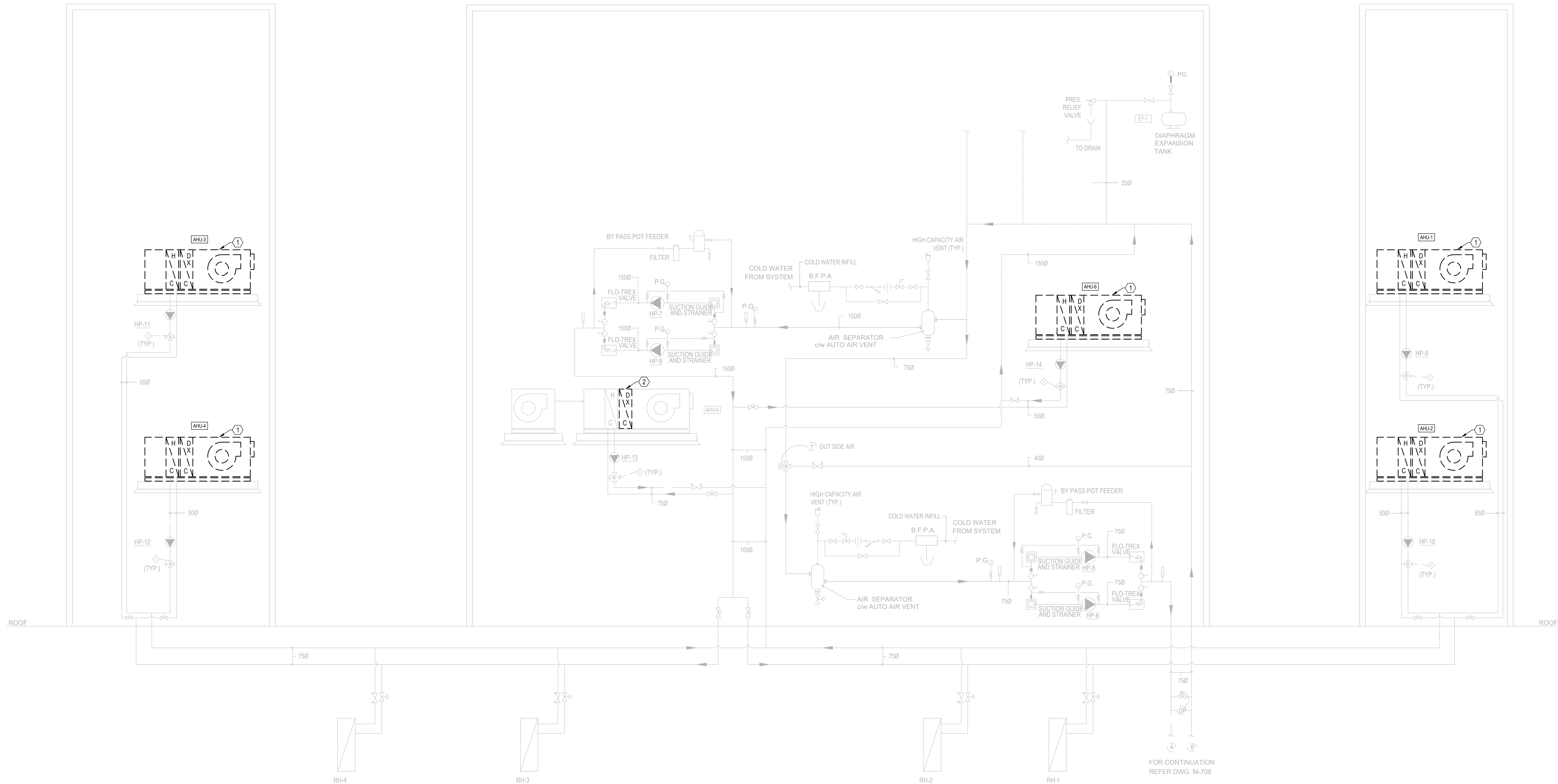
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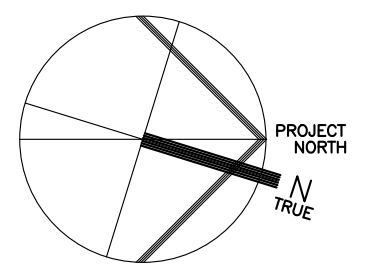


DEMOLITION CYCLOGIC SCHEMATIC NOTES:
① AHU TO BE DISCONNECTED AND DEMOLISHED. ASSOCIATED PIPING TO BE CUT BACK AS PER FLOOR PLANS, AS DESCRIBED PTO TO REMAIN.
② COOLING COIL TO BE DISCONNECTED AND DEMOLISHED. ASSOCIATED PIPING TO BE CUT BACK AS PER FLOOR PLANS.

