TRAFFIC ENGINEERING SUPPLIES

# ISSP Traffic Engineering Purchase Instructions

Instructions for the purchase of Traffic Engineering items **ONLY** from the Traffic Engineering Lists below:

1.  VDOT TED is responsible for identifying the vendor, part number, and negotiate price for the listed Traffic Engineering Items.

2.  VDOT TED will provide a VDOT330 to Mancon including the vendor, part number, quantity, and cost (printed quote is preferred). Using LABTRAFFICENG as the ISSP item number and adding the quoted item number into the description on the VDOT330.
3.  Vendor orders will be drop-shipped to VDOT TED.
4.  VDOT TED is responsible for receipt and informing Mancon of receipt.  If the vendor invoice is provided at delivery, it will be forwarded to Mancon ASAP.
5.  Mancon shall receive and bill VDOT for items. VDOT TED will electronically sign for acceptance.
6.  Bulk orders will occur periodically, approximately every 3-4 weeks by district, however other smaller orders could occur for unusual circumstances. Mancon is not responsible for handling items. Mancon is not required to stock Traffic Engineering specialty items.

# TRAFFIC ENGINEERING SUPPLIES

## Maintenance Only

| JUNCTION BOXES AND COMPONENTS | CABLE, WIRE, AND ACCESSORIES | COMMUNICATIONS EQUIPMENT & COMPONENTS |
|---|---|---|
| • Traffic Signal Junction Box<br>• Junction Box Cover<br>• Uninterruptible Power Supply Cabinet<br>• Flasher Cabinet<br>• Add-on Communication Cabinet<br>• Pleated Air Filter<br>• Riser Base Adapter<br>• Thermostatic Controlled Cooling Fan | • Coaxial Cable, SJ Cable<br>• Signal & Power Cable<br>• Tether Span Cable<br>• Span Cable<br>• Strand Link, Strand Vise<br>• THHN Wire<br>• Solid Copper Wire<br>• Rain-Tight Service Hub<br>• Emergency Vehicle Preemption (EVP) Cable | • Wireless Traffic Signal Network control radio & Antenna<br>• Radio Cable Connector<br>• Radio Surge Panel<br>• Antenna Cable<br>• CATSE Ethernet Cable<br>• CATS Ethernet Cable Connectors<br>• Digital Modem (Digi-Box)<br>• DIN Rail |
| **CONDUIT AND ACCESSORIES** | **ELECTRICAL AND UPS COMPONENTS** | **LEDs AND BLUBS** |
| • Conduit (Ridge, PVC, Galvanized, etc.)<br>• Conduit Body<br>• Conduit Body Gasket<br>• Conduit Body Cover<br>• Bushing<br>• Conduit Coupling, Conduit Fittings<br>• Elbow, Nipple, Locknuts<br>• Conduit Union,<br>• Two-Hole Straps<br>• Super Strut, Strut Clamps<br>• Stand-Off Hanger<br>• Service Entrance Cap<br>• Duct Seal, PVC Glue & Primer<br>• Conduit Hubs<br>• Set Connectors | • Twist-Lock NEMA L% Cable<br>• Service Disconnect Switch<br>• Breaker Box<br>• Meter Base<br>• Circuit Breaker<br>• Power Supply<br>• Surge Protector<br>• Line Filter<br>• Terminal Strip<br>• Ground System (Road, Connector, Coupler, etc.)<br>• Splice Kit<br>• UPS Power System (Inverter Power Unit, Bypass Switch, Battery, Battery Harness, Interface Panel) | • 12" Signal LEDs (Balls, Arrows, and U-Turn)<br>• Pedestrian Signal LEDs (Countdown, Man/Hand)<br>• Programmable View LED<br>• Fluorescent Tube<br>• LED Indicator Blubs<br>• LED Cabinet Light<br>• LED Street Light Fixtures<br>• Photo Cells<br>• LED Replacement Blubs<br>• Solar Powered Flasher & Components |

# TRAFFIC ENGINEERING SUPPLIES

| TESTING EQUIPMENT WITH CALIBRATION AND TRAINING | TRAFFIC DETECTION EQUIPMENT & COMPONENTS | SIGNAL HEADS AND ACCESSORIES |
|---|---|---|
| <ul><li>MMU Tester</li><li>Grounding Tester</li><li>Intersection Display Panel</li><li>Cable Locator</li></ul> | <ul><li>Loop Amplifier</li><li>Amplifier Harness</li><li>Video Detection Processor</li><li>Video Detection Camera</li><li>Interface Harness</li><li>Data Collection Modules</li><li>Ethernet Protection Module & Junction Box</li><li>Video Detection Power Panel</li><li>Video Detection Surge Panel</li><li>Video Monitor</li><li>Video Adaptors & Cables</li><li>Pedestrian Push Button Equipment</li><li>Emergency Vehicle Preemption (EVP) Detection Equipment</li></ul> | <ul><li>Aluminum Traffic Signal Head</li><li>Poly Traffic Signal Head</li><li>Pedestrian Signal Head</li><li>Signal Head Visor (Traffic Signal & Pedestrian Signal)</li><li>Signal Head Backplate</li><li>Signal Head Visor (Traffic Signal $ Pedestrian Signal)</li></ul> |
| **SIGNAL CONTROL COMPONENTS** | **SIGNAL/SIGN BRACKETS AND POLES** | **MISCELLANEOUS HARDWARE** |
| <ul><li>Malfunction Management Unit (MMU)</li><li>Conflict Monitor</li><li>Load Switch/Switch Pack</li><li>Flash Transfer Relay</li><li>NEMA Flasher Module</li><li>Control Cabinet Power Supply</li><li>Bus Interface Unit (BIU)</li><li>AVA Technology LED Lights</li><li>Card Rack</li><li>Card Rack Power Supply</li><li>EDI Detector cards</li><li>SDLC Cable</li><li>Flasher Relay</li><li>Detector Interface Panel</li></ul> | <ul><li>Signal Mounting Bracket</li><li>Signal Mounting Tube</li><li>Signal Mounting Kit</li><li>Camera Mount Bracket</li><li>Sign Hanger Assembly</li><li>Sign Tube Bracket</li><li>Span Wire Signal Hanger</li><li>U-Bolt Kit</li><li>Signal Tether Bracket & Assembly</li><li>Signal Tether Clamp</li><li>Tri-Stud Bracket (upper & lower)</li><li>Post Top Signal Assembly</li><li>Signal Side hanger (upper & Lower)</li><li>Span Wire Clamp</li><li>Balance Adjuster</li><li>Extender Bracket</li><li>Pedestal Pole, Base, & Collar</li><li>Guy Wire Clamp and Cover</li><li>Hand Hole Cover</li><li>Pole Clamp</li></ul> | <ul><li>Bolts (Oval Eye, Hub Eye)</li><li>Hub-Eye adapter</li><li>Square Nut</li><li>Square Washer</li><li>Signal Pole Bolt</li><li>Signal Pole Nut</li><li>Signal Pole Washer</li><li>Rubber Grommets</li><li>Rodent Screen</li></ul><br>**PRODUCT REPAIRS**<br><ul><li>MMU</li><li>Video Processor</li><li>Video Camera</li><li>Radio</li><li>Preemption Processor Card</li><li>Preemption Detector</li><li>Power Supply</li><li>Communication Equipment (Router, Ethernet Switch, Firewall Equipment)</li><li>LED</li><li>BIU</li><li>Fiber Optic Equipment</li><li>Flashing Chevron</li></ul> |