SECTION 28 0553 - IDENTIFICATION FOR ELECTRONIC SAFETY AND SECURITY

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

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.

Designer is required to adhere to the University's "Network Infrastructure Design Standards," "UH System IT Facilities: Baseline Standards," and "Electronic Access Control Design Guide" available in Owner's Design Guidelines on the University Information Technology and Facilities Planning and Construction web sites.

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.   Section includes:

      1. Documentation and labeling requirements for Security Systems.
      2. Required submittals.
      3. Approved manufacturers and parts.
      4. Detailed label requirements with examples.

1.3   SUBMITTAL ADMINISTRATIVE REQUIREMENTS.

   A.   Follow requirements in Section 01 3300 "Submittal Procedures." Use electronic format only.

1.4   ACTION SUBMITTALS

A.   Product Data: For each type of product.

B.   Samples: For each type of label and sign to illustrate composition, size, colors, lettering style, mounting provisions, and graphic features to identify products.

C.   Identification Schedule:

1. Devices: Scaled drawings indicating location and proposed designation.
2. Controllers or modules: elevation detail identifying port connection to devices.
3. Enclosures: Scaled drawings indicating location and serving zone.
4. Maintain security infrastructure records in a computer spreadsheet or database. Other formats are not acceptable.
   a.   Prepare a record for each security panel or enclosure. In the record, show all controllers or modules within that panel.
   b.   For each cable, show the cable name, describe the origin port and destination point of that cable (the opening number), and record what services and or connections are assigned to each cable conductor or strand.
   c.   Label any spare cables or conductors "spare."

1.5   INFORMATION SUBMITTALS – Not Used

1.6   QUALITY ASSURANCE

A.   Comply with requirements of Section 28 0500 "Common Work Results for Electronic Safety and Security."

1.7   SECURITY ADMINISTRATION

A.   Owner maintains a system for documenting and administering security infrastructure.

B.   Owner maintains a campus-wide labeling scheme for security systems.

PART 2 - PRODUCTS

2.1   GENERAL

A.   Refer to Section 01 2500 "Substitution Procedures" for changes to approved quality standards. Obtain prior written approval for substitutions from both the Owner's Project Manager and the EAC Project Manager.

2.2   PRODUCTS

A.   Labeling products shall meet the performance and quality requirements identified in this specification.

PART 3 - EXECUTION

3.1   LABEL STANDARDS AND CONVENTIONS

A.   For all labels, comply with the legibility, defacement, exposure, and adhesion requirements of UL 969 Standard for Marking and Labeling Systems.

B.   When devising the labeling scheme, meet or exceed the requirements of ANSI/TIA6-606-C.

C.   Use label materials that meet all applicable fire codes.

D.   Choose labels that are resistant to environmental factors (such as moisture, heat and ultraviolet light) and have a life span equal to or greater than that of the labeled item.

E.   Create labels that are preprinted or generated by a computer or mechanical device. Handwritten labels are not acceptable, except as described in the instructions for the device.

3.2   LABELING REQUIREMENTS

A.   Infrastructure to be labeled as described in this Section includes composite or low voltage cabling that serves electronic access control (EAC) devices. See Section 27 0553 for labeling requirements for category cabling and cameras

B.   Use labeling and color coding that are consistent with applicable standards and industry practices for all security infrastructure components.

C.   Use a unique identifier on each label that denotes a specific component.

D.   Use color coding that allows personnel to quickly identify how the component is used in the overall security infrastructure of the facility.

E.   Visibility and durability

   1. Select size, color and contrast of all labels to ensure that identifiers are easily read.
   2. Place labels to be visible during installation and normal maintenance of the infrastructure.
   3. Where insert-type labels are used, provide a clear plastic cover over the label.
   4. For labels applied directly to a cable, apply a clear vinyl wrapping over the label and around the cable to permanently affix the label.
   5. Produce labels that are legible, resist defacement, and maintain adhesion to the application surface.
   6. Choose labels that are appropriate for the environment in which they are used and use them in the manner intended by the manufacturer.
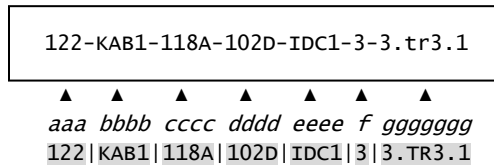
3.3   LABEL INFORMATION

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

B. For communications cable and cameras, refer to Section 27 0553 "Identification for Communications Systems."

C. Apply the following labeling convention to each Access Controlled Opening and to all devices at the access-controlled opening (e.g., Card Reader, Rex, Door Contact, Lock Power, etc.).

 1. Device End
    a. Building Number
    b. Building Abbreviation
    c. Room Number (of access point)
    d. Room Number (where panel is)
    e. Panel/Enclosure number. *Obtain this number from the Owner's EAC Representative as it is automatically generated within the ACS.*
    f. Controller/Module number within panel/enclosure. *Obtain this number from the Owner's EAC Representative as it is automatically generated within the ACS.*
    g. Address of Controller/Module. *Obtain this number from the Owner's EAC Representative as it is automatically generated within the ACS.*
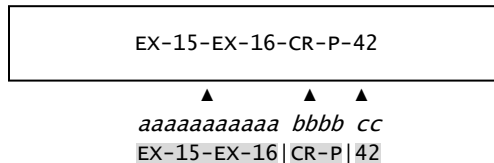
EXAMPLE LABEL

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122-KAB1-118A-102D-IDC1-3-3.tr3.1
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▲   ▲   ▲   ▲   ▲   ▲   ▲
aaa bbbb cccc dddd eeee f ggggggg
122|KAB1|118A|102D|IDC1|3|3.TR3.1

 2. Panel End
    a. Access point that the device is associated with
    b. Device (e.g., Card Reader, REX, Door Contact, Lock Power, etc.). *Obtain acceptable abbreviations from the Owner's EAC Representative.*
    c. Device number. E.g., Card Reader #42. *Obtain this number from the Owner's EAC Representative as it is automatically generated within the ACS.*
    d. NOTE: Opening and device number must match shop drawings and be updated as required in As-Builts.

EXAMPLE LABEL

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EX-15-EX-16-CR-P-42
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▲   ▲   ▲
aaaaaaaaaaa bbbb cc
EX-15-EX-16|CR-P|42

D. Emergency Call Stations do not require specific labeling. Refer to Section 27 0553 for fiber and camera labeling requirements.

E.   NVR and servers are Owner-furnished, Owner-installed (OFOI). Owner will furnish and install labels.

3.4   CLOSE-OUT DOCUMENTS

A.   Provide a complete and accurate set of As-Built Drawings in .rvt, .dwg and .pdf formats.

B.   In the As-Built Drawings, record the identifiers for major infrastructure components including the pathways, spaces and wiring portions of the infrastructure. Provide separate drawings if warranted by the complexity of the installation or scale of the Drawings.

END OF SECTION 28 0553