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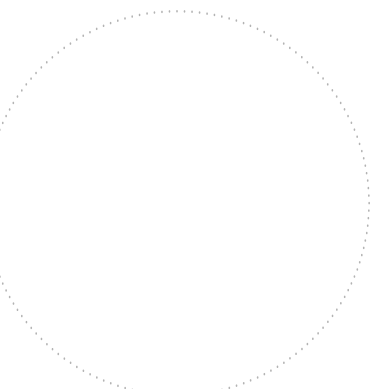
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DEMOLITION -
HYDRONIC SCHEMATIC
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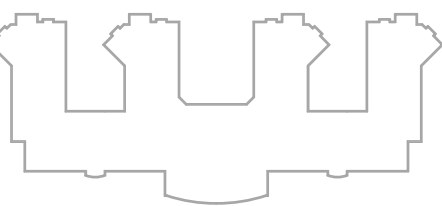
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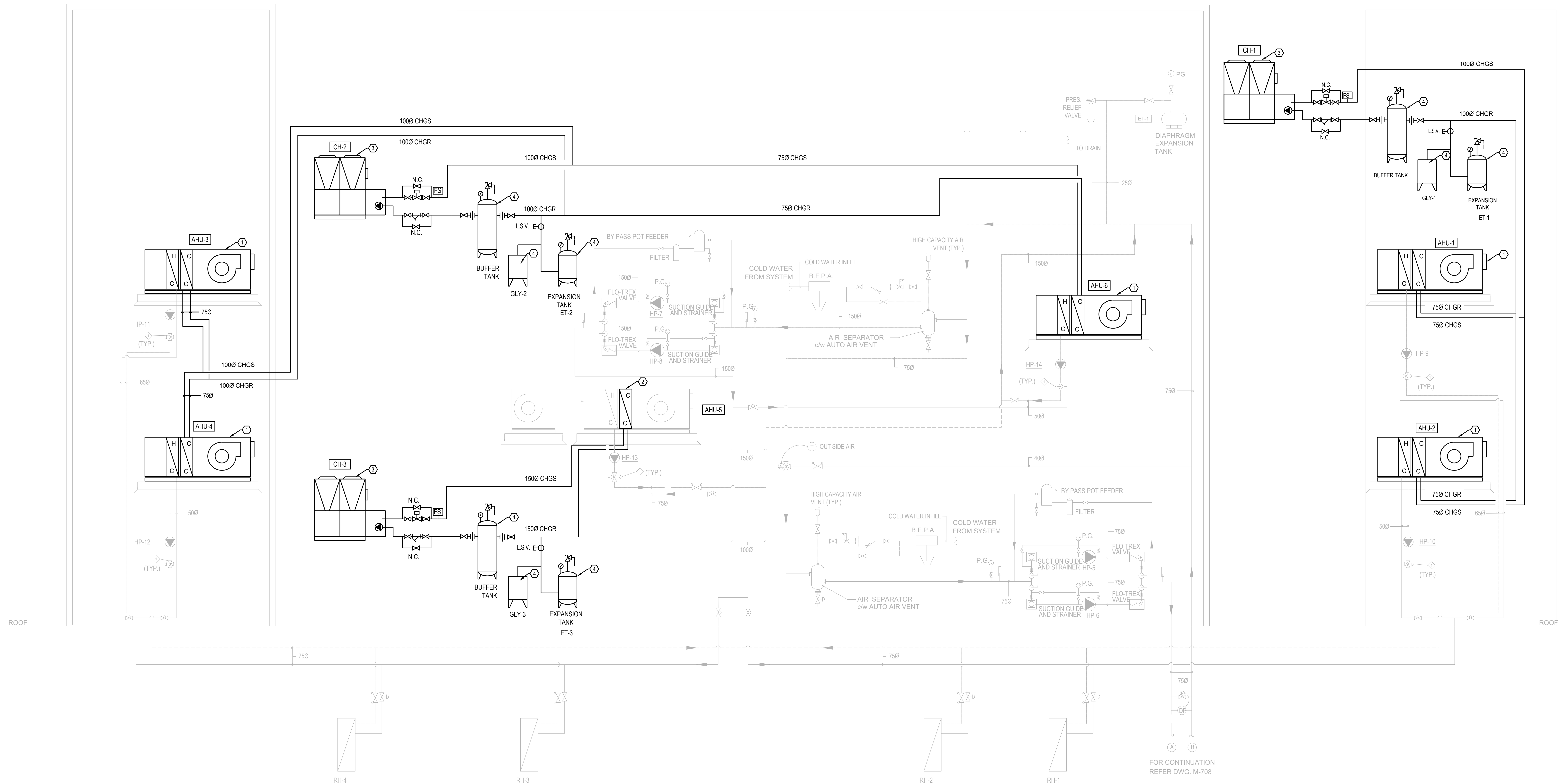
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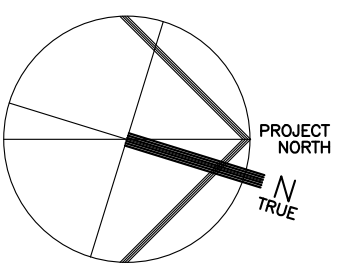
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NEW WORK HYDRONIC SCHEMATIC NOTES:
① NEW AHU TO BE PROVIDED AND INSTALLED. ASSOCIATED PIPING TO BE INSTALLED AS PER FLOOR PLANS, CROSS-REFER TO REMAIN.
② NEW COOLING COIL TO BE PROVIDED AND INSTALLED. ASSOCIATED PIPING TO BE INSTALLED AS PER FLOOR PLANS.
③ NEW CHILLER TO BE PROVIDED AND INSTALLED ON ROOF C/W ASSOCIATED PIPING. REFER TO FLOOR PLANS FOR EXACT LOCATION AND SUPPORT DETAILS.
④ NEW GLYCOL FILL TANK C/W EXPANSION AND BUFFER TANKS AND ASSOCIATED PIPING. REFER TO MECHANICAL SCHEDULES AND SPECIFICATIONS FOR FURTHER DETAILS.

