

1. DO NOT SCALE THIS DRAWING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION AND REPORT ANY DISCREPANCY TO THE DEPARTMENTAL REPRESENTATIVE.
2. CONTRACTOR SHALL INCLUDE FOR AND PROVIDE ALL CONNECTION BETWEEN THE MAINLINE AND CONDENSATE IN AND OFF SITE AS REQUIRED FOR INSTALLATION OF MECHANICAL AND ELECTRICAL SYSTEMS, WHERE MINOR REROUTING OF SERVICES IS REQUIRED DUE TO EXISTING CONDITIONS, IT SHALL BE PERFORMED AT NO ADDITIONAL COST.
3. FIRE STOP ALL PIPE PENETRATIONS WHERE THEY PASS THROUGH FIRE RATED WALLS. CONFIRM ON SITE FOR LOCATION OF RATED WALLS AND THEIR RATING IN HOURS.
4. CONFORM TO SPECIFICATIONS AND MANUFACTURER GUIDES FOR MATERIALS AND UNITS' INSTALLATION DETAILS.
5. CHECK FOR ASBESTOS BEFORE PERFORMING DEMOLITION WORK. MARSHALLS' REMOVAL TO BE COMPLETED.
6. PIPING ROUTE AND SIZING WAS DRAFTED BASED ON SIZE, WEIGHT AND DRAINAGE DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION AND REPORT ANY DISCREPANCY TO THE DEPARTMENTAL REPRESENTATIVE.
7. PROVIDE TEMPORARY HEATING AS REQUIRED. DO NOT USE NEW EQUIPMENT FOR THIS PURPOSE. CONTRACTOR SHALL EXPRESSLY INSTRUCT THE OWNER TO REFER TO DRAWING M2.
8. SCHEDULING OF ALL WORK SHALL BE ARRANGED WITH THE OWNER. COORDINATE THE SHUT-DOWN OF EXISTING UTILITIES AND SERVICES AS REQUIRED FOR CONNECTIONS OF NEW WORK. WORK DURING THE BUILDING SHUT-DOWN SHALL BE COMPLETED DURING NON-REGULAR HOURS, AND MUST CONFORM TO THE WORK RULES OF THE BUILDING, AS DIRECTED BY THE OWNER.

- 1 REMOVE AND SALVAGE FIVE EXISTING GALAXY HOT WATER BOILERS.
- 2 REMOVE INDICATED PUMP, CUT BACK STEAM AND CONDENSATE LINES AS MUCH AS POSSIBLE, REMOVING LINES WHERE ACCESSIBLE. CAP PIPES CLOSE TO PERIMETER WALLS OF ROOMS WITH REMOVAL IS NOT FEASIBLE. REFER TO DRAWING M9 FOR MORE DETAILS.
- 3 REMOVE EXISTING STACK VENT DUCT AND CHIMNEY, AND PATCH ROOF.
- 4 REMOVE CIRCULATION PUMP.
- 5 EXISTING LAB CORE SUPPLY FAN#1 AND ASSOCIATED DUCTWORK TO REMAIN.
- 6 EXISTING FUME HOOD MUA FAN#5 AND ASSOCIATED DUCTWORK TO REMAIN.
- 7 EXISTING OFFICE SUPPLY FAN#3 AND ASSOCIATED DUCTWORK TO REMAIN.
- 8 EXISTING OFFICE RETURN FAN#4 AND ASSOCIATED DUCTWORK TO REMAIN.
- 9 EXISTING PUBLIC AREA MULTIZONE FAN#26 AND ASSOCIATED DUCTWORK TO REMAIN.
- 10 EXISTING CIRCULATION PUMP AND ASSOCIATED PIPING TO REMAIN (TYPICAL).
- 11 EXISTING HEAT EXCHANGER TO REMAIN (TYPICAL).
- 12 EXISTING HEAT RECLAIM SYSTEM EXPANSION TANK TO REMAIN.
- 13 REMOVE STEAM MANIFOLDS, PREPARE FOR INSTALLATION OF NEW MANIFOLDS AND NEW GAS-TO-STEAM HUMIDIFIERS. REFER TO DRAWING M5.
- 14 EXISTING FLOOR DRAIN TO REMAIN.
- 15 REMOVE TWO STEAM PANELS INSTALLED IN MUA UNIT SUPPLY DUCTS, ASSOCIATED ACCESSORIES AND PIPING.
- 16 REMOVE COMBUSTION AIR INTAKE DUCTS AND TRAP. PREPARE FOR INSTALLATION OF NEW COMBUSTION AIR INTAKE. REFER TO DRAWING M5 FOR MORE DETAILS.
- 17 RELOCATE EXISTING CABINET WITHIN MECHANICAL ROOM. VERIFY BEST POSITION WITH DEPARTMENTAL REPRESENTATIVE.
- 18 COORDINATE REMOVAL AND INSTALLATION OF NEW SYSTEMS WITH EXISTING DUCTS AND PIPING BELOW. ALLOW FOR ADJUSTMENTS AS REQUIRED.



