Roadway Illumination and Electrical Supplies Table of Contents

Materials Pre-qualified for Illumination and Electrical items 610-687 No additional submittals are required for products that are pre-qualified

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Click on any Item above to go directly to that page

For more information about these materials, contact the Traffic Operations Division, Engineering Operations Branch at (512) 416-3232.

Notice:

All submittal and corresponding documentation becomes public information.

All manufacturers' products that are listed within this document are pre-qualified. Manufacturer name change does not change the pre-qualified status of the original material. TxDOT reserves the right to remove any manufacturer or product from this list, at any time. Manufacturers interested in being added to the pre-qualified list should contact Traffic Operations Division.

Material/Producer List 2/3/2017

Item 610 – Roadway Illumination Assemblies

General

Roadway Illumination Poles do not need to be pre-qualified when TxDOT RIP (Roadway Illumination Pole) standard sheets are included in the plan set.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of Item 610 and applicable Special Provisions to Item 610.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP (Roadway Illumination Pole). Poles fabricated according to RIP standard sheets require no shop drawings.

Alternate designs to RIP or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on the requirements and procedures of shop drawings go to: http://www.txdot.gov/business/resources/specifications/shop-drawings.html
Click on "Requirements and Procedures for Optional and Non-Standard Illumination Pole Designs and Shop Drawings."

Limitations on Use of the RIP-11 Standard

The Roadway Illumination Pole (RIP-11) standard details were developed for installations in locations where the 3-second gust basic maximum wind speed is 110 mph, and where the elevation of the base of the pole is less than (i.e. not more than) 25' above the elevation of surrounding terrain, in accordance with the "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals," 4th Edition (2001) (AASHTO Design Specifications). For poles to be installed in regions where the maximum basic wind speed exceeds 110 mph or to be mounted more than 25' above the surrounding terrain, the contractor shall provide poles meeting the following requirements:

- A. **Submittals.** Following the electronic shop drawing submittal process (see ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e_submit_guide.pdf), the contractor shall submit to the Engineer, for approval, fabrication drawings and calculations for the poles. The drawings and calculations shall be sealed by a Texas registered or licensed professional engineer (P.E.).
- B. Luminaire Structural Support Requirements. Lighting poles, arms, and anchor bolt assemblies shall have a 25-year design life to safely resist dead loads, ice loads and the required basic wind speeds at the location of installation in accordance with the current edition of the AASHTO Design Specifications. For transformer base poles, the fabricator shall include transformer base and connecting hardware in calculations and shop drawing submittals. All transformer bases shall have been structurally tested to resist the theoretical plastic moment capacity of the pole. Certification of the plastic moment load test and FHWA breakaway requirement test of the model of base being furnished shall be submitted with the shop drawings. Shop drawings shall show breakaway base model number, and manufacturer's name and logo. Manufacturer's shop drawings shall include the ASTM designations for all materials to be used.

Item 610 – Roadway Illumination Assemblies

General

The following products are pre-qualified for use on the projects where roadway illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

	Roadway Illumination Asse	emblies – Underpass Fixture	
Manufacturer	Brand	Туре	Model
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	◆ Induction Fluorescent Underpass Fixture	◆ UDP-165-QL-GR
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	 ◆ Induction Fluorescent Underpass Fixture – Steel Housing ◆ Induction Fluorescent Underpass Fixture – Aluminum Housing ◆ Box Beam Bracket to Mount Fixture ◆ Bridge Deck Bracket to Mount Fixture ◆ U-Beam Bracket 	 ◆ TS2020-3/3-1-150IND-277V-R-SSPH-TEXAS ◆ TS2020-*/*-150IND-*Volt-8-SSPH-TDOT-ALUMINUM ◆ Ask for BB Bracket When Required – Sold Separately ◆ Ask for BD Bracket When Required – Sold Separately ◆ Ask for UB Bracket When Required – Sold Separately
ESCO Lighting 3254 N. Kilborn Ave. Chicago, IL 60641 (773) 427-7000 http://www.escolighting.com	ESCO	◆ Induction Fluorescent Underpass Fixture	◆ SP2343

	Roadway Illumination Ass	emblies – Underpass Fixture	
Manufacturer	Brand	Type	Model
H.E. Williams 831 W. Fairview Ave.	Infinity	◆ Induction Fluorescent Underpass Fixture	
P.O. Box 837		♦ BB Box Beam	◆ ICERL1-150S-41K-
Carthage, MO 64836		♦ BB Box Beam	BAT/CG1-GRA-UNV
(417) 358-4065		A DD D 21 - D - 1	◆ ICERL3-150S-41K-
		◆ BD Bridge Deck	BAT/CG1-GRA-UNV
http://www.hew.com			◆ ICERL5-150S-41K-
mtp.// www.mew.com		◆ UB U-Beam	BAT/CG1-14DEG-UNV
Eaton (formerly Cooper)	Fail-Safe	◆ Induction Fluorescent	◆ TF28-150ICE-UNV- A1432
1121 Highway 74 South Peachtree City, GA 30269	. (Underpass Fixture	111.02
(770) 486-4800	•		
http://www.cooperindustries.com/ content/public/en/lighting/brands/			
streetworks.html			
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	Roadway Illumination	Assemblies – Luminaire	
Manufacturer	Brand	Туре	Model
Eaton (formerly Cooper) 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperindustries.com/content/public/en/lighting/brands/streetworks.html	Streetworks	◆ 150W HPS- 240/480 Volt ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt	 ◆ OVW15SMJ3DD0004 ◆ OVW25SMG2DD0001 ◆ OVW25SMJ2DD0002 ◆ OVW40SMG2DD0005 ◆ OVW40SMJ2DD0003
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingsystems.com	M4RC	 150W HPS- 240/480 Volt 250W HPS- 120/240 Volt 250W HPS- 240/480 Volt 400W HPS- 120/240 Volt 400W HPS- 240/480 Volt 	 M4RC15S9M4GMC3312 or GE Manufacture #180055 M4RC25S7M4GSC2311 or GE Manufacture #168025 M4RC25S9M4GSC2311 or GE Manufacture #168023 M4RC40S7M4GSC3311 or GE Manufacture #157785 M4RC40S9M4GSC3311 or GE Manufacture #158165
Holophane 3825 Columbus Road SW Granville, OH 43023 (740) 587-4030 FAX (866) 761-9819 http://www.holophane.com	Mongoose	 ◆ 250W HPS- 120 Volt ◆ 250W HPS- 240 Volt ◆ 250W HPS- 480 Volt ◆ 400W HPS- 120Volt ◆ 400W HPS- 240Volt ◆ 400W HPS- 480 Volt 	 ◆ G25RHP12LNRHGBR-TXDOT ◆ G25RHP24LNRHGBR-TXDOT ◆ G25RHP48LNRHGBR-TXDOT ◆ G40RHP12LNRHGBR-TXDOT ◆ G40RHP24LNRHGBR-TXDOT ◆ G40RHP48LNRHGBR-TXDOT

Model
JXM-ST140-3-40K-120-3- GR-SCLBTX
JXM-STI40-3-40K-480-3- GR-SCLBTX
JXM-ST180-3-40K-120-2- GR-SCLBTX
JXM-STI80-3-40K-480-2- GR-SCLBTX
JXM-ST180-4-40K-120-2- GR-SCLBTX
JXM-ST180-4-40K-480-2- GR-SCLBTX
VERD-A028-D-U-T3-4N7- 20K-AP-TXDOT-D0077
VERD-A028-D-8-T3-4N7- 20K-AP-TXDOT-D0078
VERD-G-A02-D-U-T2-4N7 20K-AP-TXDOT-D0027
VERD-G-A02-D-8-T2-4N7 20K-AP-TXDOT-D0028
XNV2-AC-02-D-U-3-525- 4N7-AP-TXDOT-D0030
XNV2-AC-02-D-8-3-525- 4N7-AP-TXDOT-D0031
XNV2-AC-02-D-U-2-4N7- AP-TXDOT-D0028
XNV2-AC-02-D-8-2-4N7- AP-TXDOT-D0029
NVN-AE-03-D-U-T2R-4N7 AP-TXDOT-D0102
NVN-AE-03-D-8-T2R-4N7 AP-TXDOT-D0103
NVN-AF-03-D-U-T2R-4N7- AP-TXDOT-D0225
NVN-AF-03-D-8-T2R-4N7- AP-TXDOT-D00226
2 2 2 2 2 3 2 3 2 3 2 3 3 2 3 3 3 3 3 3

	Roadway Illumination Ass	semblies – LED Luminaire	
Manufacturer	Brand	Туре	Model
GreenStar	GreenStar	◆ 150W EQ LED- 120/240 Volt; LLF=0.74	◆ XAVX08431SNXXI
6900 Alamo Downs Pkwy Suite 120		◆ 150W EQ LED- 480 Volt; LLF=0.74	◆ XAVH08434SNXXI
San Antonio, TX 78238		◆ 250W EQ LED- 120/240 Volt; LLF=0.74	◆ XAVX12431SNXXI; old part # AV12431SN
http://greenstarled.com/		◆ 250W EQ LED- 480 Volt; LLF=0.74	◆ XAVH12434SNXXI; old part # AV12434SN
		◆ 400W EQ LED- 120/240 Volt; LLF=0.74	♦ XAVX20431SNXXI
		◆ 400W EQ LED- 480 Volt; LLF=0.74	◆ XAVH20434SNXXI
GE Lighting Solutions	Evolve	◆ 150W EQ LED - 120V; LLF=0.80	• ERS11B3D17404GRAY12
3010 Spartanburg Hwy East Flat Rock, NC 28726		◆ 150W EQ LED - 240V; LLF=0.80	• ERS13B3D17404GRAY12 0
http://www.gelightingsystems.com		◆ 150W EQ LED - 480V; LLF=0.80	• ERS15B3D17404GRAY08
http://www.genghtingsystems.com		◆ 250W EQ LED - 240V; LLF=0.79	• ERS20E3E17404GRAY08
		◆ 250W EQ LED - 480V; LLF=0.79	◆ ERS2HE3E17404GRAY13 4
		◆ 400W EQ LED - 240V; LLF=0.70	• ERS20H3E11404GRAY13 5
		◆ 400W EQ LED - 480V; LLF=0.70	• ERS2HH3E11404GRAY13 6
X			
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Manufacturer	Brand	e Sodium Lamps Type	Model
Osram Sylvania	Sylvania - Lumalux Plus®/ECO	♦ 400 Watt Lamp	◆ 67312 - LU400/PLUS/ECO
100 Endicott Street Danvers, MA 24210		◆ 250 Watt Lamp	♦ 67572 - LU250/PLUS/ECO
(978) 777-1900 For Lamps (800) 544-4828		◆ 150 Watt Lamp	◆ 67494 -LU150/55/PLUS/ ECO
http://www.sylvania.com/			
Philips Lighting Company	Philips - Ceramalux®/ALTO®	♦ 400 Watt Lamp	◆ 14743-9 – C400S51/ALTO NC HPS
200 Franklin Square Dr. P.O. Box 6800	Non-Cycling Lamp	◆ 250 Watt Lamp	◆ 14742-1 – C250S50/ALTO NC HPS
Somerset, NJ 08875 (800) 555-0050		♦ 150 Watt Lamp	◆ 14741-3 – C150S55/ALTO NC HPS
http://www.lighting.philips.com		2	
GE Lighting	GE – EcoluxNC TM	◆ 400 Watt Lamp	◆ 14675 – LU400/ECO/NC
Nela Park, 1975 Noble Rd. Cleveland, OH 44112		◆ 250 Watt Lamp	◆ 14674 – LU250/ECO/NC
(216) 266-2121		♦ 150 Watt Lamp	◆ 40390 – LU150/55/ECO/ NC
http://www.gelighting.com			

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	Photoelectric Co	ontrol - Photocell	
Manufacturer	Brand	Туре	Model
Tork 1 Grove Street Mt. Vernon, NY 10550	Tork	◆ 120-277 Volt Photocell	◆ S895 ◆ NSI-TORK S895 *
(914) 664-5042 http://www.tork.com/			* Tork has recently been bought out by NSI
American Electric Lighting / DTL P.O. Box 3004 Newark, OH 43800	DTL	◆ 120-277 Volt Photocell	♦ DUX124 -12A30
(800) 754-0463 http://www.darktolight.com		3	
Tyco Electronics 8000 Purfoy Rd. Fuquay-Varina, NC 27526 (919) 557-8459	Area Lighting Research Tyco	◆ 120-277 Volt Photocell	◆ ALR-SST-PV-IES-UL (3E7425-000)
http://www.tycoelectronics.com/			

	F	Breakaway Fuse-holders	
Manufacturer	Brand	Туре	Model
Eaton –Bussmann Series	Bussmann	♦ Double-pole	◆ HEX-KW-DRYC – used when no neutral is required
114 Old State Road Ellisville, MO 63021 (855) 287- 7626		◆ Double-pole	◆ HEN-KW-DRYC – used when neutral is present
http://www.cooperindustries.com/ content/public/en/bussmann/electri			Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.
<u>cal.html</u>			These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.
Littelfuse Inc.	Littelfuse	◆ Double-pole	OLEXYYCSX – used when no neutral is required
800 E. Northwest Highway			
Des Plaines, IL 60016-3096		♦ Double-pole	LEXT0YYSX – used when neutral is present
(847) 824-1188 http://www.littelfuse.com			Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.
			These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.
Mersen USA	Ferraz Shawmut	◆ Double-pole	◆ FEX-91-91-BA – used when no neutral is required
374 Merrimac Street			
Newburyport, MA 01950		◆ Double-pole	◆ FEXN-91-91-BA – used when neutral is
(978) 462-6662			present
http://www.ferrazshawmut.com			Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.
Ferraz Shawmut is Now Mersen.			These breakaway connectors are to be used for
Parent Company name change			both breakaway and non-breakaway poles where
only. Brand of connector is still Ferraz Shawmut.			a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.

		Breakaway Fuse-holders	
Manufacturer	Brand	Type	Model
Ideal Industries, Inc.	Ideal-Buchanan SLK	♦ Double-pole	◆ 30-S2222D – used when no neutral is required
1 Becker Place Sycamore, IL 60178 (800) 435-0705 http://www.idealindustries.com/		◆ Double-pole	◆ 30-S2222P – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each
			connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.

Manufacturer	Brand	nination Pole Designs and Shop Dray Type	Model
Hapco 26252 Hillman Highway Abingdon, VA 24210 (800) 368-7171	Нарсо	◆ 40 FtAluminum - T-Base mounted with (1) 8Ft. Arm Only	◆ Based on Drawing # B15138 and B15136
http://www.hapco.com/			
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Manufacturer	Brand	Transformer Base Type	Model
Akron Foundry Co.	Akron	Breakaway Transformer Base for Luminaire Poles	◆ TB1-17
2728 Wingate Ave.		Less Than 40 Foot Height	
Akron, OH 44314		♦ Breakaway Transformer	◆ TB3-17
(330) 745-3101		Base for Luminaire Poles	123 17
http://www.akronfoundry.com		40 to 50 Foot Height	
http://www.akromoundry.com			
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	*		
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Item 613 – High Mast Illumination Poles

General

There are no pre-qualified High Mast Illumination Poles.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of item 613. Provide components that fit together properly.

- (a) **Standard Design.** Fabricate poles in accordance with this Item and the plans. Alternate designs are not permitted.
- **(b) Shop Drawings.** Do not submit shop drawings for high mast illumination poles fabricated in accordance with this Item and the plans.



