

PEGM  
Certificate of Authorization  
HDK Consulting Incorporated  
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Revision/Revisions	Description/Description	Date/Date
0	ISSUED FOR TENDER	Sep. 12, 16

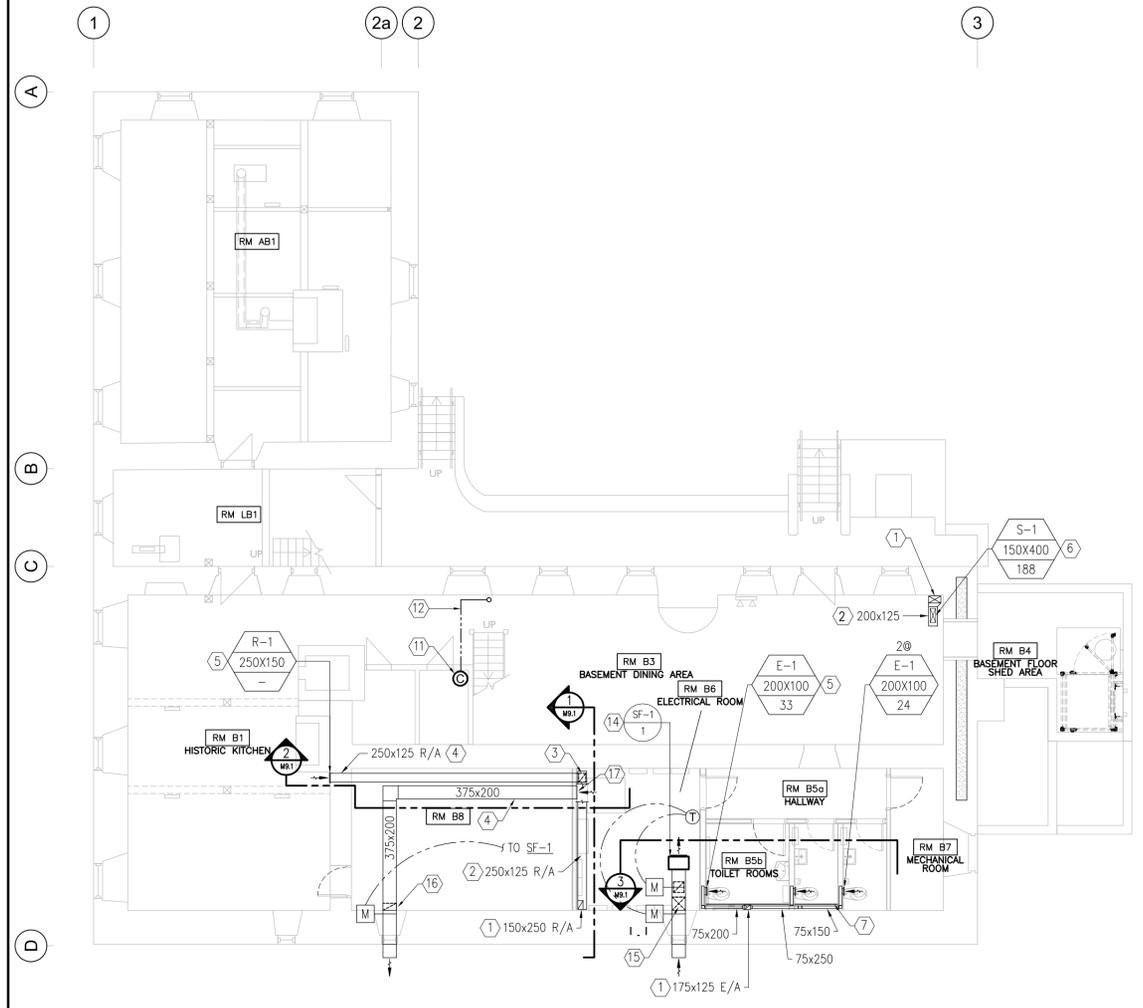
Client/client  
**Public Works and Government Services Canada**  
100 - 167 Lombard Avenue  
Winnipeg, Manitoba

Project title/Titre du projet  
**Lower Fort Garry (LFG) National Historic Site, Manitoba**  
**HERITAGE BUILDING RECAPITALIZATION**

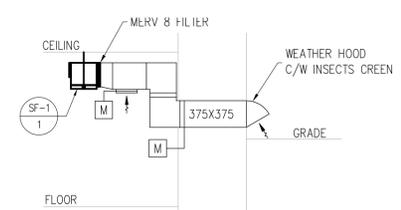
Approved by/Approuvé par  
**DH**  
Designed by/Concept par  
**PA**  
Drawn by/Dessiné par  
**IS**  
PWGSC Project Manager/Administrateur de Projets TFSGC  
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PWGSC, Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie, TFSGC  
Client/client  
**PARKS CANADA**  
Drawing title/Titre du dessin

