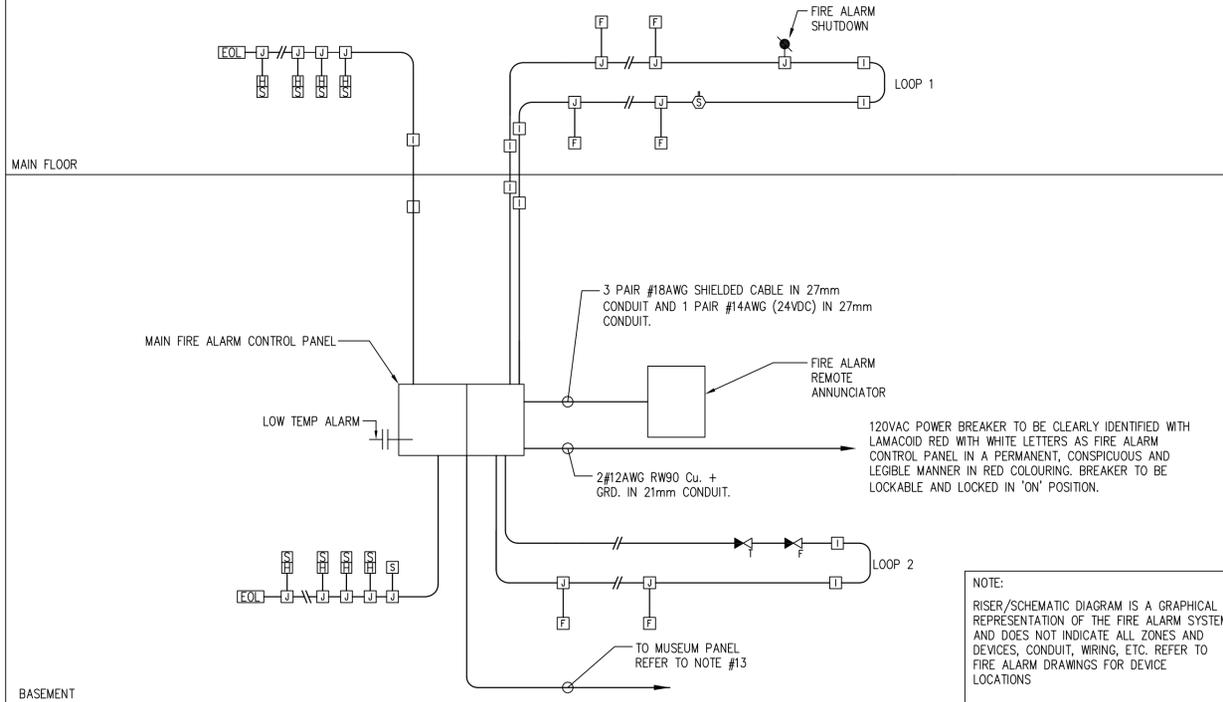


FIRE ALARM RISER DIAGRAM

BIG HOUSE



GENERAL NOTES:

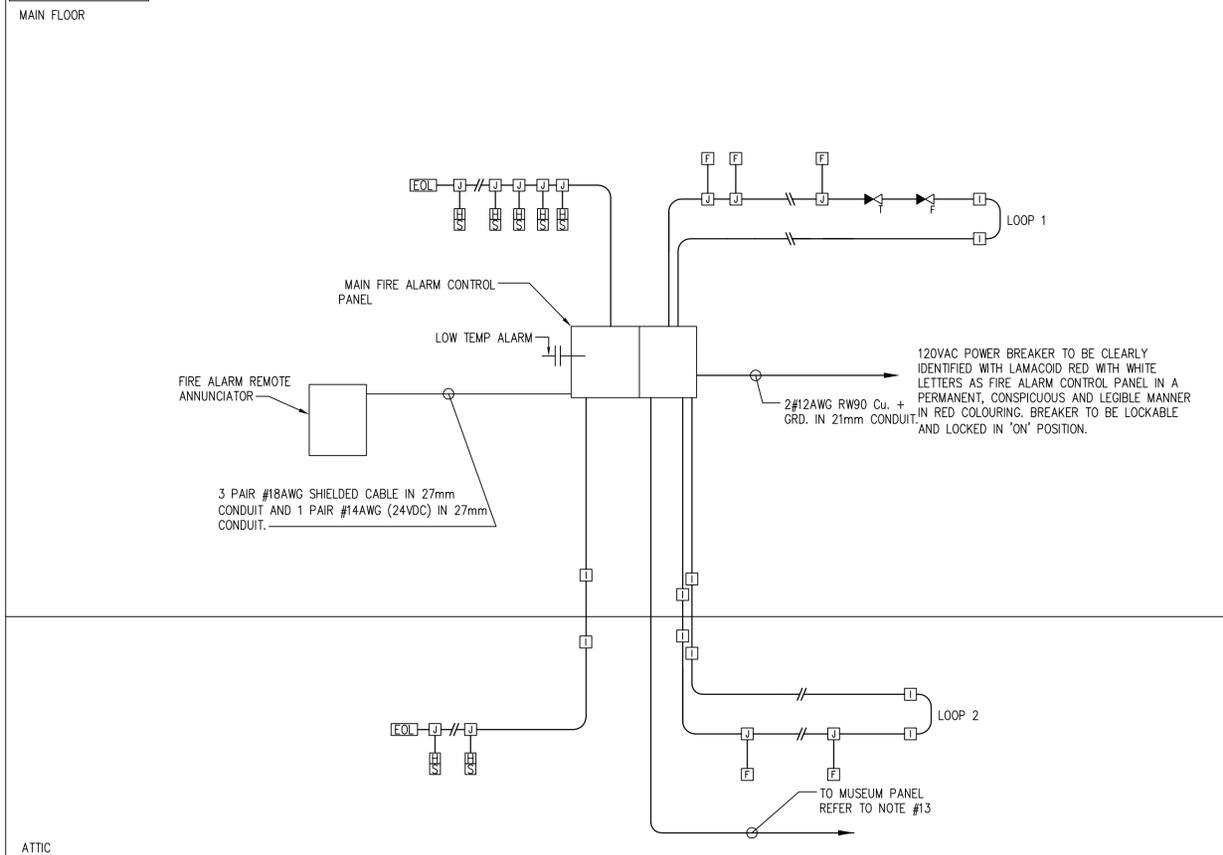
- SUPPLY, INSTALL, WIRE AND CONNECT AND GROUND IN EMT ALL REQUIRED COMPONENTS OF THE , SINGLE STAGE, NON-CODED, ADDRESSABLE FIRE ALARM SYSTEMS. SYSTEM EQUIPMENT TO BE CSA APPROVED, ULC LISTED AND INSTALLED IN ACCORDANCE WITH CAN/ULC-S524-14 AND MANUFACTURERS REQUIREMENTS.
- ELECTRICAL CONTRACTOR TO PROVIDE LOOPS TO COVER AREAS AS INDICATED IN SCHEMATIC.
- ALL WIRING FOR NOTIFICATION DEVICES TO BE WIRED IN A CLASS 'A' CONFIGURATION (RETURN LOOP CIRCUIT) AND ALL WIRING FOR SIGNALING DEVICES TO BE WIRED IN A CLASS 'B' CONFIGURATION. PROVIDE SEPARATE CONDUIT SYSTEM FOR EACH LOOP.
- ALL FIRE ALARM WIRING TO BE RUN IN MINIMUM 21mm EMT.
- ELECTRICAL CONTRACTOR TO PROVIDE FAULT ISOLATION MODULES WHEN ENTERING AND LEAVING EACH FIRE RATED ZONE PER NATIONAL BUILDING CODE. THIS DIAGRAM IS FOR SCHEMATIC PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADDITIONAL MODULES AS REQUIRED WHETHER SHOWN OR NOT IN ORDER TO ACCOMMODATE THE ACTUAL NUMBER OF DEVICES AND ROUTING OF WIRING. EACH ISOLATION MODULE TO BE CLEARLY LABELED WITH A RIVETED LAMACOID AND READILY ACCESSIBLE FOR INSPECTION. ISOLATION MODULES ARE NOT TO BE INSTALLED ABOVE SUSPENDED CEILINGS. AS BUILT DRAWINGS TO REFLECT THE LOCATION OF EACH ISOLATION MODULE.
- THE OPERATION OF ANY MANUAL PULL STATION OR DETECTION TYPE DEVICE TO TRIP THE FIRE ALARM CONTROL PANEL CAUSING IT TO GO INTO ALARM. ALL FIRE ALARM SIGNALING DEVICES TO SOUND CONTINUOUSLY UNTIL THE SYSTEM IS MANUALLY RESET AT THE CONTROL PANEL.