Item 614 – High Mast Illumination Assemblies

General

The following products are pre-qualified for use on the projects where high mast illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Luminaire – High Mast						
Manufacturer	Brand	Туре	Model			
Holophane 3825 Columbus Road SW Granville, OH 43023 (740) 587-6167 FAX (888) 300-5321 http://www.holophane.com	High Mast Cutoff-HMSC High Mast Cutoff-HMSC High Mast Dark Skies- HMSD	 High Mast – Type A High Mast – Type B High Mast – Type S 	 ◆ HMSC40RHP48B9- TXDOT 12 TYPE A ◆ HMSC40RHP48B9- TXDOT 12 TYPE B ◆ HMAO40RHP48S- TXDOT 12 TYPE S *Note model number for A & B changed from B7 to B9. No other changes noted. 			
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingsystems.com	G.E.	 High Mast – Type A High Mast – Type B High Mast – Type C High Mast – Type S 	 ◆ 159189 ◆ 159190 ◆ 159191 ◆ 159193 			
Eaton (formerly Cooper) 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperindustries.com/content/public/en/lighting/brands/streetworks.html	Streetworks	 High Mast – Type A High Mast – Type B High Mast – Type C High Mast – Type S 	 ◆ GMA40SM83DD0018 ◆ GMA40SM83DD0019 ◆ GMA40SM83DD0020 ◆ GMA40SM8ARD0017 			

Manufacturer	Brand	Sodium Lamps Type	Model
Osram Sylvania 100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828 http://www.sylvania.com/	Sylvania - Lumalux Plus®/ECO	◆ 400 Watt Lamp	◆ 67312 - LU400/PLUS/ECO
Philips Lighting Company 200 Franklin Square Dr. P.O. Box 6800 Somerset, NJ 08875 (800) 555-0050 http://www.lighting.philips.com	Philips - Ceramalux®/ALTO® Non-Cycling Lamp	◆ 400 Watt Lamp	◆ 14743-9 – C400S51/ALTO NC HPS
GE Lighting Nela Park, 1975 Noble Rd. Cleveland, OH 44112 (216) 266-2121 http://www.gelighting.com	GE - EcoluxNGTM	◆ 400 Watt Lamp	◆ 14675 – LU400/ECO/NC

Manufacturer	Brand	Mast Kit Type	Model
Mica Corporation	Mica Corporation	◆ High Mast – 125 Foot	◆ HMK-125-PH
5750 N. Riverside Dr. Fort Worth, TX 76137		♦ High Mast – 150 Foot	◆ HMK-150-PH
(817) 577-2088		♦ High Mast – 175 Foot	◆ HMK -175-PH
http://www.micacorporation.com			
Carolina High Mast, Inc.	Carolina High Mast, Inc.	◆ High Mast – 125 Foot	HMK-125-CHMI
700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046		◆ High Mast 150 Foot	◆ HMK-150-CHMI
(062) 260-00+0		◆ High Mast – 175 Foot	◆ HMK -175-CHMI
Rexel	Rexel	High Mast – 125 Foot	♦ HMK-125-RX
2400 Brockton San Antonio, TX 78217		♦ High Mast – 150 Foot	♦ HMK-150-RX
(210) 352-1047		♦ High Mast – 175 Foot	♦ HMK -175-RX
http://www.rexelusa.com	(C)		

	High	Mast Kit	
Manufacturer		Туре	
Wildcat Electric Supply, Ltd.	Wildcat	♦ High Mast – 125 Foot	♦ HMK-125-WC
2061 Clovis Barker Road #5. San Marcos, TX 77666		♦ High Mast – 150 Foot	◆ HMK-150-WC
(512) 396-8900		. III 1 M . 175 F .	. ID 07. 175 W.C
(866) 301-5200		♦ High Mast – 175 Foot	♦ HMK -175-WC
http://www.wildcatelectric.com			
Stratus Products	Stratus Products	High Mast − 100 Foot	♦ HMK-100-SSPI
Division of			, i
Structural & Steel Products, Inc		♦ High Mast – 125 Foot	♦ HMK-125-SSPI
1320 South University		♦ High Mast – 150 Foot	♦ HMK-150-SSPI
Suite 701			111111111111111111111111111111111111111
Fort Worth, TX 76107		♦ High Mast – 175 Foot	♦ HMK -175-SSPI
(800) 782-5804			170 881
http://stratusprod.com		O	
Millerbernd Manufacturing Company	Millerbernd	◆ High Mast – 100 Foot	♦ MMC100KIT
622 6 th Street South		♦ High Mast – 125 Foot	♦ MMC125KIT
Winsted, MN 55395			
(320) 485-2111	()	♦ High Mast – 150 Foot	♦ MMC150KIT
FAX (320) 485-2220			
		♦ High Mast – 175 Foot	◆ MMC175KIT
http://www.millerberndmfg.com			
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High Mast Ring- Previously Approved Shop Drawings					
Manufacturer	Туре				
J.W. Hall Enterprises, Inc.	◆ High Mast Ring				
17731 Elizabeth Rd.	Drawing # HM 2002-01				
Algoa, TX 77511	Sheets 1 through 6				
(281) 337-6311	Drawing # HE 2002				
	Sheets 7 through 9				
http://www.jwhall.com					
Carolina High Mast, Inc.					
700 East McLeroy Blvd. – Suite A	Drawing # TXDOT-01				
Saginaw, TX 76179	Sheets 1 through 5				
(682) 286-0046	Drawing # TXDOT-02				
	Sheets 1 through 4				
	Drawing # TXDOT-03				
	Sheets 1 through 4				
	Drawing # TXDOT-04				
	Sheets 1 through 3				
Traffic Control Devices	◆ High Mast Ring				
4417 Main Street	Drawing # E-901				
Pearland, TX 77581	Sheets 1 through 10				
(281) 992-3030					
http://www.tcd.cc					

Manufacturer Type Brookfield Fabricating Corp. ◆ High Mast Ring Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214 Drawings Dated 4-8 Sheets 1 through 4 Good Until 9-30-20 Drawings Approved 8-29-2011 Sheet 1 Dated 7-1-0 Sheet 2 Dated 8-5 Sheet 3 Dated 7-1-0 Sheet 3 Dated 7-1-0 Sheet 4 Dated 7-1-0 Sheet 4 Dated 7-1-0 Sheet 1 Dated 8-2 Sheet 1 Dated 10-1: Sheet 2 Dated 10-1: Sheet 2 Dated 10-1: Sheet 3 Dated 10-1: Sheet 3 Dated 10-1:	l
Brookfield, MO 64628 (660) 258-2214 Sheets 1 through 4 Good Until 9-30-20 Drawings Approver 8-29-2011 Sheet 1 Dated 7-1-(Sheet 2 Dated 8-5- Sheet 3 Dated 7-1-(Sheet 4 Dated 7-1-(Sheet 4 Dated 7-1-(Sheet 4 Dated 10-1: Sheet 1 Dated 8-2 Sheet 1 Dated 8-2 Sheet 1 Dated 8-2 Sheet 1 Dated 10-1: Sheet 2 Dated 10-1: Sheet 2 Dated 10-1: Sheet 3 Dated 10-1:	3
Brookfield, MO 64628 (660) 258-2214 Sheets 1 through 4 Good Until 9-30-20 Drawings Approver 8-29-2011 Sheet 1 Dated 7-1-(Sheet 2 Dated 8-5- Sheet 3 Dated 7-1-(Sheet 4 Dated 7-1-(Sheet 4 Dated 7-1-(Sheet 4 Dated 10-1: Sheet 1 Dated 8-2 Sheet 1 Dated 8-2 Sheet 1 Dated 8-2 Sheet 1 Dated 10-1: Sheet 2 Dated 10-1: Sheet 2 Dated 10-1: Sheet 3 Dated 10-1: Sheet 3 Dated 10-1: Sheet 3 Dated 10-1: Sheet 3 Dated 10-1:	8-96
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Drawings Approved 8-29-2011 Sheet 1 Dated 7-1-6 Sheet 2 Dated 8-5-1 Sheet 3 Dated 7-1-6 Sheet 4 Dated 7-1-6 Sheet 4 Dated 7-1-6 Sheet 4 Dated 7-1-6 Sheet 1 Dated 8-2 Sheet E1 Dated 8-2 Sheet 1 Dated 10-1: Sheet 2 Dated 10-1: Sheet 3 Dated 10-1: Sheet 3 Dated 10-1: Sheet 3 Dated 10-1:	011
8-29-2011 Sheet 1 Dated 7-1-6 Sheet 2 Dated 8-5-1 Sheet 3 Dated 7-1-6 Sheet 4 Dated 7-1-6 PKM Steel Service • High Mast Ring 228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638 http://www.pkmsteel.com/	, , ,
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Salina, KS 67402-1066 (785) 827-3638 http://www.pkmsteel.com/	
(785) 827-3638 Sheet 3 Dated 10-13 http://www.pkmsteel.com/	
http://www.pkmsteel.com/	
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Item 618 - Conduit

General

The following products have been tested and are pre-qualified for use on projects where Conduit, Junction Boxes, Expansion Joints and Conduit Fittings are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Rigio	d Metallic Conduit – (RMC	
Brand	Туре	Model
Allied	◆ Galvanized Rigid Metal Conduit (RMC)	Trade Sizes from 1/2" to 6"
•	70	
Wheatland	♦ Galvanized Rigid	◆ Trade Sizes from 1/2" to 6"
(C)	(RMC)	
`		
Republic	Galvanized Rigid Matal Conduit	◆ Trade Sizes from 1/2" to 6"
	(RMC)	
	Brand Allied Wheatland	Allied • Galvanized Rigid Metal Conduit (RMC) Wheatland • Galvanized Rigid Metal Conduit (RMC) Republic • Galvanized Rigid Metal Conduit

	Rigio	d Metallic Conduit – (RMC)
Manufacturer	Brand	Туре	Model
Western Tube & Conduit Corp. 2001 E. Dominguez St. Long Beach, CA 90801-2720 (310) 537-6300 (800) 310-8823 http://www.westerntube.com	Western Conduit	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"

Manufacturer	Brand	Vinyl Chloride Pipe- (P Type	Model
Cantex	Cantex	♦ PVC	◆ Schedule 40 and 80
			◆ Trade Sizes from 1/2" to 6"
P.O. Box 340			
Mineral Wells, TX 76068			
(940) 325-3344			
(800) 433-5623			
http://www.cantexinc.com/			
			A
Allied Tube & Conduit	Allied Tube & Conduit	◆ PVC	Schedule 40 and 80
16100 S. Lathrop Avenue	Conduit		◆ Trade Sizes from 1/2" to 6"
Harvey, IL 60426-6021			
•			
http://www.alliedeg.us/			
Prime Conduit Inc.	Prime Conduit	♦ PVC	◆ Schedule 40 and 80
			◆ Trade Sizes from 1/2" to 6"
23240 Chagrin Blvd. Suite 405		. (/1	
Cleveland, OH 44122			
(216) 464-3400	•		
(800) 321-1970			
http://primeconduit.com			
nup.//primecondun.com			
National Pipe & Plastics, Inc.	NPPI PVC	◆ PVC	◆ Schedule 40 and 80
2421 011 V 241 P 1			◆ Trade Sizes from 1/2" to 6"
3421 Old Vestal Road			
Vestal, NY 13850			
(800) 836-4350			
http://www.nationalpipe.com/			

Manufacturer	Brand	Туре	Model
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791	Heritage	♦ PVC	 ◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
http://www.heritageplastics.com/			
Rocky Mountain Colby Pipe Co. 5125-B Race Ct. Denver, CO 80216 (800) 681-8682 http://www.rmcp.com	Rocky Mountain Colby	◆ PVC	 ♦ Schedule 40 and 80 ♦ Schedule 40 - Trade Sizes from 1/2" to 6" ♦ Schedule 80 - Trade Sizes from 1 ¼" to 6"
OMNI 259 Plauche Street Harahan, LA 70123 (504) 736-0331	OMNI	• PVC	 ◆ Schedule 40 - Trade Sizes from 1/2" to 6" ◆ Schedule 80 - Trade Sizes from 2" to 6"
http://www.omni-opti.com American Pipe & Plastics, Inc. P.O. Box 577 Binghamton, NY 13902 (607) 775-4340 http://www.ampipe.com	American Pipe & Plastics	◆ PVC	 Schedule 40 – Trade Sizes from 1 ¼" to 6" in 10' lengths – All model #'s start with UL Schedule 40 – Trade Sizes from 1 ¼" to 6" in 20' lengths – All model #'s start with UL

	Poly	Vinyl Chloride Pipe- (1	PVC)	
Manufacturer	Brand	Туре	Mode	l
JM Eagle 5200 West Century Boulevard Los Angeles, CA 90045 (800) 621-4404 http://www.jmeagle.com	JM Eagle	◆ PVC	Schedule 40 1/2" 0.5 S40 UL 3/4" 0.75 S40 UL 1" 1 S40 UL 11/4" 1.25 S40 UL 11/2" 1.50 S40 UL 2" 2 S40 UL 2" 2 S40 UL 3" 3 S40 UL 3" 3 S40 UL 4" 4 S40 UL 5" 5 S40 UL 6" 6 S40 UL	Schedule 80 0.5 S80 UL 0.75 S80 UL 1 S80 UL 1.25 S80 UL 1.50 S80 UL 2 S80 UL 2.5 S80 UL 3 S80 UL 3.5 S80 UL 4 S80 UL 5 S80 UL 6 S80 UL

	High-Dens	sity Polyethylene Conduit (HDPE)
Manufacturer	Brand	Type	Model
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond HDPE	◆ HDPE Conduit – Schedule 40 Color - Black	 ↑ 1/2" BDI065BK-UL ↑ 3/4" BDI095BK-UL ↑ 1" BDI115BK-UL ↑ 1 ½" BDI135BK-UL ↑ 1 ½" BDI165BK-UL ↑ 2" BDI215BK-UL ↑ 3" BDI315BK-UL ↑ 4" BDI414BK-UL
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (570) 385-4381 http://www.drakausa.com	Draka	◆ HDPE Conduit – Schedule 40 Color - Black	• 2' 321659 • 3" 321663
Dura·line	Dura·line •	◆ HDPE Conduit – Schedule 40	◆ 1/2" HDP 050 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED)
11400 Parkside Dr. Suite 300 Knoxville, TN. 37934 (865) 218-3460 (800) 847-7661 http://www.duraline.com Formerly A-D Technologies Name change on MPL Nov. 2013		Color - Black	 3/4" HDP 075 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) 1" HDP 100 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) 1 1/4" HDP 125 W SCHE40 SW UVS/UVS N EMPT D X(TXDOT APPROVED) 1 1/2" HDP 150 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) 2" HDP 200 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) 3" HDP 300 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) 4" HDP 400 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) 6" HDP 600 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) 6" HDP 600 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED)

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	High-De	nsity Polyethylene Condui	t (HDPE)
Manufacturer	Brand	Туре	Model
United Poly Systems, LLC 4707 E. Kearney St Springfield, MO 65803 (417)708-9887 www.unitedpolysystems.com	United Poly Systems	◆ HDPE Conduit – Schedule 40 Color - Black	 Niodel ↑ 1" Schedule 40 - D100011AORNNNNSTX ↑ 1 1/4" Schedule 40 - D125011AORNNNNSTX ↑ 1 1/2" Schedule 40 - D150011AORNNNNSTX ↑ 2" Schedule 40 - D200011AORNNNNSTX ↑ 2 1/2" Schedule 40 - D250011AORNNNNSTX ↑ 3" Schedule 40 - D300011AORNNNNSTX ↑ 4" Schedule 40 - D400011AORNNNNSTX ↑ 5" Schedule 40 - D500011AORNNNNSTX ↑ 6" Schedule 40 - D600011AORNNNNSTX
	YC)		

		rete Junction Box for Conci	
Manufacturer	Brand	Type	Model
Hubbell	Hubbell Quazite	◆ Median Barrier Box	◆ PC1012B500/PC1012CA00
3621 Industrial Park Drive		 ◆ Median Barrier Box – 	◆ PC0516B500/PC0516CA00
Lenoir City, TN. 37771		for Concrete Barrier	
(800) 346-3062		(F-Shape)	
		◆ Junction Box w/Cover	◆ PC0608Z503831
http://www.quazite.com		OD – 9 X 11 X 7 1/4"	
		ID – 7 3/8 X 93/8 X 6 1/2"	Cover Imprinted "Danger High Voltage – Illumination"
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Item 620 – Electrical Conductors

General

The following products are pre-qualified for use on projects where Conductors are furnished or installed as required by the item descriptive code. Where splicing materials, insulating materials, GelCaps, fuse holders or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Conductors – Type XHHW				
Manufacturer	Brand	Туре	Model	
American Insulated Wire Co.	American	◆ XHHW-2 Or ◆ XHHW	 ◆ Available in 14 AWG through 750 kcmil ◆ 6 AWG & 8AWG Available in Black Only 	
Bought out by Southwire Corp.			American will continue to be pre-qualified until stock is depleted.	
Encore Wire	Encore	• XHHW-2 Or • XHHW	◆ Available in 14 AWG through 1000 kcmil	
1410 Millwood Rd.				
McKinney, TX 75069 (800) 962-9473	4.6			
http://www.encorewire.com/	(C)			
Service Wire Company Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473	Service Wire	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil	
http://www.servicewire.com				

Manufacturer	Brand	Туре	Mode	l
Southwire Corporation	Southwire	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG th	
1 Southwire Division Carrolton, GA 30119 (800) 444-1700			♦ 6 AWG & 8AWG Avai	lable in Black Only
(770) 832-4242				
http://www.southwire.com/				
Advanced Digital Cable Inc.	Advanced Digital	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG t	hrough 1000 kcmil
94 Eagle Fork Road				
Hayesville, NC 28904				
800) 343-2579				
nttp://www.advanceddigitalcable.com				
Draka Cableteq USA	Draka	♦ XHHW-2	♦ 8 AWG Black	6200110BK
			♦ 8 AWG White	6200110WH
One Tamaque Blvd.	•		♦ 8 AWG Red	6200110RD
Schuylkill Haven, PA 17972			♦ 8 AWG Green	6200110GN
570) 385-4381			♦ 6 AWG Black	6200359BK
			♦ 6 AWG White	6200359WH
attp://www.drakausa.com			♦ 6 AWG Red	6200359RD
			♦ 6 AWG Green	6200359GN
			◆ 4 AWG Black	6200020BK
			◆ 4 AWG White	6200020WH
			♦ 4 AWG Red	6200020RD
			♦ 4 AWG Green	6200020GN
			◆ 2 AWG Black	6200067BK
			◆ 2 AWG White	6200067WH
			♦ 2 AWG Red	6200067RD
			◆ 2 AWG Green	6200067GN
			♦ 8 AWG Bare	113-0007-168
			♦ 6 AWG Bare	113-0007-146
			♦ 4 AWG Bare	113-0007-137
			◆ 2 AWG Bare	113-0007-100

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Brand Falcon	Type ◆ XHHW-2 Or ◆ XHHW	Model ◆ Available in 14 AWG through 4000 kcmil Available Jacket Colors:
Falcon		Available Jacket Colors:
		Diagla Dad White Corre
		Black, Red. White, Green
		3090194 – ETL Number Will Be Printed On Jacket
Republic Wire Inc.	◆ XHHW-2 Or ◆ XHHW	◆ Available in 8 AWG through 2 AWG
		Available Jacket Colors:
		Black, Red. White, Green
	•	Available in 1/0 AWG through 750 Kcmil
		Available in Black Only
•	10	◆ Bare Copper Soft Drawn Solid and Stranded 8AWG - 2AWG
CCI	XHHW-2	Available in Black Only
		♦ 8 AWG 18080
		◆ 8 AWG 18080 ◆ 6 AWG 18060
		◆ 4 AWG 18040
		◆ 2 AWG 18020
		◆ 1 AWG 18010
		◆ 1/0 AWG 18100
		◆ 2/0 AWG 18200
		◆ 3/0 AWG 18300
		◆ 4/0 AWG 18400
		◆ 250 MCM 18250
		◆ 350 MCM 18350 ◆ 400 MCM 18440
		◆ 500 MCM 18500
		◆ Bare Copper Solid and Stranded 8 AWG – 4AWG
		Stranded 2 AWG – 600 kcmil
	Wire Inc.	Wire Inc. • XHHW

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		Breakaway Fuse-holders	
Manufacturer	Brand	Type	Model
Eaton –Bussmann Series	Bussmann	◆ Double-pole	◆ HEX-KW-DRYC – used when no neutral is required
114 Old State Road Ellisville, MO 63021 (855) 287-7626		◆ Double-pole	◆ HEN-KW-DRYC – used when neutral is present
http://www.cooperindustries.com/ content/public/en/bussmann/electri cal.html			Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.
			These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID sheets are in plan set.
Littelfuse Inc.	Littelfuse	◆ Double-pole	OLEXYYCSX – used when no neutral is required
800 E. Northwest Highway		*	L EXTROXIVOX
Des Plaines, IL 60016-3096		♦ Double-pole	◆ LEXT0YYSX – used when neutral is present
(847) 824-1188 http://www.littelfuse.com		(0)	Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.
			These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.
Mersen USA 374 Merrimac Street	Ferraz Shawmut	◆ Double-pole	◆ FEX-91-91-BA – used when no neutral is required
Newburyport, MA 01950 (978) 462-6662		◆ Double-pole	◆ FEXN-91-91-BA – used when neutral is present
http://www.ferrazshawmut.com			Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.
Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut.			These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.

