
Major Revision Highlights

- Added section 4.17 Service Record
SECTION 1.0 INTRODUCTION

1.01 ITS LABELING GUIDE PURPOSE

The ITS Labeling Guide is intended to be a stand-alone package to be followed by an ITS Contractor during construction and by an ITS Design Engineer while developing ITS plans for construction. These guidelines are also intended to be observed for ongoing ITS maintenance activities related to the Illinois Tollway ITS infrastructure.

1.02 TERMS AND DEFINITIONS

ADMINISTRATION - The process of documenting the initial cabling, wiring and management of the cabling/wiring system after the installation. It typically includes two major components: a standard labeling system and a records system.

BACKBONE CABLE - The primary cabling system that extends and runs between plaza buildings along the Illinois Tollway.

BUILDING -- A building is a plaza (mainline or ramp) facility that can include a telecommunications room, equipment room and/or other work areas.

CABLE -- An assembly of one or more insulated conductors or optical fibers, within an enveloping sheath.

CABLING -- A combination of all cables, jumpers, cords, and connecting hardware.

CONTRACTOR -- A person or company that undertakes a contract to provide materials and/or labor to perform a service or do a job.

DROP CABLE – Cable between the splice enclosure or termination panel at an ITS device/field cabinet and the backbone cable providing connection to the network.

EQUIPMENT ROOM (ER) - An area within a plaza building where major components (Cisco ONS, etc.) are housed. Equipment rooms are often distinct from telecommunications rooms/closets due to the size and quantity of the equipment they contain.

IDENTIFIERS -- An identifier is used in labeling telecommunications infrastructure components such as cable, racks, telecommunications rooms, equipment rooms, pathways and telecommunications outlets. It is a unique set of number, letters or a combination of both, that are not repeated within the administration of the system. Identifiers are inserted onto a label which is affixed to the component or cable it is identifying.

LABELING -- Labeling is the marking of an element of a telecommunications infrastructure with the appropriate identifier and other relevant information. Labeling may occur in two ways. Labels may be securely attached to the element, or, the element itself may be marked directly.

OUTSIDE PLANT -- Telecommunications infrastructure designed for installation exterior to plaza and other buildings.

PATCH CORD - A length of cable/wire, or fiber cable, with connectors on each end used to join telecommunications circuits and equipment.

PATHWAY - A conduit, raceway, sleeve, or exposed location for the placing of a cable.

PHENOLIC – A plastic, engravable tag of a material designed to withstand external environmental and UV exposure.

RECORDS -- A record is a grouping of information about a specific element of a
telecommunications system. The record will be contained in a database or excel spreadsheet which may be searched and sorted according to the requirements of the users.

**TELECOMMUNICATIONS INFRASTRUCTURE** - The components (telecommunications spaces, cable pathways, grounding, wiring and termination hardware) that together provide the basic support for the distribution of all telecommunications information.

**TELECOMMUNICATIONS GROUNDING BUSBAR (TGB)** - Auxiliary grounding for the telecommunications in a TS/room that does not have a grounding source and is connected to the TMGB by a grounding conductor. It is also used to ground all telecommunications equipment and cabling that requires a grounding connection.

**TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB)** - Primary grounding for the entire telecommunications in a plaza building or structure. It is tied directly to the grounding source and is used to ground all telecommunications equipment and cabling that require a grounding connection.

**TELECOMMUNICATIONS ROOM (TR)** - The space in a plaza building designed to provide a secure, suitable environment for the installation of cable, equipment, and termination and administration systems. Telecommunications rooms are the points where the backbone and other distribution facilities intersect. They are rooms whose function is to terminate and connect the backbone cable system to the network equipment and to house electronics that assist in the distribution of information to that plaza facility.

**TELECOMMUNICATIONS SPACE (TS)** - A telecommunications space is an area used for housing the installation and termination of equipment and cable, e.g., equipment rooms, telecommunications rooms, field cabinets/enclosures, and handholes.

### 1.03 ACRONYMS

- **ANSI** – American National Standards Institute
- **AVI** – Automatic Vehicle Identification
- **BICSI** – Building Industry Consulting Service International
- **BET** – Building Entrance Terminal
- **DVR** – Digital Video Recorder
- **EIA** – Electronics Industries Alliance
- **ER** – Equipment Room
- **IEEE** – Institute of Electrical and Electronics Engineers
- **NEC** – National Electrical Code
- **NFPA** – National Fire Protection Association
- **ONS** – Optical Networking Services
- **RCDD** – Registered Communications Distribution Designer
- **TIA** – Telecommunications Industries Association
- **TR** – Telecommunications Room
- **UL** – Underwriters’ Laboratories
SECTION 2.0 GENERAL

The purpose of this Section is to provide a minimum level of ITS labeling requirements and guidelines along with application examples to support consistent and manageable documentation of ITS and communication equipment deployed and maintained along the Illinois Tollway corridors.

Equipment racks, patch panels, optical fiber panels, cables, field cabinets, grounding busbars, ITS devices, bonding conductors, and terminal panel boards must be properly labeled as specified herein.

2.01 SCOPE OF WORK

Work covered by this Section shall consist of furnishing labor, equipment, supplies, and materials unless otherwise specified, and in performing the following operations recognized as necessary for the labeling of the ITS infrastructure.

Labeling shall be provided for the following cabling and equipment as required by the Contract Special Provisions and Plan Drawings:

1. ITS cabinet/equipment racks.
2. Communications/network equipment.
3. Fiber termination shelves.
4. Fiber optic and copper cables (backbone & drop).
5. Fiber optic and copper patch cords.
6. Copper patch panels.
7. Copper building entrance terminals.
8. Ground busbars.
10. Terminal panel boards.
11. Field/site space.
12. ITS Device.

2.02 REFERENCES

A. The Contractor shall label all required components and materials as specified in the Contract Special Provisions and Plans to conform to all applicable industry codes, standards and guidelines including, but not limited to the following:

5. NFPA-70 NEC (National Electrical Code). Current adopted edition enforced by the Authority Having Jurisdiction (AHJ.)


B. Where conflicts occur between codes and standards or between codes and standards and Contract Specifications and Plans, the one establishing the more stringent requirements shall be followed.

2.03 LABEL IDENTIFIERS

A. Contractor shall refer to Appendix B of this Document for examples of infrastructure system cable, component and equipment labeling methods and techniques.

B. Contractor shall refer to Appendix C of this Document for list of component and equipment labeling identifiers to be used in infrastructure system labels and tags.

2.04 SUBMITTALS

A. All labeling materials, equipment and methods shall be submitted to the Illinois Tollway for review and approval prior to any labeling work taking place.

B. Contractor shall submit to the Illinois Tollway for review and approval the following labeling materials:
   1. Labeling materials.
   2. Labeling equipment and methods to be used.

