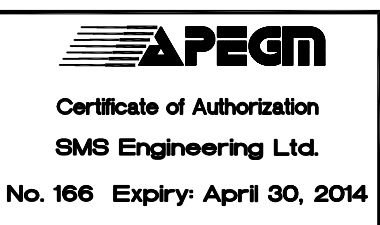


KEY PLAN



**SMS ENGINEERING**

SMS Engineering Ltd. Consulting Engineers  
770 Bradford Street Winnipeg MB Canada R3M 0K3  
Telephone: 204.775.0291 Fax: 204.772.2153  
sms@smseng.com

13-130-01

DO NOT SCALE DRAWINGS

Revised/	Description/Description	Date/Date
5		
4	Issued for Tender and Construction	Oct 10, 13
3	99% Construction Documents	Aug 30, 13
2	50% Construction Document Submission	Jul 19, 13
1	Design Development Submission	Jun 21, 13
0	Pre Design	Jun 21, 13
Revision/	Description/Description	Date/Date

Client/client

Public Works and  
Government Services  
Canada

167 Lombard Avenue  
Winnipeg, Manitoba

Project title/Titre du projet

Lab Renovations  
Morden Research Station  
Morden, Manitoba

Agriculture and Agri-Food  
Canada

Approved by/Approuvé par

CO

Designed by/Concept par

RE

Drawn by/Dessiné par

JPL

PWGSC Project Manager/Administrateur de Projets TPSC

Steve Milville

PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie, TPSC

-

Client/client

PWGSC

Drawing title/Titre du dessin

HVAC Construction Plan  
Laboratory Rooms:  
116, 118, 120, 122, 124, 126A, 126B, 128,  
175, 175-1, 176, 177, 178

Project No./No. du projet

R.059536.001

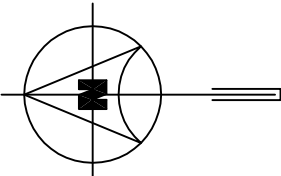
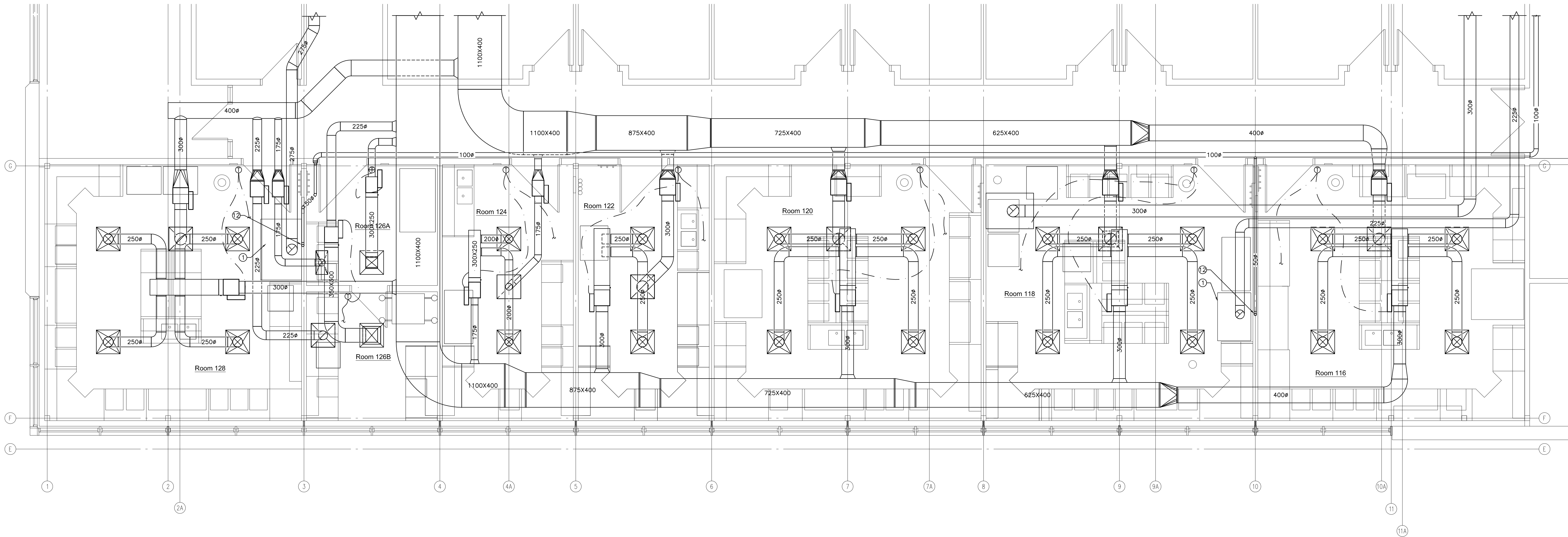
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M3.1