Material/Producer List 33 2/3/2017

]	Breakaway Fuse-holders	
Manufacturer	Brand	Туре	Model
Ideal Industries, Inc.	Ideal-Buchanan SLK	♦ Double-pole	◆ 30-S2222D – used when no neutral is required
1 Becker Place Sycamore, IL 60178 (800) 435-0705 http://www.idealindustries.com/		◆ Double-pole	◆ 30-S2222P – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.

Item 621 – Tray Cable

General

The following products are pre-qualified for use on projects where Tray Cable is furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Manufacturer	Brand	Type	Model
American Insulated Wire Co. Bought out by Southwire Corp.	American	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 500 kcmil American will continue to be pre-qualified until stock is depleted.
Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 750 kcmil
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 500 kcmil

Tra	ıv Cable- XHH	W Conductors with Overa	ll PVC Jacket
Manufacturer	Brand	Туре	Model
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579	Advanced Digital	◆ Tray Cable – Power Cable – XLP XHHW Insulation, PVC Jacket, Copper Conductors	◆ Available in 12 AWG -3 and 4 conductor
http://www.advanceddigitalcable.com			
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Item 622 – Duct Cable

General

The following products are pre-qualified for use on projects where Duct Cable is furnished or installed as required by the item descriptive code. Where connectors are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed.

Duct Cable with Type XHHW Conductors				
Manufacturer	Brand	Туре	Model	
Dura·line 11400 Parkside Dr. Suite 300 Knoxville, TN. 37934 (865) 218-3460 (800) 847-7661 http://www.duraline.com Formerly A-D Technologies Name change on MPL Jan. 2014	Dura·line	◆ Duct Cable – HDPE with XHHW Conductors Installed	 ♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved" 	
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond	Duct Cable – HDPE with XHHW Conductors Installed	 Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved" 	
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (800) 233-3190 http://www.drakausa.com	Draka	◆ Duct Cable – HDPE with XHHW Conductors Installed	 ◆ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved" 	

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	Duct Cab	le with Type XHHW Condu	actors
Manufacturer	Brand	Туре	Model
One Southwire Drive Carrolton, GA 30119	SIMpull	◆ Duct Cable – HDPE with XHHW Conductors Installed	◆ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering.
(770) 832-4242			Printing on Outside Wall of Duct as Per DMS 11060
http://www.southwire.com/			Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved"
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Item 624 – Ground Boxes

General

The following products are pre-qualified for use on projects where Ground Boxes are furnished or installed as required by descriptive code. Products are subject to testing. No substitutions will be allowed for Types A through E as listed below. For types not listed below, applicable TxDOT standards and specifications will apply.

Ground Boxes – Precast Polymer Concrete					
Manufacturer	Brand	Туре	Model		
Hubbell	Hubbell	◆ A	◆ PG1324B512 / PG1324H506		
	Quazite	◆ B	◆ 2PG1324B512 / PG1324H506		
3621 Industrial Park Drive		♦ C	◆ PG1730B512 / PG1730H507		
Lenoir City, TN. 37771		♦ D	◆ PG1730B517 / PG1730H507		
(800) 346-3062		◆ E	◆ PG1324B514 / PG1324H506		
http://www.quazite.com		Cover For Type A, B & F	 PG1324H5064A (Danger High Voltage FTM) PG1324H5064B (Danger High Voltage Irrigation) PG1324H5064D(Danger High Voltage Illumination) PG1324H5064E (Danger High Voltage Traffic Signal) PG1324H5064G (Danger High Voltage Sign Lighting) PG1324H506H7 (Danger High Voltage) 		
	70,	Cover For Torre C & D	 PG1730H5074A (Danger High Voltage FTM PG1730H5074B (Danger High Voltage Irrigation) PG1730H5074D (Danger High Voltage 		
		Cover For Type C & D	Illumination) ◆ PG1730H5074E (Danger High Voltage Traffic Signal)		
			◆ PG1730H5074G (Danger High Voltage Sign Lighting)		
			◆ PG1730H507H7 (Danger High Voltage)		

Manufacturer	Brand	Type	Model
Armoreast Products Company	Armor cast	♦ A	◆ A6001946TAPCX12
		♦ B	♦ A6001946TAPCX24
13230 Saticoy St.		♦ C	◆ A6001640TAPCX12
North Hollywood, CA. 91605		♦ D	◆ A6001640TAPCX22
818) 982-3600		◆ E	◆ A6001946TAPCX18
http://www.armorcastprod.com/			
		Cover For All Boxes	◆ All Covers Read "Danger High Voltage." Additional Logos Added Per Job Spec.

Ground Boxes – Precast Polymer Concrete				
Manufacturer	Brand	Type	Model	
NewBasis	NewBasis	◆ A ◆ B	◆ PCB132412G482 ◆ (2) PCB132412G482	
2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747		◆ C ◆ D ◆ E	 ◆ (2) PCB132412G482 ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482 	
http://www.newbasis.com/		Cover For Type C & D	 PCC1324DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT PCC1324DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION PCC1730DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS PCC1730DCA528- DANGER HIGH VOLTAGE/ILLUMINATION PCC1730DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT PCC1730DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION 	

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Ground Boxes – Precast Polymer Concrete				
Manufacturer	Brand	Type	Model	
Synertech Moulded Products	Synertech	♦ A	◆ S132412HH90	
		♦ B	◆ S132424HH90	
2 Inverness St.		♦ C	◆ S173012HH90	
Candiac, Quebec Canada		♦ D	◆ S173024HH90	
J5R 4WS		♦ E	◆ S132418HH90	
Toll Free (888) 868-5214 http://www.synertechproducts.com		Cover For Type A, B & E	 ◆ S1324HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNAL ◆ S1324HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1324HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1324HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION 	
		Cover For Type C & D	 \$1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS \$1730HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION \$1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT \$1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION 	

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Manufacturer	Brand	Boxes - Precast Polymer Con Type	Model
Oldcastle Enclosure Solutions	Oldcastle	→ A	◆ 13242030
Cideastic Enclosure Solutions	Graeustre	→ B	◆ 13242032
2434 Rubidoux Blvd.		▼ B	▼ 13242032
Riverside, CA. 92509		♦ C	◆ 17302061
(800) 735-5566		• D	◆ 17302063
(713) 875-8030		◆ E	◆ 13242031
http://www.oldcastleprecast.com/			
<u>enclosuresolutions</u>		Cover For Type A, B & E	 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS 13244156- DANGER HIGH VOLTAGE/ILLUMINATION 13244158- DANGER HIGH
Carson Industries, LLC. is now Oldcastle Enclosure Solutions 8-29-2013 Model numbers are the same			 ◆ 13244158- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 13244157- DANGER HIGH VOLTAGE
	×	Cover For Type C & D	 17304185- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS 17304183- DANGER HIGH VOLTAGE/ILLUMINATION 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT 17304272- DANGER HIGH VOLTAGE

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Ground Boxes - Precast Polymer Concrete				
Manufacturer	Brand	Туре	Model	
CDR Systems Corporation	cdr	♦ A	◆ SB14-1324-12-0287	
		♦ B	♦ SB14-1324-12-0287 -2 boxes stacked	
146 South Atlantic Ave.				
Ormond Beach, FL. 32176		♦ C	◆ SB14-1730-12-0494	
(386) 615-9510		♦ D	◆ SC14-1730-22-0499	
		◆ E	◆ SB14-1324-18-0288	
http://www.cdrsystems.com/				
		Cover For Type A, B & E	◆ SC12-1324-02	
		Cover For Type C & D	◆ SC12-1730-02	
		Cover For All Boxes	◆ All Covers Read "Danger High Voltage." Additional Logos Added Per Job Spec.	

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Ground Boxes - Precast Polymer Concrete				
Manufacturer	Brand	Type	Model	
Highline Products, Inc.	Highline	♦ A	◆ PHA132412HTD-XX	
131 Hartwell Ave. Lexington, MA. 02421 (781) 328-3220		 ◆ B ◆ C ◆ D ◆ E 	 ◆ PHA132424HTD-XX ◆ PHA173012HTD-XX ◆ PHA173024HTD-XX ◆ PHA132418HTD-XX 	
http://www.highlineproducts.com		Cover Logo Information XX in each model will be replaced with: • 20 • 21	◆ DANGER HIGH VOLTAGE	
		• 22 • 23 • 24 Ordering covers only,	 DANGER HIGH VOLTAGE/ ILLUMINATION DANGER HIGH VOLTAGE/ SIGN ILLUMINATION DANGER HIGH VOLTAGE/ TRAFFIC MANAGEMENT DANGER HIGH VOLTAGE/ TRAFFIC SIGNALS 	
	3C)	Ordering covers only, Contact Manufacturer		

	Ground 1	Boxes – Precast Polymer Co	ncrete
Manufacturer	Brand	Type	Model
Duravault	Duravault	♦ A	◆ PC132412STBTXD-XX (122311)
		♦ B	◆ PC132422STBTXD-XX (122322)
310 Weathers Dr.		♦ C	◆ PC173012STBTXD-XX (162911)
Laredo, TX. 78045		◆ D	◆ PC173022STBTXD-XX (162922)
(885) 250-3993		◆ E	◆ PC132418STBTXD-XX (122317)
http://www.duravault.com			
		Cover Logo Information XX in each model will be replaced with: Cover For Type A, B & E	 PCC1324BTXD-TS/ TRAFFIC SIGNAL PCC1324BTXD-IL/ ILLUMINATION PCC1324BTXD-TM/ TRAFFIC MANAGEMENT
		Cover For Type C & D	 PCC1324BTXD-SI/ SIGN ILLUMINATION PCC1730BTXD-TS/ TRAFFIC SIGNAL PCC1730BTXD-IL/ ILLUMINATION PCC1730BTXD-TM/ TRAFFIC MANAGEMENT PCC1730BTXD-SI/ SIGN ILLUMINATION
	(C)	Cover For All Boxes	All Covers Read "DANGER HIGH VOLTAGE"

Ground Boxes - Precast Polymer Concrete				
Manufacturer	Brand	Туре	Model	
Martin Enterprises	Martin	♦ A	◆ 1324/12 PC Type A Tier 15 Rated	
		♦ B	◆ 1324/24 PC Type B Tier 15 Rated	
19940 Hansen Avenue		♦ C	◆ 1730/18 PC Type C Tier 15 Rated	
Nuevo, CA 92567		◆ D	♦ 1730/24 PC Type D Tier 15 Rated	
(951) 928-8413		◆ E	◆ 1324/18 PC Type E Tier 15 Rated	
http://www.martinfrp.com				
		Cover For Type A, B & E	◆ 1324 Cover Traffic Signal / DANGER - HIGH VOLTAGE/TRAFFIC SIGNALS	
			◆ 1324 Cover Illumination / DANGER - HIGH VOLTAGE/ILLUMINATION	
			◆ 1324 Cover Traffic Management / DANGER - HIGH VOLTAGE/TRAFFIC MANAGEMENT	
		Cover For Type C & D	• 1730 Cover Traffic Signal / DANGER - HIGH VOLTAGE/TRAFFIC SIGNALS	
			1730 Cover Illumination / DANGER - HIGH VOLTAGE/ILLUMINATION	
		(8)	 ◆ 1730 Cover Traffic Management / DANGER - HIGH VOLTAGE/TRAFFIC MANAGEMENT 	

Item 628 – Electrical Services

General

The following products have been tested and are pre-qualified for use on projects where Electrical Services are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Electrical Service				
Manufacturer	Brand	Type	Model	
Electrol Systems 10623 Sentinel Drive San Antonio, TX 78217	Electrol	◆ A◆ C	◆ ELECTROL TYPE A-TXDOT◆ ELECTROL TYPE C-TXDOT	
(210) 599-6485 (888) 853-8944		◆ C- Auxiliary Only	 ◆ ELECTROL TYPE C- Auxiliary Only – TXDOT ◆ ELECTROL TYPE D-TXDOT 	
http://www.electrolsystems.com/		◆ D ◆ T- Auxiliary Only	◆ ELECTROL TYPE T- Auxiliary Only -	
	•	• T-All in One	TXDOT ◆ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT	
	\(\)	• A-Pedestal	◆ ELECTROL TYPE A-PEDESTAL-TXDOT	
	(C)	◆ D-Pedestal	♦ ELECTROL TYPE D-PEDESTAL-TXDOT	
WE Manufacturing	WE	♦ A	◆ WE TYPE A-TXDOT	
5535 Harvey Wilson Drive Houston , TX 77020		♦ C	◆ WE TYPE C-TXDOT	
(713) 676-2298 (800) 880-9453		◆ C- Auxiliary Only	◆ WE TYPE C- Auxiliary Only –TXDOT	
http://www.wemanufacturing.com/		♦ D	◆ WE TYPE D-TXDOT	
		◆ T- Auxiliary Only	◆ WE TYPE T- Auxiliary Only –TXDOT	
		◆ T-All in One	◆ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT	
		◆ A – Pedestal	♦ WE TYPE A- PEDESTAL – TXDOT	
		♦ D-Pedestal	◆ WE TYPE D-PEDESTAL – TXDOT	

Electrical Service					
Manufacturer	Brand	Туре	Model		
Mica Corporation	Mica	♦ A	◆ MICA TYPE A-TXDOT		
P.O. Box 161609 Fort Worth , TX 77020		♦ C	◆ MICA TYPE C-TXDOT		
(817) 847-6121		◆ D	◆ MICA TYPE D-TXDOT		
(817) 577-2088		◆ T- Auxiliary Only	◆ MICA TYPE T- Auxiliary Only –TXDOT		
http://micacorporation.com		◆ T-All in One	◆ MICA TYPE T- ALL IN ONE ENCLOSURE _TXDOT		
Specialty Control Systems	SCS	• A	◆ SCS TYPE A-TXDOT		
Specialty Control bystems	БСБ	V A	SCS THE A-TADOT		
629 SH 3		♦ D	◆ SCS TYPE D-TXDOT		
League City , TX 77573					
(281) 332-0999		◆ T-All in One	◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT		
http://www.specialtycontrol.com/	10	◆ D-Pedestal	◆ SCS TYPE D-PEDESTAL-TXDOT		
	<c <="" td=""><td></td><td></td></c>				

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		Electrical Service	
Manufacturer	Brand	Type	Model
Tesco Controls, Inc.	Tesco	♦ A-Pedestal	◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240)
3434 52 nd Ave. Sacramento, CA 95823		♦ A-Pedestal	◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480)
(916) 395-8800		◆ C-Pedestal	◆ TESCO TYPE C-PEDESTAL-TXDOT
http://www.tescocontrols.com		♦ D-Pedestal	◆ TESCO TYPE D-PEDESTAL-TXDOT
Myers Power Products, Inc.	Myers	◆ A-Pedestal	◆ MEUG16 TYPE A-PEDESTAL-TXDOT
725 E. Harrison St. Corona , CA 92879		◆ D-Pedestal	◆ MEUG16 TYPE D-PEDESTAL-TXDOT
(951) 520-1900 (866) 696-9377		◆ D	◆ MYERS TYPE D-TXDOT
http://www.myerspowerproducts.com	•	A	◆ MYERS TYPE A-TXDOT
	S		

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		Electrical Service	
Manufacturer	Brand	Туре	Model
Associated Starters & Controls	ASC	♦ A	◆ ASC TYPE A-TXDOT
310 Breesport, Ste. D San Antonio , TX 78216		♦ C	◆ ASC TYPE C-TXDOT
(210) 798-1334 (888) 798-1334		♦ D	◆ ASC TYPE D-TXDOT
		♦ T	◆ ASC TYPE T-TXDOT
		◆ T-Auxiliary	◆ ASC TYPE T-AUX-TXDOT
		♦ A - Pedestal	• ASC TYPE A-PEDESTAL - TXDOT
		◆ D - Pedestal	◆ ASC TYPE D-PEDESTAL - TXDOT
Milbank Manufacturing Co.	Milbank	• A - Pedestal	MB TYPE A-PEDESTAL –TXDOT (120/240)
4801 Deramus		♦ A - Pedestal	◆ MB TYPE A-PEDESTAL –TXDOT
Kansas City, MO 64120			(240/480)
(816) 483-5314 (Main Switch Board)		♦ D - Pedestal	◆ MB TYPE D-PEDESTAL –TXDOT
(660) 463-0800 (Commercial Pedestal)			(120/240)
http://milbankmfg.com	•		
	S		

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		Electrical Service	
Manufacturer	Brand	Туре	Model
Dynamic Automation & Controls	Dynamic Automation	◆ A	◆ TYPE A-POLE MOUNT
10560 Sentinel San Antonio , TX 78217	& Controls	◆ A-Pedestal	◆ TYPE A-PEDESTAL
(210) 267-2489 (855) 465-6099		• D	◆ TYPE D-POLE MOUNT
http://dynamic-ac.com		◆ D-Pedestal	◆ TYPE D-PEDESTAL
	•		
	S		