Association of Professional Engineers & Geoscientists  
of Saskatchewan



**CERTIFICATE OF AUTHORIZATION**  
**HDK Consulting Incorporated**  
Number 30340

Permission to Consult held by:

Discipline	Sk. Reg. No.	Signature
MECHANICAL	30273	<i>[Signature]</i>



1	ISSUED FOR CONSTRUCTION	30-JUN-2017
0	ISSUED FOR 90% REVIEW	28-APR-2017
revisions	description	date

A detail no.  
no. du detail  
 B location drawing no.  
sur dessin no.  
 C drawing no.  
dessin no.

project	projet
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**NHRC  
MECHANICAL UPGRADES  
BOILERS REPLACEMENT**

NATIONAL HYDROLOGY RESEARCH CENTRE  
11 INNOVATION BOULEVARD  
SASKATOON, SASKATCHEWAN

drawing	dessin
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## FAN ROOM EXISTING SYSTEMS AND DEMOLITION

Designed By MG	Conçu par
Date 2017/04/28	(yyyy/mm/dd)
Drawn By MG	Dessiné par
Date 2017/04/28	(yyyy/mm/dd)
Reviewed By DH	Examiné par
Date 2017/06/19	(yyyy/mm/dd)
Approved By DH	Approuvé par
Date 2017/06/23	(yyyy/mm/dd)

<p><b>ENDER</b></p> <p><b>NIKOLAS FEHR</b></p> <p>Project Manager</p>	<p><b>SOUMMISSION</b></p> <p><b>Administrateur de projets</b></p>
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EC Proj no.	Consultant Proj no.
NHRC-010	16131

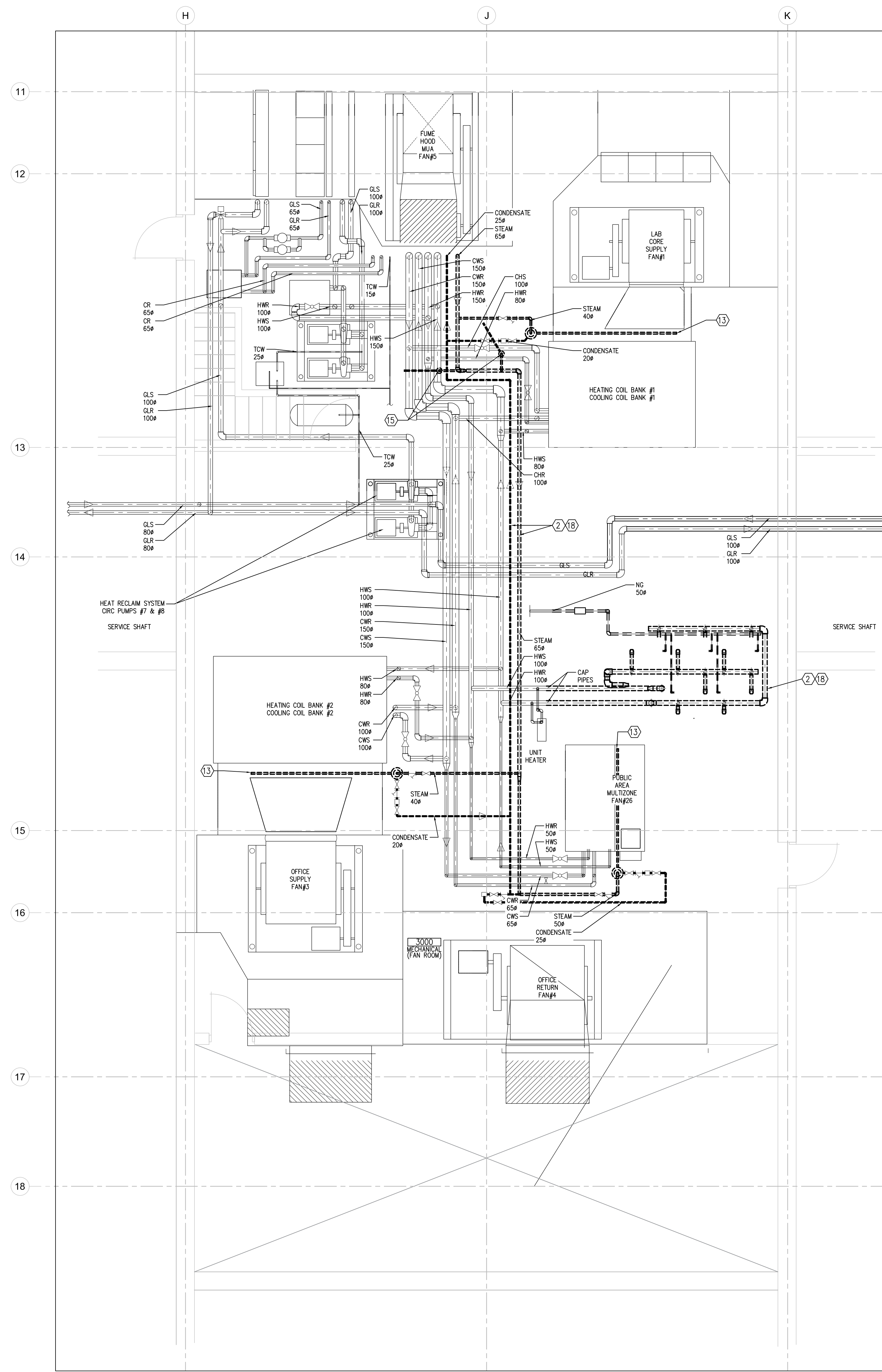
Drawing no.	No. du dessin
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M44

