



Traffic Operations

APPROVED PRODUCTS LIST

**TRAFFIC SIGNALS AND HIGHWAY
LIGHTING EQUIPMENT**

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

TRAFFIC SIGNALS AND HIGHWAY LIGHTING EQUIPMENT

I. GENERAL

This Approved Products List (APL) is based on equipment meeting department specifications and being tested for the specified test period with satisfactory performance. All models shall conform to the latest revision of the Missouri Standard Specifications for Highway Construction unless otherwise indicated. The models indicated on the list are approved, but are subject to final field inspection before acceptance.

The department frequently tests new products and equipment for traffic signals and highway lighting. These new products may be installed on a construction project, purchased on parts orders or with controller orders. Vendors may also submit items, at no cost to the department, for the test period. Only a limited number of units will be accepted for test statewide until an item is added to the Approved Products List. A vendor wishing to initiate a test on a new product shall submit a Product Evaluation Request Form - Signal and Lighting Equipment. Copies of this form can be obtained from our website at www.modot.state.mo.us or contact MoDOT Traffic Operations. Minor model changes do not require an evaluation period, although the vendor shall submit specification sheets and a sample of the product for the Department to inspect.

All equipment evaluations are coordinated through MoDOT Traffic Operations. The vendor supplying the equipment shall provide equipment specifications and a certification that the equipment meets department specifications before the test is performed. The equipment is tested for the period specified on the APL. Products that are not performing satisfactorily will be replaced with an approved product if the vendor cannot provide timely correction of the problem or if unsatisfactory operation of the intersection results.

If a vendor is proposing a product that does not meet department specifications, an explanation of why the product meets or exceeds the current specifications must be provided by the vendor in writing to Traffic Operations. If approved, the product may be tested for the specified period as described above. If the product is satisfactory, the Department will consider a revision to the applicable specifications. Products will not be added to the Approved Products List that do not meet department specifications.

Products on the APL shall continue to perform satisfactorily. In addition, the vendors shall support the products. Products not performing as required or not supported are subject to removal from the APL.

Grounds for removal of products include but are not limited to:

- Significant change in product specifications or design without notification to the department.

- Failure to correct or replace products that are defective in manufacturing or workmanship.

- Repeated patterns of malfunctions of a product not adequately corrected by the vendor.

- Unreasonable pricing of repair parts or repair work. Repair work not completed in a reasonable time frame.

- Excessive delivery times for new purchases or replacement parts.

Changes in standard specifications may also necessitate removal of specific products from the APL. If this occurs, there will be a grace period where the product will be retained on the list after the specifications are changed. However the product will be removed from the list if it is not revised to meet specifications.

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

II. TRAFFIC SIGNAL EQUIPMENT

All traffic signal equipment requires a one-year evaluation period.

CONTROLLERS

NEMA TS1 CONTROLLERS

MODEL

Eagle.....	EPAC Genesis M40
Eagle.....	EPAC M42
Eagle.....	EPAC M52
Econolite.....	ASC/2-2100
Econolite.....	ASC/2S-2100
Econolite.....	ASC/3-2100
Naztec.....	980
Peek.....	3000
Traffic Control Technologies (TCT).....	LMD-8000

NEMA ON-STREET MASTER CONTROLLER

MODEL

Eagle.....	MARC 360
Econolite.....	KMC-10,000
Econolite.....	ASC/2M

SOLID STATE PRETIMED CONTROLLERS (ALL TYPES)

MODEL

Eagle.....	EPIC Series
Traffic Control Technologies (TCT).....	LMD 40 Series

170 CONTROLLERS

MODEL

Eagle.....	170E
McCain.....	170E
Phillips/Sisson Industries, Inc.	170E
Safetran.....	170E

CABINETS AND BACK PANELS (NEMA & S.S. PRETIMED)

NOTE: Cabinets and Back panels that meet MoDOT specifications from the following manufacturers will be accepted. ALL other manufacturers must provide a model that meets specifications and complete a satisfactory one-year evaluation as described above to be added to the list.