Tork
Mt. Vernon, NY 10550 914) 664-5042 * Tork bought out by NS * DUX124-12A30 P.O. Box 3004 Newark, OH 43800 800) 754-0463 * http://www.darktolight.com
Tork bought out by NS. # DUX124 -12A30 # D
American Electric Lighting / DTL P.O. Box 3004 Newark, OH 43800 (800) 754-0463 http://www.darktolight.com
American Electric Lighting / DTL P.O. Box 3004 Newark, OH 43800 (800) 754-0463 http://www.darktolight.com
P.O. Box 3004 Newark, OH 43800 (800) 754-0463 http://www.darktolight.com
Photocell
P.O. Box 3004 Newark, OH 43800 800) 754-0463 http://www.darktolight.com
Newark, OH 43800 (800) 754-0463 http://www.darktolight.com
800) 754-0463 ttp://www.darktolight.com
ttp://www.darktolight.com
Type Electronics Arm Lighting Passageh A 120 277 Volt A ALD SCT DV IES III
Area Lighting Research \(\psi \) 120-2// Volt \(\psi \) ALR-551-PV-1E5-01
Tyco Photocell (3E7425-000)
3000 Purfoy Rd.
Fuquay-Varina, NC 27526
919)557-8459
nttp://www.tycoelectronics.com/

Item 685 – Roadside Flashing Beacon Assemblies

General

The following products are pre-qualified for use on projects where Roadside Flashing Beacon Assemblies are furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Manufacturer	Brand	Туре	Model
Mersen USA	Ferraz Shawmut	◆ Single Pole	◆ FEB-81-81-BA when fused use slug
374 Merrimac Street		♦ Single Pole	◆ FEBN-81-81-BA for neutral (non-fused)
Newburyport, MA 01950		<i> </i>	
(978) 462-6662		◆ Dummy Fuse (Slug)	♦ MNL30 - Slug
http://ep-us.mersen.com/			These breakaway connectors are to be used
			when required by TxDOT Standards RFBA
Ferraz Shawmut is Now Mersen.			and SPRFBA. Installing contractor to supply
Parent Company name change only.			dummy fuse-(slug).
Brand of connector is still			
Ferraz Shawmut.		100	
Littelfuse Inc.	Littelfuse	◆ Single Pole	◆ LEB-JJ-S-WPB1 when fused use slug
800 E. Northwest Highway	V	◆ Single Pole	◆ LET-JJ-S-WPB1 for neutral (non-fused)
Des Plaines, IL 60016-3096			
(847) 824-1188	10°	◆ Dummy Fuse (Slug)	♦ Not available at this time
http://www.littelfuse.com			These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA . Installing contractor to supply dummy fuse-(slug).
Eaton –Bussmann Series	Bussmann	◆ Single Pole	◆ HEB-JW-RLC-J when fused use slug
114 Old State Road		◆ Single Pole	◆ HET-JW-RLC-J for neutral (non-fused)
Ellisville, MO 63021			
(855) 287-7626		◆ Dummy Fuse (Slug)	♦ NNB - Slug
http://www.cooperindustries.com/co ntent/public/en/bussmann/electrical. html			These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA . Installing contractor to supply dummy fuse-(slug).

	Bre	akaway Holders-Non-Fused	
Manufacturer	Brand	Type	Model
Ideal Industries, Inc.	Ideal – Buchanan	◆ Single Pole	♦ 30-S1212 when fused use slug
1375 Park Avenue Sycamore, IL 60178	SLK	◆ Single Pole	◆ 30-S1212N for neutral (non-fused)
(800) 435-0705		◆ Dummy Fuse (Slug)	◆ Not available at this time
http://www.idealindustries.com			These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPREBA . Installing contractor to supply dummy fuse-(slug).

Item 687 – Pedestal Pole Assemblies

General

The following products are pre-qualified for use on projects where Pedestal Pole Bases are furnished or installed as required by the item descriptive code. Where Pedestal Poles are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

		Pedestal Pole Base	A
Manufacturer	Brand	Туре	Model
Akron Foundry Company	Akron	◆ Pedestal Pole Base	◆ TS-1000
2728 Wingate Ave.		◆ Pedestal Pole Base with	◆ TS-1000-L
Akron, OH 44314		Extended Neck	
(330) 745-3101			
http://www.akronfoundry.com		·V	
Pelco Products, Inc.	Pelco	◆ Pedestal Pole Base	◆ SP-1014 -TX
320 W. 18th Street			
Edmond, OK 73013			
(405) 340-3434	\ C		
http://www.pelcoinc.com			
Component Products, Inc.	СРІ	◆ Pedestal Pole Base	◆ CPI-BAS-1P (TXDOT)
521 Morse Avenue		◆ Pedestal Pole Base with	◆ CPI-BAS-1-PX (TXDOT)
Schaumburg, IL 60193		Extended Neck	
(800) 807-6537			
(847) 301-1000			
http://www.componentproducts.com			

Roadway Illumination and Electrical Supplies Table of Contents

Materials Pre-qualified for Illumination and Electrical items 610-687 No additional submittals are required for products that are pre-qualified

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For more information about these materials, contact the Traffic Operations Division, Engineering Operations Branch at (512) 416-3232.

Notice:

All submittal and corresponding documentation becomes public information.

All manufacturers' products that are listed within this document are pre-qualified. Manufacturer name change does not change the pre-qualified status of the original material. TxDOT reserves the right to remove any manufacturer or product from this list, at any time. Manufacturers interested in being added to the pre-qualified list should contact Traffic Operations Division.

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Item 610 – Roadway Illumination Assemblies

General

Roadway Illumination Poles do not need to be pre-qualified when TxDOT RIP (Roadway Illumination Pole) standard sheets are included in the plan set.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of Item 610 and applicable Special Provisions to Item 610.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP (Roadway Illumination Pole). Poles fabricated according to RIP standard sheets require no shop drawings.

Alternate designs to RIP or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on the requirements and procedures of shop drawings go to: http://www.txdot.gov/business/resources/specifications/shop-drawings.html
Click on "Requirements and Procedures for Optional and Non-Standard Illumination Pole Designs and Shop Drawings."

Limitations on Use of the RIP-11 Standard

The Roadway Illumination Pole (RIP-11) standard details were developed for installations in locations where the 3-second gust basic maximum wind speed is 110 mph, and where the elevation of the base of the pole is less than (i.e. not more than) 25' above the elevation of surrounding terrain, in accordance with the "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals," 4th Edition (2001) (AASHTO Design Specifications). For poles to be installed in regions where the maximum basic wind speed exceeds 110 mph or to be mounted more than 25' above the surrounding terrain, the contractor shall provide poles meeting the following requirements:

- A. **Submittals.** Following the electronic shop drawing submittal process (see ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e_submit_guide.pdf), the contractor shall submit to the Engineer, for approval, fabrication drawings and calculations for the poles. The drawings and calculations shall be sealed by a Texas registered or licensed professional engineer (P.E.).
- B. Luminaire Structural Support Requirements. Lighting poles, arms, and anchor bolt assemblies shall have a 25-year design life to safely resist dead loads, ice loads and the required basic wind speeds at the location of installation in accordance with the current edition of the AASHTO Design Specifications. For transformer base poles, the fabricator shall include transformer base and connecting hardware in calculations and shop drawing submittals. All transformer bases shall have been structurally tested to resist the theoretical plastic moment capacity of the pole. Certification of the plastic moment load test and FHWA breakaway requirement test of the model of base being furnished shall be submitted with the shop drawings. Shop drawings shall show breakaway base model number, and manufacturer's name and logo. Manufacturer's shop drawings shall include the ASTM designations for all materials to be used.

Item 610 – Roadway Illumination Assemblies

General

The following products are pre-qualified for use on the projects where roadway illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Roadway Illumination Assemblies – Underpass Fixture					
Manufacturer	Brand	Туре	Model		
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	◆ Induction Fluorescent Underpass Fixture	♦ UDP-165-QL-GR		
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	 Induction Fluorescent Underpass Fixture − Steel Housing Induction Fluorescent Underpass Fixture − Aluminum Housing Box Beam Bracket to Mount Fixture Bridge Deck Bracket to Mount Fixture U-Beam Bracket 	 ◆ TS2020-3/3-1-150IND-277V-R-SSPH-TEXAS ◆ TS2020-*/*-150IND-*Volt-8-SSPH-TDOT-ALUMINUM ◆ Ask for BB Bracket When Required – Sold Separately ◆ Ask for BD Bracket When Required – Sold Separately ◆ Ask for UB Bracket When Required – Sold Separately 		
ESCO Lighting 3254 N. Kilborn Ave. Chicago, IL 60641 (773) 427-7000 http://www.escolighting.com	ESCO	◆ Induction Fluorescent Underpass Fixture	◆ SP2343		

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	Roadway Illumination Asso	emblies – Underpass Fixture	
Manufacturer	Brand	Туре	Model
H.E. Williams 831 W. Fairview Ave.	Infinity	◆ Induction Fluorescent Underpass Fixture	
P.O. Box 837		♦ BB Box Beam	◆ ICERL1-150S-41K-
Carthage, MO 64836		♦ BB Box Beam	BAT/CG1-GRA-UNV
(417) 358-4065		A DD Dollar Doub	◆ ICERL3-150S-41K-
,		◆ BD Bridge Deck	BAT/CG1-GRA-UNV
http://www.hew.com		, , , , , , , , , , , , , , , , , , ,	◆ ICERL5-150S-41K-
maps, www.mewicom		♦ UB U-Beam	BAT/CG1-14DEG-UNV
Eaton (formerly Cooper)	Fail-Safe	♦ Induction Fluorescent	◆ TF28-150ICE-UNV- A1432
1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800		Underpass Fixture	A1432
http://www.cooperindustries.com/ content/public/en/lighting/brands/ streetworks.html			
	· ·		

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	1	on Assemblies – Luminaire	
Manufacturer	Brand	Туре	Model
Eaton (formerly Cooper)	Streetworks	◆ 150W HPS- 240/480 Volt	◆ OVW15SMJ3DD0004
		◆ 250W HPS- 120/240 Volt	◆ OVW25SMG2DD0001
1121 Highway 74 South		◆ 250W HPS- 240/480 Volt	♦ OVW25SMJ2DD0002
Peachtree City, GA 30269 (770) 486-4800		◆ 400W HPS- 120/240 Volt	◆ OVW40SMG2DD0005
(770) 480-4800		◆ 400W HPS- 240/480 Volt	◆ OVW40SMJ2DD0003
nttp://www.cooperindustries.com/co			
ntent/public/en/lighting/brands/stree			
works.html			
		1	
G.E. Lighting Systems, Inc.	M4RC	◆ 150W HPS- 240/480 Volt	◆ M4RC15S9M4GMC3312
8010 Spartanburg Highway		▼ 130 W 1113- 240/480 VOII	or GE Manufacture #180055
Henderson, NC 28793		◆ 250W HPS-120/240 Volt	◆ M4RC25S7M4GSC2311 or
(800) 305-1372		◆ 250W HPS-120/240 VOII	GE Manufacture #168025
(800) 303-1372		. 250WHD2 240WD2WH	◆ M4RC25S9M4GSC2311 or
nttp://www.gelightingsystems.com		◆ 250W HPS- 240/480 Volt	GE Manufacture #168023
ittp://www.genghtingsystems.com		100YY 1770 A 20 10 YY 1	◆ M4RC40S7M4GSC3311 or
		◆ 400W HPS-120/240 Volt	GE Manufacture #157785
			◆ M4RC40S9M4GSC3311 or
		400W HPS- 240/480 Volt	GE Manufacture #158165
			021114114140410
Holophane	Mongoose	◆ 250W HPS- 120 Volt	◆ G25RHP12LNRHGBR-
3825 Columbus Road SW	Wiongoose	▼ 250 W 11F 5- 120 V 01t	TXDOT
Granville, OH 43023		◆ 250W HPS- 240 Volt	
(740) 587-4030		◆ 250W HPS- 240 VOII	♦ G25RHP24LNRHGBR-
FAX (866) 761-9819		. 25000 1100 400 0 1	TXDOT
		◆ 250W HPS- 480 Volt	♦ G25RHP48LNRHGBR-
nttp://www.holophane.com			TXDOT
		◆ 400W HPS- 120Volt	♦ G40RHP12LNRHGBR-
Y			TXDOT
		♦ 400W HPS- 240Volt	◆ G40RHP24LNRHGBR-
			TXDOT
		◆ 400W HPS- 480 Volt	♦ G40RHP48LNRHGBR-
		7 TOO IT IN TOU VOIL	TXDOT
			-
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Roadway Illumination Assemblies – LED Luminaire				
Manufacturer	Brand	Туре	Model	
TraStar 860 N. Dorothy Drive #600 Richardson, TX 75081 (972) 480-0888 http://www.trastarusa.com	Duralight	◆ 250W EQ LED- 120/240 Volt; LLF=0.86 ◆ 250W EQ LED- 480 Volt; LLF=0.86 ◆ 400W EQ LED- 120/240 Volt; LLF=0.86 ◆ 150W EQ LED- 120/240 Volt; LLF=0.86 ◆ 150W EQ LED- 480 Volt; LLF=0.86 ◆ 250W EQ LED- 120/240 Volt; LLF=0.86 ◆ 250W EQ LED- 120/240 Volt; LLF=0.86 ◆ 400W EQ LED- 120/240 Volt; LLF=0.86 ◆ 400W EQ LED- 120/240 Volt; LLF=0.86	 DURA-ST25-4K-120-2-GR-SCLB DURA-ST25-4K-480-2-GR-SCLB DURA-ST40-4K-120-2-GR-SCLB DURA-ST40-4K-480-2-GR-SCLB JXM-ST140-3-40K-120-3-GR-SCLBTX JXM-ST180-3-40K-480-3-GR-SCLBTX JXM-ST180-3-40K-120-2-GR-SCLBTX JXM-ST180-3-40K-480-2-GR-SCLBTX JXM-ST180-4-40K-120-2-GR-SCLBTX JXM-ST180-4-40K-480-2-GR-SCLBTX 	

	Roadway Illumination Assemblies – Luminaire					
Manufacturer	Brand	Туре	Model			
Eaton (formerly Cooper)	Streetworks	◆ 150W EQ LED-120/240 VOLT LLF=0.86	◆ VERD-A028-D-U-T3-4N7- 20K-AP-TXDOT-D0077			
1121 Highway 74 South Peachtree City, GA 30269		◆ 150W EQ LED-480 VOLT LLF=0.86	◆ VERD-A028-D-8-T3-4N7- 20K-AP-TXDOT-D0078			
(770) 486-4800		◆ 250W EQ LED-120/240 VOLT LLF=0.816	◆ VERD-G-A02-D-U-T2-4N7- 20K-AP-TXDOT-D0027			
http://www.cooperindustries.com/content/public/en/lighting/brands/stree		◆ 250W EQ LED-480 VOLT LLF=0.816	◆ VERD-G-A02-D-8-T2-4N7- 20K-AP-TXDOT-D0028			
tworks.html		◆ 400W EQ LED- 120/240 Volt; LLF=0.81	◆ VERD-M-A03-D-U-T2-4N7- 20K-AP-TXDOT-D0004			
		◆ 400W EQ LED- 480 Volt; LLF=0.81	◆ VERD-M-A03-D-8-T2-4N7- 20K-AP-TXDOT-D0005			
		◆ 150W EQ LED- 120/240 Volt; LLF=0.86	◆ XNV2-AC-02-D-U-3-525- 4N7-AP-TXDOT-D0030			
		◆ 150W EQ LED- 480 Volt; LLF=0.86	◆ XNV2-AC-02-D-8-3-525- 4N7-AP-TXDOT-D0031			
		◆ 250W EQ LED- 120/240 Volt; LLF=0.86	◆ XNV2-AC-02-D-U-2-4N7- AP-TXDOT-D0028			
		◆ 250W EQ LED- 480 Volt; LLF=0.86	◆ XNV2-AC-02-D-8-2-4N7- AP-TXDOT-D0029			
		400W EQ LED- 120/240 Volt; LLF=0.86	◆ NVN-AE-03-D-U-T2R-4N7- AP-TXDOT-D0102			
		◆ 400W EQ LED- 480 Volt; LLF=0.86	◆ NVN-AE-03-D-8-T2R-4N7- AP-TXDOT-D0103			
		◆ 400W EQ LED- 120/240 Volt; LLF=0.85	◆ NVN-AF-03-D-U-T2R-4N7- AP-TXDOT-D0225			
		◆ 400W EQ LED- 480 Volt; LLF=0.85	◆ NVN-AF-03-D-8-T2R-4N7- AP-TXDOT-D00226			
	.()		AI -1/ADO1-D00220			

