



QUALIFIED ELECTRICAL PRODUCTS LIST

Materials from the companies listed herein are pre-qualified for use on Wisconsin Department of Transportation projects in accordance with all applicable specifications and/ or Policy Memoranda. These materials have been inspected, tested, or evaluated for use.

All materials used are subject to inspection and testing and possible rejection for use in accordance with the Standard Specifications.

Materials approved for use based on Underwriters Laboratory (U.L.) or National Recognized Testing Laboratory(NRTL) listing shall be marked or identified with the U.L. or NRTL label markings.

In addition to being supplied from an approved manufacturer(listed herein) poles, arms, standards, and bases require additional documentation as detailed in Section 657 of the Standard Specifications.

Important note: All iron and steel products supplied must be in compliance with "Buy America" provisions.

Certification documentation is required and shall state the iron and steel used in the product was:

- Melted and manufactured in the US
- Was coated , galvanized, or painted in the US
- All fabrication, such as rolling, bending ,forming, drilling ,machining , extruding etc. was done in the US

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Approved Electrical Materials List and Updates to the Standard Electrical Specifications

Last updated: 2/3/2011

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ELECTRICAL PRODUCTS

Material	Company
(a) PVC-to-Metallic-Male Terminal conduit (size) Adaptors	U.L. or NRTL listed
(b) Cast Iron "T" Condulets with Domed, Wedgenut Type Covers:	Crouse Hinds:(body, cover w/gasket) O-Z/Gedney: (body, cover w/gasket) Thomas & Betts: (body, cover w/gasket) 573-T&B Gasket
(a) Bushings:	O.Z. Gedney T&B Appleton Rigid Metallic Conduit: Allied Steel-Wheatland or equal U.L. or NRTL listed
(b) Steel Threaded Protective Caps: (c) PVC Protective Caps or Plugs:	U.L. or NRTL listed
Zinc Rich-Galvanizing Paint: (80% zinc - cold galvanizing compound	Z.R.C. Galvalite Galva - weld ZYP Coatings
Expansion Fittings:	U.L. or NRTL listed
(a) PVC Non-Metallic Conduit:	U.L. or NRTL listed
(b) Rigid Metallic Conduit:	U.L. or NRTL listed
Junction Boxes (Hot Dipped Zinc Coating)	Appleton(WYR Series- various sizes) O.Z. Gedney(YR Series- various sizes) Spring City (ER- various sizes)
Pressure or Compression Type Connectors:(to be used per listing	UL or NRTL listed
(a) Wire Nuts (Soft Cover): Use for traffic signal bases	U.L. or NRTL listed
(b) Butt Splices (Non-Insulated) Use for loop detector splicing	U.L. or NRTL listed
(c) Solderless Lugs: Use for cabinet termination connections, pull box, junction box and breakaway base grounding.	U.L. or NRTL listed
(d) Split Bolts: Use for light pole base wiring	U.L. or NRTL listed
(e) Insulated Terminal Blocks:Use for light pole base wiring	U.L. or NRTL listed
Electrical Coating (Varnish):	3M (Scotchkote)
Secondary-In line Fuse Holder Assembly w/insulated rubber boot (for 13/16"x 1 1/2" Midget Fuses) with breakaway features	Bussmann: HED(Breakaway/Single Pole) HED(Breakaway Double Pole) Littelfuse: LED(Breakaway/Single Pole) LEX(Breakaway Double Pole) Gould Shawmut: FED(Breakaway/Single Pole) FEX(Breakaway Double Pole)
Splice Kits:	3M
Electrical Tape - High Voltage (Rubber):	3M Plymouth Okonite
Electrical Tape (Vinyl):	3M-33+ Plymouth Okonite
Traffic Signal Faces	McCain General Traffic Equipment Control Corp. TCT LFE Automatic Signal
Programmable Traffic Signal Faces	Intelight
LED Traffic Signal and Pedestrian Lenses:	Leotek GELcore Dialight American LED Signal, Inc.



