

Power:

1. A minimum of (4) electrical outlets and (4) 4" X 4" 120 VAC Electrical boxes are required in Room 501 (Electrical room) on a wall to power security hardware. The wall where security hardware (door controllers, Data Rack and Intrusion panel) to be mounted must be free of any high voltage cables or panels.
2. A minimum of two (QTY 2) 3 Inch conduit to be installed in Electrical room above the location of the CCTV data rack, controllers and Intrusion system to be used as a raceway. Building and fire code guidelines to be followed.
3. An electrical outlet will be required to provide power to a network switch that will be in the General Office Room 201. The outlet should be mounted above the ceiling tile on an exterior wall.

CCTV:

1. Cabling for all exterior and interior cameras using CAT5 cables.
2. All Camera cables to be terminated at each end
3. A Cat5 cable qualification test and report are required for each camera cable.
4. Cabling to be run with J-hooks along walls and corridors
5. All cables to be identified at the switch location.
6. All cables to have a minimum of 6 feet of spooled cable at the camera location and 15 feet spooled at the switch location (main data room and network switch location)
7. Cameras 03, 04, 05, 06, 09, 10, 11 and 12 will terminate in the electrical room above the location of the data rack.
8. Cameras 01, 02, 07 and 08 to be terminated above the ceiling in room 201 at the location of the network switch.
9. A CAT5 network cable will need to be run from the network switch in room 201 to the data rack location in room 501

Intrusion:

Cables to have a 10 ft spool at the device location and 15 ft spooled at the panel location to allow security technician flexibility for device installation.



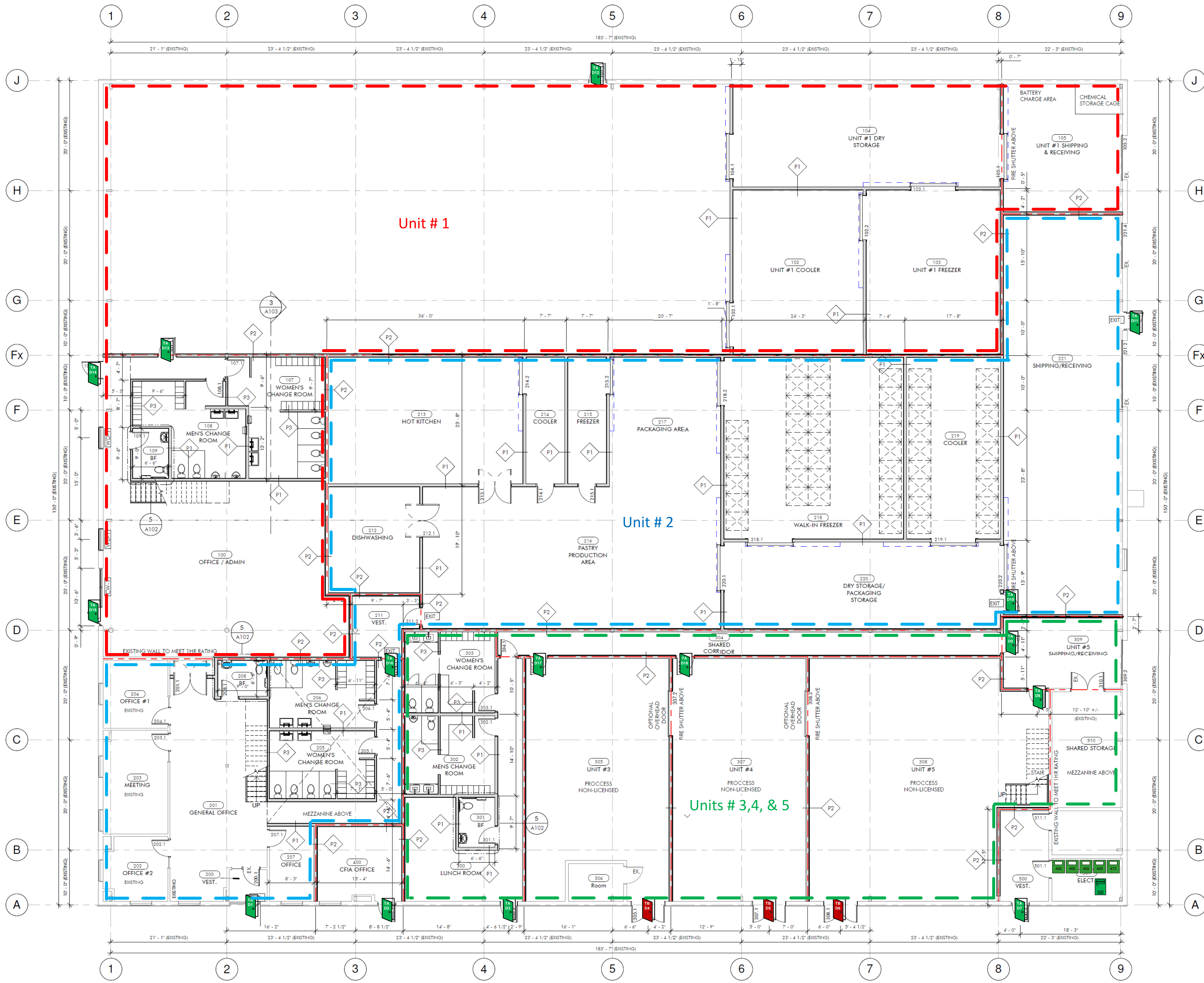
**204 Brownlow Ave  
Unit 135  
Dartmouth, NS  
B3B 0M4**

Borden Carleton Food Incubator Security  
Cabling Requirements.vsdX

**Cabling Requirements**

Drawn By:	RD
Date Created:	2022-07-08
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Note:  
 Typical 1" conduit for Access Control doors would start at the height of the roof trusses and turn down to extend vertically down the wall to the devices (junction Box) below. Horizontal cable runs in the ceiling space aren't typically protected in conduit unless otherwise stated.



