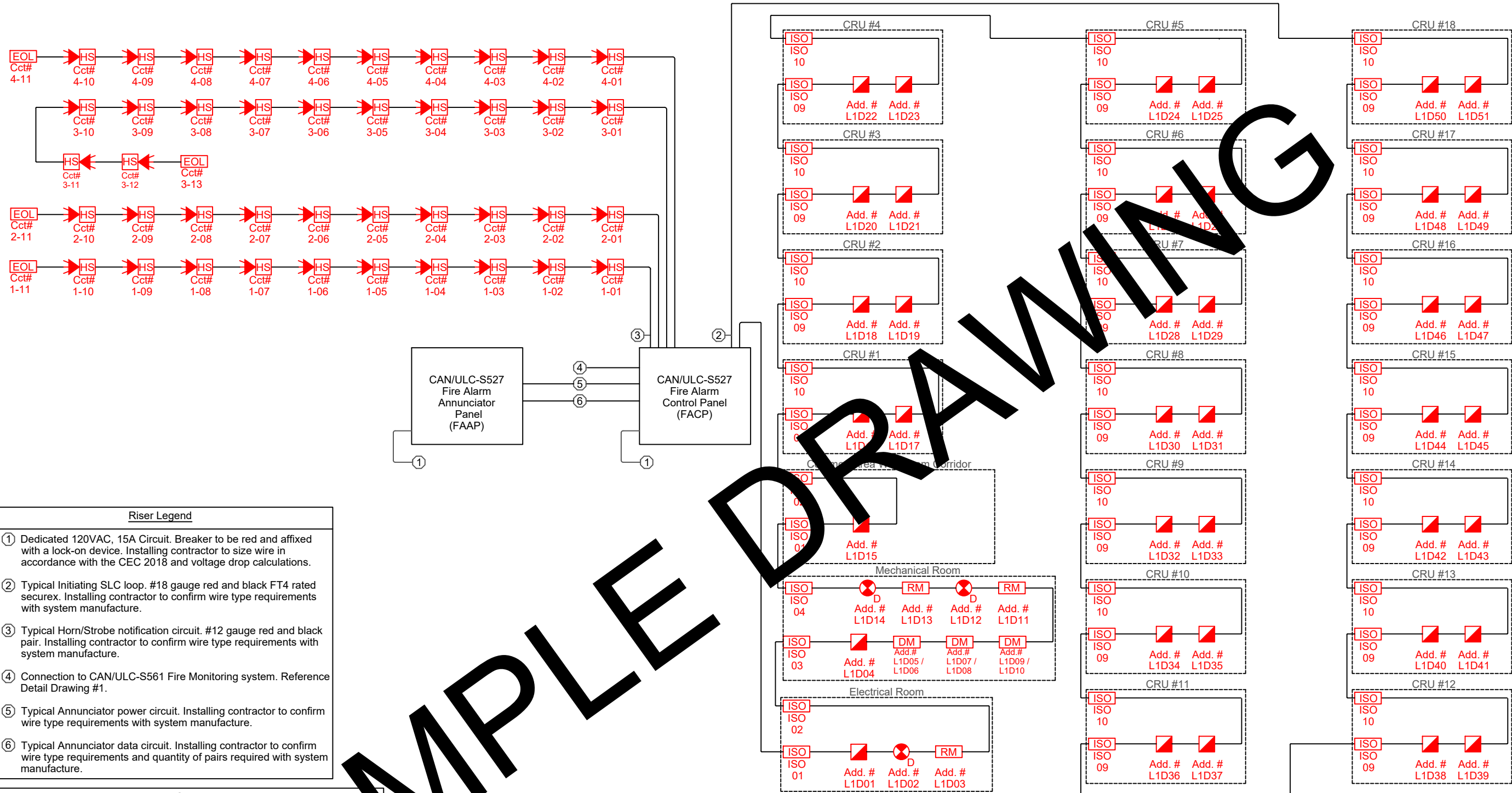


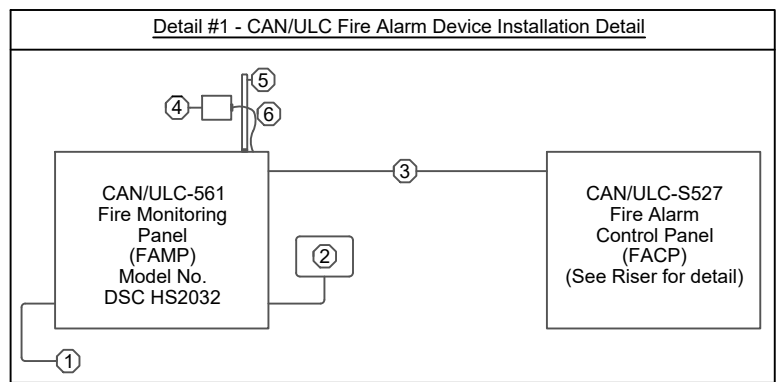
Fire Alarm System Riser Detail



- Riser Legend**
- ① Dedicated 120VAC, 15A Circuit. Breaker to be red and affixed with a lock-on device. Installing contractor to size wire in accordance with the CEC 2018 and voltage drop calculations.
 - ② Typical Initiating SLC loop. #18 gauge red and black FT4 rated securex. Installing contractor to confirm wire type requirements with system manufacture.
 - ③ Typical Horn/Strobe notification circuit. #12 gauge red and black pair. Installing contractor to confirm wire type requirements with system manufacture.
 - ④ Connection to CAN/ULC-S561 Fire Monitoring system. Reference Detail Drawing #1.
 - ⑤ Typical Annunciator power circuit. Installing contractor to confirm wire type requirements with system manufacture.
 - ⑥ Typical Annunciator data circuit. Installing contractor to confirm wire type requirements and quantity of pairs required with system manufacture.

- Riser General Notes**
1. Initiating circuit shall be wired Class A and fault isolated in accordance to CAN/ULC-S524-14 ADM1.
 2. Notification circuits shall be wired Class B.
 3. Outdoor Annunciator panel FAAP shall be listed for weather proof applications and be equipped with 120VAC heaters to maintain operation during winter months.
 4. Installing contractor to size all conductors in accordance with CEC 2018, voltage drop calculations and manufacturer's recommendations.
 5. Required cable conductor counts referenced above do not include a ground/bond. Installing contractor shall provide grounding/bonding in accordance with CEC 2018.
 6. Three separate dedicated 120VAC 15A circuits are required as follows:
 - 6.1. Fire Alarm Control Panel (FACP)
 - 6.2. Fire Alarm Monitoring Panel (FAMP)
