

Summary of Updates to Chapter 13-16 Traffic Signals, Signing, Pavement Markings, and Fiber Optic Conduit

Division 13-16-001: General

- Add references for Intelligent Transportation System (ITS) design guide and standard drawings, which apply to conduit for fiber optic lines.
- Specify latest edition of structural specifications for signal and streetlight poles and arms.
- Update name of board that issues Professional Traffic Operations Engineer certifications.

Division 13-16-002: Signal Design Elements

- Foundation and pull box schedules, and right-of-way and easements to be included on the signal plan. This should encourage the designer to check that all pole and pull-box location requirements are met, and enable plan reviewer to check and verify this.
- Call attention to the requirement that pedestrian pushbuttons be located per the Manual on Uniform Traffic Control Devices (MUTCD) and the Americans with Disabilities Act.
- Clarify where seven-conductor and four-conductor cables need to be installed.
- Update type and size of conduit, and type and spacing of pull boxes for future fiber optic installation.
- Specify how bends in fiber optic conduit are to be accomplished.

Division 13-16-003: Signal Equipment

- Add specification for type of traffic signal controller.
- Include fiber termination module in controller cabinet.
- Update Uninterruptable Power Supply (UPS) specification. UPS is a battery backup system that allows the signal to continue operating during a commercial power outage.
- Add fiber optic pull box to pull box section, and new detail drawing for fiber pull box.
- Include yellow reflective strip on signal backplates.
- Install accessible pedestrian signals in compliance with the ADA.
- Update vehicle detection system section to match current state of the practice.

Division 13-16-004: Signal Construction

- Update Signal Shop address and contact information.
- Require a certified technician for fiber optic installation and splicing.
- Clarify that contractor is responsible for cost of over-the-counter electrical permit.

Division 13-16-005: Traffic Signs

- Reorder section to list general requirements first, followed by requirements for signs at traffic signals.
- Specify use of an improved bracket for mounting street name signs on traffic signal poles and arms.
- New detail drawing for street name sign installation on standard posts.

Division 13-16-006: Pavement Markings

- Clearly define what is included in Transverse Markings, Symbols, and Legends section.
- Edit for consistent format.

Division 13-16-007: Fiber Optic Conduit

- New section for installation of conduit for future fiber optic cables.