Legend	
	Access Control Door Type "A" Read In Electric Strike
	Access Control Door Type "B" Read In Electric Strike Double Door
	Access Control Panel
	Access Control Server
	Intercom Master Station
	Intercom Door Station
	Intercom Video Door Station

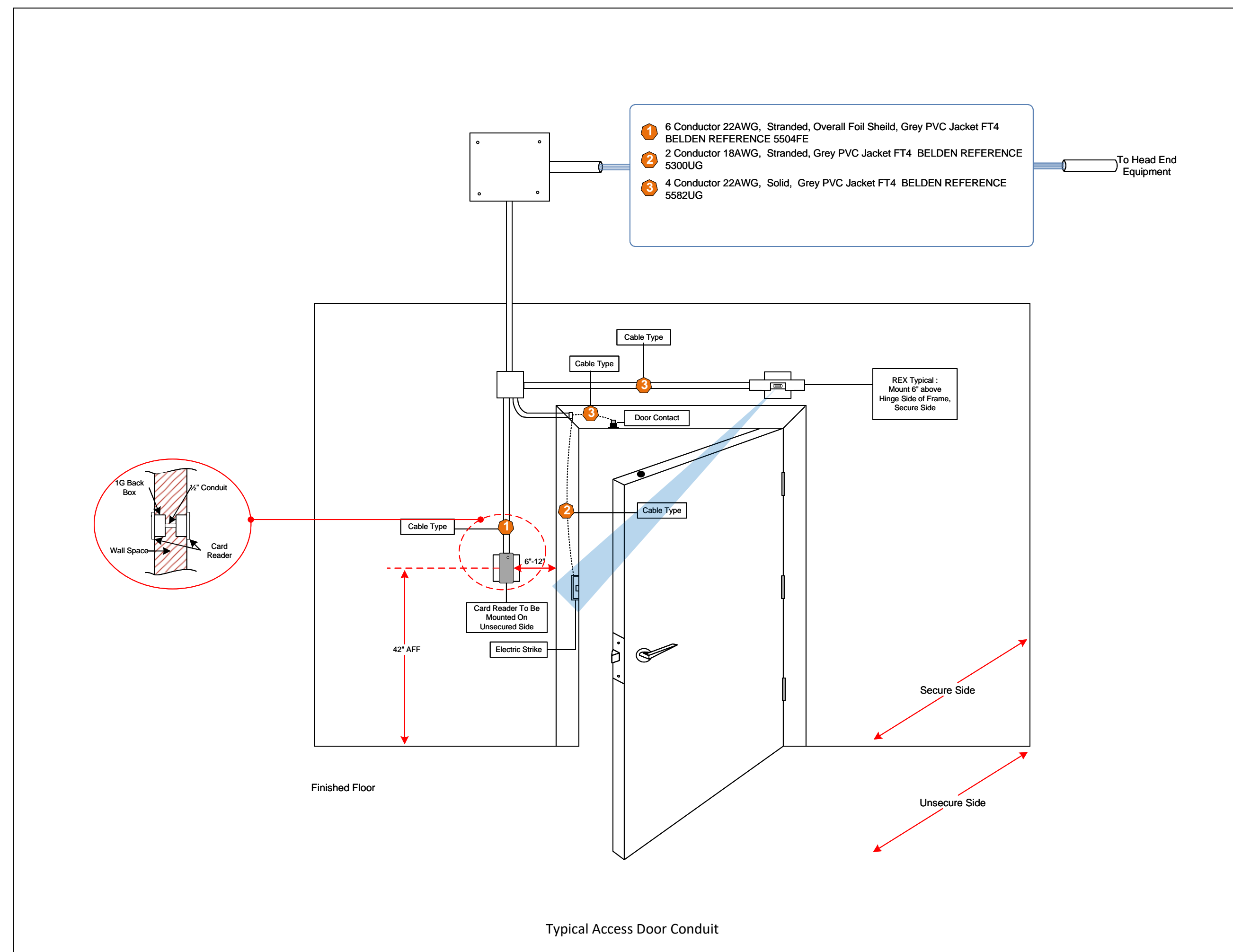
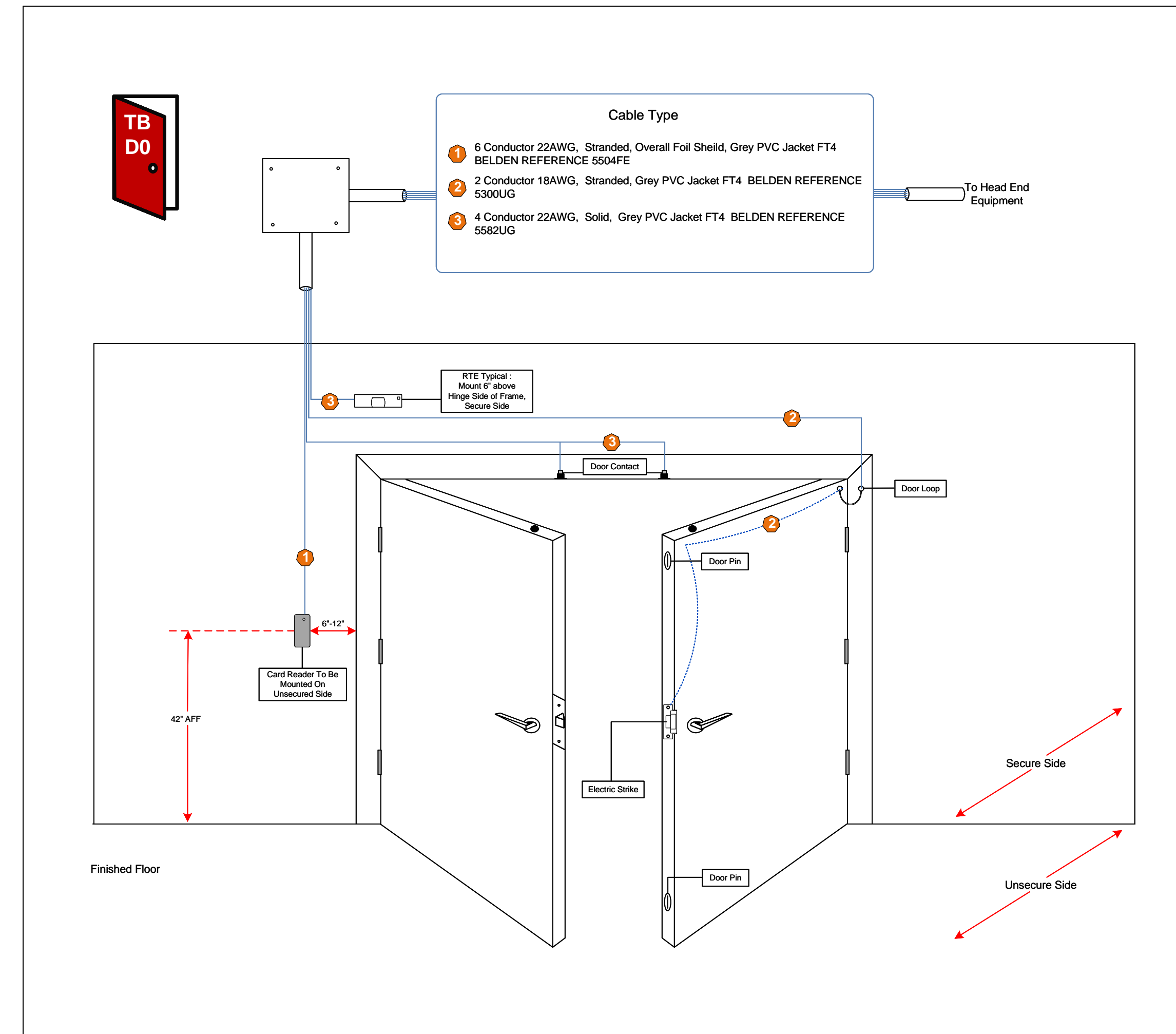
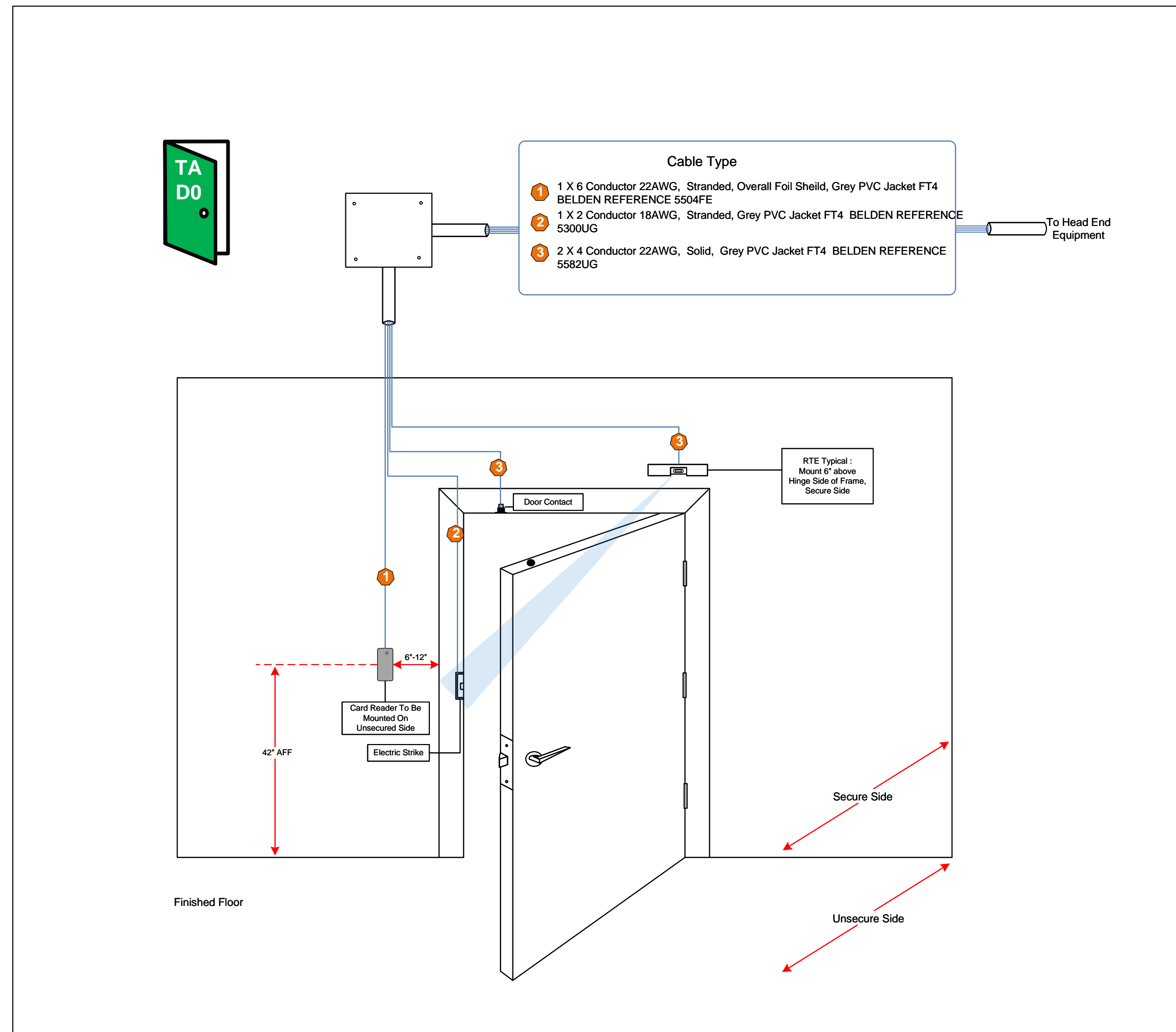