**BIG HOUSE - BASEMENT AND MAIN LEVEL NEW VENTILATION LAYOUT**

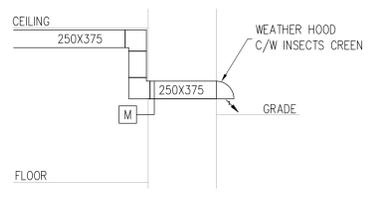
Project No./No. du projet <b>R.075212.001</b>	Sheet/Feuille <b>M4.1</b> OF 14	Revision no./La Révision no. <b>0</b>
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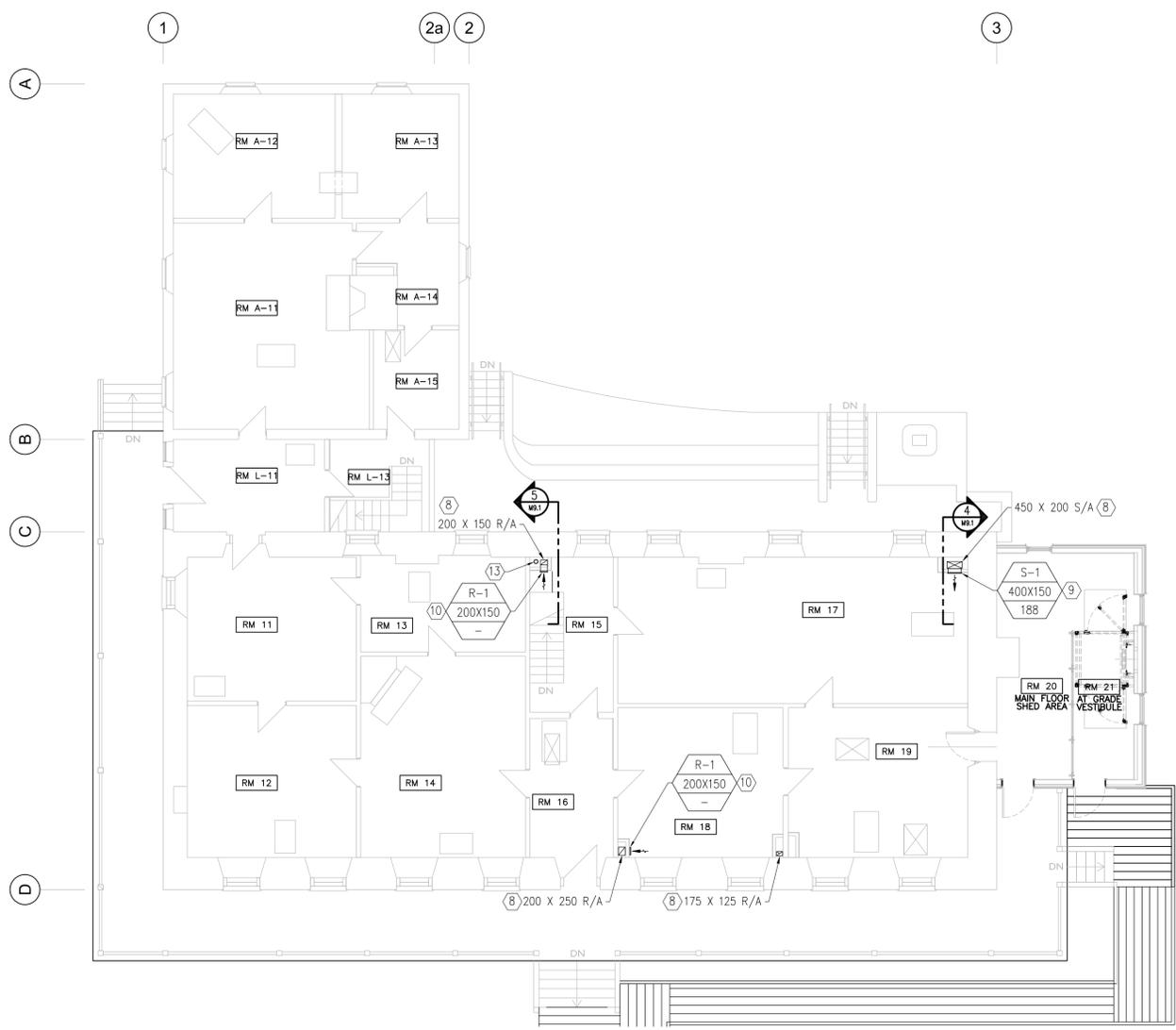
1 BIG HOUSE - BASEMENT NEW VENTILATION LAYOUT  
M4.1 1:100



