

## WHAT'S NEW

New Products, materials, requirements, and installation methods required on MnDOT Signal and Lighting System construction projects that have been implemented in the past 5 years

- Precast concrete foundations and equipment pads are now listed on MnDOT's APL- Precast Concrete & Qualified Suppliers
- Anchor rods are required to have both the permanent grade ID (steel die stamped) and the grade color coding on the end of the anchor rod projecting from the concrete
- Light Tower foundation designs for high mast light towers have been updated to meet current AASHTO LRFD specifications
- PVC coated junction boxes for underpass lights to use on bridges listed on MnDOT's APL-Lighting
- 12-foot ground rods required for signal handholes (used to be 15 foot)
- 10-foot ground rods required for equipment pads and foundations (used to be 15 foot)
- Cat5E cable testing is required
- No splices in traffic signal control cable. Cables installed from the termination points without splicing.
- New signal head pedestal pole listed on MnDOT's APL – Signals. Replaces Pedestal and Pedestal Base Standard Plate 8122
- DTI washers for structural bolting of mast arms to signal poles are supplied by the pole manufacturer
- The inner lip has been inverted in the stainless steel light pole base plate design
- High Mast Light Towers are now required to be galvanized. Weathering steel (Corten) is no longer used.
- Anchor Rod Tightening Handbook is required to be followed for anchor rod tightening
- Required anti-seize lubricants or threads on bolts and anchor rods are listed on MnDOT's APL. A specific type of anti-seize lubricant is required when dissimilar metals exist with the bolted or anchor rod joints.
- 5-Lane Application LED Luminaires on the MnDOT's APL-Lighting
- ATC 350 and 352 Cabinets
- Updated Hazardous Waste Disposal Requirements (see Special Provisions)
- Spec. Book 3842 "Electrical Systems Compounds and Lubricants" and Special Provisions now clarify several different types of compounds – ECK, No-Ox, Ferrous Metal Electrically Conductive Compound
- AeroFlex Backplates are on the APL
- Grounding has been updated for High Mast Lighting Towers