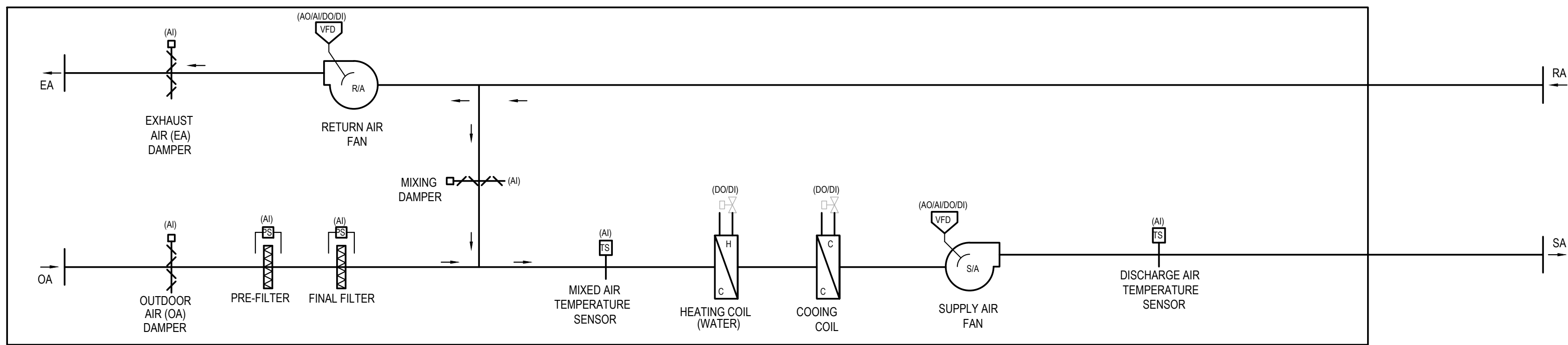
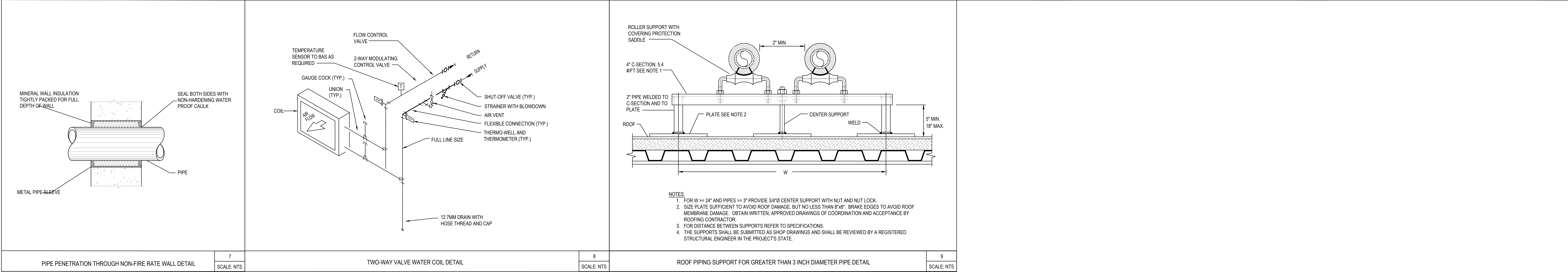
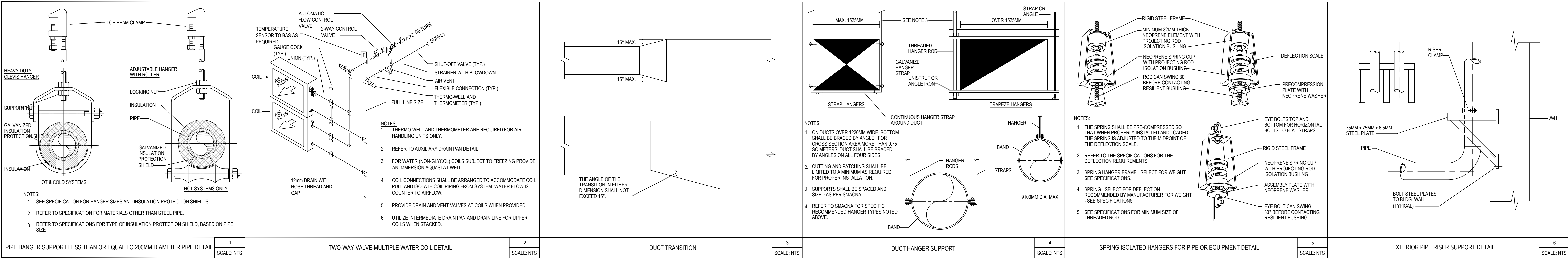