- SUPPLY AND INSTALL SMOKE DUCT DETECTORS TO AIR HANDLING UNITS' SUPPLY DUCTS AS REQUIRED BY CODE.
- WIRE AND CONNECT AIR HANDLING AND MAKE-UP AIR UNITS TO FIRE ALARM PANEL FOR FAN SHUTDOWN AS REQUIRED BY CODE.
- ELECTRICAL CONTRACTOR TO INCLUDE ALL COSTS ASSOCIATED WITH SETTING-UP, TESTING AND THE VERIFICATION OF THE FIRE ALARM SYSTEM. THE MANUFACTURER WITH THE ASSISTANCE OF THE ELECTRICAL CONTRACTOR AND THE DEPARTMENTAL REPRESENTATIVE TO PERFORM A COMPLETE FIRE ALARM VERIFICATION AFTER THE INSTALLATION HAS BEEN COMPLETED. A CERTIFICATE OF VERIFICATION AND A COMPLETE REPORT SHALL BE SENT TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW. THE ENTIRE FIRE ALARM SYSTEM AND INSTALLATION SHALL CARRY A ONE (1) YEAR WARRANTY FROM THE DATE OF SUBSTANTIAL COMPLETION.
- THE ENTIRE INSTALLATION TO BE TO THE FULL SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
- PROVIDE ALL REQUIRED TROUBLE INDICATION FOR TAMPER SWITCHES, LOW PRESSURE SWITCHES, FLOW PRESSURE SWITCHES AND AIR SUPERVISORY SWITCHES.
- ALL SPRINKLER SUPERVISED ZONES SHALL BE CONNECTED TO A "LATCHING" TYPE SUPERVISED CIRCUIT IN FACP.
- CONNECT NEW FIRE ALARM CONTROL PANEL TO EXISTING U/G CABLE. CONTRACTOR TO TEST CABLE TO DETERMINE THE BEST POSSIBLE PAIR AND IF REQUIRED, PROVIDE LINE CONDITIONERS.
- ALL SPRINKLER FLOW, TAMPER AND AIR PRESSURE SWITCHES TO HAVE INDIVIDUAL ADDRESS.