NEMA CABINET AND BACK PANEL ASSEMBLIES

- Control Technology
- Eagle
- Econolite
- Henke/Bison
- IDC/Gibbons
- Naztec P-44

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

SOLID STATE PRETIMED CABINET AND BACK PANEL ASSEMBLIES

Eagle

CABINETS AND RACKS (TYPE 170 CONTROLLERS)

NOTE: Cabinets and Racks that meet MoDOT specifications from the following manufacturers will be accepted. ALL other manufacturers must provide a model that meets specifications and complete a satisfactory one-year evaluation as described above to be added to the list.

332 AND 336S CABINET AND RACK ASSEMBLIES

McCain
Phillips/Sisson Industries, Inc.
Safetran

CONFLICT MONITORS

NEMA CONFLICT MONITORS

MODEL

Eberle Design Incorporated (EDI).....	NSM-6
Eberle Design Incorporated (EDI).....	NSM-12
Eberle Design Incorporated (EDI).....	SSM-12LE
Eberle Design Incorporated (EDI).....	MMU-16E
Eberle Design Incorporated (EDI).....	MMU-16LE
Naztec, Incorporated	NM512
Peek/Transyt.....	1200
Power Distribution & Control (PDC).....	CM82-03
Power Distribution & Control (PDC).....	CM82-06
Power Distribution & Control (PDC).....	CM82-12
Reno A&E	MMU-1600D
Reno A&E	MMU-1600G
Solid State Devices.....	NM-6
Solid State Devices.....	NM-12
Solid State Devices.....	LCD-6P
Solid State Devices.....	LCD-12P

170 CONFLICT MONITORS

MODEL

Eberle Design Incorporated (EDI).....	210E
Reno A & E	2018
Solid State Devices.....	210P

CABINET ACCESSORIES

AUXILIARY TIME CLOCK

MODEL

Eltec	NTC-17E
Eltec	TC-14
RTC.....	AP41

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

EXTERNAL T.B.C. COORDINATORS **MODEL**

EltecTC-14

**FLASHERS
(NEMA & 170)** **MODEL**

Eberle Design Incorporated (EDI).....810
 Power Distribution & Control (PDC).....SSF-86
 Power Distribution & Control (PDC).....SSF-88
 Reno A & EFL-200
 Traffic Sensor Corp.....204
 Traffic Sensor Corp.....204-15
 Traffic Sensor Corp.....304
 Traffic Sensor Corp.....304-15

FLASH TRANSFER RELAYS **MODEL**

AMECO136-4962
 Struthers-Dunn.....21ACPX-2/21ACPXD-5
 Mid-Tex136-62T-3A1
 Power Distribution & Control (PDC).....FTR 91
 RenoTR-200

**LOAD SWITCHES
(NEMA & 170)** **MODEL**

Eberle Design Incorporated (EDI).....510
 Power Distribution & Control (PDC).....SSS-86
 Power Distribution & Control (PDC).....SSS-88
 Reno A & ELS-200
 Traffic Control Technologies (TCT)SSS-86
 Traffic Sensor Corp.....200
 Traffic Sensor Corp.....200-15
 Traffic Sensor Corp.....300
 Traffic Sensor Corp.....300-15

**ISOLATORS (170 only)
(242=DC, 252=AC)** **MODEL**

GDI.....242
 GDI.....252
 Power Distribution & Control (PDC).....242
 Power Distribution & Control (PDC).....252
 Safetran242
 Safetran252