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**Access Control Layout**

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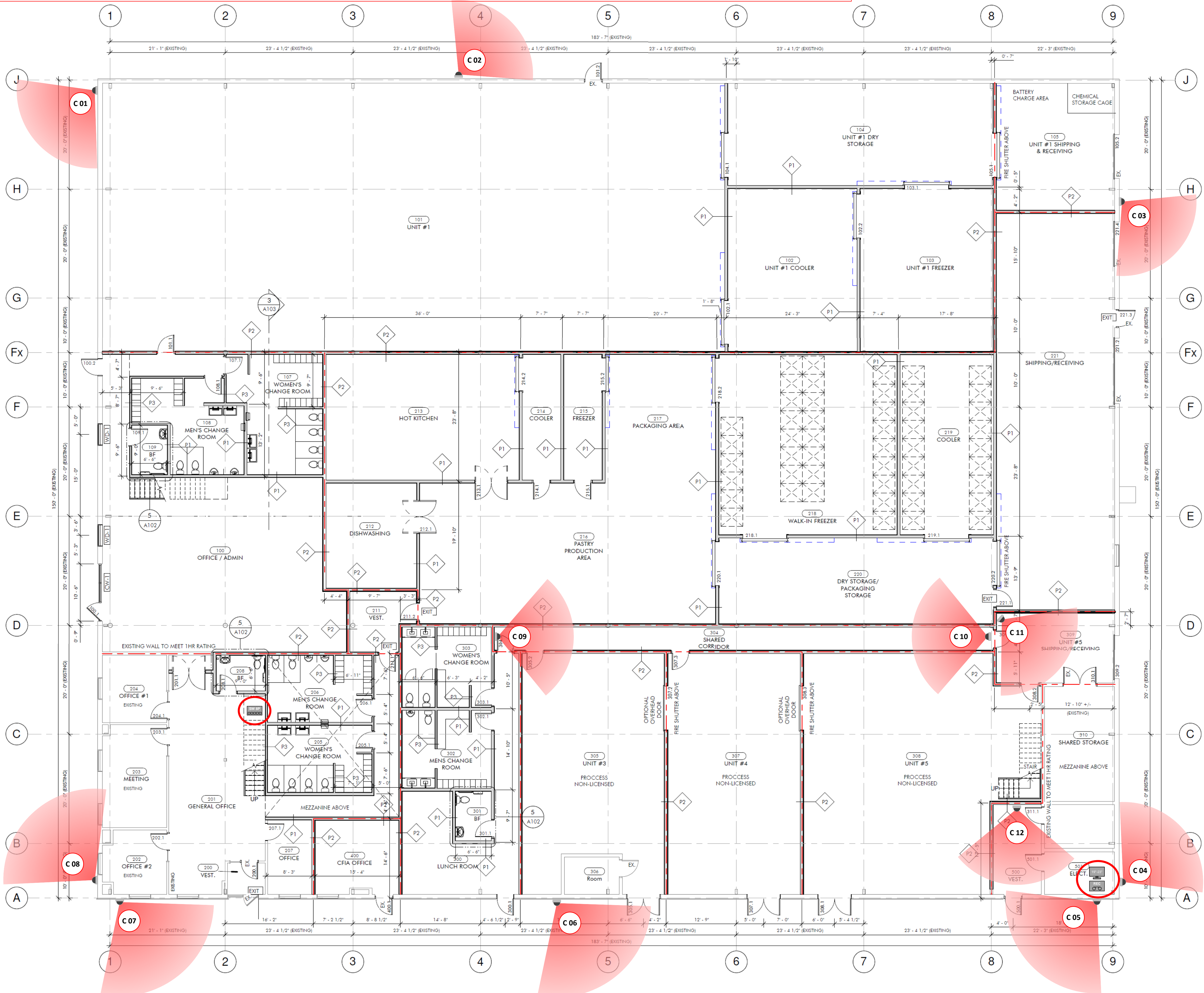
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Access Control Elevation

