




SECTION 26 05 53-A1**IDENTIFICATION FOR ELECTRICAL SYSTEMS- APPENDIX 1**

This document will be appendix to the existing standards 26 05 53.

NON-HOSPITAL PROJECTS

Note: These requirements apply to ALL State-Supported Facilities (which covers every UIC building except those supported by Campus Auxiliary Services, UIH, and Athletics)

	FIRE ALARM SYSTEM – (RED)
	NORMAL – (SILVER)
	EQUIPMENT – (BLACK)
	SPECIALTY SYSTEMS TBD ON A CASE-TO-CASE BASIS PER F.M. ELECTRICAL FOREMAN – (ORANGE)
	EMERGENCY – (YELLOW)
	BUILDING AUTOMATION SYSTEM – BAS – (BLUE)
	BUILDING GROUND – (GREEN)
	ACCESS CONTROL – (PURPLE)
	VOICE/DATA TECHNOLOGY SOLUTIONS (WHITE)

HOSPITAL PROJECTS

	FIRE ALARM SYSTEM – (RED)
	NORMAL – (SILVER)
	EQUIPMENT – (BLACK)
	CRITICAL – (ORANGE)
	LIFE SAFETY – (YELLOW)
	BUILDING AUTOMATION SYSTEM – BAS – (BLUE)
	BUILDING GROUND – (GREEN)
	ACCESS CONTROL – (PURPLE)
	HOSPITAL SECURITY- NURSE CALL & IAS (WHITE)

A. Raceways/Conduits**a. General**

- i. In new construction projects and all renovations, electrical and communication Raceways should be concealed above drop ceilings and within drywall partitions where possible.
- ii. Exposed raceways should be routed in the most inconspicuous route possible since they are not meant to be seen. The least inconspicuous route may not be the shortest route. Special attention must be given to conduit and wire mold installed in state-supported buildings with exposed structural ceilings and/or masonry and concrete walls. It is suggested that consultants either draw the proposed routing of exposed Raceways on the construction documents or a pre-bid meeting be scheduled on-site with a representative from UIC Technology Solutions, UIC Facilities, Contractor, PSPM Project Management, PSPM Planning and Design. Exposed pathway routing must be reviewed prior to bidding.
- iii. Raceways should not be mounted in front of wall panels, mechanical grilles, or any other element that might need to be removed for access, service, or cleaning.
- iv. Non-exposed ceiling shall follow the strict requirements of the above color-coded infrastructure.
- v. Painting of Conduits in Exposed Ceiling:
 1. If the exposed ceiling is designated for painting with a neutral color, the responsibility of painting the conduits to match the architect's or UIC chosen color shall rest with the electrical and technology contractor, subject to the following requirements:
 - a. Contractors are required to ensure that conduits entering the exposed ceiling retain their original color for 6 inches inside the space.
 - b. Prior to painting, conduits must be taped to create a unified striped appearance, facilitating future tracing. The tape intervals shall be 12 inches apart.
 2. Paint color chips should be submitted to the planning and design team of Planning, Sustainability and Project Management (PSPM) for review and approval before painting occurs.

b. Horizontal Raceways**i. Ceiling plane**

1. Conduit or wire mold may be used for power and communication wiring, but must adhere to the following restrictions:
 - a. The clear space between adjacent horizontal Raceways should be minimized so they are clustered together in lieu of being spaced apart. Raceways should be mounted as high above the ground (i.e. as close to the ceiling structure above as possible) and as close to the wall as possible or supported off the top of the wall.
 - b. If the horizontal Raceways must bend around a wall corner, then it should be done in a manner that does not cause any modification to the building structure (i.e. no notching or cutting of existing walls or structural members will be allowed)

- c. Horizontal Raceways that bend around wall corners should be done in a manner that keeps wire mold and conduit tight to the wall surface.
 - i. Cable tray must be solid bottom type in exposed areas and may only be used if pre-approved by UIC Technology Solutions.
 - ii. Below Ceiling plane
 - 1. Wiremold must be used for horizontal runs below the ceiling plane and must adhere to the following restrictions:
 - a. Horizontal runs inside occupied spaces should be either as high on the wall as possible or at 18" AFF. An exception to this would be if a user requests connections to be installed above desk or counter height.
 - 2. Wall penetrations: Penetrations must either be as high on the wall as possible or at 18" AFF and preferably near a wall corner or column/pilaster. All penetrations must be sealed. If the penetrations are through a fire rated wall, then it must be sealed with a fire rated sealer approved by UIC's Authority Having Jurisdiction.
- c. **Vertical Raceways**
 - i. Concealed: Risers or drops should occur inside of telecom rooms, closets, or wall cavities whenever possible. Conduit may only be used for vertical Raceways when concealed from view.
 - ii. Exposed: If risers or drops are exposed to view, then they should be minimized and shall be placed near a wall corner or on the side of a column or pilaster. Wiremold must be used when vertical Raceways are exposed to view.

END OF SECTION 26 05 33-A1