SECTION 28 0553 - IDENTIFICATION FOR ELECTRONIC SAFETY AND SECURITY

These specifications provide basic minimum criteria to be met in preparing the final specifications for this Section, which is the responsibility of the Designer. Revise this Section by deleting and inserting text to meet Project-specific requirements.

Maintain Section format, including the UH Master Spec designation and version date in bold in the center columns in the header and footer. Complete the header and footer with Project information.

Designer is required to adhere to the University's "Electronic Access Control Design Guide" and "Network Infrastructure Design Standards" available in Owner's Design Guidelines on the Facilities Planning and Construction web site.

This Section uses the term "Architect" or "Engineer." Change this term to match that used to identify the design professional as defined in the General and Supplementary Conditions.

Verify that Section titles referenced in this Section are correct for this Project's Specifications; Section titles may have changed.

Delete hidden text after this Section has been edited for the Project.

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

B. The Contractor's attention is specifically directed, but not limited, to the following documents for additional requirements:

1. The current version of the *Uniform General Conditions for Construction Contracts, State of Texas*, available on the web site of the Texas Facilities Commission.
2. The University of Houston's Supplemental General Conditions and Special Conditions for Construction.

1.2 SUMMARY

A. Practices and requirements for the documentation and labeling of Electronic Safety and Security infrastructure and devices as described on the Drawings and/or Specifications.

1.3 QUALITY ASSURANCE

A. Identification and administration work specified herein shall comply with the latest applicable requirements of:

1. ANSI/TIA - 606 Administration Standards.

2. ANSI/TIA – 569-D - Commercial Building Standard for Telecommunications Pathway and Spaces.
3. ANSI/TIA Telecommunications Cabling Standard.
4. BICSI Telecommunications Distribution Methods Manual.
5. UL 969. Standard for Marking and Labeling Systems.

1.4 SECURITY ADMINISTRATION

A. Label all cable terminations, devices, panels, enclosures, and equipment assemblies with permanently attached markings that will not impair the equipment or present a hazard to maintenance personnel.

B. Place wire identification numbers on each end of all conductors by using sleeve type heat shrinkable markers. Install markers to be readable from left to right or top to bottom. Wire numbers shall be computer printed (Brady TLS2200 with Permasleeve cable marking labels or equivalent). Handwritten labels are not acceptable.

C. Mark all spare conductors.

D. If changes occur prior to or during acceptance testing altering the documentation previously furnished, formally update and reissue the relevant documentation to the Owner's Project Manager and Electronic Access Control (EAC) and Campus Safety Representatives.

1.5 SHOP DRAWINGS

A. Shop Drawings shall include the following:

1. Floor plan drawings indicating device locations, unique system point numbers with device legends indicating manufacturers and model numbers for each device.
2. Floor plan drawings indicating conduit and wire routing and junction box locations.
   a. Wire routing shall include cable identification and terminal strip numbers.
3. Mounting details for all equipment and hardware.
4. Functional block diagrams for each system.
5. Wiring details showing rack elevations, equipment wiring and terminations and inter-rack wiring.

1.6 RECORD SUBMITTALS

A. Maintain and submit records in a digital spreadsheet or database capturing the following data:

1. Cabling Identifier: Cable name, the origin point, destination point, services and/or connections assigned to each conductor or strand.
2. Equipment Record: Device ID, Device Type, Device Location, Network Connection ID(s).

B. As-Built Drawings:

1. Update Shop Drawings to reflect installed field conditions and submit to Owner's Project Manager and EAC and Campus Safety Representatives for review and approval as part of Closeout Documents.
2. Submit in .dwg, .rvt and .pdf formats.

PART 2 - PRODUCTS

2.1 LABELS

A. All labels shall meet the legibility, defacement, exposure and adhesion requirements of UL 969.

B. Approved Manufacturers:

1. Brady Corporation TSL2200 or similar.
2. Panduit.
3. Substitutions: Follow the requirements of Section 01 2500 "Substitution Procedures."

PART 3 - EXECUTION

3.1 IDENTIFICATION AND LABELING

A. Apply labels to all security components with a unique identifier.

B. All labels shall be legible, resistant to defacement, and maintain adhesion to the application surface.

1. All labels shall be machine printed. Hand written labels are not acceptable.
2. Labels applied directly to a cable shall have a clear vinyl wrapping applied over the label and around the cable to permanently affix the label.
3. Other types of labels, such as tie-on labels, may be used. However, the label must be appropriate for the environment in which it is used and must be used in the manner intended by the manufacturer.

C. Label all electronic devices, active and spare devices: cameras, Code Blue phones/call boxes, alarm system components and NVR and patch panel ports. Provide Card Reader labels on the junction box closest to the Card Readers.

D. Where insert type labels are used, provide clear plastic cover over label.

E. Coordinate all labeling with Owner's Project Manager and EAC and Campus Safety Representatives prior to beginning the installation.

F. The size, color, and contrast of all labels shall be selected to ensure that the identifiers are easily read. Labels shall be visible during the installation of and normal maintenance of the Electronic Safety and Security infrastructure.

3.2 CLOSE OUT DOCUMENTS

A. Submit As-Built Drawings in .dwg, .rvt and .pdf formats to Owner's Project Manager and EAC and Campus Safety Representatives for review and approval.

B. Submit digital spreadsheets in .xlsx and .pdf formats to Owner's Project Manager and EAC and Campus Safety Representatives for review and approval.

END OF SECTION 28 0553