3 FAN AND FRESH AIR INTAKE DUCT DETAIL  
M4.1 1:50



4 RELIEF AIR DUCT DETAIL  
M4.1 1:50



2 BIG HOUSE - MAIN LEVEL NEW VENTILATION LAYOUT  
M4.1 1:100

DRAWING KEYNOTES:

- DUCT UP TO MAIN FLOOR. JOIST SPACE MUST BE VERIFIED. IF DUCT SIZES CONFLICTS W/ EXISTING JOIST, CONTACT DEPARTMENTAL REPRESENTATIVE.
- RUN DUCT ALONG JOISTS IN BASEMENT BETWEEN JOIST SPACE. JOIST SPACE MUST BE VERIFIED AND IF THERE IS ENOUGH SPACE, CONTACT DEPARTMENTAL REPRESENTATIVE.
- OFFSET RETURN AIR DUCT TO UNDERSIDE OF CEILING.
- RUN DUCT TIGHT TO UNDERSIDE OF CEILING.
- RETURN GRILLE AT HIGH LEVEL. INSTALL AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE WITH ARCHITECTURAL.
- CEILING MOUNTED SUPPLY GRILLE. INSTALL AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE WITH ARCHITECTURAL.
- PROVIDE ARCHITECTURAL BULKHEAD. REFER TO ARCHITECTURAL.
- DUCT IN CHASE TO ATTIC SPACE. JOIST SPACE MUST BE VERIFIED. IF DUCT SIZES CONFLICTS W/ EXISTING JOIST, CONTACT DEPARTMENTAL REPRESENTATIVE.
- SUPPLY GRILLE AT LOW LEVEL. INSTALL AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE WITH ARCHITECTURAL.

- RETURN GRILLE AT LOW LEVEL. INSTALL AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE WITH ARCHITECTURAL.
- CENTRAL ERV CONTROL AT HIGH LEVEL. CONFIRM EXACT LOCATION WITH OWNER PRIOR TO MOUNTING.
- RUN HRV-1 CONTROL WIRING IN JOIST SPACE AND UP TO MECHANICAL SHAFT IN MAIN FLOOR.
- HRV-1 CONTROL WIRING UP TO ATTIC.
- SUSPEND NEW SUPPLY FAN SF-1 FROM CEILING C/W VIBRATION ISOLATORS.
- NEW 375 X 375 F/A INTAKE DUCT TO DROP DOWN TIGHT TO WALL AND THROUGH BLANKED WINDOW. TERMINATE DUCT WITH WEATHER HOOD C/W INSECT SCREEN. INSULATE ALL DUCTWORK. REFER TO DETAIL.
- NEW 375 X 200 RELIEF DUCT TO DROP DOWN TIGHT TO WALL AND THROUGH BLANKED WINDOW. TERMINATE DUCT WITH WEATHER HOOD C/W INSECT SCREEN. INSULATE ALL DUCTWORK. REFER TO DETAIL.
- OPEN-ENDED RELIEF DUCT.

GENERAL NOTES:

- DO NOT SCALE THIS DRAWING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION AND REPORT ANY DISCREPANCY TO THE DEPARTMENTAL REPRESENTATIVE.
- THE DRAWING ONLY SHOWS A GENERAL SCHEMATIC OF NEW SYSTEMS. ROUTING OF DUCTWORK AND UNITS LOCATIONS SHALL SUIT SITE CONDITIONS AND MAY HAVE TO BE CHANGED TO AVOID CONFLICTS WITH STRUCTURE, DUCTS AND PIPES. WHEN CONFLICT CANNOT BE AVOIDED, THE DUCTWORK SHALL BE MODIFIED AS REQUIRED.
- CONTRACTOR SHALL INCLUDE FOR AND PROVIDE ALL COORDINATION BETWEEN TRADES AND CONSULTANT ON AND OFF SITE AS REQUIRED FOR INSTALLATION OF MECHANICAL AND ELECTRICAL SYSTEMS. WHERE MINOR REROUTING OF DUCTWORK OR SERVICES IS REQUIRED DUE TO ONSITE CONDITIONS, IT SHALL BE PERFORMED AT NO ADDITIONAL COST.
- CONFORM TO SPECIFICATIONS AND MANUFACTURER GUIDES FOR MATERIALS AND UNITS' INSTALLATION DETAILS.
- NEW OPENINGS IN STONE MUST BE DONE W/ HAND TOOLS ONLY. REFER TO SECTION 04 03 43 - HISTORIC STONE REMOVAL. ALTERNATIVE METHODS MUST BE APPROVED BY DEPARTMENTAL REPRESENTATIVE.