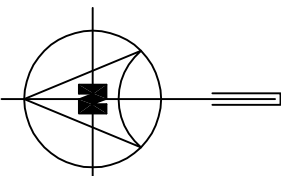
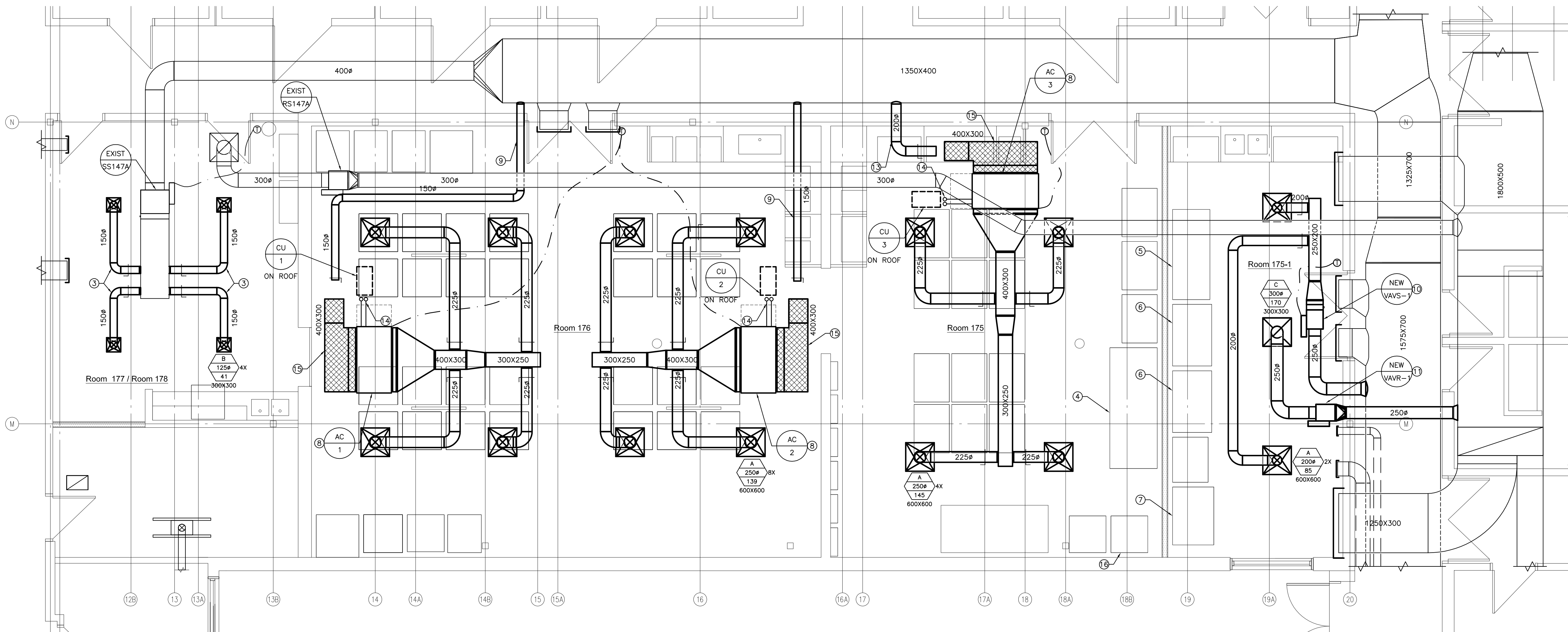
12 OF 14

Revision no./  
La Révision  
no.