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

SURGE PROTECTORS

MODEL

Edco.....SHA 1210
Edco.....SHA-1250

TONE RECEIVERS

MODEL

InivenIR30M-05-30

TONE TRANSMITTERS

MODEL

InivenIT30

DETECTORS

MICROWAVE DETECTORS

MODEL

Microwave Sensors.....TC-26B
Electronic Integrated Systems, Inc. (EIS)RTMS X-2

MICROLOOP, PROBE

MODEL

3MCanoga 701

PEDESTRIAN PUSH BUTTONS

MODEL

POWER SUPPLY FOR CARD RACK DETECTORS - NEMA

MODEL

ICC.....PS24
PGKPS-1.2

SINGLE CHANNEL SHELF MOUNT DETECTORS, STANDARD

MODEL

Eberle Design Incorporated (EDI).....LM301
Sarasota.....535B/MS

SINGLE CHANNEL SHELF MOUNT DETECTORS, TIME DELAY

MODEL

Eberle Design Incorporated (EDI).....LM301T
Sarasota.....535T/MS

ULTRASONIC DETECTORS

MODEL

Microwave Sensors.....TC-30

**2-CHANNEL CARD RACK COUNTING
DETECTORS, DUAL OUTPUT**

Eberle Design Incorporated (EDI).....LM632

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

**2-CHANNEL CARD RACK COUNTING
DETECTORS, SINGLE OUTPUT PULSE MODE
(170) MODEL**

Sarasota.....222-GP5
Sarasota.....222 GP6

**2-CHANNEL CARD RACK COUNTING
DETECTORS, SINGLE OUTPUT PULSE MODE
(NEMA) MODEL**

Eberle Design Incorporated (EDI).....LM632T
ICC.....S27B
Reno A & EC

**2-CHANNEL CARD RACK DETECTORS, STANDARD
(170) MODEL**

Eberle Design Incorporated (EDI).....LM222
Reno A & E222
Sarasota.....222-GP5
Sarasota.....222 GP6

**2-CHANNEL CARD RACK DETECTORS, STANDARD
(NEMA) MODEL**

Eberle Design Incorporated (EDI).....LM602R
ICC.....S27B
Reno A & EC
Reno A & EG

**2-CHANNEL CARD RACK DETECTORS, TIME DELAY
(170) MODEL**

Sarasota.....222T-GP5
Sarasota.....222T GP6

**2-CHANNEL CARD RACK DETECTORS, TIME DELAY
(NEMA) MODEL**

3M.....Canoga C800 Series
Eberle Design Incorporated (EDI).....LMD602TR

SIGNAL HEADS

BACKPLATES MODEL

Chapel Hill44xx Series
IntelightBP INTLIT Series
Pelco.....BK-100x Series
Neodesia Plastics.....BP Series

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

HARDWARE

NOTE: Hardware that meets MoDOT specifications from the following manufacturers will be accepted. ALL other manufacturers must provide equipment that meets specifications and complete a satisfactory six-month evaluation as described above to be added to the list.

Pelco	
Reliable 3/8" Strandvise	5202
Reliable 1/4" Strandvise	5200

LOUVERS	MODEL
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Pelco.....	GPL
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POLYCARBONATE SIDE-MOUNT BRACKETS WITH RELATED HARDWARE	MODEL
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Component Products.....	Any
Eagle	UKS1452AB

SIGNAL HEADS - ALUMINUM CONVENTIONAL	MODEL
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Automatic/Eagle	SIG Series
McCain	MTSA Series
Safetrans/IDC	ST Series
Traffic Control Technologies (TCT)	HSS Series

SIGNAL HEADS - ALUMINUM PEDESTRIAN	MODEL
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Automatic/Eagle	SIG Series
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SIGNAL HEADS - OPTICALLY LIMITED	MODEL
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McCain	HPTS Series
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SIGNAL HEADS - POLY CONVENTIONAL	MODEL
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Chapel Hill	SIG-TPB-305-CTN-NVN-0N (3 section)
Chapel Hill	SIG-TPB-586-CTN-NVN-0N (5 section)
Eagle	SA Series
General Traffic Equipment Corp.....	T-30 POLY
IDC/Safetrans	LT Series
McCain	MTSTP Series
Traffic Control Technologies (TCT)	PSS Series

PEDESTRIAN HEAD – POLY 1-SECTION	MODEL
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McCain	M32258
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MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

PEDESTRIAN LED SIGNAL INDICATION

MODEL

Act One Communications, Inc.....	TP-16WP-1
Dialight.....	430-6473-001
Dialight.....	430-6450-001X
Duralight	JXM-400VIAIL
Excellence Opto., Inc.	TRP-C45DG-W2
Gelcore	PS7-CFC1-01A
Gelcore	PS7-CFC1-26A
Leotek.....	TSL-PED-DP-16-FS

SIGNAL LENSES-GLASS

MODEL

Eagle	PBL Series
Kopp	Any
McCain	MSP Series

POSTS AND MAST ARMS

Note: Posts and Mast Arms do not require an evaluation period. Posts and Mast Arms shall be fabricated in accordance with MoDOT specifications and standards. Posts and Mast Arms shall be pre-approved as required by the MoDOT standards and specifications to be added to the list. The following manufacturers have pre-approved fabrication details and documentation on file with the department. Posts and Mast Arms are subject to field inspection before acceptance.