C. Contractor shall submit to the Illinois Tollway for review and approval labeling examples for each type of equipment and/or material to be labeled as specified herein.

D. Contractor shall refer to the Contract Special Provisions for additional submittal requirements.
SECTION 3.0 PRODUCTS (MATERIALS)

3.01 LABELS

ITS labeling shall meet the following minimum labeling requirements:

A. Prepare labeling per TIA/EIA-606-B (Class 3 Administration) and UL 969 for a system of labeling materials, including label stocks, laminating adhesives, and inks used by label printers.

B. Labeling shall be provided for each of the items (at a minimum) indicated below or as directed by the Illinois Tollway:
   1. Racks inside mainline plaza/ramp plaza/other buildings shall be labeled.
   2. Network and communications devices & equipment shall be labeled.
   3. Telecommunications/equipment rooms as well as field cabinets/enclosures shall be labeled.
   4. Fiber termination shelves, patch panels and ports shall be labeled. Fiber termination shelf covers shall also include fiber cable labels of cables terminated in the shelf.
   5. Copper building entrance terminals shall be labeled including all cables terminated inside the terminal.
   6. Fiber optic and copper backbone & drop cables shall be labeled on both ends close to termination point and at access points (handholes, etc.).
   7. Patch cords shall be labeled.
   8. Ground busbars and bonding conductors shall be labeled.

C. All labels shall meet the exposure (inside or outside), legibility, defacement and adhesion requirements (as applicable and depending on its location) as specified in UL 969 and herein.

D. All labels shall be printed or generated by a “mechanical device” (i.e., handheld/portable systems, or a tabletop laser, inkjet, or thermal-transfer printer). Handwritten labels are not acceptable.

E. The size, color and contrast of all labels should be selected to ensure that the identifiers are easily read.

F. Labels shall include appropriate bold font w/o serifs and be upper case (all capital letters).

G. Labels shall use black ink print on white background unless otherwise noted herein and approved by the Illinois Tollway.

H. Unless otherwise specified herein, lettering size in general shall be as large as practical to fit properly on the label. The intent is for labels to be easily read while standing near the rack or field cabinet. No lettering shall be smaller than 12 point (approx. ¾-inch tall characters) unless otherwise directed by the Illinois Tollway.

I. Labels shall be consistent, provide contrast, be permanently printed and clearly visible during the installation of, and normal maintenance of, the infrastructure and equipment.
J. Printed labels shall be durable, long-lasting and resistant to the environmental conditions (such as moisture, heat, UV, etc.) as required by its location and shall have a design life equal to or greater than that of the labeled component.

K. Labels affixed to cables shall be flexible and allow for cable movements, bending and twisting.

L. Labels shall use aggressive adhesives or connectors that stay attached even to the most difficult to adhere to jacketing.

3.02 LABELING EQUIPMENT

Contractor/installer shall utilize the “proper” labeling equipment providing the following minimum capabilities:

A. Capable of printing labels on smooth, textured, flat and curved surfaces.

B. Capable of working with multiple types of label materials, as required.

C. Capable of generating labels that are durable, long-lasting and resistant to UV, extreme temperatures, solvents, chemicals and moisture as required per label location.

D. Capable of printing large batches, as required.

E. Capable of providing vertical wrapping and label spacing.
SECTION 4.0 EXECUTION

4.01 GENERAL INSTALLATION REQUIREMENTS

A. Qualifications: The field technicians must have experience using the labeling equipment and labeling administrative documentation.

B. The Contractor shall apply/implement labels using the application examples as provided in Appendix B and specified herein using the ITS labeling identifiers as provided in Appendix C.

4.02 CABINET/EQUIPMENT RACK

Cabinet/Equipment Rack labeling shall include the following:

A. All cabinets/equipment racks shall be labeled as approved by the Illinois Tollway (see Figure B-1 in Appendix B for example application). Contractor shall also refer to Contract Plans and Details for Room Layout Drawing showing layout of existing cabinets/racks, locations and configuration.

B. All labeling shall follow ITS Labeling Identifiers as shown in Appendix C.

C. Labels shall be Phenolic (plastic) tag types.

D. Labels shall be black ink print on white background.

E. All letters on labels and identifiers shall be capital letters.

F. Labels shall fasten to the top of cabinet/rack on both the cabinet/rack face and on the rear. Labels shall be centered on the cabinet/rack.

G. Phenolic (plastic) tag shall be no less than 2-inches tall and label letters/numbers shall be no less than 1 ½-inches tall. If rack face is less than 2-inches, phenolic (plastic) tags shall be same height as cabinet/rack face; tag shall have ¼-inch space at top and bottom of phenolic (plastic) tag and label letters/numbers shall be as tall as remaining space allows.

H. Cabinets/racks shall be labeled in sequence starting from “1” from left to right and moving backwards upon entry into the room or as directed by the Illinois Tollway.

I. Cabinets/racks shall be labeled with cabinet/rack System/Owner identifiers, in accordance with Illinois Tollway Standards and approval.

4.03 COMMUNICATIONS/NETWORK EQUIPMENT

Communications/network equipment labeling shall include the following:

A. All communications/network devices and equipment shall be labeled as approved by the Illinois Tollway (see Figure B-2 in Appendix B for additional requirements and application example).

B. All labeling shall follow ITS Labeling Identifiers as shown in Appendix C.

C. Labels shall be Phenolic (plastic) tag types.

D. Labels shall be black ink print on white background.

E. All letters on labels and identifiers shall be capital letters.
F. Labels shall be on device/equipment face in upper left corner with device/equipment identifier. Multiple devices/equipment shall be labeled sequentially from top to bottom.

G. If device or equipment has no surface area for affixing label, label shall be affixed to device/equipment rack mounting tabs.

4.04 FIBER TERMINATION SHELF/PANEL

Fiber termination shelf/panel and port labeling shall include the following:

A. All fiber termination shelves, panels and ports shall be labeled (see Figure B-3 in Appendix B for additional requirements and application example).

B. All labeling shall follow ITS Labeling Identifiers as shown in Appendix C.

C. Labels shall be Phenolic (plastic) tag types.

D. Labels shall be black ink print on white background.

E. All letters on labels and identifiers shall be capital letters.

F. Fiber termination shelf shall be labeled on shelf cover in upper left corner with shelf identifiers. Multiple fiber termination shelves in rack shall be labeled sequentially. Fiber termination shelves shall be labeled sequentially depending on their location within the rack starting with “A” from the top of rack going downward.

G. Fiber termination shelf shall be labeled on the shelf cover with cable labels of all cables terminated in the fiber termination shelf.

H. Fiber termination panels shall be labeled above each panel with panel identifier. Panels shall be labeled A through M, skipping the letter I starting from the left moving to the right.

