See UM Consultant Procedures and Design Guidelines. All design guidelines posted are applicable. Information below supplements and supersedes information provided in Division 28 of those documents.

Miscellaneous

1. Cameras shall be mounted on the interior of all exit doors so that pedestrians entering the building can be identified. Cameras shall be mounted on the exterior in such a way that all entry points can be monitored either from a distance looking back at the entry point or from the building overlooking the exit.

2. Any rooms that have regulatory items such as pharmacy drugs, telecom equipment, cash, nuclear products, high value items, high danger items, and high voltage works, shall have electronic access control with a manual key override. Provide cameras facing the outside of the door where these valuables, critical infrastructure or dangerous items are housed to monitor these items. Depending on the value or item being protected, include a camera inside the room with a 360-degree view.

3. Any rooms that have critical infrastructure items, fire pumps, dialysis water preparations, emergency generators, water sources that could be contaminated, etc., should have access control with manual key override, electronic access, cameras, and alarms.

4. Place license plate cameras, or other surveillance cameras, at vehicle entry points and building access points. The quantity and position of cameras will be dependent upon the site plan and specific layout of the grounds. Confirm locations with MUHC Security.

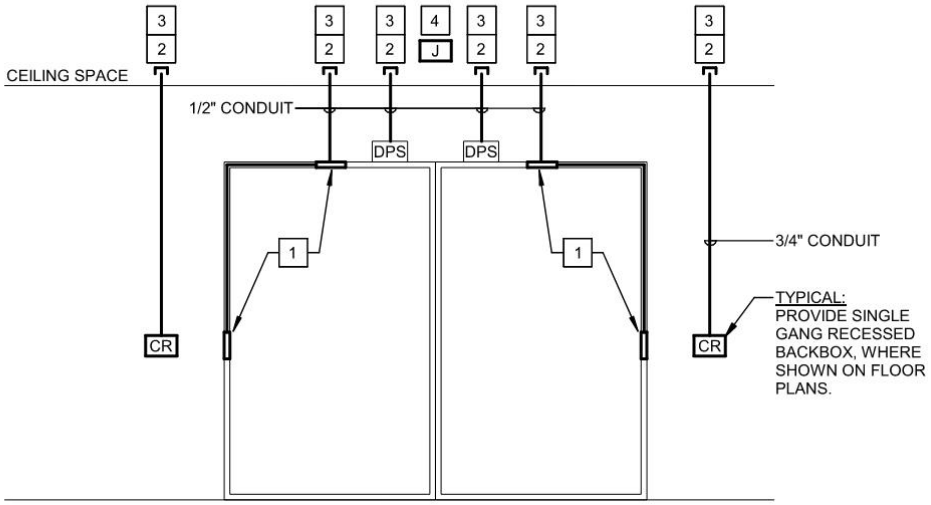
5. For high-risk areas, suggest an intercom that can be accessed by dispatch so they can hear what is going on inside the room or building in the event of an alarm depending on the risk or value of what is inside the area. MUHC Security will confirm locations.

Card Access

1. Access Card control system is On Guard coordinated with MUHC Security.

2. Card readers should be located within reach of the door hardware, except at power operated openings.

3. Per Division 8, all exterior doors that have electronic access control shall have a key override.



NOTES

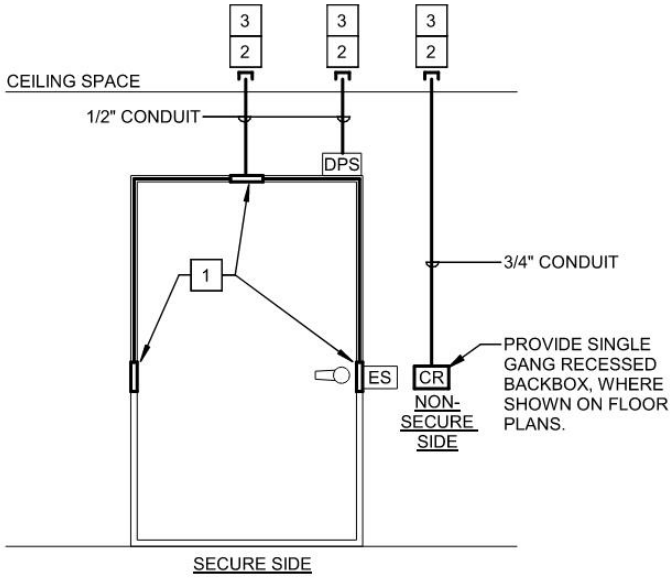
1. DETAIL IS DIAGRAMMATIC ONLY AND MAY NOT REPRESENT ACTUAL DEVICES/QUANTITY OF DEVICES REQUIRED. COORDINATE ALL REQUIREMENTS WITH FINAL DOOR HARDWARE PROVIDED AND AS CALLED OUT ON ARCHITECTURAL DRAWINGS. COORDINATE WITH SECURITY SYSTEM INSTALLER FOR EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS.
2. COORDINATE FINAL REQUIREMENTS WITH ACCESS CONTROL VENDOR. PROVIDE EACH ACCESS CONTROL DOOR WITH ONE (1) 18/6 UNSHIELDED CABLE AND ONE (1) 22/6 SHIELDED CABLE.

