



NOTES:

- ISOLATION MODULES ARE SHOWN FOR DESIGN PURPOSES, BUT WHERE MANUFACTURER'S HAVE ISOLATION BASES THAT CAN BE UTILIZED WITH THE SMOKE AND HEAT SENSORS; THE INDEPENDENT ISO MODULE CAN BE REMOVED AND INTEGRATED WITH THE SENSORS TO MAINTAIN THE DESIGN AND CODE INTENT.
- EXTEND 2C/#18 (FAS) CABLE IN CONDUIT FROM THE CONTROL MODULE TO THE BUILDING'S DDC. THIS CONTROL MODULE AND CIRCUIT SHALL PROVIDE CONTACT OUTPUT TO THE DDC FOR DETECTION OF (CO) CARBON MONOXIDE IN THE LOCAL AREA FOR ACTIVATION OF THE LOCAL HVAC EQUIPMENT.
- EXTEND 2C/#18 (FAS) CABLE IN CONDUIT FROM THE CONTROL MODULE TO THE BUILDING DDC. THIS CONTROL CIRCUIT SHALL PROVIDE FEEDBACK TO THE FA SYSTEM THAT THE HVAC EQUIPMENT IS RUNNING.
- FIRE ALARM SYSTEM TO BE A FULL ADDRESSABLE SYSTEM.
- CONTRACTOR SHALL WIRE ALL FIRE ALARM SYSTEM ADDRESSABLE CIRCUITS WITH A CLASS 'A' ORIENTATION. NO ADDRESSABLE LOOP CIRCUIT SHALL BE LOADED MORE THAN 80% PER CIRCUIT.
- CONTRACTOR SHALL PROVIDE AN ISOLATION MODULE ON EACH SIDE OF A FIRE SEPARATION WALL TO ENSURE SHORT CIRCUIT ISOLATION IS PRESENT THROUGHOUT ENTIRE LOOP CIRCUIT.
- RISER DIAGRAM IS DIAGRAMMATICAL ONLY. WIRING PATH AND CONNECTIONS BETWEEN DEVICES TO BE AS REQUIRED TO SUIT THE LOCATION OF DEVICES IN THE FIELD. QUANTITY OF DEVICES INSTALLED PER ADDRESSABLE LOOP SHALL BE CONFIRMED WITH SIMPLEX REQUIREMENTS AND POWER LOAD.
- PROVIDE A NETWORKED CONNECTION BETWEEN THE ANNUNCIATOR AND THE MAIN FIRE ALARM CONTROL PANEL.
- ALL FIRE ALARM DEVICES SHALL BE INSTALLED AS PER CAN/ULC S524 AND FULL VERIFICATION AS PER CAN/ULC S537.
- FIRE ALARM WIRING SHALL BE MINIMUM #18 TYPE RW90 FOR DETECTION CIRCUITS AND MINIMUM #14 RW90 FOR NOTIFICATION CIRCUITS. ALL WIRING SHALL BE FREE OF GROUNDS AND SHORTS. APPROVED FIRE ALARM CABLE CAN BE USED WITH FT RATING AS REQUIRED FOR PARTICULAR TYPE OF CONSTRUCTION.
- ALL FIRE ALARM INTERLOCKS WITH OTHER EQUIPMENT (RECIRCULATING AIR EQUIPMENT, MAGNETIC DOOR HOLDERS, ETC.) AS SHOWN AND/OR REQUIRED SHALL BE TESTED AND CLEARLY INDICATED ON FIRE ALARM VERIFICATION REPORT. VERIFY ALL REQUIRED INTERLOCKS AND SEQUENCE OF OPERATION WITH CONTRACT ADMINISTRATOR BEFORE FINAL PROGRAMMING.
- FIRE ALARM VERIFICATION REPORT AND CERTIFICATE OF VERIFICATION SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR FOR REVIEW AND APPROVAL.
- ALL BREAKERS REQUIRED FOR THE NEW FIRE ALARM SYSTEM SHALL BE PAINTED RED AND BE LOCKABLE IN THE 'ON' POSITION. ALL JUNCTION BOX COVERS SHALL BE PAINTED RED AND LABELED WITH A PERMANENT MARKER ITS FUNCTION.
- THE CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS FOR ALL INSTALLATIONS.
- ALL ISOLATION MODULES SHALL BE INSTALLED IN SEPARATE ENCLOSURES (EXCEPT WHERE NOTED OTHERWISE) AND BE LOCATED IN ACCESSIBLE AND VISIBLE LOCATIONS.
- CONTRACTOR SHALL PROVIDE A DETAILED 'AS BUILT' MARKED UP DRAWING ON COMPLETION OF THE PROJECT. THIS DRAWING SHALL SHOW THE LOCATIONS AND TYPES OF ALL THE DEVICES INVOLVED IN THE FIRE ALARM SYSTEM INCLUDING ALL INITIATING DEVICES, ANCILLARY DEVICES, SIGNALING DEVICES, AND ALL OTHER EQUIPMENT SUCH AS MODULES, RELAYS, ELECTRICAL PANELS, AND CIRCUIT NUMBERS.
- CONTRACTOR SHALL MARK-UP THE RISER DIAGRAM IDENTIFYING ANY CHANGES MADE IN THE FIELD AND INDICATE THE ASSIGNED ADDRESSES OF ALL THE COMPONENTS.
- PROVIDE AND INSTALL A MIRCON FX2000 FIRE ALARM PANEL.

| issue / rev. | date       | issue notes             |
|--------------|------------|-------------------------|
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**project information**  
**SEVEN OAKS POOL RENOVATION & ADDITION**  
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 Winnipeg, MB  
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**drawing information**  
 City of Winnipeg  
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**ELECTRICAL FIRE ALARM RISER DIAGRAM**  
 drawn by: RAH  
 approved by: [Signature]  
 scale: AS NOTED  
 date issued: 2016.11.23  
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**1 FIRE ALARM RISER**  
 N.T.S.

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