I. All panel ports shall be labeled sequentially with a port identifier starting from the top left row and moving to the right and downward.

J. Fiber termination shelf, panel and port labels, pre-labeled from the manufacturer may be used in lieu of manual labeling, as long as manufacturer labels are clearly visible and distinguishable by marking. Etched manufacturer labels, with no color distinction from the surface labels is etched into, shall be labeled over per labeling specifications.

4.05 FIBER OPTIC AND COPPER CABLING (BACKBONE & DROP)

Fiber optic and copper backbone and drop cable labeling shall include the following:

A. All fiber optic and copper backbone and drop cables shall be labeled (see Figures B-4, B-5, B-13, B-14 in Appendix B for additional requirements and application examples).

B. All labeling shall follow ITS Labeling Identifiers as shown in Appendix C.

C. Labels shall be mechanically imprinted, smear resistant, fade resistant, wrap around, self-laminating type.

D. Labels shall be black ink print on white background for backbone cables and black ink print on yellow or orange background for drop cables.
4.06 PATCH CORDS

Patch cord labeling shall include the following:

A. All patch cords shall be labeled on each end (see Figures B-6 to B-8 and B-15 to B-17 in Appendix B for additional requirements and application examples).
B. All labeling shall follow ITS Labeling Identifiers as shown in Appendix C.
C. Labels shall be mechanically imprinted, smear resistant, fade resistant, wrap around, self-laminating type.
D. Labels shall be black ink print on white background.
E. All letters on labels and identifiers shall be capital letters.
F. Labels shall be placed no closer than 6-inches from connection point.
G. Labels shall clearly visible/viewable from point of final resting orientation.

4.07 COPPER PATCH PANEL

Copper patch panel labeling shall include the following:

A. All copper patch panels shall be labeled (see Figure B-18 in Appendix B for additional requirements and application example).
B. All labeling shall follow ITS Labeling Identifiers as shown in Appendix C.
C. Labels shall be Phenolic (plastic) tag types.
D. Labels shall be black ink print on white background.
E. All letters on labels and identifiers shall be capital letters.
F. Copper patch panel shall be labeled on patch panel cover on left side with patch panel identifier.
G. Label shall be centered on patch panel. Multiple patch panels in cabinet/rack shall be labeled sequentially from top to bottom.
H. All patch panels shall be labeled.
I. Patch panel ports shall be labeled with port identifier.
J. Patch panel and port labels, pre-labeled from the manufacturer may be used in lieu of manual labeling, as long as manufacturer labels are clearly visible and distinguishable by marking. Etched manufacturer labels, with no color distinction from the surface label is etched into, shall be labeled over per labeling specifications.

4.08 COPPER BUILDING ENTRANCE TERMINAL (BET)

Copper building entrance terminal (BET) labeling shall include the following:

A. All copper BET shall be labeled (see Figure B-19 in Appendix B for additional requirements and application example).
B. Labels shall be Phenolic (plastic) tag types.
C. Labels shall be black ink print on white background.
D. All letters on labels and identifiers shall be capital letters.
E. BET shall be labeled on BET cover with BET identifier (see Appendix C). Label shall be phenolic tag type. Phenolic tag shall be no less than 2-inches tall and label letters/numbers shall be no less than 1 ½-inches tall. Label shall be black print on white background. Label shall be fastened to BET cover and centered near top of BET. Multiple BET’s shall be labeled sequentially. All BET's shall be labeled.
F. BET’s shall be labeled on BET cover with cable labels of all cables terminated in the BET. Labels shall be phenolic tag type. Phenolic tag shall be no less than 1-inch tall and label letters/numbers shall be no less than ½-inch tall. Labels shall be black print on white background. Labels shall be fastened to BET cover on left side of BET. All cables terminated in BET’s shall be labeled.
G. Inside the BET shall be labeled with label strip. Label strip shall indicate first termination pair and every fifth termination pair. First level backbone label strips shall be black print on white background. Second level backbone label strips shall be black print on gray background. Label strips, pre-labeled from manufacturer may be used in lieu of manual labeling, as long as manufacturer labels are clearly visible and distinguishable by marking.

4.09 GROUND BUSBAR

Ground busbar labeling shall include the following:

A. All grounding busbars shall be labeled (see Figure B-9 in Appendix B for additional requirements and application example).
B. All labeling shall follow ITS Labeling Identifiers as shown in Appendix C.
C. Labels shall be Phenolic (plastic) tag types.
D. Labels shall be black ink print on green background for grounding applications and black on red background for warning applications.
E. All letters on labels and identifiers shall be capital letters.
F. Labels shall be fastened to side of the TMGB or TGB, so as to keep the label from being covered up by bonding conductor and/or connections.

G. Labels shall be level with the top of the TMGB or TGB.

H. Phenolic tags shall be no less than 2-inches tall and label letters/numbers shall be no less than 1 ½-inches tall.

4.10 BONDING CONDUCTOR

Bonding conductor labeling shall include the following:

A. Bonding conductor labels:
   1. All bonding conductors shall be labeled (see Figure B-10 in Appendix B for additional requirements and application example).
   2. All labeling shall follow ITS Labeling Identifiers as shown in Appendix C.
   3. Labels shall be placed no closer than 6-inches from point of bonding connection to the grounding busbar.
   4. Labels shall be clearly visible/viewable from point of final resting orientation.
   5. Labels shall be mechanically imprinted, smear resistant, fade resistant, wrap around, self-laminating type.
   6. Labels shall be black print on white background.
   7. All letters on labels shall be capital letters.

B. Warning labels:
   1. All bonding conductors shall have warning labels.
   2. All labeling shall follow ITS Labeling Identifiers as shown in Appendix C.
   3. Labels shall be placed near bonding conductor label.
   4. Labels shall be thermal marker transfer plate type.
   5. Warning labels shall be black print on red background.
   6. All letters in warning labels shall be capital letters.
   7. Warning labels shall indicate who to contact if bonding conductor is loose, disconnected, needs to be moved or needs to be removed.

4.11 TERMINAL PANEL BOARDS

Terminal Panel Board labeling shall include the following:

A. All terminal panel boards shall be labeled (see Figure B-11 in Appendix B for additional requirements and application example).

B. All labeling shall follow ITS Labeling Identifiers as shown in Appendix C.

C. Labels shall be Phenolic (plastic) tag type.

D. Labels shall be black ink print on white background.
E. All letters on labels and identifiers shall be capital letters.
F. Labels shall be fastened to side of the terminal panel board, so as to keep the label from being covered up by cables, conductors and/or connections.
G. Labels shall be level with the top of the terminal panel board.
H. Phenolic tags shall be no less than 1 ½-inches tall and label letters/numbers shall be no less than 1-inch tall.
I. Terminal Panel Boards shall be labeled sequentially from top to bottom.