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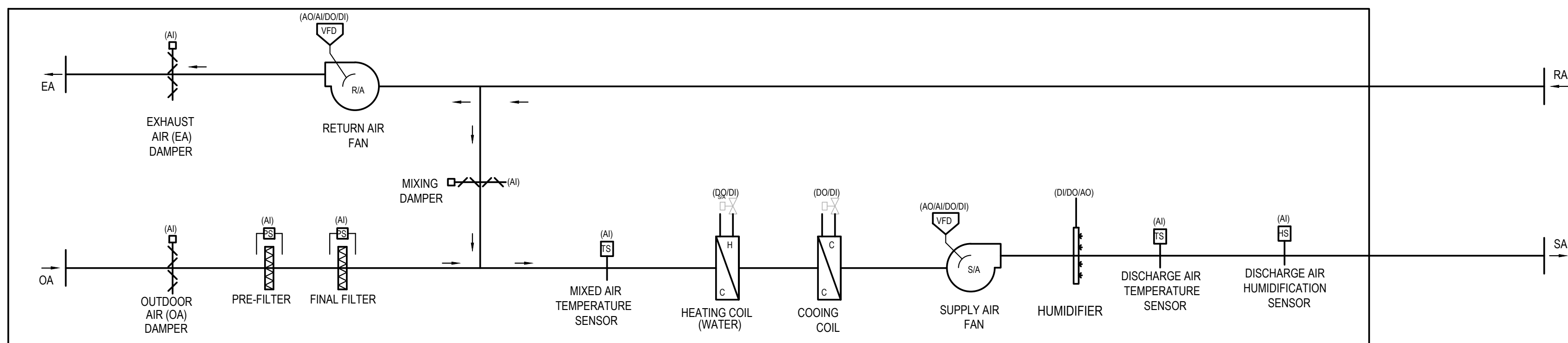
NEW WORK -
HYDRONIC SCHEMATIC
N.T.S.