Roadway Illumination Assemblies – LED Luminaire				
Manufacturer	Brand	Туре	Model	
GreenStar	GreenStar	◆ 150W EQ LED- 120/240 Volt; LLF=0.74	◆ XAVX08431SNXXI	
6900 Alamo Downs Pkwy Suite 120		◆ 150W EQ LED- 480 Volt; LLF=0.74	◆ XAVH08434SNXXI	
San Antonio, TX 78238		◆ 250W EQ LED- 120/240 Volt; LLF=0.74	◆ XAVX12431SNXXI; old part # AV12431SN	
http://greenstarled.com/		◆ 250W EQ LED- 480 Volt; LLF=0.74	◆ XAVH12434SNXXI; old part # AV12434SN	
		◆ 400W EQ LED- 120/240 Volt; LLF=0.74	◆ XAVX20431SNXXI	
		◆ 400W EQ LED- 480 Volt; LLF=0.74	◆ XAVH20434SNXXI	
GE Lighting Solutions	Evolve	◆ 150W EQ LED - 120V; LLF=0.80	• ERS11B3D17404GRAY12 0	
3010 Spartanburg Hwy East Flat Rock, NC 28726		◆ 150W EQ LED - 240V; LLF=0.80	• ERS13B3D17404GRAY12 0	
http://www.gelightingsystems.com		◆ 150W EQ LED - 480V; LLF=0.80	◆ ERS15B3D17404GRAY08 1	
		◆ 250W EQ LED - 240V; LLF=0.79	◆ ERS20E3E17404GRAY08 3	
		◆ 250W EQ LED - 480V; LLF=0.79	• ERS2HE3E17404GRAY13 4	
		◆ 400W EQ LED - 240V; LLF=0.70	• ERS20H3E11404GRAY13 5	
		◆ 400W EQ LED - 480V; LLF=0.70	• ERS2HH3E11404GRAY13 6	
Philips Philips Lighting 200 Franklin Square Drive	Laumec	◆ 250W EQ LED - 120/240V; LLF=0.833	◆ [RFM-004]- 108W48LED4K-T-R2M- [UNIV-009]-DMG-ML- RCD-SP2-GY3	
Somerset, NJ 08873 http://www.lightingproducts.phillpscom/		◆ 250W EQ LED - 480V; LLF=0.833	◆ [RFM-004]- 108W48LED4K-T-R2M- [HVU-002]-DMG-ML- RCD-SP2-GY3	
		◆ 400W EQ LED - 120/240V; LLF=0.833	◆ [RFL-006] 180W80LED4K-T-R2M- [UNIV-009]-DMG-ML- RCD-SP2-GY3	
		◆ 400W EQ LED - 480V; LLF=0.833	♦ [RFL-006]- 180W80LED4K-T-R2M- [HVU-002]-DMG-ML- RCD-SP2-GY3	

Roadway Illumination Assemblies – LED Luminaire					
Manufacturer	Brand	Туре	Model		
Acuity Acuity Brands Lighting, Inc.	American Electric	◆ 150W EQ LED - 120/240V; LLF=0.742	◆ ATB0 20BLEDE10 MVOLT R3 20 BL NL SH F2 RFD22058		
3825 Columbus Rd. Granville, OH 43023		◆ 150W EQ LED - 480V; LLF=0.742	◆ ATB0 20BLEDE10 480 R3 20 BL NL SH F2 RFD209795		
http://www.acuitybrands.com		◆ 250W EQ LED - 120/240V; LLF=0.815	 ATB0 30BLED15 MVOLT R2 20 BL NL SH RFD209796 ATB0 30BLED15 480 R2 20 		
		◆ 250W EQ LED - 480V; LLF=0.815	BL NL SH RFD220059 • ATBL D MVOLT R2 4B 20		
		◆ 400W EQ LED + 120/240V; LLF=0.877	NL SH RFD209798 • ATBL D 480 R2 4B 20 NL		
		◆ 400W EQ LED - 480V; LLF=0.877	SH RFD220060		
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High Pressure Sodium Lamps				
Manufacturer	Brand	Туре	Model	
Osram Sylvania	Sylvania - Lumalux Plus®/ECO	◆ 400 Watt Lamp	◆ 67312 - LU400/PLUS/ECO	
100 Endicott Street Danvers, MA 24210		◆ 250 Watt Lamp	◆ 67572 - LU250/PLUS/ECO	
(978) 777-1900 For Lamps (800) 544-4828		◆ 150 Watt Lamp	◆ 67494 -LU150/55/PLUS/ ECO	
http://www.sylvania.com/				
Philips Lighting Company	Philips - Ceramalux®/ALTO®	♦ 400 Watt Lamp	◆ 14743-9 – C400S51/ALTO NC HPS	
200 Franklin Square Dr. P.O. Box 6800	Non-Cycling Lamp	◆ 250 Watt Lamp	◆ 14742-1 – C250S50/ALTO NC HPS	
Somerset, NJ 08875 (800) 555-0050		◆ 150 Watt Lamp	◆ 14741-3 – C150S55/ALTO NC HPS	
http://www.lighting.philips.com		3		
GE Lighting	GE – EcoluxNC TM	◆ 400 Watt Lamp	◆ 14675 – LU400/ECO/NC	
Nela Park, 1975 Noble Rd. Cleveland, OH 44112		◆ 250 Watt Lamp	◆ 14674 – LU250/ECO/NC	
(216) 266-2121	50°	♦ 150 Watt Lamp	◆ 40390 – LU150/55/ECO/ NC	
http://www.gelighting.com				

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Photoelectric Control - Photocell				
Manufacturer	Brand	Туре	Model	
Tork 1 Grove Street Mt. Vernon, NY 10550	Tork	◆ 120-277 Volt Photocell	◆ S895 ◆ NSI-TORK S895 *	
(914) 664-5042 http://www.tork.com/			* Tork has recently been bought out by NSI	
American Electric Lighting / DTL P.O. Box 3004 Newark, OH 43800 (800) 754-0463 http://www.darktolight.com	DTL	◆ 120-277 Volt Photocell	♦ DUX124 -12A30	
Tyco Electronics 8000 Purfoy Rd. Fuquay-Varina, NC 27526 (919) 557-8459 http://www.tycoelectronics.com/	Area Lighting Research Tyco	◆ 120-277 Volt Photocell	♦ ALR-SST-PV-IES-UL (3E7425-000)	

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Breakaway Fuse-holders				
Manufacturer	Brand	Type	Model	
Eaton –Bussmann Series	Bussmann	◆ Double-pole	♦ HEX-KW-DRYC – used when no neutral is required	
114 Old State Road Ellisville, MO			. HEN WW DDVC	
63021 (855) 287- 7626		◆ Double-pole	◆ HEN-KW-DRYC – used when neutral is present	
http://www.cooperindustries.com/ content/public/en/bussmann/electri			Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.	
<u>cal.html</u>			These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.	
Littelfuse Inc.	Littelfuse	◆ Double-pole	0LEXYYCSX – used when no neutral is required	
800 E. Northwest Highway				
Des Plaines, IL 60016-3096		◆ Double-pole ■	LEXTOYYSX – used when neutral is present	
(847) 824-1188 http://www.littelfuse.com		.01	Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.	
			These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.	
Mersen USA	Ferraz Shawmut	◆ Double-pole	◆ FEX-91-91-BA – used when no neutral is required	
374 Merrimac Street				
Newburyport, MA 01950		◆ Double-pole	♦ FEXN-91-91-BA – used when neutral is	
(978) 462-6662			present	
http://www.ferrazshawmut.com			Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.	
Ferraz Shawmut is Now Mersen.			These breakaway connectors are to be used for	
Parent Company name change only. Brand of connector is still			both breakaway and non-breakaway poles where	
Ferraz Shawmut.			a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.	

]	Breakaway Fuse-holders	
Manufacturer	Brand	Type	Model
Ideal Industries, Inc.	Ideal-Buchanan SLK	♦ Double-pole	◆ 30-S2222D – used when no neutral is required
1 Becker Place Sycamore, IL 60178 (800) 435-0705		◆ Double-pole	◆ 30-S2222P – used when neutral is present Each fuse holder will allow 2 conductors per pole
http://www.idealindustries.com/			for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.

Manufacturer Manufacturer	Brand	ination Pole Designs and Shop Draw Type	Model
Hapco 26252 Hillman Highway Abingdon, VA 24210 (800) 368-7171 http://www.hapco.com/	Нарсо	◆ 40 FtAluminum - T-Base mounted with (1) 8Ft. Arm Only	◆ Based on Drawing # B15138 and B15136
шр://www.парсо.соп <u>/</u>			
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Manufactumon		ransformer Base	Model
Manufacturer Akron Foundry Co. 2728 Wingate Ave. Akron, OH 44314 (330) 745-3101 http://www.akronfoundry.com	Brand Akron	Type ◆ Breakaway Transformer Base for Luminaire Poles Less Than 40 Foot Height ◆ Breakaway Transformer Base for Luminaire Poles 40 to 50 Foot Height	Model ◆ TB1-17 ◆ TB3-17

Item 613 – High Mast Illumination Poles

General

There are no pre-qualified High Mast Illumination Poles.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of item 613. Provide components that fit together properly.

- (a) **Standard Design.** Fabricate poles in accordance with this Item and the plans. Alternate designs are not permitted.
- **(b) Shop Drawings.** Do not submit shop drawings for high mast illumination poles fabricated in accordance with this Item and the plans.

Item 614 – High Mast Illumination Assemblies

General

The following products are pre-qualified for use on the projects where high mast illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Luminaire – High Mast						
Manufacturer	Brand	Туре	Model			
Holophane 3825 Columbus Road SW Granville, OH 43023 (740) 587-6167 FAX (888) 300-5321 http://www.holophane.com	High Mast Cutoff-HMSC High Mast Cutoff-HMSC High Mast Dark Skies-HMSD	 High Mast – Type A High Mast – Type B High Mast – Type S 	 ◆ HMSC40RHP48B9- TXDOT 12 TYPE A ◆ HMSC40RHP48B9- TXDOT 12 TYPE B ◆ HMAO40RHP48S- TXDOT 12 TYPE S *Note model number for A & B changed from B7 to B9. No other changes noted. 			
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingsystems.com	G.E.	 High Mast – Type A High Mast – Type B High Mast – Type C High Mast – Type S 	 ◆ 159189 ◆ 159190 ◆ 159191 ◆ 159193 			
Eaton (formerly Cooper) 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperindustries.com/content/public/en/lighting/brands/streetworks.html	Streetworks	 High Mast – Type A High Mast – Type B High Mast – Type C High Mast – Type S 	 ◆ GMA40SM83DD0018 ◆ GMA40SM83DD0019 ◆ GMA40SM83DD0020 ◆ GMA40SM8ARD0017 			

High Pressure Sodium Lamps Manufacturer Brand Type Model							
Osram Sylvania	Sylvania - Lumalux Plus®/ECO	Type ◆ 400 Watt Lamp	• 67312 - LU400/PLUS/ECO				
100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828							
http://www.sylvania.com/							
Philips Lighting Company	Philips - Ceramalux®/ALTO®	◆ 400 Watt Lamp	◆ 14743-9 – C400S51/ALTO NC HPS				
200 Franklin Square Dr.	Non-Cycling Lamp						
P.O. Box 6800							
Somerset, NJ 08875		*					
(800) 555-0050							
http://www.lighting.philips.com		3					
GE Lighting	GE – EcoluxNG TM	♦ 400 Watt Lamp	◆ 14675 – LU400/ECO/NC				
Nela Park, 1975 Noble Rd.							
Cleveland, OH 44112							
(216) 266-2121	(
http://www.gelighting.com							
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Manufacturer	High N Brand	Mast Kit Type	Model
Mica Corporation	Mica Corporation	◆ High Mast – 125 Foot	◆ HMK-125-PH
5750 N. Riverside Dr. Fort Worth, TX 76137		♦ High Mast – 150 Foot	♦ HMK-150-PH
(817) 577-2088		♦ High Mast – 175 Foot	◆ HMK -175-PH
http://www.micacorporation.com			
Carolina High Mast, Inc.	Carolina High Mast, Inc.	◆ High Mast – 125 Foot	HMK-125-CHMI
700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046		♦ High Mast 150 Foot	→ HMK-150-CHMI
(002) 200 0040		◆ High Mast 175 Foot	◆ HMK -175-CHMI
Rexel	Rexel	High Mast – 125 Foot	◆ HMK-125-RX
2400 Brockton San Antonio, TX 78217	10	◆ High Mast – 150 Foot	◆ HMK-150-RX
(210) 352-1047		♦ High Mast – 175 Foot	◆ HMK -175-RX
http://www.rexelusa.com			

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	High	Mast Kit	
Manufacturer		Type	
Wildcat Electric Supply, Ltd.	Wildcat	♦ High Mast – 125 Foot	◆ HMK-125-WC
2061 Clovis Barker Road #5. San Marcos, TX 77666		♦ High Mast – 150 Foot	◆ HMK-150-WC
(512) 396-8900 (866) 301-5200		♦ High Mast – 175 Foot	◆ HMK -175-WC
nttp://www.wildcatelectric.com			
Stratus Products	Stratus Products	◆ High Mast – 100 Foot	◆ HMK-100-SSPI
Division of Structural & Steel Products, Inc		◆ High Mast – 125 Foot	♦ HMK-125-SSPI
1320 South University Suite 701		♦ High Mast – 150 Foot	♦ HMK-150-SSPI
Fort Worth, TX 76107 (800) 782-5804		♦ High Mast – 175 Foot	♦ HMK -175-SSPI
nttp://stratusprod.com		8	
Millerbernd Manufacturing Company	Millerbernd	♦ High Mast – 100 Foot	◆ MMC100KIT
522 6 th Street South Winsted, MN 55395		♦ High Mast – 125 Foot	◆ MMC125KIT
(320) 485-2111 FAX (320) 485-2220	(C)	♦ High Mast – 150 Foot	♦ MMC150KIT
nttp://www.millerberndmfg.com		♦ High Mast – 175 Foot	♦ MMC175KIT
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High Mas	st Ring- Previously Approved Shop Drawings
Manufacturer	Туре
J.W. Hall Enterprises, Inc.	♦ High Mast Ring
17731 Elizabeth Rd.	Drawing # HM 2002-01
Algoa, TX 77511	Sheets 1 through 6
(281) 337-6311	Drawing # HE 2002
http://www.jwhall.com	Sheets 7 through 9
Carolina High Mast, Inc.	
700 East McLeroy Blvd. – Suite A	Drawing # TXDOT-01
Saginaw, TX 76179	Sheets 1 through 5
(682) 286-0046	Drawing # TXDOT-02
	Sheets 1 through 4
	Drawing # TXDOT-03
	Sheets 1 through 4
	Drawing # TXDOT-04
	Sheets 1 through 3
Traffic Control Devices	◆ High Mast Ring
4417 Main Street	Drawing # E-901
Pearland, TX 77581	Sheets 1 through 10
(281) 992-3030	
http://www.tcd.cc	

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Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214 Drawin Sheets Good U	Type gh Mast Ring ngs Dated 4-8-96 1 through 4 – Until 9-30-2011
Brookfield, MO 64628 (660) 258-2214 Sheets Good U	1 through 4 –
Brookfield, MO 64628 (660) 258-2214 Sheets Good U	1 through 4 –
(660) 258-2214 Good U	Until 9-30-2011
	A
8-29-20	ngs Approved 011
	Dated 7-1-08
Sheet 2	2 Dated 8-5-11
Sheet 3	3 Dated 7-1-08
Sheet 4	4 Dated 7-1-08
PKM Steel Service • Hig	gh Mast Ring
	E1 Dated 8-2-05
	Dated 10-12-05
Salina, KS 67402-1066 Sheet 2	2 Dated 10-12-05
(785) 827-3638 Sheet 3	3 Dated 10-12-05
http://www.pkmsteel.com/	
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Item 618 - Conduit

General

The following products have been tested and are pre-qualified for use on projects where Conduit, Junction Boxes, Expansion Joints and Conduit Fittings are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

	Rigio	d Metallic Conduit – (RMC	
Manufacturer	Brand	Туре	Model
Allied Tube & Conduit 16100 S. Lathrop Avenue Harvey, IL 60426-6021 (800) 882-5543	Allied	◆ Galvanized Rigid Metal Conduit (RMC)	Trade Sizes from 1/2" to 6"
http://www.alliedeg.us/	•	70	
Wheatland	Wheatland	Galvanized RigidMetal Conduit	◆ Trade Sizes from 1/2" to 6"
900 Haddon Avenue P.O. Box 600 Collingswood, NJ 08108-0600 (800) 257-8182	(C)	(RMC)	
http://www.wheatland.com/			
Republic Conduit	Republic	Galvanized Rigid Metal Conduit	◆ Trade Sizes from 1/2" to 6"
7301 Logistics Drive		(RMC)	
Louisville, KY 40258			
(800) 840-8823			
(502) 995-5900			
http://www.republicconduit.com			

Manufacturer	Brand	d Metallic Conduit – (RM) Type	Model
Western Tube & Conduit Corp. 2001 E. Dominguez St. Long Beach, CA 90801-2720 (310) 537-6300 (800) 310-8823	Western Conduit	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
nttp://www.westerntube.com			
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Manufacturer	Brand	Vinyl Chloride Pipe- (P) Type	Model
Cantex	Cantex	♦ PVC	◆ Schedule 40 and 80
			◆ Trade Sizes from 1/2" to 6"
P.O. Box 340			
Mineral Wells, TX 76068			
(940) 325-3344			
(800) 433-5623			
http://www.cantexinc.com/			
Allied Tube & Conduit	Allied Tube & Conduit	◆ PVC	◆ Schedule 40 and 80
16100 S. Lathrop Avenue	Conduit		◆ Trade Sizes from 1/2" to 6"
Harvey, IL 60426-6021			,
•			
http://www.alliedeg.us/			
		•	
Prime Conduit Inc.	Prime Conduit	♦ PVC	♦ Schedule 40 and 80
22240 61			◆ Trade Sizes from 1/2" to 6"
23240 Chagrin Blvd. Suite 405		. (/)	
Cleveland, OH 44122 (216) 464-3400			
(800) 321-1970	•		
(800) 321-1970			
http://primeconduit.com			
1		→	
National Pipe & Plastics, Inc.	NPPI PVC	◆ PVC	◆ Schedule 40 and 80 A Trade Sizes from 1/2" to 6"
3421 Old Vestal Road			◆ Trade Sizes from 1/2" to 6"
Vestal, NY 13850			
(800) 836-4350			
http://www.nationalpipe.com/			