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**Note:**  
 Typical 3/4" conduit for CCTV cameras would start at the height of the roof trusses and turn down to extend vertically down the wall to a 4 X 4 pull junction Box below. The exterior concrete wall would need to be penetrated with a 3/4" conduit stub in the wall and terminating in a single gang exterior junction box. Horizontal cable runs in the ceiling space aren't typically protected in conduit unless otherwise stated. Exterior cameras illustrated below will require vertical conduits runs



Legend	
	New IP Camera
	New IP Fisheye Camera
	Network Video recorder
	POE Network Switch
	CCTV Monitor
	Wireless Bridge Radio
	Customer ISP Modem/Router



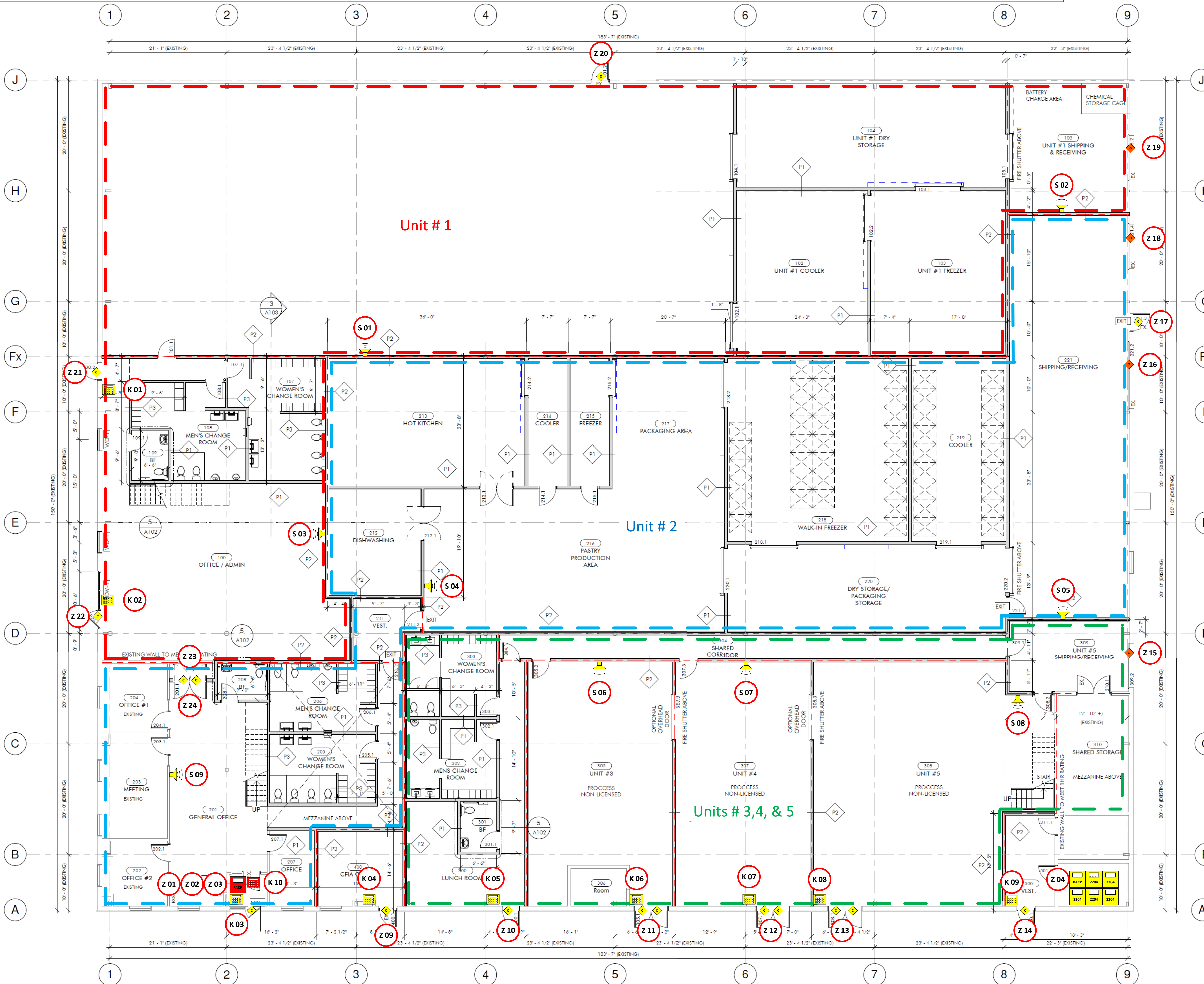
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**CCTV Layout**

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**Note:**  
 1/2" conduit for intrusion devices will start at the height of the roof trusses and turn down to extend vertically down the wall to the devices (junction Box) below. Horizontal cable runs in the ceiling space aren't typically protected in conduit unless otherwise stated.  
 Door Contacts, Motion Detectors, Keypads, Sirens illustrated below in the open or drywalled ceiling spaces will require conduit.  
 1/2" conduit required between the fire alarm panel and the intrusion detection panel