STEEL POSTS AND MAST ARMS

DRAWING NUMBER

Ameron International	MO9811 - Rev. 9 (Type C)
Ameron International	MO9812 - Rev. 10 (Type CL)
JEM Engineering & Manufacturing.....	MODOT1-4 Rev. 2 (Types C, CL, B & BL)
Maico Industries, Inc.	MOMAST 1-5A Rev. 1-6 (Types C, CL, B & BL)
Millerbernd Manufacturing Company	780C388 (Type B)
Millerbernd Manufacturing Company	780C389 (Type BL)
Millerbernd Manufacturing Company	780C49 (Type C)
Millerbernd Manufacturing Company	780C51 (Type CL)
Millerbernd Manufacturing Company	500A971
Pelco Structural, LLC	MODMA1001 & 1002 (Type B)
Pelco Structural, LLC	MODMAL1001 & 1002 (Type BL)
Pelco Structural, LLC	MOSMA1001 & 1002 (Type C)
Pelco Structural, LLC	MOSMAL1001 & 1002 (Type CL)
Union Metals.....	30443-B202 - Rev. 19 (Types C, CL, B & BL)
Valmont	DB00408 - Rev. C (Types C, CL, B & BL)

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

MISCELLANEOUS

LOOP SEALANTS

(Loop sealants do not require material certification)

MODEL

3M.....	5000
Bondo	560
Bondo	575
Bondo	P606
Chemque	290S
Chemque	296-06
Durant Paints.....	Stat-A-Flex Polyseal
RAI Products	Pro-Seal 6006

PEDESTAL BASES

MODEL

Akron Foundry	TS-1000-L-P
Akron Foundry	TS-1000-L-WP
Component Products.....	CPI-BAS-1
Pelco.....	PB5336
Pelco.....	PB5337
Pelco.....	PB5340
Pelco.....	PB5341
Traffic Parts	TP 289 X

SPLICE KITS (DETECTOR LEAD-IN)

MODEL

3M.....	DBY Series
HOMAC HMC Industries	RAB 1/0 Series

METER SERVICE PEDESTAL (SIGNALS/SIGNALS & LIGHTING) MODEL

Milbank 120V Signal Only	CP3B51C1PAAOMO1
Milbank 120V Signal with 2 –Circuit 240V Lighting.....	CP3B51C1PBAOMO2
Milbank 120V Signal with 2-Circuit 240V Lighting Dual Meter.....	CP3B62C2NBAOMO1
Myers 120V Signal with 2-Circuit 240V Lighting	MEUGLA-M100-MDOT
Myers 120V Signal with 2-Circuit 240V Lighting	MEUG 20
Pacific Utility Products 120V Signal Only.....	USP16-M2100-112C-MODOT6-TS
Pacific Utility Products 120V Signal with 2-Circuit 240V Lighting	USPA-100-100-MODOT
Pacific Utility Products 120V Signal with 2-Circuit 240V Lighting	USP16-M2100-112C-MODOT
Pacific Utility Products 120V Signal with 2-Circuit 240V Lighting	USP24-M2100-100-MODOT6-TSL
Pacific Utility Products 120V Sgnl w/2-Circuit 240V Lighting Dual Mtr	USPD-2M2100-100-MODOT6
Tesco 120V Signal with 2-Circuit 240V Lighting	28-105 Type III BF
Tesco 120V Signal with 2-Circuit 240V Lighting	28-102F

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

LIGHT EMITTING DIODES (LED)