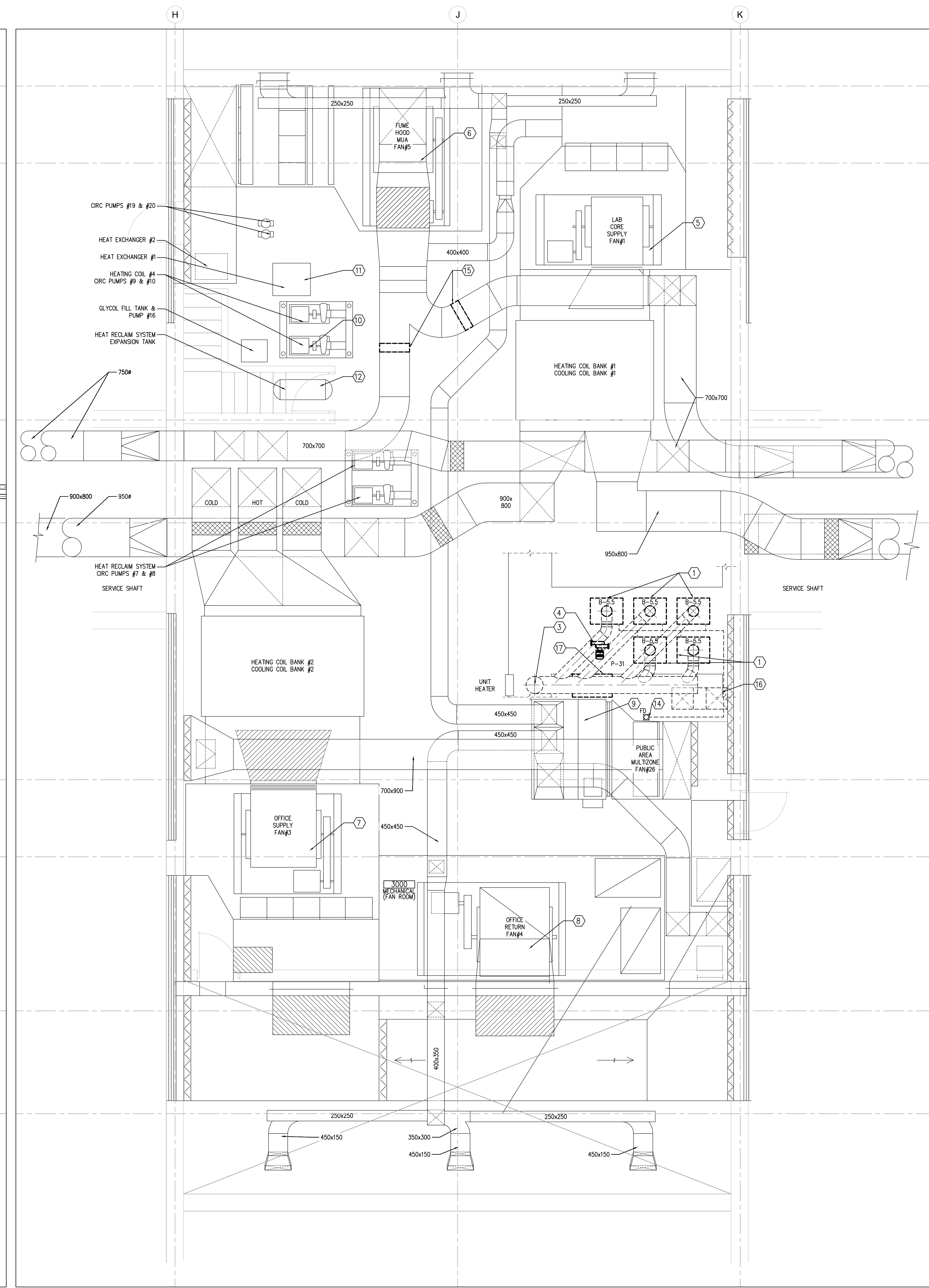
M4

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M4



1 FAN ROOM - EXISTING SYSTEMS AND DEMOLITION (PIPING)  
M4 1:50



2 FAN ROOM - EXISTING SYSTEMS AND DEMOLITION (HVAC)  
MM 1:50