Legend	
	Intrusion Control Panel
	Door Contact
	Motion Detector
	360° Motion
	Smoke Detector
	Siren
	Glass Break
	Keypad
	Fire Alarm Control Panel



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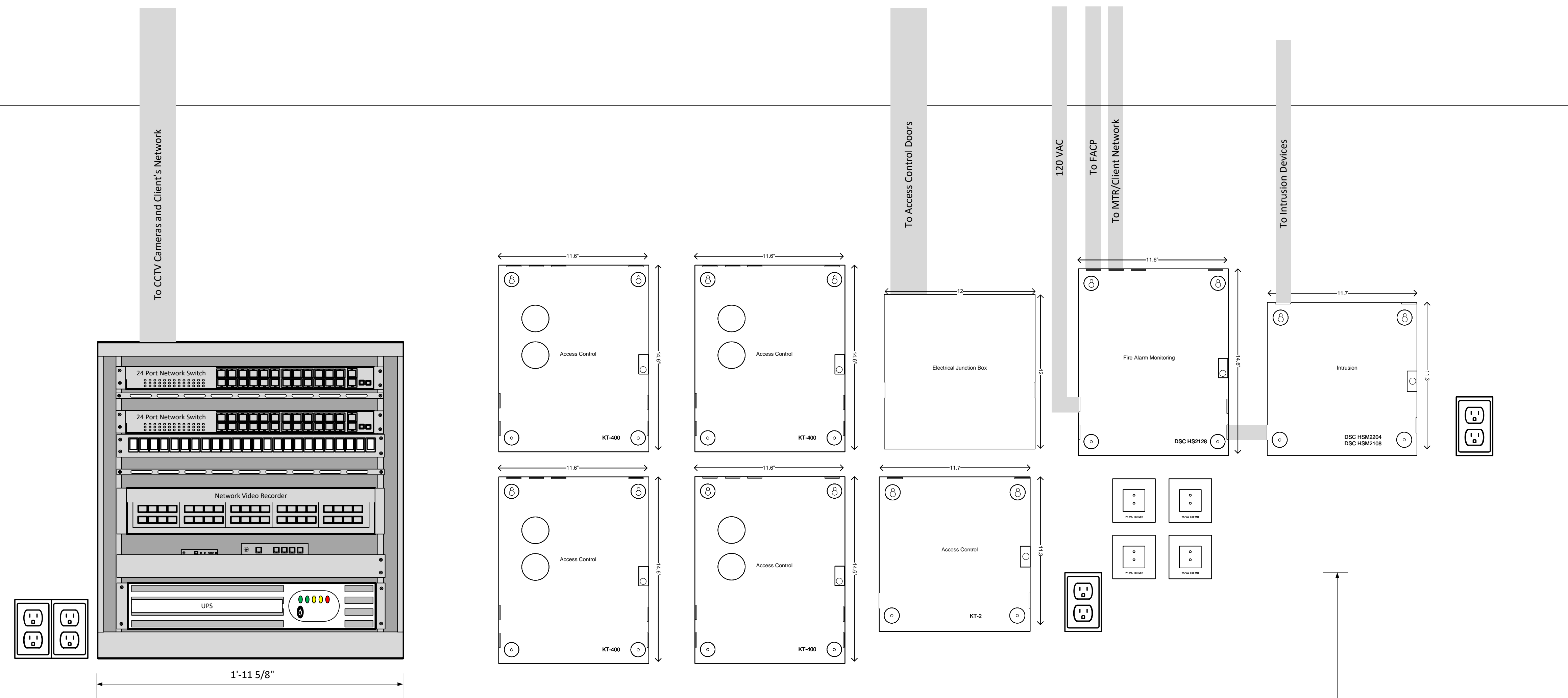
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**Intrusion Layout**