Manufacturer	Brand	Type	Model
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791	Heritage	♦ PVC	 ◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
http://www.heritageplastics.com/			
Rocky Mountain Colby Pipe Co. 5125-B Race Ct. Denver, CO 80216 (800) 681-8682 http://www.rmcp.com	Rocky Mountain Colby	◆ PVC	 Schedule 40 and 80 Schedule 40 - Trade Sizes from 1/2" to 6" ◆ Schedule 80 - Trade Sizes from 1 ¼" to 6"
OMNI 259 Plauche Street Harahan, LA 70123 (504) 736-0331	OMNI	• PVC	 ◆ Schedule 40 - Trade Sizes from 1/2" to 6" ◆ Schedule 80 - Trade Sizes from 2" to 6"
http://www.omni-opti.com American Pipe & Plastics, Inc. P.O. Box 577 Binghamton, NY 13902 (607) 775-4340 http://www.ampipe.com	American Pipe & Plastics	◆ PVC	 Schedule 40 – Trade Sizes from 1 ¼" to 6" in 10' lengths – All model #'s start with UL Schedule 40 – Trade Sizes from 1 ¼" to 6" in 20' lengths – All model #'s start with UL

Manufacturer	Brand	yVinyl Chloride Pipe- (P Type	Mode	el
Manufacturer JM Eagle 5200 West Century Boulevard Los Angeles, CA 90045 (800) 621-4404 http://www.jmeagle.com	JM Eagle	→ PVC	Schedule 40 • ½" 0.5 S40 UL • ¾" 0.75 S40 UL • 1 ¼" 1.25 S40 UL • 1 ¼" 1.50 S40 UL • 1 ½" 1.50 S40 UL • 2" 2 S40 UL • 2½" 2.5 S40 UL • 3½" 3.5 S40 UL • 3½" 3.5 S40 UL • 4" 4 S40 UL • 5" 5 S40 UL • 6' 6 S40 UL	Schedule 80 0.5 S80 UL 0.75 S80 UL 1 S80 UL 1.25 S80 UL 1.50 S80 UL 2 S80 UL 2.5 S80 UL 3 S80 UL 3 S80 UL 4 S80 UL 5 S80 UL 6 S80 UL

	High-Dens	ity Polyethylene Conduit (HDPE)
Manufacturer	Brand	Type	Model
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond HDPE	◆ HDPE Conduit – Schedule 40 Color - Black	 ↑ 1/2" BDI065BK-UL ↑ 3/4" BDI095BK-UL ↑ 1" BDI115BK-UL ↑ 1 ¼" BDI135BK-UL ↑ 1 ½" BDI165BK-UL ↑ 2" BDI215BK-UL ↑ 3" BDI315BK-UL ↑ 4" BDI414BK-UL
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (570) 385-4381 http://www.drakausa.com	Draka	◆ HDPE Conduit – Schedule 40 Color - Black	• 2" 321659 • 3" 321663
Dura·line	Dura·line ◆	◆ HDPE Conduit – Schedule 40	◆ 1/2" HDP 050 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED)
11400 Parkside Dr. Suite 300 Knoxville, TN. 37934 (865) 218-3460 (800) 847-7661 http://www.duraline.com Formerly A-D Technologies Name change on MPL Nov. 2013		Color - Black	 3/4" HDP 075 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) 1" HDP 100 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) 1 1/4" HDP 125 W SCHE40 SW UVS/UVS N EMPT D X(TXDOT APPROVED) 1 1/2" HDP 150 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) 2" HDP 200 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) 3" HDP 300 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) 4" HDP 400 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) 6" HDP 600 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) 6" HDP 600 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED)

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	High-Dei	nsity Polyethylene Condui	t (HDPE)
Manufacturer	Brand	Туре	Model
United Poly Systems, LLC 4707 E. Kearney St Springfield, MO 65803 (417)708-9887 www.unitedpolysystems.com	United Poly Systems	◆ HDPE Conduit – Schedule 40 Color - Black	 1" Schedule 40 - D100011AORNNNNSTX 1 1/4" Schedule 40 - D125011AORNNNNSTX 1 1/2" Schedule 40 - D150011AORNNNNSTX 2" Schedule 40 - D200011AORNNNNSTX 2 1/2" Schedule 40 - D250011AORNNNNSTX 3" Schedule 40 - D300011AORNNNNSTX 4" Schedule 40 - D400011AORNNNNSTX 5" Schedule 40 - D500011AORNNNNSTX 6" Schedule 40 - D600011AORNNNNSTX
	YC)		

Manufacturer	Brand	rete Junction Box for Conci	Model
Hubbell	Hubbell Quazite	◆ Median Barrier Box	◆ PC1012B500/PC1012CA00
3621 Industrial Park Drive		♦ Median Barrier Box –	◆ PC0516B500/PC0516CA00
Lenoir City, TN. 37771		for Concrete Barrier (F-Shape)	
(800) 346-3062		♦ Junction Box	◆ PC0608Z503831
http://www.quazite.com		w/Cover	V 1 C00002303031
		OD – 9 X 11 X 7 ¹ / ₄ " ID – 7 ³ / ₈ X 9 ³ / ₈ X 6 ¹ / ₂ "	Cover Imprinted "Danger High Voltage – Illumination"
		70	
	V		
	(C)		

Item 620 – Electrical Conductors

General

The following products are pre-qualified for use on projects where Conductors are furnished or installed as required by the item descriptive code. Where splicing materials, insulating materials, GelCaps, fuse holders or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

	Conductors – Type XHHW			
Manufacturer	Brand	Type	Model	
American Insulated Wire Co. Bought out by Southwire Corp.	American	◆ XHHW-2 Or ◆ XHHW	 ◆ Available in 14 AWG through 750 kcmil ◆ 6 AWG & 8AWG Available in Black Only 	
			American will continue to be pre-qualified until stock is depleted.	
Encore Wire 1410 Millwood Rd.	Encore	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 1000 kcmil	
McKinney, TX 75069 (800) 962-9473	• 6			
http://www.encorewire.com/	(0)			
Service Wire Company Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473	Service Wire	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil	
http://www.servicewire.com				

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Manufacturer	Brand	Type	Model	
Southwire Corporation	Southwire	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG thr	ough 1000 kemil
1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242			• 6 AWG & 8AWG Availa	ble in Black Only
http://www.southwire.com/				
Advanced Digital Cable Inc. 94 Eagle Fork Road	Advanced Digital	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG th	rough 1000 kemil
Hayesville, NC 28904 (800) 343-2579		0		
http://www.advanceddigitalcable.com				
Draka Cableteq USA	Draka	◆ XHHW-2	◆ 8 AWG Black ◆ 8 AWG White	6200110BK 6200110WH
One Tamaque Blvd. Schuylkill Haven, PA 17972	•	1	 ♦ 8 AWG Red ♦ 8 AWG Green 	6200110RD 6200110GN
570) 385-4381 http://www.drakausa.com	X		◆ 6 AWG Black◆ 6 AWG White	6200359BK 6200359WH
ttp://www.urakausa.com	40		 ◆ 6 AWG Red ◆ 6 AWG Green 	6200359RD 6200359GN
			◆ 4 AWG Black ◆ 4 AWG White	6200020BK 6200020WH
Y			◆ 4 AWG Red ◆ 4 AWG Green	6200020RD 6200020GN
V			◆ 2 AWG Black ◆ 2 AWG White	6200067BK 6200067WH
			 ◆ 2 AWG Red ◆ 2 AWG Green ◆ 8 AWG Bare 	6200067RD 6200067GN 113-0007-168
			 ♦ 6 AWG Bare ♦ 4 AWG Bare ♦ 2 AWG Bare 	113-0007-146 113-0007-137 113-0007-100

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	\mathbf{C}	onductors – Type XHHW	7
Manufacturer	Brand	Туре	Model
Falcon Fine Wire	Falcon	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 4000 kcmil
2401 Discovery Blvd.			Available Jacket Colors:
Rockwall, TX 75032			Black, Red. White, Green
(800) 874-7230			
(214) 771-3441			
http://www.falconfinewire.com			3090194 – ETL Number Will Be Printed On Jacket
Republic Wire Inc.	Republic Wire Inc.	◆ XHHW-2 Or ◆ XHHW	◆ Available in 8 AWG through 2 AWG
5525 Union Centre Drive			Available Jacket Colors:
West Chester, OH 45069			Black, Red. White, Green
(513) 860-1800			
		•	Available in 1/0 AWG through 750 Kcmil
http://www.republicwire.com			Available in Black Only
	•	70	◆ Bare Copper Soft Drawn Solid and Stranded 8AWG - 2AWG
Coleman Cable, Inc.	cci	• XHHW-2	Available in Black Only
1530 Shields Drive			◆ 8 AWG 18080
Waukegan, IL 60085			◆ 8 AWG 18080 ◆ 6 AWG 18060
(800) 325-9355			◆ 4 AWG 18040
			◆ 2 AWG 18020
http://www.colemancable.com			◆ 1 AWG 18010
			◆ 1/0 AWG 18100
•			◆ 2/0 AWG 18200
			◆ 3/0 AWG 18300
			◆ 4/0 AWG 18400
			◆ 250 MCM 18250
			◆ 350 MCM 18350 ◆ 400 MCM 18440
			◆ 500 MCM 18500
			◆ Bare Copper Solid and Stranded 8 AWG – 4AWG
			Stranded 2 AWG – 600 kcmil

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Manufacturer	Brand	Breakaway Fuse-holders Type	Model
Eaton –Bussmann Series	Bussmann	◆ Double-pole	◆ HEX-KW-DRYC – used when no neutral is
	Dussillallii	♦ Double-pole	required
114 Old State Road			
Ellisville, MO 63021		◆ Double-pole	◆ HEN-KW-DRYC – used when neutral is
(855) 287-7626			present
http://www.cooperindustries.com/			Each fuse holder will allow 2 conductors per
content/public/en/bussmann/electri			pole for a total of 4 conductors per unit. Each
<u>cal.html</u>			connection rated for 16 AWG up to 2 AWG.
			These breakaway connectors are to be used for
			both breakaway and non-breakaway poles where
			a fuse holder is called for. Installing contractor to
			supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID sheets
			are in plan set.
Littelfuse Inc.	Littelfuse	♦ Double-pole	◆ 0LEXYYCSX – used when no neutral is
			required
800 E. Northwest Highway			
Des Plaines, IL 60016-3096		♦ Double-pole	◆ LEXT0YYSX – used when neutral is present
(847) 824-1188			
			Each fuse holder will allow 2 conductors per
http://www.littelfuse.com			pole for a total of 4 conductors per unit. Each
			connection rated for 16 AWG up to 2 AWG.
	•		These breakaway connectors are to be used for
	A (0)		both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to
			supply 10-ampere time delay fuse. To be used
		•	when TxDOT Standards RIP and RID are in
			the plan set.
Mersen USA	Ferraz	♦ Double-pole	◆ FEX-91-91-BA – used when no neutral is
	Shawmut		required
374 Merrimac Street			
Newburyport, MA 01950		◆ Double-pole	◆ FEXN-91-91-BA – used when neutral is
(978) 462-6662			present
http://www.ferrazshawmut.com			Each fuse holder will allow 2 conductors per
mtp.// www.ioitazsiiawiiiat.com			pole for a total of 4 conductors per unit. Each
Ferraz Shawmut is Now Mersen.			connection rated for 16 AWG up to 2 AWG.
Parent Company name change			These breakaway connectors are to be used for
only. Brand of connector is still			both breakaway and non-breakaway poles where
Ferraz Shawmut.			a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used
			when TxDOT Standards RIP and RID are in
			the plan set.

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]	Breakaway Fuse-holders	
Manufacturer	Brand	Туре	Model
Ideal Industries, Inc.	Ideal-Buchanan SLK	♦ Double-pole	◆ 30-S2222D – used when no neutral is required
1 Becker Place Sycamore, IL 60178 (800) 435-0705 http://www.idealindustries.com/		◆ Double-pole	◆ 30-S2222P – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in
			the plan set.

Item 621 – Tray Cable

General

The following products are pre-qualified for use on projects where Tray Cable is furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Manufacturer	Brand	Type	Model
American Insulated Wire Co. Bought out by Southwire Corp.	American	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 500 kcmil American will continue to be pre-qualified until stock is depleted.
Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 750 kcmil
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 500 kcmil

Manufacturer	Brand	IW Conductors with Overal Type	Model
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579	Advanced Digital	◆ Tray Cable – Power Cable – XLP XHHW Insulation, PVC Jacket, Copper Conductors	◆ Available in 12 AWG -3 and 4 conductor
http://www.advanceddigitalcable.com			
	•	10	
	S		

Item 622 – Duct Cable

General

The following products are pre-qualified for use on projects where Duct Cable is furnished or installed as required by the item descriptive code. Where connectors are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed.

	Duct Cabl	le with Type XHHW Condu	ictors
Manufacturer	Brand	Type	Model
Dura·line 11400 Parkside Dr. Suite 300 Knoxville, TN. 37934 (865) 218-3460 (800) 847-7661 http://www.duraline.com Formerly A-D Technologies Name change on MPL Jan. 2014	Dura·line	◆ Duct Cable – HDPE with XHHW Conductors Installed	 ♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved"
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond	Duct Cable – HDPE with XHHW Conductors Installed	 ◆ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved"
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (800) 233-3190 http://www.drakausa.com	Draka	◆ Duct Cable – HDPE with XHHW Conductors Installed	 ◆ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved"

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7.5		le with Type XHHW Condu	
Manufacturer	Brand	Type	Model
One Southwire Drive Carrolton, GA 30119	SIMpull	◆ Duct Cable – HDPE with XHHW Conductors Installed	◆ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering.
(770) 832-4242			Printing on Outside Wall of Duct as Per DMS 11060
http://www.southwire.com/			Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved"
	•	70	
	40%		

Item 624 – Ground Boxes

General

The following products are pre-qualified for use on projects where Ground Boxes are furnished or installed as required by descriptive code. Products are subject to testing. No substitutions will be allowed for Types A through E as listed below. For types not listed below, applicable TxDOT standards and specifications will apply.

		Boxes – Precast Polymer Co	
Manufacturer	Brand	Type	Model
Hubbell	Hubbell	◆ A	◆ PG1324B512 / PG1324H506
	Quazite	♦ B	◆ 2PG1324B512 / PG1324H506
3621 Industrial Park Drive		♦ C	◆ PG1730B512 / PG1730H507
Lenoir City, TN. 37771		◆ D	◆ PG1730B517 / PG1730H507
(800) 346-3062		◆ E	◆ PG1324B514 / PG1324H506
http://www.quazite.com		Cover For Type A, B & E	 PG1324H5064A (Danger High Voltage FTM) PG1324H5064B (Danger High Voltage Irrigation) PG1324H5064D(Danger High Voltage Illumination) PG1324H5064E (Danger High Voltage Traffic Signal) PG1324H5064G (Danger High Voltage Sign Lighting) PG1324H506H7 (Danger High Voltage)
	KO,		 PG1730H5074A (Danger High Voltage FTM) PG1730H5074B (Danger High Voltage Irrigation) PG1730H5074D (Danger High Voltage
		Cover For Type C & D	FG1/30H30/4D (Danger High Voltage Illumination)
			◆ PG1730H5074E (Danger High Voltage Traffic Signal)
			◆ PG1730H5074G (Danger High Voltage Sign Lighting)
			◆ PG1730H507H7 (Danger High Voltage)

Manufacturer	Brand	Type	Model
Armoreast Products Company	Armor cast	♦ A	◆ A6001946TAPCX12
		♦ B	◆ A6001946TAPCX24
3230 Saticoy St.		♦ C	◆ A6001640TAPCX12
North Hollywood, CA. 91605		♦ D	◆ A6001640TAPCX22
818) 982-3600		◆ E	♦ A6001946TAPCX18
http://www.armorcastprod.com/			
		Cover For All Boxes	◆ All Covers Read "Danger High Voltage." Additional Logos Added Per Job Spec.

Ground Boxes - Precast Polymer Concrete				
Manufacturer	Brand	Туре	Model	
NewBasis	NewBasis	♦ A	◆ PCB132412G482	
		♦ B	◆ (2) PCB132412G482	
2626 Kansas Avenue				
Riverside, CA. 92507		♦ C	◆ PCB173012G482	
(909) 787-0600		♦ D	◆ PCB173022G482	
Toll Free (866) 392-2747		◆ E	◆ PCB132418G482	
http://www.newbasis.com/				
			◆ PCC1324DLA528- DANGER HIGH	
			VOLTAGE/TRAFFIC SIGNALS	
			◆ PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION	
		Cover For Type A, B & E	◆ PCC1324DMA528- DANGER HIGH	
			VOLTAGE/TRAFFIC MANAGEMENT	
			◆ PCC1324DSA528- DANGER HIGH	
			VOLTAGE/SIGN ILLUMINATION	
			◆ PCC1730DLA528- DANGER HIGH	
			VOLTAGE/TRAFFIC SIGNALS	
		Cover For Type C & D	◆ PCC1730DCA528- DANGER HIGH	
	•	00/01/01/01/01/01	VOLTAGE/ILLUMINATION	
			◆ PCC1730DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT	
			◆ PCC1730DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION	
		•		

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Manufacturer	Ground : Brand	Boxes – Precast Polymer Con	ncrete Model
		Type	
Synertech Moulded Products	Synertech	◆ A	◆ S132412HH90
2 Inverness St.		◆ B	◆ \$132424HH90
		◆ C	◆ \$173012HH90
Candiac, Quebec Canada J5R 4WS		◆ D	◆ S173024HH90
Toll Free (888) 868-5214		♦ E	◆ S132418HH90
http://www.synertechproducts.com		Cover For Type A, B & E	 \$1324HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNAL \$1324HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION \$1324HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT \$1324HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	◆ S1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ S1730HBB0A91- DANGER HIGH
	♦		VOLTAGE/ILLUMINATION ◆ S1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT
	V		◆ S1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		·	

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Manufacturer	Brand	Boxes - Precast Polymer Cor Type	Model
Oldcastle Enclosure Solutions	Oldcastle	→ A	◆ 13242030
Oldeastic Eliciosaic Solutions	Olucastic	→ A → B	◆ 13242032
2434 Rubidoux Blvd.		▼ В	13242032
Riverside, CA. 92509		♦ C	◆ 17302061
(800) 735-5566		♦ D	◆ 17302061 ◆ 17302063
(713) 875-8030		◆ E	◆ 13242031
		▼ E	▼ 13242031
http://www.oldcastleprecast.com/			
enclosuresolutions			◆ 13244159- DANGER HIGH
			VOLTA GE/TRAFFIC SIGNALS
			◆ 13244156- DANGER HIGH
		Cover For Type A, B & E	VOLTAGE/ILLUMINATION
			◆ 13244158- DANGER HIGH
Carson Industries, LLC.			VOLTAGE/TRAFFIC MANAGEMENT
is now Oldcastle Enclosure Solutions 8-29-2013			→ 13244157- DANGER HIGH VOLTAGE
Model numbers are the same			
wioder numbers are the same			
		Y Z	
			◆ 17304185- DANGER HIGH
			VOLTAGE/TRAFFIC SIGNALS
		4 (/)	◆ 17304183- DANGER HIGH
		Cover For Type C & D	VOLTAGE/ILLUMINATION
	•		◆ 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT
			◆ 17304272- DANGER HIGH VOLTAGE
			▼ 17304272- DANGER HIGH VOLTAGE

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Ground Boxes - Precast Polymer Concrete				
Manufacturer	Brand	Туре	Model	
CDR Systems Corporation	cdr	♦ A	◆ SB14-1324-12-0287	
		♦ B	♦ SB14-1324-12-0287 -2 boxes stacked	
146 South Atlantic Ave.				
Ormond Beach, FL. 32176		♦ C	◆ SB14-1730-12-0494	
(386) 615-9510		♦ D	◆ SC14-1730-22-0499	
		◆ E	◆ SB14-1324-18-0288	
http://www.cdrsystems.com/				
		Cover For Type A, B & E	◆ SC12-1324-02	
		Cover For Type C & D	♦ SC12-1730-02	
		Cover For All Boxes	◆ All Covers Read "Danger High Voltage." Additional Logos Added Per Job Spec.	