REGULAR VIEW

MODEL

Act One Communications, Inc.....	T1-08A-0004 (8" Yellow Ball – for use at fire stations)
Act One Communications, Inc.....	TA-12A-5 (Yellow Arrow)
Act One Communications, Inc.....	TA-12G-5 (Green Arrow)
American LED Signal, Inc.	ASC-0300-GA1 (Green Arrow)
American LED Signal, Inc.	ASC-0300-YA1 (Yellow Arrow)
Dialight.....	431-3334-001 Rev. B2 (Yellow Arrow)
Dialight.....	432-2374-001 (Green Arrow)
Dialight.....	431-3334-001X (Yellow Arrow)
Dialight.....	432-2324-001X (Green Arrow)
Duralight	JXJ-300VIGB (Green Arrow)
Duralight	JXJ-300VIYB (Yellow Arrow)
GELcore	DR4-YTFB-20A-22 (8" Yellow Ball – for use at fire stations)
GELcore	DR6-YTAAAN-21A (Yellow Arrow)
GELcore	DR6-GCAAN-21A (Green Arrow)
Ledtronics.....	TRF-108-OPY-120A (8" Yellow Ball – for use at fire stations)
Leotek.....	TSL-12YA-MF-A1 (Yellow Arrow)
Leotek.....	TSL-12GA-MF-A1 (Green Arrow)

EXPANDED VIEW

MODEL

Act One Communications, Inc.....	T1-12R-W (Red Ball)
Act One Communications, Inc.....	T1-12G-W (Green Ball)
Act One Communications, Inc.....	T1-12A-W (Yellow Ball)
Dialight.....	433-1210-003 (Red Ball)
Dialight.....	433-2270-001 (Green Ball)
Dialight.....	433-3230-001 (Yellow Ball)
Dialight.....	435-1210-001 (Red Ball)
Dialight.....	435-2220-001 (Green Ball)
Dialight.....	435-3230-001 (Yellow Ball)
Duralight	JXC300-CAG (Green Ball)
Duralight	JXC300-CAY (Yellow Ball)
Duralight	JXC300-CAR (Red Ball)
GELcore	DR6-RTFB-20A-40 (Red Ball)
GELcore	DR6-GCFB-20A-40 (Green Ball)
GELcore	DR6-YTFB-20A-40 (Yellow Ball)
Leotek.....	TSL-EV12R-HP3-A1 (Red Ball)
Leotek.....	TSL-EV12G-HP3-A1 (Green Ball)
Leotek.....	TSL-EV12Y-HP1-A1 (Yellow Ball)

**MISSOURI DEPARTMENT OF TRANSPORTATION
APPROVED PRODUCTS LIST**

PROGRAMMABLE VIEW

MODEL

Dialight.....	P463R33003 (Red Ball)
Dialight.....	P463Y33003 (Yellow Ball)
Dialight.....	P463G33003 (Green Ball)
GELcore	DR3-RCFB-01A (Red Ball)
GELcore	DR3-YCFB-01A (Yellow Ball)
GELcore	DR3-GCFB-01A (Green Ball)

VIDEO DETECTION SYSTEMS

VIDEO DETECTOR

MODEL

Econolite.....	Autoscope 2020
Econolite.....	Autoscope RackVision
Econolite.....	Autoscope RackVision Terra
Econolite.....	Autoscope Solo Terra
Iteris.....	Vantage Edge2
Traficon.....	VIP 3.1
Traficon.....	VIP 3.2

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

III. HIGHWAY LIGHTING

All highway lighting equipment require a one-year evaluation period except for items noted requiring a six-month evaluation.

LIGHTING POLES

Note: Poles do not require an evaluation period. Poles shall be fabricated in accordance with MoDOT specifications and standards. They shall be pre-approved as required by the MoDOT standards and specifications in order to be added to the list. The following manufacturers have pre-approved fabrication details and documentation on file with the department. Lighting poles are subject to field inspection before acceptance.