4.12 FIELD/SITE SPACES

Field/site spaces (i.e., field cabinets, enclosures, etc.) labeling shall include the following:
A. All field/site spaces shall be labeled as approved by the Illinois Tollway (see Figure B-12 in Appendix B for additional requirements and example application).
B. All labeling shall follow ITS Labeling Identifiers as shown in Appendix C.
C. Labels shall be Phenolic (plastic) tag type.
D. Labels shall be black print on white background.
E. All letters on labels and identifiers shall be capital letters.
F. Field cabinet/enclosure labels shall be phenolic tag types and secured to field cabinet/enclosure door appropriate for its location (i.e., outdoor or indoor, etc.).
G. Labels shall fasten above the outside to top of the door or if space does not permit, then locate at the top left corner of the door face.
H. Phenolic tag shall be no less than 2-inches tall and label letters/numbers shall be no less than 1 ½-inches tall. Tag shall have ¼-inch space at top and bottom of phenolic tag and label letters/numbers shall be as tall as remaining space allows.
I. All cables inside handholes/maintenance holes shall be labeled within 12-inches of all entry/exit points.

4.13 ITS DEVICE LABELING

Device (e.g., cameras, MVDS, DMS, RWIS, WIM, etc.) labeling shall include the following:
A. All devices shall be labeled (see Figure B-20 in Appendix B for additional requirements and application example).
B. All labeling shall follow ITS Labeling Identifiers as shown in Appendix C.
C. Labels shall be Phenolic tag type.
D. Label shall be black print on white background.
E. All letters on labels and identifiers shall be capital letters.
F. Labels shall be affixed to cameras so labels are in visible area.
G. Multiple devices and equipment shall be labeled sequentially.
4.14 COAXIAL DROP CABLE

Coaxial drop cable labeling shall include the following:

A. All coaxial drop cabling shall be labeled (see Figure B-21 in Appendix B for additional requirements and application example).

B. All labeling shall follow ITS Labeling Identifiers as shown in Appendix C.

C. Labels shall be placed no closer than 12-inches from point of connection into DVR or camera.

D. Labels shall clearly visible/viewable from point of final resting orientation.

E. Labels shall be mechanically imprinted, smear resistant, fade resistant, wrap around, self-laminating type.

F. Labels shall be two lines of text. First line shall have near-end component/equipment information. Second line shall have far-end component/equipment information followed by cable type and cable series.

G. Labels shall be black print on white background.

H. All letters on labels and identifiers shall be capital letters.

4.15 AUTOMATIC VEHICLE IDENTIFICATION (AVI) DROP CABLE

AVI drop cable labeling shall include the following:

A. All AVI drop cabling shall be labeled (see Figure B-22 in Appendix B for additional requirements and application example).

B. All labeling shall follow ITS Labeling Identifiers as shown in Appendix C.

C. Labels shall be placed no closer than 12-inches from point of connection into AVI controller or receiver.

D. Labels shall clearly visible/viewable from point of final resting orientation.

E. Labels shall be mechanically imprinted, smear resistant, fade resistant, wrap around, self-laminating type.

F. Labels shall be two lines of text. First line shall have near-end component/equipment information. Second line shall have far-end component/equipment information followed by cable type and cable series.

G. Labels shall be black print on white background.

H. All letters on labels and identifiers shall be capital letters.

4.16 POWER CABLE

Power cable labeling shall include the following:

A. All power cabling shall be labeled (see Figure B-23 in Appendix B for additional requirements and application example).

B. All labeling shall follow ITS Labeling Identifiers as shown in Appendix C.
C. Labels shall be placed no closer than 12-inches from point of connection into power supply or equipment powered.

D. Labels shall clearly visible/viewable from point of final resting orientation.

E. Labels shall be mechanically imprinted, smear resistant, fade resistant, wrap around, self-laminating type.

F. Labels shall be two lines of text. First line shall have near-end component/equipment information. Second line shall have far-end component/equipment information followed by cable type and cable series.

G. Labels shall be black print on white background.

H. All letters on labels and identifiers shall be capital letters.

4.17 SERVICE RECORD

New cabinets shall include a label affixed to the inside of the door indicating:

A. The manufacturer

B. Date of manufacture

C. Installation contract
APPENDIX A

(NOT USED)
APPENDIX B

ITS LABELING IDENTIFIERS
**LABELING APPLICATION EXAMPLES**

The figures referred to in Table # 1 provide examples on the application of labels as specified herein.