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Ground Boxes - Precast Polymer Concrete				
Manufacturer	Brand	Type	Model	
Highline Products, Inc.	Highline	♦ A	◆ PHA132412HTD-XX	
		♦ B	◆ PHA132424HTD-XX	
131 Hartwell Ave.		♦ C	♦ PHA173012HTD-XX	
Lexington, MA. 02421		◆ D	◆ PHA173024HTD-XX	
(781) 328-3220		♦ E	♦ PHA132418HTD-XX	
http://www.highlineproducts.com				
		Cover Logo Information XX in each model will be replaced with: • 20 • 21 • 22 • 23 • 24 Ordering covers only, Contact Manufacturer	 DANGER HIGH VOLTAGE DANGER HIGH VOLTAGE/ ILLUMINATION DANGER HIGH VOLTAGE/ SIGN ILLUMINATION DANGER HIGH VOLTAGE/ TRAFFIC MANAGEMENT DANGER HIGH VOLTAGE/ TRAFFIC SIGNALS 	

Ground Boxes – Precast Polymer Concrete				
Manufacturer	Brand	Туре	Model	
Duravault	Duravault	◆ A	◆ PC132412STBTXD-XX (122311)	
		♦ B	◆ PC132422STBTXD-XX (122322)	
310 Weathers Dr.		♦ C	◆ PC173012STBTXD-XX (162911)	
Laredo, TX. 78045		♦ D	◆ PC173022STBTXD-XX (162922)	
(885) 250-3993		♦ E	◆ PC132418STBTXD-XX (122317)	
http://www.duravault.com				
		Cover Logo Information XX in each model will be replaced with :		
		Cover For Type A, B & E	 PCC1324BTXD-TS/ TRAFFIC SIGNAL PCC1324BTXD-IL/ ILLUMINATION PCC1324BTXD-TM/ TRAFFIC 	
		\ \ \ \ \ \	MANAGEMENT ◆ PCC1324BTXD-SI/ SIGN ILLUMINATION	
		Cover For Type C & D	◆ PCC1730BTXD-TS/ TRAFFIC SIGNAL	
			◆ PCC1730BTXD-IL/ ILLUMINATION	
			◆ PCC1730BTXD-TM/ TRAFFIC MANAGEMENT	
			◆ PCC1730BTXD-SI/ SIGN ILLUMINATION	
	(0)	Cover For All Boxes	All Covers Read "DANGER HIGH VOLTAGE"	

Ground Boxes - Precast Polymer Concrete			
Manufacturer	Brand	Туре	Model
Martin Enterprises	Martin	♦ A	◆ 1324/12 PC Type A Tier 15 Rated
		♦ B	◆ 1324/24 PC Type B Tier 15 Rated
19940 Hansen Avenue		♦ C	◆ 1730/18 PC Type C Tier 15 Rated
Nuevo, CA 92567		♦ D	◆ 1730/24 PC Type D Tier 15 Rated
(951) 928-8413		♦ E	◆ 1324/18 PC Type E Tier 15 Rated
http://www.martinfrp.com			
		Cover For Type A, B & E	◆ 1324 Cover Traffic Signal / DANGER - HIGH VOLTAGE/TRAFFIC SIGNALS
			◆ 1324 Cover Illumination / DANGER - HIGH VOLTAGE/ILLUMINATION
			◆ 1324 Cover Traffic Management / DANGER - HIGH VOLTAGE/TRAFFIC MANAGEMENT
		Cover For Type C & D	• 1730 Cover Traffic Signal / DANGER - HIGH VOLTAGE/TRAFFIC SIGNALS
		' ' '	1730 Cover Illumination / DANGER - HIGH VOLTAGE/ILLUMINATION
		10	◆ 1730 Cover Traffic Management / DANGER - HIGH VOLTAGE/TRAFFIC MANAGEMENT

Item 628 – Electrical Services

General

The following products have been tested and are pre-qualified for use on projects where Electrical Services are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Electrical Service				
Manufacturer	Brand	Type	Model	
Electrol Systems 10623 Sentinel Drive	Electrol	◆ A◆ C	◆ ELECTROL TYPE A-TXDOT◆ ELECTROL TYPE C-TXDOT	
San Antonio, TX 78217 (210) 599-6485 (888) 853-8944		◆ C- Auxiliary Only	 ELECTROL TYPE C- Auxiliary Only – TXDOT ELECTROL TYPE D-TXDOT 	
http://www.electrolsystems.com/		• D	◆ ELECTROL TYPE D-TADOT ◆ ELECTROL TYPE T- Auxiliary Only -	
	•	◆ T- Auxiliary Only◆ T-All in One	▼ ELECTROL TYPE 1- Auxiliary Only - TXDOT ◆ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT	
	X	◆ A-Pedestal	◆ ELECTROL TYPE A-PEDESTAL-TXDOT	
	<u> </u>	♦ D-Pedestal	◆ ELECTROL TYPE D-PEDESTAL-TXDOT	
WE Manufacturing	WE	◆ A	◆ WE TYPE A-TXDOT	
5535 Harvey Wilson Drive Houston, TX 77020		♦ C	◆ WE TYPE C-TXDOT	
(713) 676-2298 (800) 880-9453		◆ C- Auxiliary Only	◆ WE TYPE C- Auxiliary Only –TXDOT	
http://www.wemanufacturing.com/		◆ D	♦ WE TYPE D-TXDOT	
		◆ T- Auxiliary Only	◆ WE TYPE T- Auxiliary Only –TXDOT	
		◆ T-All in One	◆ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT	
		◆ A – Pedestal	♦ WE TYPE A- PEDESTAL – TXDOT	
		◆ D-Pedestal	♦ WE TYPE D-PEDESTAL – TXDOT	

Electrical Service				
Manufacturer	Brand	Туре	Model	
Mica Corporation	Mica	♦ A	◆ MICA TYPE A-TXDOT	
P.O. Box 161609 Fort Worth , TX 77020		♦ C	◆ MICA TYPE C-TXDOT	
(817) 847-6121 (817) 577-2088		◆ D	◆ MICA TYPE D-TXDOT	
		◆ T- Auxiliary Only	◆ MICA TYPE T- Auxiliary Only –TXDOT	
http://micacorporation.com		◆ T-All in One	◆ MICA TYPE T- ALL IN ONE ENCLOSURE -TXDOT	
Specialty Control Systems	SCS	• A	◆ SCS TYPE A-TXDOT	
629 SH 3		♦ D	◆ SCS TYPE D-TXDOT	
League City, TX 77573				
(281) 332-0999		◆ T-All in One	◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT	
http://www.specialtycontrol.com/	•	➤ D-Pedestal	◆ SCS TYPE D-PEDESTAL-TXDOT	
	(C)			

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Electrical Service				
Manufacturer	Brand	Type	Model	
Tesco Controls, Inc.	Tesco	♦ A-Pedestal	◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240)	
3434 52 nd Ave. Sacramento, CA 95823		◆ A-Pedestal	◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480)	
(916) 395-8800		◆ C-Pedestal	◆ TESCO TYPE C-PEDESTAL-TXDOT	
http://www.tescocontrols.com		◆ D-Pedestal	◆ TESCO TYPE D-PEDESTAL-TXDOT	
Myers Power Products, Inc.	Myers	◆ A-Pedestal	◆ MEUG16 TYPE A-PEDESTAL-TXDOT	
725 E. Harrison St. Corona , CA 92879		◆ D-Pedestal	◆ MEUG16 TYPE D-PEDESTAL-TXDOT	
(951) 520-1900 (866) 696-9377		• D	◆ MYERS TYPE D-TXDOT	
http://www.myerspowerproducts.com	3	A	◆ MYERS TYPE A-TXDOT	

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Electrical Service					
Manufacturer	Manufacturer Brand Type Model				
Associated Starters & Controls	ASC	♦ A	◆ ASC TYPE A-TXDOT		
310 Breesport, Ste. D San Antonio , TX 78216		♦ C	◆ ASC TYPE C-TXDOT		
(210) 798-1334 (888) 798-1334		◆ D	◆ ASC TYPE D-TXDOT		
(600) 770-1334		♦ T	◆ ASC TYPE T-TXDOT		
		◆ T-Auxiliary	◆ ASC TYPE T-AUX-TXDOT		
		♦ A - Pedestal	◆ ASC TYPE A PEDESTAL - TXDOT		
		◆ D - Pedestal	ASC TYPE D-PEDESTAL - TXDOT		
Milbank Manufacturing Co.	Milbank	◆ A - Pedestal	MB TYPE A-PEDESTAL –TXDOT (120/240)		
4801 Deramus		♦ A - Pedestal	◆ MB TYPE A-PEDESTAL –TXDOT		
Kansas City, MO 64120			(240/480)		
(816) 483-5314 (Main Switch Board)		♦ D - Pedestal	◆ MB TYPE D-PEDESTAL –TXDOT		
(660) 463-0800 (Commercial Pedestal)			(120/240)		
http://milbankmfg.com	Y				
	X				
	C)				

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Electrical Service				
Manufacturer	Brand	Type	Model	
Dynamic Automation & Controls	Dynamic Automation	• A	◆ TYPE A-POLE MOUNT	
10560 Sentinel San Antonio , TX 78217	& Controls	◆ A-Pedestal	◆ TYPE A-PEDESTAL	
(210) 267-2489 (855) 465-6099		♦ D	◆ TYPE D-POLE MOUNT	
http://dynamic-ac.com		◆ D-Pedestal	◆ TYPE D-PEDESTAL	
	•			
	S			

	Photoelectric Contr	ol - Photocell	
Manufacturer	Brand	Туре	Model
Tork 1 Grove Street Mt. Vernon, NY 10550	Tork	◆ 120-277 Volt Photocell	◆ S895 or ◆ NSI-TORK S895 *
(914) 664-5042 http://www.tork.com/			* Tork bought out by NSI
American Electric Lighting / DTL P.O. Box 3004 Newark, OH 43800 (800) 754-0463	DTL	• 120-277 Volt Photocell	◆ DUX124 -12A30
http://www.darktolight.com			
Tyco Electronics 8000 Purfoy Rd. Fuquay-Varina, NC 27526 (919)557-8459	Area Lighting Research Tyco	◆ 120-277 Volt Photocell	◆ ALR-SST-PV-IES-UL (3E7425-000)
http://www.tycoelectronics.com/			

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Item 685 – Roadside Flashing Beacon Assemblies

General

The following products are pre-qualified for use on projects where Roadside Flashing Beacon Assemblies are furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Breakaway Holders-Non-Fused				
Manufacturer	Brand	Type	Model	
Mersen USA	Ferraz Shawmut	◆ Single Pole	◆ FEB-81-81-BA when fused use slug	
374 Merrimac Street		♦ Single Pole	◆ FEBN-81-81-BA for neutral (non-fused)	
Newburyport, MA 01950		· ·		
(978) 462-6662		♦ Dummy Fuse (Slug)	◆ MNL30 - Slug	
http://ep-us.mersen.com/			These breakaway connectors are to be used	
Francisco d'Alla Managa			when required by TxDOT Standards RFBA	
Ferraz Shawmut is Now Mersen.		Y Z	and SPRFBA. Installing contractor to supply	
Parent Company name change only. Brand of connector is still			dummy fuse-(slug).	
Ferraz Shawmut.				
		10		
Littelfuse Inc.	Littelfuse	♦ Single Pole	◆ LEB-JJ-S-WPB1 when fused use slug	
800 E. Northwest Highway		Single Pole	◆ LET-JJ-S-WPB1 for neutral (non-fused)	
Des Plaines, IL 60016-3096		•		
(847) 824-1188	sO'	◆ Dummy Fuse (Slug)	◆ Not available at this time	
http://www.littelfuse.com			These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA . Installing contractor to supply dummy fuse-(slug).	
Eaton –Bussmann Series	Bussmann	◆ Single Pole	♦ HEB-JW-RLC-J when fused use slug	
114 Old State Road		♦ Single Pole	◆ HET-JW-RLC-J for neutral (non-fused)	
Ellisville, MO 63021		<u>-</u>	, ,	
(855) 287-7626		◆ Dummy Fuse (Slug)	♦ NNB - Slug	
http://www.cooperindustries.com/content/public/en/bussmann/electrical.html			These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA . Installing contractor to supply dummy fuse-(slug).	

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Breakaway Holders-Non-Fused				
Manufacturer	Brand	Туре	Model	
Ideal Industries, Inc.	Ideal – Buchanan	◆ Single Pole	◆ 30-S1212 when fused use slug	
1375 Park Avenue Sycamore, IL 60178	SLK	◆ Single Pole	• 30-S1212N for neutral (non-fused)	
(800) 435-0705		◆ Dummy Fuse (Slug)	◆ Not available at this time	
http://www.idealindustries.com			These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA . Installing contractor to supply dummy fuse-(slug).	
		(8)		

Item 687 – Pedestal Pole Assemblies

General

The following products are pre-qualified for use on projects where Pedestal Pole Bases are furnished or installed as required by the item descriptive code. Where Pedestal Poles are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Pedestal Pole Base					
Manufacturer	Brand	Туре	Model		
Akron Foundry Company	Akron	◆ Pedestal Pole Base	◆ TS-1000		
2728 Wingate Ave.		◆ Pedestal Pole Base with	◆ TS-1000-L		
Akron, OH 44314		Extended Neck			
(330) 745-3101					
http://www.akronfoundry.com		` \			
Pelco Products, Inc.	Pelco	◆ Pedestal Pole Base	◆ SP-1014 -TX		
320 W. 18th Street					
Edmond, OK 73013	•				
(405) 340-3434	10				
http://www.pelcoinc.com					
Component Products, Inc.	СРІ	◆ Pedestal Pole Base	◆ CPI-BAS-1P (TXDOT)		
521 Morse Avenue		◆ Pedestal Pole Base with	◆ CPI-BAS-1-PX (TXDOT)		
Schaumburg, IL 60193		Extended Neck			
(800) 807-6537					
(847) 301-1000					
http://www.componentproducts.com					

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For more information about these materials, contact the Traffic Operations Division, Engineering Operations Branch at (512) 416-3232.

Notice:

All submittal and corresponding documentation becomes public information.

All manufacturers' products that are listed within this document are pre-qualified. Manufacturer name change does not change the pre-qualified status of the original material. TxDOT reserves the right to remove any manufacturer or product from this list, at any time. Manufacturers interested in being added to the pre-qualified list should contact Traffic Operations Division.

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Item 610 – Roadway Illumination Assemblies

General

Roadway Illumination Poles do not need to be pre-qualified when TxDOT RIP (Roadway Illumination Pole) standard sheets are included in the plan set.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of Item 610 and applicable Special Provisions to Item 610.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP (Roadway Illumination Pole). Poles fabricated according to RIP standard sheets require no shop drawings.

Alternate designs to RIP or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on the requirements and procedures of shop drawings go to: http://www.txdot.gov/business/resources/specifications/shop-drawings.html
Click on "Requirements and Procedures for Optional and Non-Standard Illumination Pole Designs and Shop Drawings."

Limitations on Use of the RIP-11 Standard

The Roadway Illumination Pole (RIP-11) standard details were developed for installations in locations where the 3-second gust basic maximum wind speed is 110 mph, and where the elevation of the base of the pole is less than (i.e. not more than) 25' above the elevation of surrounding terrain, in accordance with the "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals," 4th Edition (2001) (AASHTO Design Specifications). For poles to be installed in regions where the maximum basic wind speed exceeds 110 mph or to be mounted more than 25' above the surrounding terrain, the contractor shall provide poles meeting the following requirements:

- A. **Submittals.** Following the electronic shop drawing submittal process (see ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e_submit_guide.pdf), the contractor shall submit to the Engineer, for approval, fabrication drawings and calculations for the poles. The drawings and calculations shall be sealed by a Texas registered or licensed professional engineer (P.E.).
- B. Luminaire Structural Support Requirements. Lighting poles, arms, and anchor bolt assemblies shall have a 25-year design life to safely resist dead loads, ice loads and the required basic wind speeds at the location of installation in accordance with the current edition of the AASHTO Design Specifications. For transformer base poles, the fabricator shall include transformer base and connecting hardware in calculations and shop drawing submittals. All transformer bases shall have been structurally tested to resist the theoretical plastic moment capacity of the pole. Certification of the plastic moment load test and FHWA breakaway requirement test of the model of base being furnished shall be submitted with the shop drawings. Shop drawings shall show breakaway base model number, and manufacturer's name and logo. Manufacturer's shop drawings shall include the ASTM designations for all materials to be used.