STEEL POLES

DRAWING NUMBER

Ameron International	MO98AT3 – Rev. 4 (Type AT45) Design 1 & 2
Ameron International	MO98AT2 – Rev. 4 (Type AT45) Design 3, 4 & 5
Ameron International	MO98AT4 – Rev. 3 (Type AT30)
Ameron International	MO98B2 – Rev. 3 (Type B45 & MB45)
Ameron International	MO98B4 – Rev. 2 (Type B30)
JEM Engineering and Manufacturing	MO-AT30 – Rev. 3 (Type AT30)
JEM Engineering and Manufacturing	MO-AT45 – Rev. 3 (Type AT45)
Millerbernd Manufacturing Co.	730B907 (Type AT30)
Millerbernd Manufacturing Co.	730B653 (Type AT45)
Millerbernd Manufacturing Co.	730B908 (Type B30)
Millerbernd Manufacturing Co.	730B909 (Type B45)
Millerbernd Manufacturing Co.	730B910 (Type MB45)
Union Metals.....	71020-B2 - Rev. 5 (Type AT30)
Union Metals.....	71020-B3 - Rev. 4 (Type B30)
Union Metals.....	71019-B6 - Rev. 7 (Type AT45)
Union Metals.....	71019-B7 - Rev. 4 (Types B45 & MB45)
Union Metals.....	71019-B8 – Rev. 3 (Type B30)
Union Metals.....	71019-B9 – Rev. 3 (Type B45)
Union Metals.....	71019-B10 – Rev. 3 (Type MB45)
Union Metals.....	71020-B103 – Rev. 3 (Type AT30)
Union Metals.....	71020-B104 – Rev. 4 (Type AT45)
Valmont	DB00019 – Rev. N (Types AT30 & B30)
Valmont	DB00020 – Rev. N (Types AT45, B45 & MB45)

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

FOUNDATIONS

Note: *Screw anchor foundations do not require an evaluation period. Screw anchor foundations shall be fabricated in accordance with MoDOT specifications and standards. They shall be pre-approved as required by the MoDOT standards and specifications in order to be added to the list. The following manufacturers have pre-approved fabrication details and documentation on file with the department. Screw anchor foundations are subject to field inspection before acceptance.*

SCREW ANCHOR FOUNDATIONS	DRAWING NUMBER
Component Products, Inc.	SLSF 8-5 (Type AT30)
Component Products, Inc.	SLSF 10-7 (Type AT45)
J. H. Botts	JHB MOH 30 – Rev. C (Type AT30)
J. H. Botts	JHB MOH 45 – Rev. D (Type AT45)
Hubbell Chance	SA112-0696 – Rev. G (Type AT30)
Hubbell Chance	SA112-0786 – Rev. D (Type AT45)

LUMINAIRES

NOTE: *Luminaires will not be furnished with photoelectric cells. Receptacles will have a shorting plug in place of cell. Multi-tap ballast for 120 Volt and 240 Volt fixtures is permissible.*

BRACKET ARM MOUNT - 150 WATT	MODEL
American Electric Lighting	115 Series
American Electric Lighting	Durastar 2000, Series 30
Crouse-Hinds/Cooper	OVZ Series
Crouse-Hinds/Cooper	OVX Series
General Electric (GE).....	M2RR Series
Holophane.....	Mongoose Series

BRACKET ARM MOUNT - 250 WATT	MODEL
American Electric Lighting	115 Series
American Electric Lighting	Durastar 2000, Series 30
Crouse-Hinds/Cooper	OVZ Series
Crouse-Hinds/Cooper	OVX Series
General Electric (GE).....	MSRL Series
Holophane.....	Mongoose Series

BRACKET ARM MOUNT - 400 WATT	MODEL
American Electric Lighting	125 Series
American Electric Lighting	Durastar 2000, Series 30
Crouse-Hinds/Cooper	OVX Series
General Electric (GE).....	MSRL Series
Holophane.....	Mongoose Series

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

HIGH MAST LIGHTING

MODEL

NOTE: High mast lighting is custom designed for the location. Fixtures from the following manufacturer's series are considered pre-approved.

Cooper	HMC Series
General Electric (GE).....	HMA Series
Holophane.....	HMAO Series
Holophane.....	HMS Series
Metrolux	VA Series

POLE TOP MOUNTING

MODEL

Holophane.....	HL2A Series
Holophane.....	Mongoose Series

SIGN LIGHTING - 250 WATT

MODEL

General Electric (GE).....	V2FN Series
Guth	B17632 Series
Holophane.....	PANL Series
Holophane.....	SNVW Series

SIGN LIGHTING - 400 WATT

MODEL

Holophane.....	PANL Series
Holophane.....	SNVW Series

UNDERPASS (WALLPACKS)