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Roof Deck

Finished Ceiling



Finished Floor



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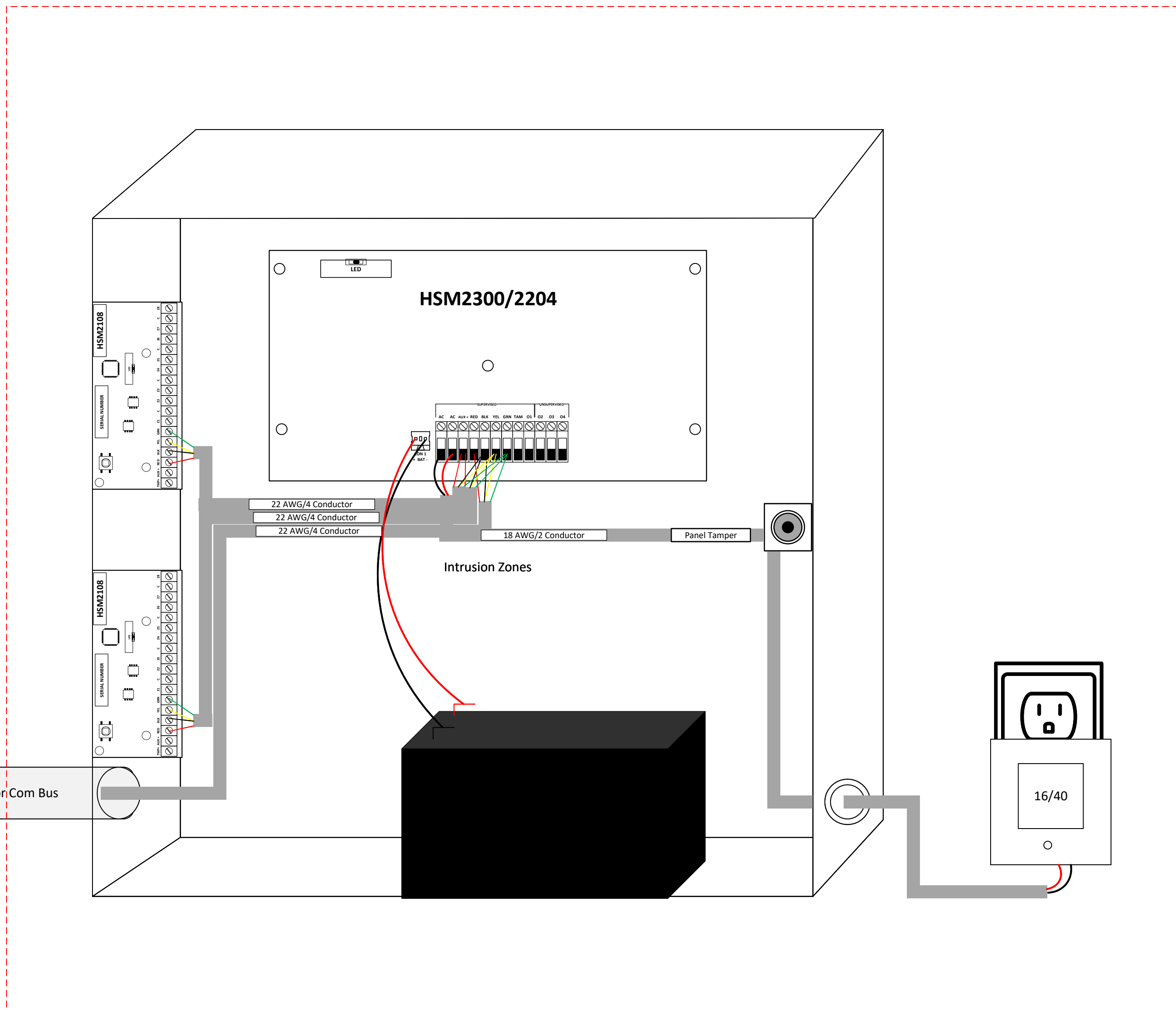
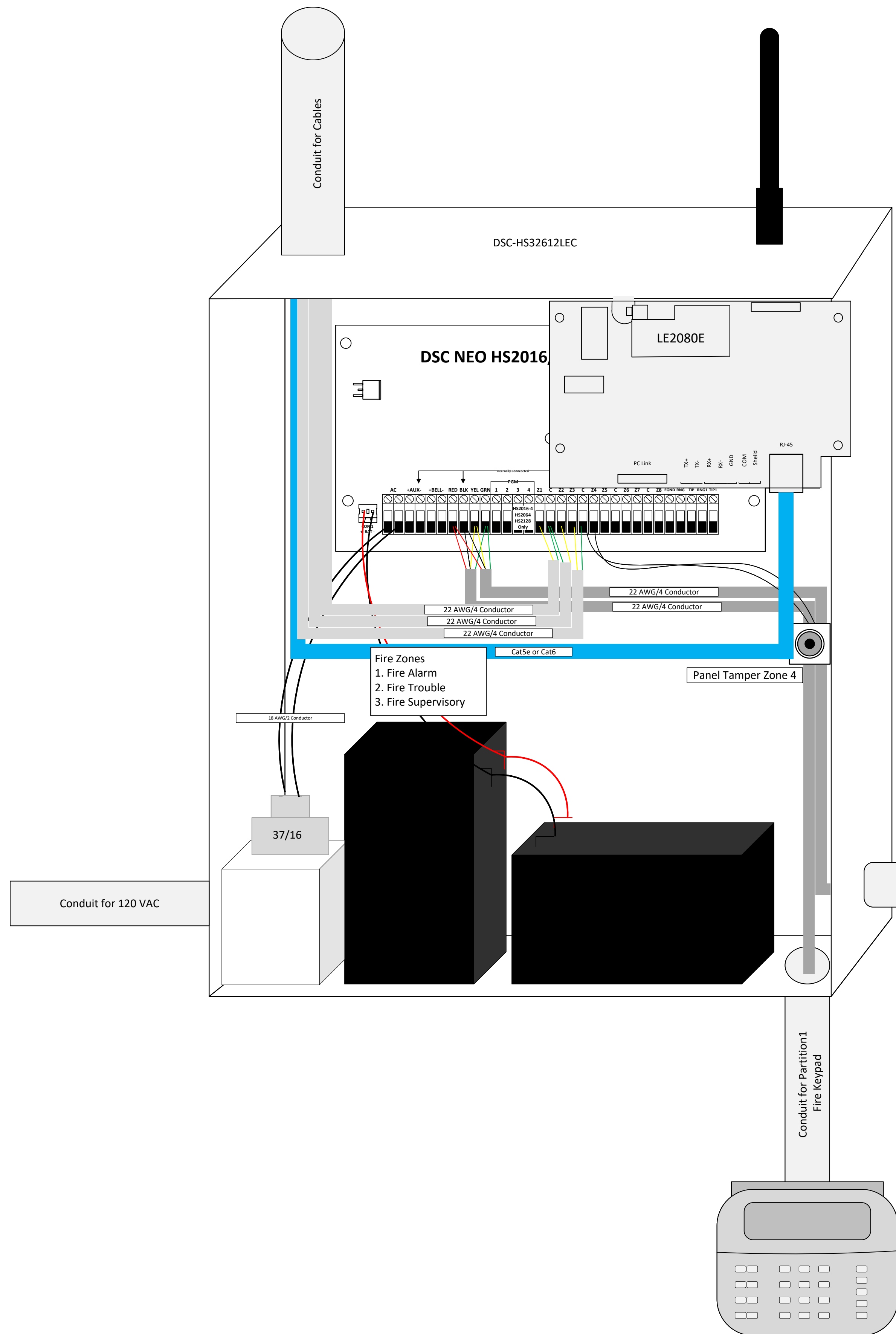
**Electrical Room Security  
 panel Elevations**