**Table # 1: Labeling Scheme Application Examples**

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Labeling Application Example</th>
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<tbody>
<tr>
<td>Cabinet/Equipment Rack Labeling Scheme</td>
<td>See Figure B-1</td>
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<tr>
<td>Comm/Network Equipment Labeling Scheme</td>
<td>See Figure B-2</td>
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<tr>
<td>Fiber Termination Shelf Labeling Scheme - Horizontal &amp; Vertical Fiber Termination Shelves</td>
<td>See Figure B-3</td>
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<tr>
<td>Fiber Optic Backbone &amp; Drop Cable Labeling Scheme - Building to Building</td>
<td>See Figure B-4</td>
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<tr>
<td>Fiber Optic Backbone &amp; Drop Cable Labeling Scheme - Building to Field Location</td>
<td>See Figure B-5</td>
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<tr>
<td>Fiber Optic Patch Cord Labeling Scheme - Device/Equipment to Fiber Termination Shelf</td>
<td>See Figure B-6</td>
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<tr>
<td>Fiber Optic Patch Cord Labeling Scheme - Device/Equipment to Device/Equipment Patch Cord</td>
<td>See Figure B-7</td>
</tr>
<tr>
<td>Fiber Optic Patch Cord Labeling Scheme - Fiber Termination Shelf to Fiber Termination Shelf</td>
<td>See Figure B-8</td>
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<tr>
<td>Ground Busbar Labeling Scheme</td>
<td>See Figure B-9</td>
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<tr>
<td>Bonding Conductor Labeling Scheme</td>
<td>See Figure B-10</td>
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<tr>
<td>Terminal Panel Board Labeling Scheme</td>
<td>See Figure B-11</td>
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<tr>
<td>Field/Site Space Labeling Scheme</td>
<td>See Figure B-12</td>
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<tr>
<td>Copper Backbone/Drop Cable Labeling Scheme - Building to Building</td>
<td>See Figure B-13</td>
</tr>
<tr>
<td>Copper Backbone &amp; Drop Cable Labeling Scheme - Building to Field Location</td>
<td>See Figure B-14</td>
</tr>
<tr>
<td>Copper Patch Cord Labeling Scheme- Patch Panel to Patch Panel</td>
<td>See Figure B-15</td>
</tr>
<tr>
<td>Copper Patch Cord Labeling Scheme - Device/Equipment to Device/Equipment Patch Cord</td>
<td>See Figure B-16</td>
</tr>
<tr>
<td>Copper Patch Cord Labeling Scheme - Device/Equipment to Patch Panel</td>
<td>See Figure B-17</td>
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<tr>
<td>Identifier</td>
<td>Labeling Application Example</td>
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<td>------------------------------------------------------------------</td>
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<tr>
<td>Copper Patch Panel Labeling Scheme</td>
<td>See Figure B-18</td>
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<tr>
<td>Copper Building Entrance Terminal (BET) Labeling Scheme</td>
<td>See Figure B-19</td>
</tr>
<tr>
<td>Device Labeling Scheme</td>
<td>See Figure B-20</td>
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<tr>
<td>Coaxial Drop Cable Labeling Scheme</td>
<td>See Figure B-21</td>
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<tr>
<td>Automatic Vehicle Identification (AVI) Drop Cable Labeling Scheme</td>
<td>See Figure B-22</td>
</tr>
<tr>
<td>Power Cable Labeling Scheme</td>
<td>See Figure B-23</td>
</tr>
</tbody>
</table>
NOTES:
1. ALL CABINETS/RACKS SHALL BE LABELED.
2. LABEL SHALL BE PHENOLIC TAG TYPE.
3. LABEL SHALL BE BLACK PRINT ON WHITE BACKGROUND.
4. ALL LETTERS IN LABELS AND IDENTIFIERS SHALL BE CAPITAL LETTERS.
5. LABEL SHALL BE FASTENED TO TOP OF CABINET/RACK.
6. PHENOLIC TAG SHALL BE NO LESS THAN 2 INCHES TALL AND LABEL LETTERS/NUMBERS SHALL BE NO LESS THAN 1/2 INCHES TALL. IF CABINET/RACK FACE IS LESS THAN 2 INCHES, PHENOLIC TAG SHALL BE SAME HEIGHT AS CABINET/RACK FACE. TAG SHALL HAVE 1/4 INCH SPACE AT TOP AND BOTTOM OF PHENOLIC TAG AND LABEL LETTERS/NUMBERS SHALL BE AS TALL AS REMAINING SPACE ALLOWS.

FIGURE B-1: CABINET / EQUIPMENT RACK LABELING SCHEME
NOTES:
1. All devices & equipment shall be labeled.
2. Labels shall be black print on white background.
3. All letters in labels and identifiers shall be capital letters.
4. Labels shall be fastened to top of rack on rack face. Label shall be centered on rack.
5. Devices & equipment shall be labeled on device/equipment face in upper left corner with device/equipment identifier. Multiple devices & equipment shall be labeled sequentially.
6. If device or equipment has no surface area for affixing label, label shall be affixed to device/equipment mounting tabs.

Refer to Appendix C - ITS Labeling Identifiers for full list of building, cable, and equipment identification information.

Figure B-2: COMM/NETWORK equipment labeling scheme.
NOTES:
1. FIBER TERMINATION SHELF SHALL BE LABELED ON SHELF COVER IN UPPER LEFT CORNER WITH SHELF IDENTIFIER.
   MULTIPLE FIBER TERMINATION SHELVES IN RACK SHALL BE LABELED SEQUENTIALLY. ALL FIBER TERMINATION
   SHELVES SHALL BE LABELED.
2. FIBER TERMINATION SHELF SHALL BE LABELED ON SHELF COVER WITH CABLE LABELS OF ALL CABLES TERMINATED
   IN THE FIBER TERMINATION SHELF.
3. FIBER TERMINATION PANELS SHALL BE LABELED AT TOP OF PANEL WITH PANEL IDENTIFIER. PANELS SHALL BE LABELED
   STARTING AT A AND LABELING THROUGH END OF PANEL, SKIPPING LETTER I IF LABELING UP TO PANEL M.
4. FIBER TERMINATION PANEL PORTS SHALL BE LABELED WITH PORT IDENTIFIER.
5. ALL LETTERS IN LABELS AND IDENTIFIERS SHALL BE CAPITAL LETTERS.
6. FIBER TERMINATION SHELF, PANEL, AND PORT LABELS, PRE-LABELED FROM THE MANUFACTURER MAY BE USED IN LIEU OF
   MANUAL LABELING, AS LONG AS MANUFACTURER LABELS ARE CLEARLY VISIBLE AND DISTINGUISHABLE BY MARKINGS, ETCHED
   MANUFACTURER LABELS, WITH NO COLOR DISTINCTION FROM THE SURFACE LABEL IS ETCHED INTO, SHALL BE LABELED
   OVER PER LABELING SPECIFICATIONS.

FIGURE B-3: FIBER TERMINATION SHELF / PANEL LABELING SCHEME
1. Label shall be placed no closer than 12” from point of entry into fiber termination shelf or splice case.
2. Label shall be visible/viewable from point of final resting orientation.
3. Label shall be mechanically imprinted, smear resistant, fade resistant, wrap around, self-laminating type.
4. Label shall be black print on white background.
5. Label shall be two lines of text. First line shall have near end building information, second line shall have far end building information followed by cable type and strand count.
6. All letters in labels and identifiers shall be capital letters.

EXAMPLE OF LABELED FIBER OPTIC CABLE

**FIGURE B-4: FIBER OPTIC BACKBONE & DROP CABLE LABELING SCHEME - BUILDING TO BUILDING**
NOTES:
1. LABEL SHALL BE PLACED NO CLOSER THAN 12" FROM POINT OF ENTRY INTO FIBER TERMINATION SHELF OR SPICE CASE.
2. LABEL SHALL BE VISIBLE/VIEWABLE FROM POINT OF FINAL RESTING ORIENTATION.
3. LABEL SHALL BE MECHANICALLY IMPRINTED, SMEAR RESISTANT, FADE RESISTANT, WRAP AROUND, SELF-LAMINATING TYPE.
4. LABEL SHALL BE BLACK PRINT ON WHITE BACKGROUND.
5. LABEL SHALL BE TWO LINES OF TEXT. FIRST LINE SHALL HAVE NEAR END BUILDING INFORMATION. SECOND LINE SHALL HAVE FAR END BUILDING INFORMATION FOLLOWED BY CABLE TYPE AND STRAND COUNT.
6. ALL LETTERS IN LABELS AND IDENTIFIERS SHALL BE CAPITAL LETTERS.