MODEL

American Electric Lighting	582 Series
Cooper	WPK Series
General Electric (GE).....	WAL Series
Holophane.....	MDWP Series
Holophane.....	WL2K Series
Hubbell	PGM-150S Series

CONTROL EQUIPMENT

CONTACTORS-ELECTROMECHANICAL

MODEL

Square D.....	Type S
Westinghouse/Cutler-Hammer	A202 Series

CONTACTORS-MERCURY

MODEL

Dayton/Duracool	6A/6X Series
Magnecraft.....	WM Series

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

BASE MOUNTED CONTROL CABINETS

NOTE: Cabinets that meet MoDOT specifications from the following manufacturers will be accepted. All other manufacturers must provide a model that meets specifications and complete a satisfactory six-month evaluation as described above to be added to the list.

Cleveland Switchboard
Coxline
Hoffman
Shallbetter
Inland Technologies

LIGHTNING ARRESTER

MODEL

DeltaLA 600 Series
General Electric Tranquell9L15ECB001

MOUNTING SOCKET FOR PHOTOELECTRIC CONTROL.....MODEL

NOTE: Mounting sockets require a six-month evaluation.

American Electric LightingPBC
Fischer-Pierce.....S476-71
General Electric (GE).....MB-PECTL

PHOTOELECTRIC CONTROL

MODEL

Area Lighting ResearchSST-120 (120 volt)
Area Lighting ResearchSST-240 (240 volt)
Area Lighting ResearchSST-PV (120/240 volt)
American Electric LightingD120-1.0-STJ (Dark to Light) (120 volt)
American Electric LightingD124-1.0-STJ (120/240 volt)
American Electric LightingD240-1.0-STJ (240 volt)
American Electric LightingDE480-1.0-TJ (480 volt)
Fischer-Pierce.....FPN7790B (105 – 285 volt)
Fischer-Pierce.....FPN7772 (195 – 305 volt)
Fischer-Pierce.....FPN7794 (480 volt)
Fischer-Pierce.....FPN7760 (120 volt)
General Electric (GE).....PEC01TL (>120v/< 305v w/ time delay)
General Electric (GE).....PEC1TL (120v)
General Electric (GE).....PEC5TL (480v)
ITTSAT-15

TYPE A CIRCUIT BREAKERS

MODEL

Square D.....FAL Series
Westinghouse/Cutler-HammerEHD Series (1-Pole)
Westinghouse/Cutler-HammerFDB Series (2-Pole)

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

MISCELLANEOUS

AVIATION LIGHTING

MODEL

Hughey & Philips.....KG114

FUSED SLIP CONNECTORS

MODEL

NOTE: Slip connectors require a six-month evaluation.

BussHEB-JWRYC

METER SERVICE PEDESTAL (LIGHTING)

MODEL

Milbank 2-Circuit 240V LightingCP3B51C1PBAOMO3
 Milbank 4-Circuit 480V LightingCP3B51D1PBAOMO1
 Milbank 4-Circuit 480V Lighting (used for Ameren cold sequence)CP3B51D1PBAOMOCS1
 Pacific Utility Products 4-Circuit 240V Lighting.....USP24-M2100-100-MODOT6
 Pacific Utility Products 4-Circuit 480V Lighting.....USP16-M2100-112C-MODOT
 Pacific Utility Products 4-Circuit 480V Lighting.....USP24-M2100-100-MODOT6-480

NAVIGATION LIGHTING

MODEL

TidelandML-140 with TF-3AC Lamp Changer
 Automatic Power, Inc.....FA-143

SPLICE KITS

MODEL

3M82A1 (Single)
 3M82A2 (Single)
 3M82B1 (Three Way)
 3M82B2 (Three Way)
 HOMAC HMC Industries.....RAB 1/0 Series

TRANSFORMER BASES

MODEL

Akron FoundryTB1-17H (for AT30)
 Akron FoundryTB3-17H (for AT45)

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

IV. POWER SUPPLY EQUIPMENT AND PULL BOXES

All items require a six-month evaluation period.