M601



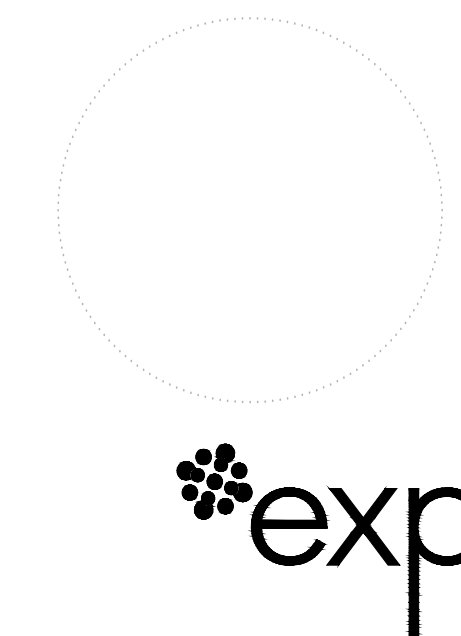
AHU-6 CONTROL DIAGRAM

10
SCALE: NTS



AHU-1,2,3,4 CONTROL DIAGRAM

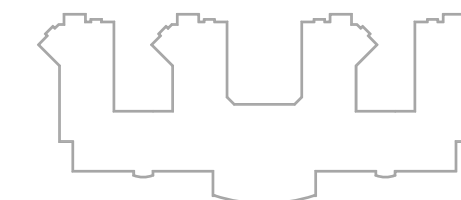
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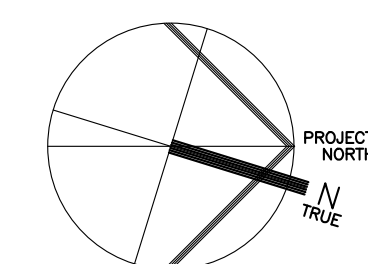
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MECHANICAL DETAILS &
CONTROL DIAGRAMS