4



1 HVAC MAIN FLOOR CONSTRUCTION PLAN  
SCALE: 1:50



2 HVAC MAIN FLOOR CONSTRUCTION PLAN  
SCALE: 1:50

GENERAL NOTES

- DO NOT SCALE OFF THIS DRAWING. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION AND SHALL REPORT ANY DISCREPANCY TO DEPARTMENTAL REPRESENTATIVE.
- ALL EXISTING EQUIPMENT AND ASSOCIATED PIPES AND DUCTWORK TO REMAIN UNLESS OTHERWISE NOTED.
- CONFIRM EXACT SIZES AND LOCATIONS FOR ALL EXISTING SERVICES.

KEY NOTES

- NEW CHEMICAL STORAGE (ACID, BASE, SOLVENT) CABINET BELOW EXISTING FUME HOOD (CABINET PROVIDED BY GENERAL CONTRACTOR).
- RELOCATED LAMINAR FLOW CABINET PROVIDED BY AAFIC.
- NEW SUPPLY DUCTWORK AND DIFFUSERS, TIE INTO EXISTING SUPPLY APPROXIMATELY AS SHOWN.
- RELOCATED GROWTH CHAMBER, RECONNECT EXISTING CONDENSER WATER LINES IN CRAWLSPACE AS REQUIRED.
- RELOCATED AIR FLOW CABINET PROVIDED BY AAFIC.
- RELOCATED FLOW HOOD PROVIDED BY AAFIC.
- RELOCATED CONTAINED SAFETY HOOD PROVIDED BY AAFIC.
- NEW SPLIT DX (3 TON) DUCTED FAN COIL UNIT SUSPENDED FROM STRUCTURE. CONNECT TO REMOTE OUTDOOR CONDENSING UNIT LOCATED ON ROOF ABOVE.
- NEW VENTILATION AIR DUCT (BALANCE TO 52 L/S). TIE INTO EXISTING SUPPLY MAIN APPROXIMATELY AS SHOWN. TERMINATE DUCT NEAR RETURN AIR INLET OF FAN COIL UNIT.
- NEW SUPPLY VAV AND ASSOCIATED DUCTWORK, TIE INTO EXISTING SUPPLY MAIN APPROXIMATELY AS SHOWN.
- NEW RETURN VAV AND ASSOCIATED DUCTWORK, TIE INTO EXISTING RETURN MAIN APPROXIMATELY AS SHOWN.
- RECONNECT EXISTING EXHAUST DROP TO NEW CHEMICAL STORAGE (ACID, BASE) CABINET BELOW FUME HOOD. COORDINATE EXACT CONNECTION ON SITE.
- NEW VENTILATION AIR DUCT (BALANCE TO 73 L/S). TIE INTO EXISTING SUPPLY MAIN APPROXIMATELY AS SHOWN. TERMINATE DUCT NEAR RETURN AIR INLET OF FAN COIL UNIT.
- REFRIGERANT LINES UP TO CONDENSING UNIT ON ROOF. ROOF CURB FOR CONDENSING UNIT BY ARCHITECTURAL.
- ACOUSTICALLY LINED RETURN AIR ELBOW. OPEN ENDED IN CEILING SPACE.
- RELOCATED DRYER PROVIDED BY AAFIC. CONTRACTOR TO PROVIDE NEW DRYER EXHAUST TO EXTERIOR.