MAIN SERVICE DISCONNECT ENCLOSURE WITH SAFETY SWITCH (NEMA 4)

MODEL

General Electric (GE).....	TE 100 CS
Square D.....	FA-100-DS Series E2
Westinghouse	WFDN 100

PREFORMED PULL BOX-CLASS 1

MODEL

Straight

Armorcast Products Company.....	A6001640TAPCX22 (Box & Lid)
Carson Industries	H1730-24 (Box)
Highline	PHA173024HO1R
.....	H1730-PI (Lid)
Strongwell/Quazite.....	PG1730B532 (Box)
	PG1730H511 (Lid)
	PG1730BA Series
Synertech.....	S1730B24AA (Box)
	S1730HBB0A (Lid)

Flared

Armorcast Products Company.....	A6001640TAX24 (Box & Lid)
CDR	SA12-1730-22 Series (Box & Lid)
Highline	CHA173024HO1R
Martin Enterprises.....	173022PC
NewBasis	FCA173022CC4126-62 (Box & Lid)
NewBasis	FCA173022CC4749-61 (Box & Lid)
NewBasis	FCA173024CC40303 (Box & Lid)
Pencell Plastics.....	PEM-1830-PCX (Box & Lid)

PREFORMED PULL BOX-CLASS 2

MODEL

Straight

Armorcast Products Company.....	A6001974TAPCX26 (Box & Lid)
Armorcast Products Company.....	A6001974TAPCX24
Carson Industries.....	H2436-24 (Box)
.....	H2436-PI (Lid)
Highline	PHA243624HO1R
Strongwell/Quazite.....	PG2436B539 (Box)
	PG2436H508 (Lid)
	PG2436BA Series
Synertech.....	S2436B26AA (Box)
	S2436HCB0A (Lid)

MISSOURI DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST

Flared

Armorcast Products Company.....	A6001974TAX26 (Box & Lid)
Armorcast Products Company.....	A6001974TAX24
CDR	SA12-2436-24 Series (Box & Lid)
Highline	CHA243624HO1R
Martin Enterprises.....	243624PC
NewBasis	FCA243630CC4126-61 (Box & Lid)
NewBasis	FCA243630CC4749-61 (Box & Lid)
NewBasis	FCA243624CC40716 (Box & Lid)
Pencell Plastics.....	PEM-2436-36 (Box & Lid)
Pencell Plastics.....	PEM-2436-PCX-24 (Box & Lid)
Synertech.....	S2436B24AA (Box)
.....	S2436HCB0A (Lid)

PREFORMED PULL BOX-CLASS 3

Straight

Armorcast Products Company.....	A6001430TAPCX36 (Box & Lid)
Carson Industries.....	H3048-36 (Box)
.....	H3048-P1 (Lid)
Highline	PHA304836HO1R
Strongwell/Quazite.....	PG3048B560 (Box)
.....	PG3048H517 (Lid)
.....	PG3048BA Series
Synertech.....	S3048B36AA (Box)
.....	S3048HCB0A (Lid)

MODEL

Flared

Armorcast Products Company.....	A6001550TAX36 (Box & Lid)
CDR	SA12-3048-36W Series (Box & Lid)
Highline	CHA304836HO1R
Martin Enterprises.....	304836PC
NewBasis	FCA304836EE4749-61 (Box & Lid)
NewBasis	FCA304836EE40304 (Box & Lid)
Pencell Plastics.....	PEM-3048-36-PCX-SPLIT (Box & Lid)

PREFORMED PULL BOX-CLASS 5

Flared

Armorcast Products Company.....	A6001466TA (Box & Lid)
Armorcast Products Company.....	A6000172TAX36 (Box & Lid)
CDR	SA12-3200-36 (Box & Lid)
NewBasis	FCA540036C4800 (Box & Lid)
NewBasis	FCA540036C40336 (Box & Lid)
NewBasis	FCA540036-MODOT

MODEL

**MISSOURI DEPARTMENT OF TRANSPORTATION
APPROVED PRODUCTS LIST**

Removed

Conflict Monitor

Traffic Control Technologies (TCT).....LNM Series

Revised

Conflict Monitors

From:

Reno A&E.....MMU-1600 Series

To:

Reno A&E.....MMU-1600D

Reno A&E.....MMU-1600G