 - 6.3. Fire Alarm Annunciator heater (FAAP)
 - 6.4. Installing contractor shall as-built panel and circuit numbers for each.

- Detail #1 Legend**
- ① Dedicated 120VAC, 15A Circuit. Breaker to be red and affixed with a lock-on device. Installing contractor to size wire in accordance with the CEC 2018 and voltage drop calculations.
 - ② System keypad. Minimum 4 conductor 22 gauge cable.
 - ③ Connection to building Fire Alarm Control Panel. Minimum 6 conductor 22 gauge cable.
 - ④ Connection to telephone demarc. Minimum CAT6 cable.
 - ⑤ Cellular antenna. Panels right side upper front knock out position is reserved for antenna connection. Minimum clearance of 1' from top of panel is required to allow adequate space for antenna.
 - ⑥ Monitoring panel phone jack and connection cable. Jack to be secured to the wall with a screw. Double sided tape is not permitted.



- Detail #1 General Notes**
1. All circuits shall be installed in metal conduit or armoured cabling.
 2. Monitoring communication to be comprised of a Passive communication method utilizing a LTE cellular communicator and a phone line.
 3. All events including fire alarm are to be transmitted to the central station via both communication methods.
 4. Required cable conductor counts referenced above does not include a ground/bond. Installing contractor shall provide grounding /bonding in accordance with CEC 2018.



Regina, Sk.
S4S 4H5
Phone: 306-531-5512
E-mail: brett.roach@brdesignsask.ca

Certificate of Authorization:

Professional Seal:

Project Name:
SAMPLE - Complete Fire Alarm Design of a Standard Strip Mall Style Building

Drawing Title:
SAMPLE - Fire Alarm System Riser Diagram

SCALE: NTS APPROVED BY: xxx

BR	Issued for Sample	01/01/01
By	Drawing Revision	Date

Drawing #: **FA-02** Revision #: **0**