SYMBOL SCHEDULE

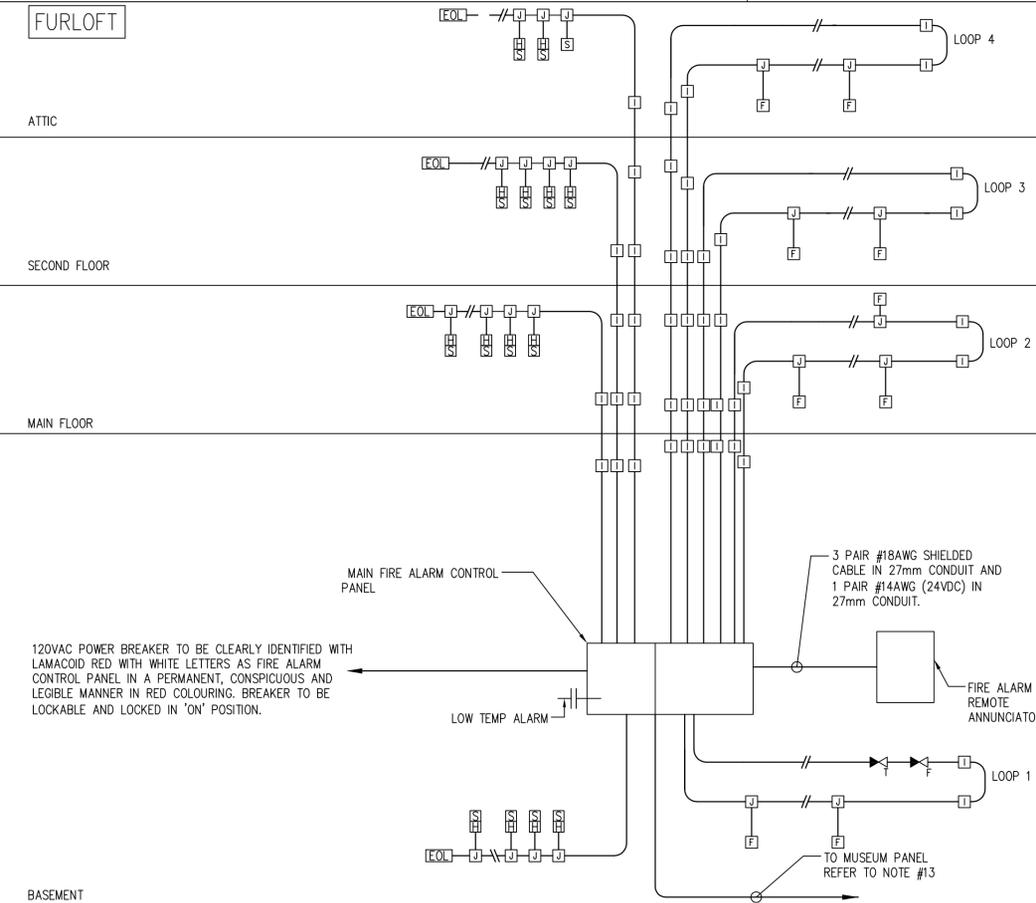
- ⊙ SMOKE DETECTOR
- ⊙ SMOKE DUCT DETECTOR
- ⊙ HORN/STROBE
- ⊙ MANUAL PULL STATION
- ⊙ JUNCTION BOX
- ⊙ SPRINKLER SUPERVISORY SWITCH  
A - AIR  
T - TAMPER  
F - PRESSURE
- ⊙ ISOLATION MODULE
- ⊙ END OF LINE DEVICE
- DW BLACK DUCTWORK

NOTE:  
RISER/SCHEMATIC DIAGRAM IS A GRAPHICAL REPRESENTATION OF THE FIRE ALARM SYSTEM AND DOES NOT INDICATE ALL ZONES AND DEVICES, CONDUIT, WIRING, ETC. REFER TO FIRE ALARM DRAWINGS FOR DEVICE LOCATIONS

MEN'S HOUSE



FURLOFT



APEGM  
Certificate of Authorization  
HDK Consulting Incorporated  
No. 5539 Date: 04/30/2017

0	ISSUED FOR TENDER	Sept. 12, 16
---	-------------------	--------------

Revision/	Description/Description	Date/Date

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/Approve par  
HCC

Designed by/Concept par  
PL

Drawn by/Dessine par  
RD  
PWSC Project Manager/Administrateur de Projets TPSC  
CHRISTINA KOVACS

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

Client/client  
PARKS CANADA

Drawing title/Titre du dessin

**FIRE ALARM RISER DIAGRAM**

Project No./No. du projet <b>R.075212.001</b>	Sheet/Fauille <b>E18</b> OF 24	Revision no./ La Révision no. <b>0</b>
--	--------------------------------------	--