Standard Electrical Specifications

updated: 9/22/2009

Material	Company
Poles: Shall conform to Section 657, Standard Specifications for Highway and Structure Construction (Recommended Manufacturers)	The below noted are pre-qualified sources for poles. Per the requirements of Section 657 a certification of compliance and shop drawings are to be furnished for all poles.
(a) Steel:	Ameron Valmont Union Metal Millerbernd Hapco Maico Lexington Hapco Flagpole
(b) Aluminum:	

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Pedestal Bases:	The below noted are pre-qualified sources for bases. A certification of compliance is required for all contracts. TAPCO (Traffic and Parking Control Co. TP358-3A) Component Products Inc. Alloy Casting (A.C.T.B.) 14 inch-S; Akron Foundry Company TS-1000
Transformer Bases:	Akron TB1-17, TB2-17, TB3-17 TAPCO 201-5 Lexington 08R1012B17
Aluminum Pole Coated W/Approved Corrosive Protection:	"On-Guard" (non-corrosive seal)

Mounting Hardware:	Automatic/ Eagle Crouse Hinds Mast-O-Bracket SECO Series 40 The below components are to supplied with this hardware Monotube Main Mount- Component ID: 8214 Swivel for Main Mount- Component ID :8215 Signal Mounting Arm Bottom- WEB-2 - Component ID :8234 Signal Mounting Arm Top- WET-2 - Component ID :8315 Aluminum Tube, Schedule 40 Olson Aluminum Castings The below components are to supplied with this hardware Signal Mast Arm Mounting Kits- Part Number SB-29-46 Standard Clamp Kit(Stainless Steel Banding)- Part Number SB29-SCK Standard Clamp Kit(Stainless Steel Cable)-Part Number SS-SBC90-SCK Pelco Astro Brac TAPCO Traffic Parts Inc. TSW
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Pinnacles :	Automatic/ Eagle TSW Traffic Parts Inc. TAPCO
Neoprene Washers/Rubber:	Automatic/Eagle TSW Traffic Parts Inc. TAPCO
Pedestrian Push Buttons:	Campbell Company 4Ever-120, 3-inch Round Solid State Piezo Button with acknowledgement LED and Buzzer Polara Engineering BullDog

Luminaires:	
Underdeck:	American Electric, sidelite Holophane-Wallpack WL2K
Utility: (3G Vibration Rated)	AEL American Electric 315(150 Watt only, 3G Vibration Rated) AEL American Electric 325 Series (250 - 400 Watt, 3G Vibration Rated) GE MDCL Series

Sign Lighting:	Holophane PANL 250 HP-XX-D-G-F1-4Bolt
High Mast:	General Electric, HMA Holophane, HMTSC
Miscellaneous Lighting:	Kenell (Walkway Tunnel Lighting; Weigh Scales; Rest Areas)
Lamps: HPS, MV-DX	General Electric Phillips Osram Sylvania



**Approved Electrical Materials List and Updates to the
Standard Electrical Specifications**

Last updated: 5/24/2010

Material	Company
Insulating Putty:	3M Plymouth Okonite
Lowering Devices H.M.L.:	Holophane American High Mast Millerbernd General Electric
Photo Cells:	Area Lighting Research Inc. Paragon Precision Tork Intermatic (# 4021) Fisher Pierce Ripley Dark to Light
Portable Temporary Traffic Signals, Electric / Solar Powered	OMJC Signal, Inc. Horizon Signal SQ3

Ramp Closure Gates:
Solar Powered <u>Component List</u> MU-605 Gate Assembly (B & B) Worm Gear Winch 2000 Lbs. WG 2000 (Dutton Lianson) Soalr Module BSP 6512(Power-Up) Control Cabinet (TAPCO) Battery 8A27 - Deka (MK Battery) 12 VAC Arm Light Flasher (B & B) Solar Controller - Pro Star 30 (Morning Star Corp.)
Electric Powered <u>Component List</u> MU-605 Gate Assembly (B & B) Worm Gear Winch 2000 Lbs. WG 2000 (Dutton Lianson) 12 VAC Arm Light Flasher (B & B)