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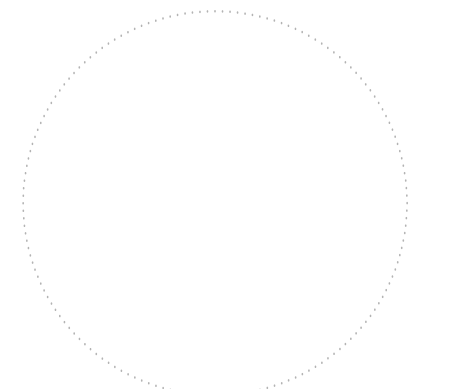
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AIR HANDLING UNIT SCHEDULE																																						
SYSTEM	REFERENCE	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	SUPPLY AIR FLOW		SUPPLY FAN	SUPPLY FAN		RETURN AIR FLOW		RETURN FAN	RETURN FAN		COOLING COIL								HEATING COIL					FILTERS		HUMIDIFIER					EMERGENCY	UNIT	REMARKS
TAG						(CFM)	(L/S)	E.S.P.	MOTOR		(CFM)	(L/S)	E.S.P.	MOTOR		FLUID	FLUID PRESSURE DROP (KPA)	TOTAL (KW)	SENSIBLE (KW)	EAT DB (°C)	EAT WB (°C)	LAT DB (°C)	LAT WB (°C)	FLUID	FLUID PRESSURE DROP (KPA)	TOTAL (KW)	EAT DB (°C)	LAT DB (°C)	PRE-FILTER	FILTER	DISPERSION MANIFOLD/ STEAM LOAD	S/F POWER	R/F POWER	S/F FLA	R/F FLA	POWER	WEIGHT	
								(Pa)	(KW)	(HP)			(Pa)	(KW)	(HP)														(LBS/HR)	(VPH/Hz)	(VPH/Hz)	(A)	(A)	(Y/N)	(KG)			
AHU-1	NEW	NORTH PENTHOUSE	DAIKIN	CAH014G0AC	6540	3086.88	299	7.5	10.0	4600	2171.2	249	3.7	5.0	40% PG	36	114.0	66.0	32.2	23.9	14.6	14.5	WATER	11	182.9	-20.6	27.9	MERV 8	MERV 13	114	5753/60	5753/60	9.8	5.3	N	1758		
AHU-2	NEW	NORTH PENTHOUSE	DAIKIN	CAH012G0AC	6140	2898.08	299	5.6	7.5	4100	1935.2	249	3.7	5.0	40% PG	36	108.1	62.1	32.2	23.9	14.7	14.4	WATER	11	166.3	-20.6	26.4	MERV 8	MERV 13	149	5753/60	5753/60	7.6	5.3	N	1622		
AHU-3	NEW	SOUTH PENTHOUSE	DAIKIN	CAH014G0AC	7150	3374.8	299	7.5	10.0	4100	1935.2	249	3.7	5.0	40% PG	50	128.2	72.6	32.2	23.9	14.6	14.2	WATER	14	199.2	-20.6	27.7	MERV 8	MERV 13	129	5753/60	5753/60	9.8	5.3	N	1748		
AHU-4	NEW	SOUTH PENTHOUSE	DAIKIN	CAH012G0AC	5400	2548.8	299	5.6	7.5	4600	2171.2	249	3.7	5.0	40% PG	28	93.6	54.2	32.2	23.9	14.8	14.6	WATER	36	155.2	-20.6	29.3	MERV 8	MERV 13	137	5753/60	5753/60	7.6	5.3	N	1638		
AHU-5	EXISTING	CENTRAL PENTHOUSE	HAAKON	7701SD01	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
AHU-6	NEW	CENTRAL PENTHOUSE	DAIKIN	CAH010G0AC	5000	2360	299	5.6	7.5	N/A	N/A	N/A	N/A	N/A	40% PG	30	85.5	49.6	32.2	23.9	15.1	14.7	WATER	37	141.2	-20.6	28.4	MERV 8	MERV 13	N/A	5753/60	N/A	7.6	N/A	N	943		
NOTES: 1. AHU-5 IS AN EXISTING UNIT. ONLY COOLING COIL (DN) TO BE REPLACED WITH CHILLED GLYCOL COIL CW PERFORMANCE AS PER THIS SCHEDULE. 2. CONTRACTOR TO PROVIDE TWO FEEDS TO THE UNITS AHU-1,2,3,4 AND SINGLE FEED TO AHU-6 3. STARTER/VPD TO BE SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR 4. ALL UNITS SIZED WITH ECONOMIZER MODE 5. ALL UNITS COOLING COIL FLUID IS 40% PROPYLENE GLYCOL 6. PROVIDE 25-50mm RUBBER/NEOPRENE PADS																																						

