1. GENERAL

1.01 SECTION INCLUDES

.1 Fire alarm signal for elevator car homing relays.

1.02 RELATED REQUIREMENTS

.1 Division 14 – Conveying Equipment: Elevators.

.2 Section 26 05 83.14 – Wiring Connections for Elevators.

.3 Section 28 46 13 –Fire-Alarm Systems.

.4 Section 28 46 31 – Fire-Alarm Initiating Devices: spot smoke detectors.

.5 Section 28 46 31.12 - Linear Heat Detection Sensors.

1.03 WORK NOT DESCRIBED IN THIS SECTION

.1 Elevator control wiring, down drop cables, and interlock controls and wiring.

1.04 REFERENCES

.1 CSA B44:19, Safety code for elevators and escalators (Bi-national standard, with ASME A17.1).

.1 CSA C22.1:21, Canadian Electrical Code, Part 1 (25th Edition), Safety Standard for Electrical Installations.

.2 Ontario Electrical Safety Code (28th edition/2021).

.1 OESC Section 38: Elevators, dumbwaiters, material lifts, escalators, moving walks, lifts for person with physical disabilities, and similar equipment.

.3 Ontario Building Code.

.4 CAN/ULC-S1001-11, Standard for Integrated Systems Testing of Fire Protection and Life Safety Systems.

.5 ULC-S527 – Control Units for Fire Alarm Systems.

1.05 DELIVERY, STORAGE, AND HANDLING

.1 Separate waste materials for reuse and recycling in accordance with Section 01 74 19.

2. PRODUCTS

2.01 DETECTION DEVICES

.1 Linear heat detection cable at top and bottom of elevator hoistway to Section 28 46 31.12.

.2 Smoke detectors at elevator lobbies and elevator machine room to Section 28 46 31.

2.02 INTELLIGENT FIRE ALARM RELAY MODULE

.1 Basis of Design: Mircom intelligent six-relay control module, model number CR-6, or equal to suit manufacturer of fire alarm system.

.2 Addressable relay modules are intended for use in an intelligent fire alarm system and shall allow a compatible control panel to switch discrete contacts by code command. The control module shall provide the required quantity of isolated sets of Form-C contacts, which operate as a double-pole double-throw switches. The module shall allow the control panel to switch these contacts on command. Module shall have both normally open and normally closed connections available for field wiring.

.3 Each module shall have its own address.

.4 Each module responds to regular polls from the system and reports its type and status. Each module address shall have an associated LED that is controlled by the panel to indicate module status. Coded signals, transmitted from the panel, can cause the LED to blink, latch on, or latch off. Refer to the control panel technical documentation for module LED status operation.

.5 Wiring terminals shall be easily accessible for troubleshooting while installed.

3. EXECUTION

3.01 INSTALLATION

.1 In accordance with Reference Standards.

3.02 SITE TESTS AND INSPECTIONS

.1 Install smoke detectors, heat detectors, and relays in accordance with CAN/ULC-S524.

.2 Verify to CAN/ULC-S536.

.3 Provide functional testing in accordance with CAN/ULC-S1001 including elevator automatic recall.

End of Section