FIGURE B-5: FIBER CABLE BACKBONE/DROP CABLE LABELING SCHEME (BUILDING TO FIELD SITE)
FIGURE B-6: FIBER CABLE PATCH CORD LABELING SCHEME (EQUIP TO FIBER SHELF)
Figure B-7: Fiber cable patch cord labeling scheme (equip to equip)

Notes:
1. Label shall be placed no closer than 6” from connection point.
2. Label shall be visible/visible from point of final resting orientation.
3. Label shall be mechanically imprinted, smear resistant, fade resistant, wrap around, self-laminating type.
4. Label shall be black print on white background.
5. All letters in labels and identifiers shall be in capital letters.
FIGURE B-8: FIBER CABLE PATCH CORD LABELING SCHEME (FIBER SHELF TO FIBER SHELF)

NOTES:
1. LABEL SHALL BE PLACED NO CLOSER THAN 6" FROM CONNECTION POINT.
2. LABEL SHALL BE VISIBLE / VIEWABLE FROM POINT OF FINAL RESTING ORIENTATION.
3. LABEL SHALL BE MECHANICALLY IMPRINTED, SMEAR RESISTANT, FADE RESISTANT, WRAP AROUND, SELF-LAMINATING TYPE.
4. LABEL SHALL BE BLACK PRINT ON WHITE BACKGROUND.
5. ALL LETTERS IN LABELS AND IDENTIFIERS SHALL BE IN CAPITAL LETTERS.
NOTES:
1. ALL GROUNDING BUSBARS SHALL BE LABELED.
2. LABELS SHALL BE PHENOLIC TAG TYPE.
3. LABEL SHALL BE BLACK PRINT ON YELLOW BACKGROUND.
4. ALL LETTERS IN LABELS AND IDENTIFIERS SHALL BE CAPITAL LETTERS.
5. LABELS SHALL BE FASTENED TO SIDE OF TMGB OR TGB, SO AS TO KEEP LABEL FROM BEING COVERED UP BY BONDING CONDUCTOR AND CONNECTIONS.
6. LABEL SHALL BE LEVEL WITH TOP OF TMGB OR TGB.
7. PHENOLIC TAG SHALL BE NO LESS THAN 2 INCHES TALL AND LABEL LETTERS/NUMBERS SHALL BE NO LESS THAN 1.5 INCHES TALL.

FIGURE B-9: GROUND BUSBAR LABELING SCHEME
FIGURE B-10: BONDING CONDUCTOR LABELING SCHEME

NOTES:
A. BONDING CONDUCTOR LABELS
1. ALL BONDING CONDUCTORS SHALL BE LABELED.
2. LABEL SHALL BE PLACED NO CLOSER THAN 6" FROM POINT OF BONDING CONNECTION TO GROUNDING BUSBAR.
3. LABEL SHALL BE VISIBLE/VIEWABLE FROM POINT OF FINAL RESTING ORIENTATION.
4. LABEL SHALL BE MECHANICALLY IMPRINTED, SMEAR RESISTANT, FADE RESISTANT, WRAP AROUND, SELF LAMINATING TYPE.
5. LABEL SHALL BE BLACK PRINT ON GREEN BACKGROUND.
6. ALL LETTERS IN LABELS AND IDENTIFIERS SHALL BE CAPITAL LETTERS.

B. WARNING LABELS
1. ALL BONDING CONDUCTORS SHALL HAVE WARNING LABELS.
2. LABELS SHALL BE PLACED NEAR BONDING CONDUCTOR CABLE LABEL.
3. LABELS SHALL BE THERMAL MARKER TRANSFER PLATE TYPE.
4. WARNING LABELS SHALL BE BLACK PRINT ON RED BACKGROUND.
5. ALL LETTERS ON WARNING LABELS SHALL BE CAPITAL LETTERS.
TERMINAL PANEL BOARD LABEL

1. ALL TERMINAL PANEL BOARDS SHALL BE LABELED.
2. LABEL SHALL BE PHENOLIC TAG TYPE.
3. LABEL SHALL BE BLACK PRINT ON WHITE BACKGROUND.
4. ALL LETTERS IN LABELS AND IDENTIFIERS SHALL BE IN CAPITAL LETTERS.
5. LABELS SHALL BE FASTENED TO SIDE OF TERMINAL STRIP ON BOARD FACE, SO AS TO KEEP LABEL FROM BEING COVERED UP BY CONDUCTORS AND CONNECTIONS. LABEL SHALL BE LEVEL WITH TOP OF TERMINAL STRIP.
6. PHENOLIC TAG SHALL BE NO LESS THAN 1.5 INCHES TALL AND LABEL LETTERS/NUMBERS SHALL BE NO LESS THAN 1 INCHES TALL. TAG SHALL HAVE 1/4 INCH SPACE AT TOP AND BOTTOM OF PHENOLIC TAG AND LABEL LETTERS/NUMBERS SHALL BE AS TALL AS REMAINING SPACE ALLOWS.

NOTES:

FIGURE B-11: TERMINAL PANEL BOARD LABELING SCHEME
BUILDING, CABLE, AND EQUIPMENT IDENTIFICATION INFORMATION

REFER TO APPENDIX C - ITS LABELING IDENTIFIERS FOR FULL LIST OF BUILDING, CABLE, AND EQUIPMENT IDENTIFICATION INFORMATION.

PASSING THROUGH HANDHOLES AND EXIT POINTS, ON ALL CABLES INSTALLED AT CABLE ENTRY CABLE LABEL SHALL BE PROVIDED.

NOTES:
A. GENERAL
1. ALL FIELD/SITE ENCLOSURES (APART FROM HANDHOLES) SHALL BE LABELED.
2. LABEL SHALL BE PHENOLIC TAG TYPE.
3. LABEL SHALL BE BLACK PRINT ON WHITE BACKGROUND.
4. ALL LETTERS IN LABELS AND IDENTIFIERS SHALL BE IN CAPITAL LETTERS.
5. ALL CABLES INSIDE HANDHOLES/Maintenance HOLES SHALL BE LABELED WITHIN 12 INCHES OF ALL ENTRY/EXIT POINTS.

B. CABINETS
1. LABELS SHALL BE FASTENED TO TOP OF CABINET DOOR ON DOOR FACE. LABEL SHALL BE CENTERED ON CABINET DOOR.
2. PHENOLIC TAG SHALL BE NO LESS THAN 2 INCHES TALL AND LABEL LETTERS/NUMBERS SHALL BE NO LESS THAN 1.5 INCHES TALL.

C. HANDHOLES
1. HANDHOLES SHALL NOT BE PHYSICALLY LABELED. RATHER HANDHOLE IDENTIFICATION INFORMATION IS PROVIDED FOR DOCUMENTATION PURPOSES ONLY.