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Conduit Extends to fire alarm panel, Telco NID, and/or Internet location to protect cables for their entire length

**Note:**  
 All cabling entering the Neo Red Can must be in conduit.  
 All Conduit entering the Red Can must use the pre made knock outs. New knock outs in the Red Can are not permitted. **Panel Door must be tampered and locked.**

Pertains to Systems with Fire Alarm Monitoring and Intrusion Partitions

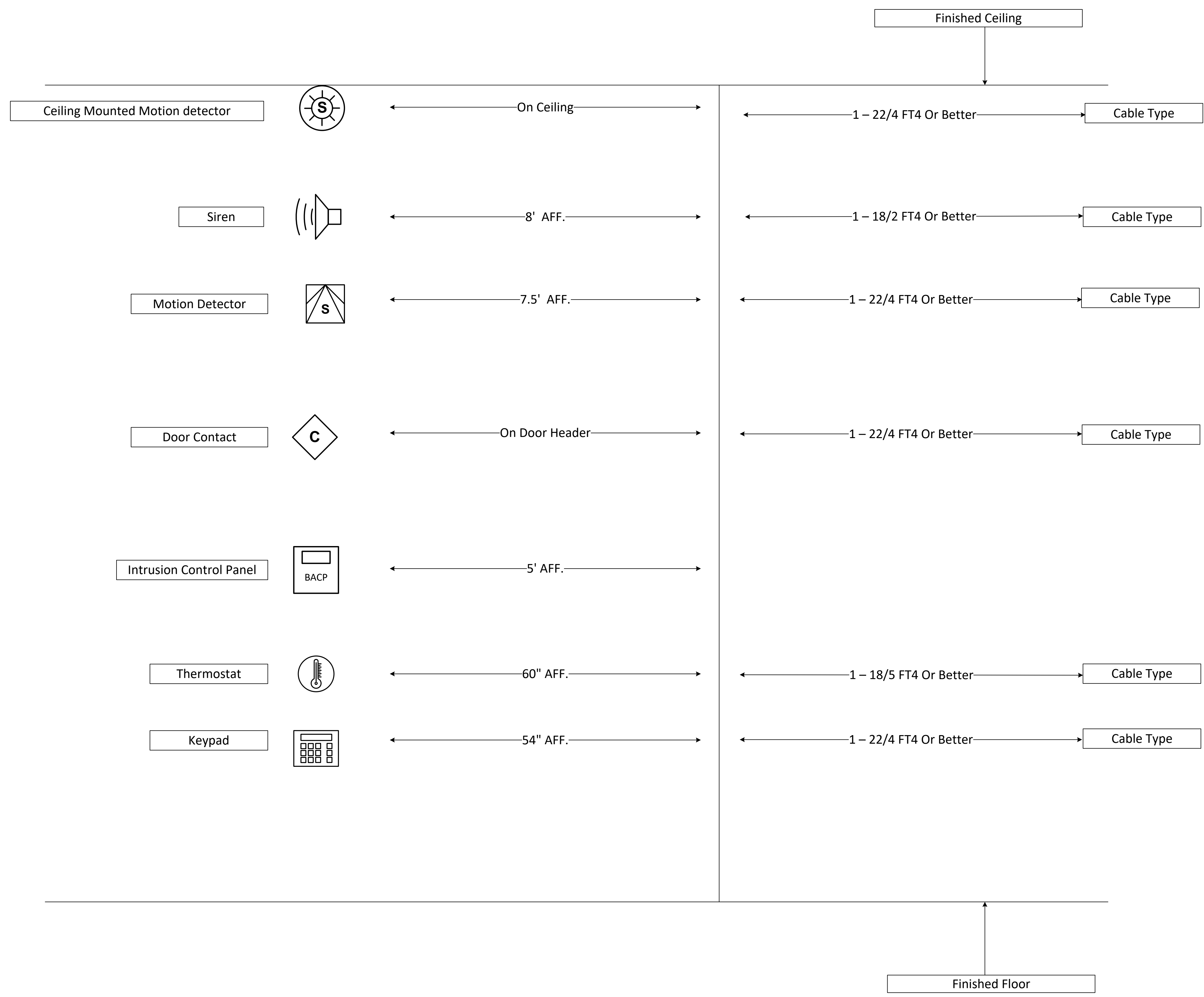


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**Fire alarm Monitoring Panel  
 Elevation**

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**Intrusion elevations**

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