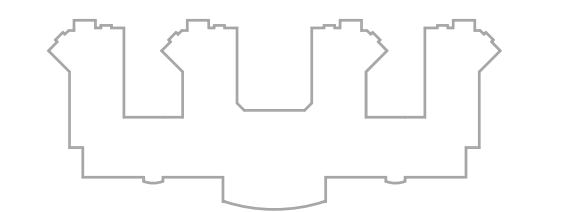
CHILLER SCHEDULE (AIR COOLED)																																										
SYSTEM REFERENCE TAG	AHU SERVED	TYPE	MODEL	MANUFACTURER	LOCATION	REFRIGERANT		CAPACITY		INPUT	PEAK ENERGY	NPLV	FLOW	EFT	LFT	PRESSURE DROP	COMPRESSORS	EFFICIENCY	MAXIMUM SOUND POWER LEVEL OF EQUIPMENT								ELECTRICAL				EMERGENCY	SIZE			OPERATING	REMARKS						
						TYPE	CHARGE	(TON)	(KW)	POWER	EWHYTON							(KWH/TON)	(L/S)	(°C)	(°C)	(KPa)	(QTY)	EER	MAX PHIL IN dB RE 10^-12 W								VOLTAGE	MCA	MOCP		RLA	POWER	LENGTH	WIDTH	HEIGHT	WEIGHT
							(LBS)																		(BTU/W.H)	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz										
CH-1	AHU-1, 2	AR-COOLED SCROLL COMPRESSOR	AG209AF	DAIKIN	ROOF	R22	40	59.4	208.7	72.4	1.22	0.69	9.9	10.0	4.4	42.4	4.0	9.84	48	49	52	56	60	58	52	47	5753/60	125	150	35	N	3.251.0	2.235.0	2.514.0	2.116							
CH-2	AHU-3, 4, 5	AR-COOLED SCROLL COMPRESSOR	AG209FF	DAIKIN	ROOF	R22	64	82.9	291.5	100.9	1.22	0.77	13.7	10.0	4.4	48.4	4.0	9.85	48	52	55	61	61	64	54	50	5753/61	179	225	65	N	4.064.0	2.235.0	2.514.0	2.770							
CH-3	AHU-6	AR-COOLED SCROLL COMPRESSOR	AG209BF	DAIKIN	ROOF	R22	100	129.0	453.8	194.5	1.27	0.78	21.4	10.0	4.4	46.9	4.0	9.41	47	55	57	65	62	69	57	54	5753/62	267	300	65	N	5410.0	2.235.0	2.514.0	3.889							
NOTES 1. ALL CHILLERS TO BE CW CONTROL PANEL VPDS 2. CONTRACTOR TO COORDINATE THE CONTROL PANEL LOCATION BASED ON SYSTEM LAYOUT 3. CONTRACTOR TO COORDINATE THE UNIT CLEARANCE AS PER MANUFACTURER RECOMMENDATION 4. CONTRACTOR TO COORDINATE WITH STRUCTURAL DRAWINGS FOR OUTDOOR CHILLER SUPPORT																																										

EXPANSION TANK SCHEDULE													
SYSTEM	DESCRIPTION/	LOCATION	TYPE	MANUFACTURER	MODEL	SERVICE	VOLUME	TEMPERATURE		SIZE		OPERATING	REMARKS
REFERENCE	SYSTEM							MIN	MAX	DIAMETER	HEIGHT	WEIGHT	
TAG								(°C)	(°C)	(mm)	(mm)	(KG)	
ET-1	GLY-1	NORTH PENTHOUSE	BLADDER	AMTROL	200-L	GLYCOL	200	95	125	610	965	287	
ET-2	GLY-2	SOUTH PENTHOUSE	BLADDER	AMTROL	200-L	GLYCOL	200	95	125	610	965	287	
ET-3	GLY-3	CENTRAL PENTHOUSE	BLADDER	AMTROL	200-L	GLYCOL	200	95	125	610	965	287	
NOTES:	1. ASME APPROVAL 2. VERTICAL TANK 3. AMTROL OR EQUIVALENT												

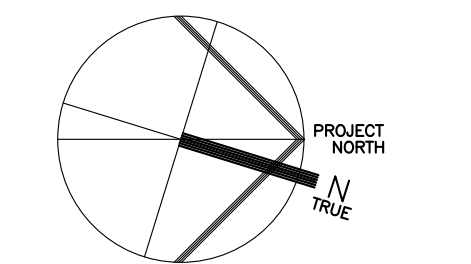
GLYCOL FILL TANK SCHEDULE									
REFERENCE TAG	SERVICE	LOCATION	MANUFACTURER	MODEL	TANK CAPACITY (L)	VOLTAGE	EMERGENCY POWER	WEIGHT (LBS)	REMARKS
GLY-1	CH-1	NORTH PENTHOUSE	ARMSTRONG	GLA-S-HP-1	200	120V/160	N	150	
GLY-2	CH-2	SOUTH PENTHOUSE	ARMSTRONG	GLA-S-HP-1	200	120V/160	N	150	
GLY-3	CH-3	CENTRAL PENTHOUSE	ARMSTRONG	GLA-S-HP-1	200	120V/160	N	150	
NOTES: 1. PRESSURE AT 125 PSI									



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