FIGURE B-12: FIELD / SITE SPACE LABELING SCHEME
FIGURE B-13: COPPER BACKBONE/DROP CABLE LABELING SCHEME (BUILDING TO BUILDING)

- **NOTES:**
  1. Labels shall be placed no closer than 12'' from point of entry into copper patch panel or splice case.
  2. Label shall be visible / viewable from point of final resting orientation.
  3. Label shall be mechanically imprinted, smear resistant, fade resistant, wrap around, self-laminating type.
  4. Label shall be black print on white background.
  5. Label shall be two lines of text. First line shall have near end building information. Second line shall have far end building information followed by cable type and pair count.
  6. All letters in labels and identifiers shall be capital letters.

- **Example of labeled copper cable:**

$$\text{MP089-B.205-BET01.001} / \text{MP099-1.110-BET01.001-U.025}$$

$$\text{MP099-1.110-BET01.001-U.025}$$

$$\text{MP099-1.110-BET01.001} / \text{MP089-B.205-BET01.001-U.025}$$

$$\text{MP089-B.205-BET01.001-U.025}$$
NOTES:

1. LABELS SHALL BE PLACED NO CLOSER THAN 12" FROM POINT OF ENTRY INTO COPPER PATCH PANEL OR SPLICE CASE.
2. LABEL SHALL BE VISIBLE / VIEWABLE FROM POINT OF FINAL RESTING ORIENTATION.
3. LABEL SHALL BE MECHANICALLY IMPRINTED, SMEAR RESISTANT, FADE RESISTANT, WRAP AROUND, SELF-LAMINATING TYPE.
4. LABEL SHALL BE BLACK PRINT ON WHITE BACKGROUND.
5. LABEL SHALL BE TWO LINES OF TEXT. FIRST LINE SHALL HAVE NEAR END BUILDING INFORMATION. SECOND LINE SHALL HAVE FAR END BUILDING INFORMATION FOLLOWED BY CABLE TYPE AND PAIR COUNT.
6. ALL LETTERS IN LABELS AND IDENTIFIERS SHALL BE CAPITAL LETTERS.

FIGURE B-14: COPPER BACKBONE/DROP CABLE LABELING SCHEME (BUILDING TO FIELD SITE)
Figure B-15: Copper Patch Cord Labeling Scheme (Patch Panel to Patch Panel)

1. Label shall be placed no closer than 6" from connection point.
2. Label shall be visible/viewable from point of final resting orientation.
3. Label shall be mechanically imprinted, smear resistant, fade resistant, wrap around, self-laminating type.
4. Label shall be black print on white background.
5. All letters in labels and identifiers shall be capital letters.

Notes:
- Near End Patch Cord Label Information
-_far_end_patch_panel_port_number_patch_cord_is_plugged_into
-_far_end_patch_panel_sequential_number
-_far_end_patch_panel_identifier
-_far_end_patch_panel
-_far_end_cabinet/rack_identifier
-_far_end_cabinet/rack_sequential_number
-its-r1-pp01.04 / its-r1-pp01.23

- Near End Cabinet/Rack Information
-_cabinet/rack_system/owner
-_near_end_cabinet/rack_identifier
-_near_end_cabinet/rack_sequential_number
-_near_end_patch_panel_port_number

- Far End Patch Cord Label Information
-_far_end_patch_panel_port_number_patch_cord_is_plugged_into
-_far_end_patch_panel_sequential_number
-_far_end_patch_panel_identifier
-_far_end_patch_panel
-_far_end_cabinet/rack_identifier
-_far_end_cabinet/rack_sequential_number
-its-r1-pp01.04 / its-r1-pp01.23

- Information Label
-_patch_cord
-_near_end
-_far_end

- Example of Labeled Copper Patch Cord
-its-pp-pp01.3 / its-pp-pp01.04

- ITS-R1-PP01.04 / ITS-R1-PP01.23
- ITS-R1-PP01.23 / ITS-R1-PP01.04
1. Label shall be placed no closer than 6" from connection point.
2. Label shall be visible/viewable from point of final resting orientation.
3. Label shall be mechanically imprinted, smear resistant, fade resistant, wrap around, self-laminating type.
4. Label shall be black print on white background.
5. All letters in labels and identifiers shall be capital letters.

**Figure B-16: Copper Patch Cord Labeling Scheme (Device/Equip to Device/Equip)**
NOTES:

1. Label shall be placed no closer than 6" from connection point.
2. Label shall be visible/viewable from point of final resting orientation.
3. Label shall be mechanically imprinted, smear resistant, fade resistant, wrap around, self-laminating type.
4. Label shall be black print on white background.
5. All letters in labels and identifiers shall be capital letters.

**FIGURE B-17: COPPER PATCH CORD LABELING SCHEME (DEVICE/EQUIP TO PATCH PANEL)**
NOTES:
1. COPPER PATCH PANEL SHALL BE LABELED ON PATCH PANEL COVER ON LEFT SIDE WITH PATCH PANEL IDENTIFIER. LABEL SHALL BE CENTERED ON PATCH PANEL VERTICALLY. MULTIPLE PATCH PANELS IN CABINET/RACK SHALL BE LABELED SEQUENTIALLY. ALL PATCH PANELS SHALL BE LABELED.
2. PATCH PANEL PORTS SHALL BE LABELED WITH PORT IDENTIFIER.
3. ALL LETTERS IN LABELS AND IDENTIFIERS SHALL BE CAPITAL LETTERS.
4. PATCH PANEL AND PORT LABELS, PRE-LABELED FROM THE MANUFACTURER MAY BE USED IN LIEU OF MANUAL LABELING, AS LONG AS MANUFACTURER LABELS ARE CLEARLY VISIBLE AND DISTINGUISHABLE BY MARKING. ETCHED MANUFACTURER LABELS, WITH NO COLOR DISTINCTION FROM THE SURFACE LABEL IS ETCHED INTO, SHALL BE LABELED OVER PER LABELING SPECIFICATIONS.

FIGURE B-18: COPPER PATCH PANEL LABELING SCHEME
BUILDING ENTRANCE TERMINAL "BET" SHALL BE LABELED ON BET COVER WITH BET IDENTIFIER. LABEL SHALL BE PHENOLIC TAG TYPE. PHENOLIC TAG SHALL BE NO LESS THAN 1 INCHES TALL AND LABEL LETTERS/NUMBERS SHALL BE NO LESS THAN 1/2 INCHES TALL. LABEL SHALL BE BLACK PRINT ON WHITE BACKGROUND. LABEL SHALL BE FASTENED TO BET COVER AND CENTERED NEAR TOP OF BET. MULTIPLE BET'S SHALL BE LABELED SEQUENTIALLY. ALL BET'S SHALL BE LABELED.