KEYED NOTES

1. PROVIDE JUNCTION BOXES FLUSH WITHIN THE DOOR FRAME WITH 1/2" FLEXIBLE CONDUIT BETWEEN BOXES AS REQUIRED FOR ROUTING OF ACCESS CONTROL WIRING INSIDE DOOR FRAME.
2. STUB CONDUIT 6" ABOVE ACCESSIBLE CEILING.
3. LOW VOLTAGE ACCESS CONTROL SYSTEM CABLES: ROUTE TO DOOR ACCESS CONTROL PANEL IN LOCAL TELECOMMUNICATION ROOM.
4. PROVIDE 4" SQUARE JUNCTION BOX FOR CONNECTIONS TO DOOR OPERATOR. REFER TO FLOOR PLANS FOR POWER CIRCUITING REQUIREMENTS.

10 ACCESS CONTROL ROUGH-IN DIAGRAM - DOUBLE DOOR OPERATOR

E500 SCALE: NO SCALE



NOTES

1. DETAIL IS DIAGRAMMATIC ONLY AND MAY NOT REPRESENT ACTUAL DEVICES/QUANTITY OF DEVICES REQUIRED. COORDINATE ALL REQUIREMENTS WITH FINAL DOOR HARDWARE PROVIDED AND AS CALLED OUT ON ARCHITECTURAL DRAWINGS. COORDINATE WITH SECURITY SYSTEM INSTALLER FOR EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS.
2. COORDINATE FINAL REQUIREMENTS WITH ACCESS CONTROL VENDOR. PROVIDE EACH ACCESS CONTROL DOOR WITH ONE (1) 18/6 UNSHIELDED CABLE AND ONE (1) 22/6 SHIELDED CABLE.

KEYED NOTES

1. PROVIDE JUNCTION BOXES FLUSH WITHIN THE DOOR FRAME WITH 1/2" FLEXIBLE CONDUIT BETWEEN BOXES AS REQUIRED FOR ROUTING OF ACCESS CONTROL WIRING INSIDE DOOR FRAME.
2. STUB CONDUIT 6" ABOVE ACCESSIBLE CEILING.
3. LOW VOLTAGE ACCESS CONTROL SYSTEM CABLES: ROUTE TO DOOR ACCESS CONTROL PANEL IN LOCAL TELECOMMUNICATION ROOM.

9 ACCESS CONTROL ROUGH-IN DIAGRAM

E500 SCALE: NO SCALE

Security

1. Security Concerns: To prevent abduction, all access points to infant and pediatric care departments (including the Birthing Center) must be controlled with security devices. Specific examples include:

   - Elevator vestibules with card access and a push button at the Nurse station to allow visitors to enter and depart. 24-volt system
   - Stair doors locked down and accessed by either a card/proximity reader or push button at Nurse Station. 24-volt system. All of the system shall meet NFPA 101 19.2.2.2.5
   - Delayed Egress only considered with AHJ approval.
   - Provide digital cameras at isolated/remote locations as necessary to view potential visitors, doctors, etc. Include intercom as necessary.

2. Confirm strategy with MUHC Security.

28 3100 Fire Detection and Alarm

All fire alarm systems shall be designed in compliance with NFPA 72 (2010 and 2016 Editions) and sealed by a licensed engineer. ***Follow*** *UM Consultant Procedure and Design Guidelines****, Section 28 3100, for minimum standards for design documents to include even if this work is delegated design.***

1. WH – Only Notifier Fire Alarm Systems and components may be utilized.
2. UH Campus – Only Siemens Fire Alarm Systems and components may be utilized.
3. Other sites: depending upon needs. Coordinate with MUHC.
4. Duct detectors must be compatible with the Fire Alarm System installed. They must be addressable and controllable by the Fire Alarm Panel. They may not be stand alone. Contact MUHC Engineering Services for direction if stand-alone duct detection is found in an existing facility.

5. Notification appliances – strobes must be visible at all times and may not be obscured by signage, window treatments, casework, projection screens, monitors, etc.

6. Design Engineer shall coordinate all Siemens FA work with the MUHC Siemens contact.

7. Add note to Fire Alarm drawings/specifications: **"Smoke detectors shall not be installed closer than 3' to ANY air moving device (supply diffuser, return grille, exhaust grille, etc.)."**

END OF SECTION