

KEY PLAN

APEGA
PERMIT TO
PRACTICE
P 3979

DO NOT SCALE DRAWINGS

Revision/	Description/Description	Date/Date
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Client/client

PUBLIC WORKS &
GOVERNMENT SERVICES
CANADA

Project title/Titre du projet

EDMONTON MAXIMUM
SECURITY INSTITUTION

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Client/client
PUBLIC WORKS & GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

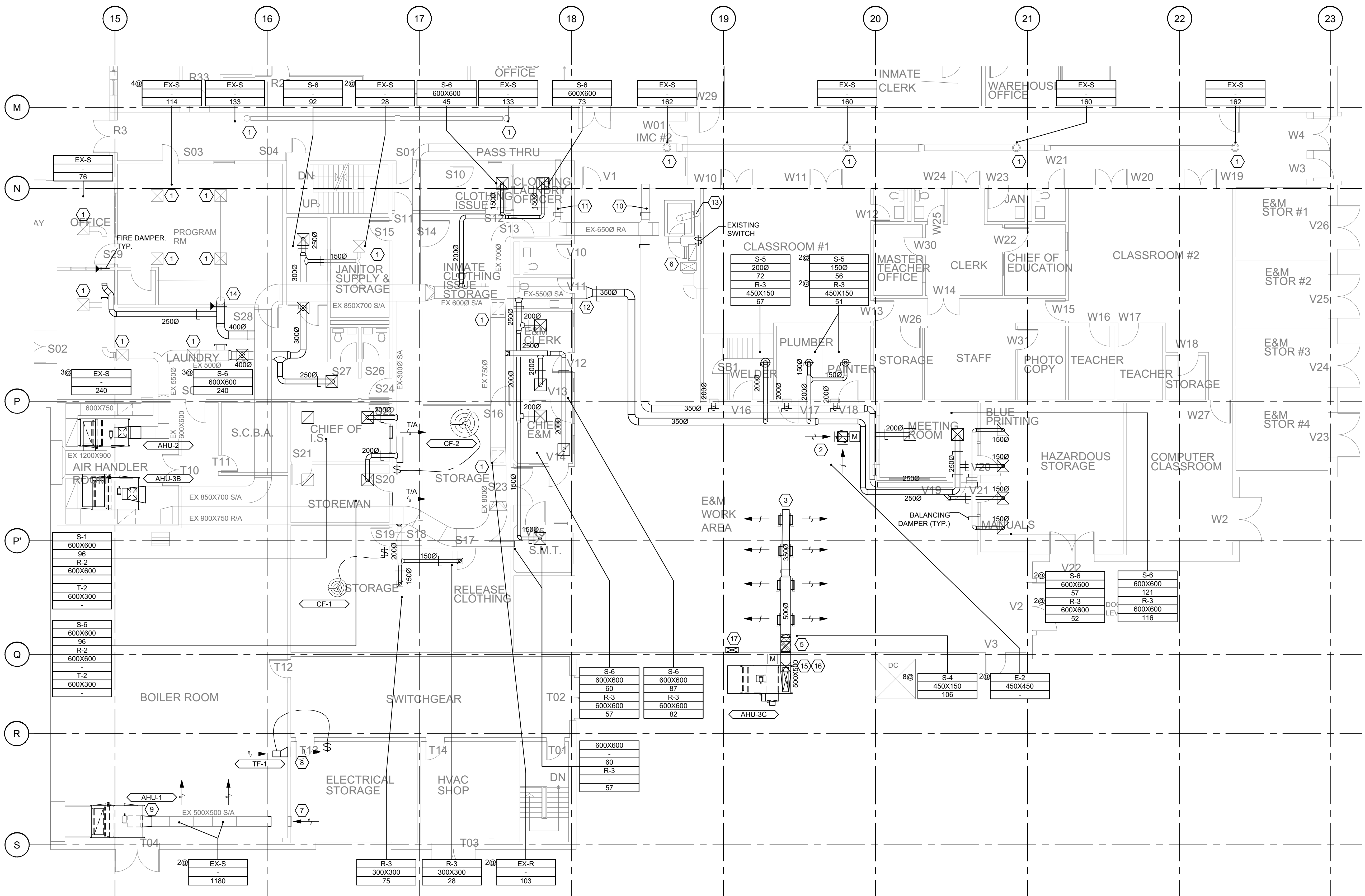
ENGINEERING, MAINTENANCE,
LAUNDRY AND EDUCATION
VENTILATION PLAN

Project No./No. du
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Sheet/Feuille
M49

Revision no./
La Révision
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OF 103



1 PLAN
M49 ENGINEERING, MAINTENANCE, LAUNDRY AND EDUCATION VENTILATION

SHEET KEY NOTES

- REBALANCE EXISTING DIFFUSER.
- 500X500 E/A DUCT WORK TO EXHAUST FAN ON ROOF. INSTALL EXHAUST GRILLES ON DUCT FACE. BOTTOM OF EXHAUST DUCT TO BE APPROX 4000mm A.F.F.
- INSTALL SUPPLY DUCTWORK BETWEEN JOISTS. JOG DUCTWORK ENTERING FROM OUTSIDE.
- SUPPLY DUCT TO BE INSTALLED 3700mm A.F.F.
- INSTALL ACOUSTIC LINED DUCT AT INTERIOR WALL PENETRATION UP TO 150mm BEFORE TRANSITION TO 500Ø.
- EXISTING DUCTWORK FROM ROOFTOP UNIT ABOVE SERVING EDUCATION AREA.
- EXISTING TRANSFER GRILLE.
- NEW TRANSFER FAN & 300X300 DUCT WORK. CONNECT TO EXISTING OPENING.
- TRANSITION AHU-1 OUTLET TO SUIT EXISTING 500X500 SUPPLY DUCT.
- BALANCE 400Ø RETURN DUCT TO 683 L/S

- BALANCE 275Ø RETURN DUCT TO 227 L/S
- TRANSITION NEW 350Ø DUCT TO EXISTING 550Ø SA DUCT.
- EXISTING 300Ø DUCT TO F-13 ON ROOF.
- RECONNECT EXISTING DUCT RISER TO MAIN.
- AIR HANDLER ON 600mm STAND. SEE STRUCTURAL DETAILS.
- INSTALL 50mm THERMAL INSULATION FROM AHU OUTLET UP TO MOTORIZED DAMPER AT PENETRATION. SUPPLY DUCT IS 500X500 FROM AHU OUTLET UP TO EXTERIOR WALL PENETRATION.
- NEW REMOTE CONTROL PANEL FOR AHU-3C. ADD INTERLOCK/RELAY TO F-13 AND EF-218 SUCH THAT ONLY ONE FAN CAN OPERATE AT A TIME. F-13 SHALL BE MANUALLY SWITCHED ON VIA EXISTING WALL SWITCH LOCATED NEAR TO FUME HOOD. EF-218 SHALL BE OPERATED AUTOMATICALLY BY REMOTE CONTROL PANEL.

GENERAL NOTES

- EXISTING DRAWING INFORMATION IS NOT AS-BUILT. CONTRACTOR TO CONFIRM EXISTING CONDITIONS AND ROUTING PRIOR TO COMMENCING WORK.
- CONSTRUCTION ACTIVITIES SHALL BE COORDINATED AND STAGED WITH THE BUILDING OPERATOR TO MINIMIZE INTERRUPTION TO OPERATIONS.
- PATCH AND REPAIR OPENINGS TO MAINTAIN FIRE SEAL.