1. BUILDING ENTRANCE TERMINAL "BET" SHALL BE LABELED ON BET COVER WITH BET IDENTIFIER. LABEL SHALL BE PHENOLIC TAG TYPE. PHENOLIC TAG SHALL BE NO LESS THAN 1 INCHES TALL AND LABEL LETTERS/NUMBERS SHALL BE NO LESS THAN 1/2 INCHES TALL. LABEL SHALL BE BLACK PRINT ON WHITE BACKGROUND. LABEL SHALL BE FASTENED TO BET COVER AND CENTERED NEAR TOP OF BET. MULTIPLE BET'S SHALL BE LABELED SEQUENTIALLY. ALL BET'S SHALL BE LABELED.

2. BET'S SHALL BE LABELED ON BET COVER WITH CABLE LABELS OF ALL CABLES TERMINATED IN THE BET. LABELS SHALL BE PHENOLIC TAG TYPE. PHENOLIC TAG SHALL BE NO LESS THAN 1 INCHES TALL AND LABEL LETTERS/NUMBERS SHALL BE NO LESS THAN 1/2 INCHES TALL. LABELS SHALL BE BLACK PRINT ON WHITE BACKGROUND. LABELS SHALL BE FASTENED TO BET COVER ON LEFT SIDE OF BET. ALL CABLES TERMINATED IN BET'S SHALL BE LABELED.

3. ALL LETTERS IN LABELS AND IDENTIFIERS SHALL BE CAPITAL LETTERS.

4. INSIDE OF BET SHALL BE LABELED WITH LABEL STRIP. LABEL STRIP SHALL INDICATE FIRST TERMINATION PAIR AND EVERY FIFTH TERMINATION PAIR. FIRST LEVEL BACKBONE LABEL STRIPS SHALL BE BLACK PRINT ON WHITE BACKGROUND. SECOND LEVEL BACKBONE LABEL STRIPS SHALL BE BLACK PRINT ON GRAY BACKGROUND. LABEL STRIPS, PRE-LABELLED FROM THE MANUFACTURER MAY BE USED IN LIEU OF MANUAL LABELING. AS LONG AS MANUFACTURER LABELS ARE CLEARLY VISIBLE AND DISTINGUISHABLE BY MARKING.
NOTES:
1. ALL DEVICES & EQUIPMENT SHALL BE LABELED.
2. LABEL SHALL BE BLACK PRINT ON WHITE BACKGROUND.
3. ALL LETTERS IN LABELS AND IDENTIFIERS SHALL BE CAPITAL LETTERS.
4. LABELS SHALL BE AFFIXED TO CAMERAS SO LABELS ARE IN VISIBLE AREA OF VIEW.
5. MULTIPLE DEVICES & EQUIPMENT SHALL BE LABELED SEQUENTIALLY.

MP089.WB-CAM01

EXAMPLE OF LABELED DOME CAMERA

EXAMPLE OF LABELED 'BULLET' CAMERA

FIGURE B-20: DEVICE LABELING SCHEME

Illinois Tollway
FIGURE B-21: COAXIAL DROP CABLE LABELING SCHEME

NOTES:
1. LABEL SHALL BE PLACED NO CLOSER THAN 12" FROM POINT OF CONNECTION INTO DVR OR CAMERA.
2. LABEL SHALL BE VISIBLE/VIEWABLE FROM POINT OF FINAL RESTING ORIENTATION.
3. LABEL SHALL BE MECHANICALLY IMPRINTED, SMEAR RESISTANT, FADE RESISTANT, WRAP AROUND, SELF-LAMINATING TYPE.
4. LABEL SHALL BE BLACK PRINT ON WHITE BACKGROUND.
5. LABEL SHALL BE TWO LINES OF TEXT. FIRST LINE SHALL HAVE NEAR END COMPONENT/EQUIPMENT INFORMATION. SECOND LINE SHALL HAVE FAR END COMPONENT/EQUIPMENT INFORMATION FOLLOWED BY CABLE TYPE AND CABLE SERIES.
6. ALL LETTERS IN LABELS AND IDENTIFIERS SHALL BE CAPITAL LETTERS.
FIGURE B-22: AVI DROP CABLE LABELING SCHEME

NOTES:
1. LABEL SHALL BE PLACED NO CLOSER THAN 12" FROM POINT OF CONNECTION INTO AV CONTROLLER OR RECEIVER.
2. LABEL SHALL BE VISIBLE/VIEWABLE FROM POINT OF FINAL RESTING ORIENTATION.
3. LABEL SHALL BE MECHANICALLY IMPRINTED, SMEAR RESISTANT, FADE RESISTANT, WRAP AROUND, SELF-LAMINATING TYPE.
4. LABEL SHALL BE BLACK PRINT ON WHITE BACKGROUND.
5. LABEL SHALL BE TWO LINES OF TEXT. FIRST LINE SHALL HAVE NEAR END COMPONENT/EQUIPMENT INFORMATION, SECOND LINE SHALL HAVE FAR END COMPONENT/EQUIPMENT INFORMATION FOLLOWED BY CABLE TYPE AND CABLE SERIES.
6. ALL LETTERS IN LABELS AND IDENTIFIERS SHALL BE CAPITAL LETTERS.
NOTES:
1. LABEL SHALL BE PLACED NO CLOSER THAN 12" FROM POINT OF CONNECTION INTO POWER SUPPLY OR EQUIPMENT POWERED.
2. LABEL SHALL BE VISIBLE/EVERVAILABLE FROM POINT OF FINAL RESTING ORIENTATION.
3. LABEL SHALL BE MECHANICALLY IMPRINTED, SMEAR RESISTANT, FADE RESISTANT, WRAP AROUND, SELF-LAMINATING TYPE.
4. LABEL SHALL BE BLACK PRINT ON WHITE BACKGROUND.
5. LABEL SHALL BE TWO LINES OF TEXT. FIRST LINE SHALL HAVE NEAR END COMPONENT/EQUIPMENT INFORMATION. SECOND LINE SHALL HAVE FAR END COMPONENT/EQUIPMENT INFORMATION FOLLOWED BY CABLE TYPE AND CABLE SERIES.
6. ALL LETTERS IN LABELS AND IDENTIFIERS SHALL BE CAPITAL LETTERS.

FIGURE B-23: POWER CABLE LABELING SCHEME
APPENDIX C

ITS LABELING IDENTIFIERS
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<thead>
<tr>
<th>Building</th>
<th>Inside Space (Room)</th>
<th>Outside Space (Field Site)</th>
<th>Rack, Terminal, Grounding</th>
<th>Cabling</th>
<th>Device / Equipment</th>
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<td>HBE120, CAB001, BET111</td>
<td>1TS-024, U.23, BET101, 0.26</td>
<td>1SW, 01, 4SW, 01.03</td>
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**SPACE IDENTIFIERS**

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**CABLE & TERMINATION IDENTIFIERS**

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**DEVICE / EQUIPMENT IDENTIFIERS**

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