Item 610 – Roadway Illumination Assemblies

General

The following products are pre-qualified for use on the projects where roadway illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Roadway Illumination Assemblies – Underpass Fixture				
Manufacturer	Brand	Туре	Model	
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	◆ Induction Fluorescent Underpass Fixture	♦ UDP-165-QL-GR	
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	 Induction Fluorescent Underpass Fixture − Steel Housing Induction Fluorescent Underpass Fixture − Aluminum Housing Box Beam Bracket to Mount Fixture Bridge Deck Bracket to Mount Fixture U-Beam Bracket 	 ◆ TS2020-3/3-1-150IND-277V-R-SSPH-TEXAS ◆ TS2020-*/*-150IND-*Volt-8-SSPH-TDOT-ALUMINUM ◆ Ask for BB Bracket When Required – Sold Separately ◆ Ask for BD Bracket When Required – Sold Separately ◆ Ask for UB Bracket When Required – Sold Separately 	
ESCO Lighting 3254 N. Kilborn Ave. Chicago, IL 60641 (773) 427-7000 http://www.escolighting.com	ESCO	◆ Induction Fluorescent Underpass Fixture	◆ SP2343	

	Roadway Illumination Ass	emblies – Underpass Fixture	
Manufacturer	Brand	Type	Model
H.E. Williams 831 W. Fairview Ave.	Infinity	◆ Induction Fluorescent Underpass Fixture	
P.O. Box 837		♦ BB Box Beam	◆ ICERL1-150S-41K-
Carthage, MO 64836		. 22 20.1 20.11.1	BAT/CG1-GRA-UNV
(417) 358-4065		◆ BD Bridge Deck	◆ ICERL3-150S-41K- BAT/CG1-GRA-UNV
http://www.hew.com		◆ UB U-Beam	◆ ICERL5-150S-41K- BAT/CG1-14DEG-UNV
		001	
Eaton (formerly Cooper)	Fail-Safe	◆ Induction Fluorescent Underpass Fixture	◆ TF28-150ICE-UNV- A1432
1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800		2 Characteristics	
http://www.cooperindustries.com/ content/public/en/lighting/brands/ streetworks.html			
	10		

	Roadway Illumination	Assemblies – Luminaire	
Manufacturer	Brand	Туре	Model
Eaton (formerly Cooper) 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperindustries.com/content/public/en/lighting/brands/streetworks.html	Streetworks	 ◆ 150W HPS- 240/480 Volt ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	 ◆ OVW15SMJ3DD0004 ◆ OVW25SMG2DD0001 ◆ OVW25SMJ2DD0002 ◆ OVW40SMG2DD0005 ◆ OVW40SMJ2DD0003
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingsystems.com	M4RC	 150W HPS- 240/480 Volt 250W HPS- 120/240 Volt 250W HPS- 240/480 Volt 400W HPS- 120/240 Volt 400W HPS- 240/480 Volt 	 M4RC15S9M4GMC3312 or GE Manufacture #180055 M4RC25S7M4GSC2311 or GE Manufacture #168025 M4RC25S9M4GSC2311 or GE Manufacture #168023 M4RC40S7M4GSC3311 or GE Manufacture #157785 M4RC40S9M4GSC3311 or GE Manufacture #158165
Holophane 3825 Columbus Road SW Granville, OH 43023 (740) 587-4030 FAX (866) 761-9819 http://www.holophane.com	Mongoose	 250W HPS- 120 Volt 250W HPS- 240 Volt 250W HPS- 480 Volt 400W HPS- 120Volt 400W HPS- 240Volt 400W HPS- 480 Volt 	 ◆ G25RHP12LNRHGBR-TXDOT ◆ G25RHP24LNRHGBR-TXDOT ◆ G25RHP48LNRHGBR-TXDOT ◆ G40RHP12LNRHGBR-TXDOT ◆ G40RHP24LNRHGBR-TXDOT ◆ G40RHP48LNRHGBR-TXDOT

	Roadway Illumination A	ssemblies – LED Luminaire	
Manufacturer	Brand	Туре	Model
TraStar 860 N. Dorothy Drive #600 Richardson, TX 75081 (972) 480-0888 http://www.trastarusa.com	Brand Duralight	Type • 250W EQ LED (120W)- 120/240 Volt; LLF=0.86 • 250W EQ LED (120W)- 480 Volt; LLF=0.86 • 400W EQ LED (185W)- 120/240 Volt; LLF=0.86 • 150W EQ LED (70W)- 120/240 Volt; LLF=0.86 • 150W EQ LED (70W)- 480 Volt; LLF=0.86 • 250W EQ LED (135W)- 120/240 Volt; LLF=0.86 • 250W EQ LED (135W)- 480 Volt; LLF=0.86 • 400W EQ LED (205W)- (120/240 Volt; LLF=0.86 • 400W EQ LED (205W)- 480 Volt; LLF=0.86	Model ◆ DURA-ST25-4K-120-2-GR-SCLB ◆ DURA-ST40-4K-120-2-GR-SCLB ◆ DURA-ST40-4K-120-2-GR-SCLB ◆ DURA-ST40-4K-480-2-GR-SCLB ◆ JXM-ST140-3-40K-120-3-GR-SCLBTX ◆ JXM-ST180-3-40K-120-2-GR-SCLBTX ◆ JXM-ST180-3-40K-480-2-GR-SCLBTX ◆ JXM-ST180-4-40K-480-2-GR-SCLBTX ◆ JXM-ST180-4-40K-120-2-GR-SCLBTX ◆ JXM-ST180-4-40K-480-2-GR-SCLBTX

Roadway Illumination	Assemblies – Luminaire	
Brand	Туре	Model
Streetworks	◆ 150W EQ LED (72W)-	◆ VERD-A028-D-U-T3-4N7- 20K-AP-TXDOT-D0077
	◆ 150W EQ LED (72W)-480	◆ VERD-A028-D-8-T3-4N7- 20K-AP-TXDOT-D0078
	◆ 250W EQ LED (143W)-	◆ VERD-G-A02-D-U-T2-4N7-
	◆ 250W EQ LED (154W)-480	20K-AP-TXDOT-D0027 ◆ VERD-G-A02-D-8-T2-4N7-
	VOLT LLF=0.816 ◆ 400W EQ LED (180W)-	20K-AP-TXDOT-D0028 ◆ VERD-M-A03-D-U-T2-4N7-
	120/240 Volt; LLF=0.81	20K-AP-TXDOT-D0004 ◆ VERD-M-A03-D-8-T2-4N7-
	480 Volt; LLF=0.81	20K-AP-TXDOT-D0005
	Volt; LLF=0.86	◆ XNV2-AC-02-D-U-3-525- 4N7-AP-TXDOT-D0030
	◆ 150W EQ LED- 480 Volt; LLF=0.86	◆ XNV2-AC-02-D-8-3-525- 4N7-AP-TXDOT-D0031
	◆ 250W EQ LED- 120/240 Volt; LLF=0.86	◆ XNV2-AC-02-D-U-2-4N7- AP-TXDOT-D0028
	◆ 250W EQ LED- 480 Volt; LLF=0.86	◆ XNV2-AC-02-D-8-2-4N7- AP-TXDOT-D0029
	400W EQ LED- 120/240	◆ NVN-AE-03-D-U-T2R-4N7-
	◆ 400W EQ LED- 480 Volt;	AP-TXDOT-D0102 ◆ NVN-AE-03-D-8-T2R-4N7-
1	◆ 400W EQ LED- 120/240	AP-TXDOT-D0103 ◆ NVN-AF-03-D-U-T2R-4N7-
	Volt; LLF=0.85 ◆ 400W EQ LED- 480 Volt;	AP-TXDOT-D0225 ◆ NVN-AF-03-D-8-T2R-4N7-
	LLF=0.85	AP-TXDOT-D00226
	Brand	Streetworks

	Roadway Illumination Ass	semblies – LED Luminaire	
Manufacturer	Brand	Туре	Model
GreenStar	GreenStar	◆ 150W EQ LED (100W)- 120/240 Volt; LLF=0.74	◆ XAVX08431SNXXI
6900 Alamo Downs Pkwy Suite 120		◆ 150W EQ LED (100W)- 480 Volt; LLF=0.74	◆ XAVH08434SNXXI
San Antonio, TX 78238		◆ 250W EQ LED (170W)- 120/240 Volt; LLF=0.74	◆ XAVX12431SNXXI; old part # AV12431SN
http://greenstarled.com/		◆ 250W EQ LED (170W)- 480 Volt; LLF=0.74	◆ XAVH12434SNXXI; old part # AV12434SN
		◆ 400W EQ LED (240W)- 120/240 Volt; LLF=0.74	♦ XAVX20431SNXXI
		◆ 400W EQ LED (240W)- 480 Volt; LLF=0.74	◆ XAVH20434SNXXI
GE Lighting Solutions	Evolve	◆ 150W EQ LED (78W)- 120V; LLF=0.80	• ERS11B3D17404GRAY12
3010 Spartanburg Hwy East Flat Rock, NC 28726		◆ 150W EQ LED (78W)- 240V; LLF=0.80	• ERS13B3D17404GRAY12 0
http://www.gelightingsystems.com		◆ 150W EQ LED (78W)- 480V; LLF=0.80	◆ ERS15B3D17404GRAY08 1
integral www.goriginings/stems.com		◆ 250W EQ LED (130W)- 240V; LLF=0.79	• ERS20E3E17404GRAY08
		◆ 250W EQ LED (130W)- 480V; LLF=0.79	• ERS2HE3E17404GRAY13 4
		◆ 400W EQ LED (285W)- 240V; LLF=0.70	• ERS20H3E11404GRAY13 5
		◆ 400W EQ LED (285W)- 480V; LLF=0.70	• ERS2HH3E11404GRAY13 6
Philips Philips Lighting 200 Franklin Square Drive	Laumec	◆ 250W EQ LED (120W)- 120/240V; LLF=0.833	◆ [RFM-004]- 108W48LED4K-T-R2M- [UNIV-009]-DMG-ML- RCD-SP2-GY3
Somerset, NJ 08873 http://www.lightingproducts.philips.com/		◆ 250W EQ LED (120W)- 480V; LLF=0.833	◆ [RFM-004]- 108W48LED4K-T-R2M- [HVU-002]-DMG-ML- RCD-SP2-GY3
		◆ 400W EQ LED (200W)- 120/240V; LLF=0.833	◆ [RFL-006] 180W80LED4K-T-R2M- [UNIV-009]-DMG-ML- RCD-SP2-GY3
		◆ 400W EQ LED (200W)- 480V; LLF=0.833	◆ [RFL-006]- 180W80LED4K-T-R2M- [HVU-002]-DMG-ML- RCD-SP2-GY3

	Roadway Illumination As	ssemblies – LED Luminaire	
Manufacturer	Brand	Туре	Model
Acuity Acuity Brands Lighting, Inc.	American Electric	◆ 150W EQ LED (70W)- 120/240V; LLF=0.742	◆ ATB0 20BLEDE10 MVOLT R3 20 BL NL SH F2 RFD22058
3825 Columbus Rd. Granville, OH 43023		◆ 150W EQ LED (70W)- 480V; LLF=0.742	◆ ATB0 20BLEDE10 480 R3 20 BL NL SH F2 RFD209795
http://www.acuitybrands.com		◆ 250W EQ LED (126W)- 120/240V; LLF=0.815	◆ ATB0 30BLEDE13 MVOLT R2 20 BL NL SH RFD244668
		◆ 250W EQ LED (126W)- 480V; LLF=0.815	◆ ATB0 30BLEDE13 480 R2 20 BL NL SH RFD244669
		◆ 250W EQ LED (150W)- 120/240V; LLF=0.815	◆ ATB0 30BLED15 MVOLT R2 20 BL NL SH RFD209796
		◆ 250W EQ LED (150W)- 480V; LLF=0.815	◆ ATB0 30BLED15 480 R2 20 BL NL SH RFD220059
	,(400W EQ LED (209W)- 120/240V; LLF=0.877	◆ ATBL D MVOLT R2 4B 20 NL SH RFD209798
		400W EQ LED (209W)- 480V; LLF=0.877	◆ ATBL D 480 R2 4B 20 NL SH RFD220060
Y			

High Pressure Sodium Lamps				
Manufacturer	Brand	Туре	Model	
Osram Sylvania	Sylvania - Lumalux Plus®/ECO	◆ 400 Watt Lamp	◆ 67312 - LU400/PLUS/ECO	
100 Endicott Street Danvers, MA 24210		◆ 250 Watt Lamp	◆ 67572 - LU250/PLUS/ECO	
(978) 777-1900 For Lamps (800) 544-4828		◆ 150 Watt Lamp	◆ 67494 -LU150/55/PLUS/ ECO	
http://www.sylvania.com/				
Philips Lighting Company	Philips - Ceramalux®/ALTO®	♦ 400 Watt Lamp	◆ 14743-9 – C400S51/ALTO NC HPS	
200 Franklin Square Dr. P.O. Box 6800	Non-Cycling Lamp	◆ 250 Watt Lamp	◆ 14742-1 – C250S50/ALTO NC HPS	
Somerset, NJ 08875 (800) 555-0050		◆ 150 Watt Lamp	◆ 14741-3 – C150S55/ALTO NC HPS	
http://www.lighting.philips.com		3		
GE Lighting	GE – EcoluxNC TM	◆ 400 Watt Lamp	◆ 14675 – LU400/ECO/NC	
Nela Park, 1975 Noble Rd. Cleveland, OH 44112		◆ 250 Watt Lamp	◆ 14674 – LU250/ECO/NC	
(216) 266-2121	3°	♦ 150 Watt Lamp	◆ 40390 – LU150/55/ECO/ NC	
http://www.gelighting.com				

	Photoelectric Co	ontrol - Photocell	
Manufacturer	Brand	Туре	Model
Tork 1 Grove Street Mt. Vernon, NY 10550	Tork	♦ 120-277 Volt Photocell	 ◆ S895 ◆ NSI-TORK S895 *
(914) 664-5042 http://www.tork.com/			* Tork has recently been bought out by NSI
American Electric Lighting / DTL	DTL	◆ 120-277 Volt Photocell	◆ DUX124 -12A30
P.O. Box 3004			
Newark, OH 43800			
(800) 754-0463			
http://www.darktolight.com		3	
Tyco Electronics 8000 Purfoy Rd. Fuquay-Varina, NC 27526 (919) 557-8459	Area Lighting Research Tyco	◆ 120-277 Volt Photocell	◆ ALR-SST-PV-IES-UL (3E7425-000)
http://www.tycoelectronics.com/			

Т		Breakaway Fuse-holders	
Manufacturer	Brand	Туре	Model
Eaton –Bussmann Series	Bussmann	◆ Double-pole	◆ HEX-KW-DRYC – used when no neutral is required
114 Old State Road Ellisville, MO			A HEN WW DDVC
63021 (855) 287-		♦ Double-pole	◆ HEN-KW-DRYC – used when neutral is
7626			present
http://www.cooperindustries.com/ content/public/en/bussmann/electri			Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.
<u>cal.html</u>			These breakaway connectors are to be used for
			both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to
			supply 10-ampere time delay fuse. To be used
			when TxDOT Standards RIP and RID are in
			the plan set.
Littelfuse Inc.	Littelfuse	◆ Double-pole	OLEXYYCSX – used when no neutral is required
800 E. Northwest Highway			
Des Plaines, IL 60016-3096		◆ Double-pole	LEXT0YYSX – used when neutral is present
(847) 824-1188			Early and the Heller 2 and down and
http://www.littelfuse.com			Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.
			These breakaway connectors are to be used for
	•		both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to
			supply 10-ampere time delay fuse. To be used
			when TxDOT Standards RIP and RID are in
		•	the plan set.
Mersen USA	Ferraz Shawmut	♦ Double-pole	◆ FEX-91-91-BA – used when no neutral is required
374 Merrimac Street			
Newburyport, MA 01950	·	♦ Double-pole	◆ FEXN-91-91-BA – used when neutral is
(978) 462-6662		•	present
http://www.ferrazshawmut.com			Each fuse holder will allow 2 conductors per pole
A CONTRACTOR OF THE CONTRACTOR			for a total of 4 conductors per unit. Each
Ferraz Shawmut is Now Mersen.			connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for
Parent Company name change			both breakaway and non-breakaway poles where
only. Brand of connector is still			a fuse holder is called for. Installing contractor to
Ferraz Shawmut.			supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in
			when IXDO I Standards KIP and KID are in

		Breakaway Fuse-holders	
Manufacturer	Brand	Type	Model
Ideal Industries, Inc.	Ideal-Buchanan SLK	♦ Double-pole	◆ 30-S2222D – used when no neutral is required
1 Becker Place Sycamore, IL 60178 (800) 435-0705 http://www.idealindustries.com/		♦ Double-pole	◆ 30-S2222P – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for
			both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.

Орпопа Manufacturer	Brand	ination Pole Designs and Shop Draw Type	mgs Model
Hapco 26252 Hillman Highway Abingdon, VA 24210 800) 368-7171 http://www.hapco.com/	Нарсо	◆ 40 FtAluminum - T-Base mounted with (1) 8Ft. Arm Only	◆ Based on Drawing # B15138 and B15136
tp://www.mapeo.com/			

Manufacturer	Brand	ransformer Base Type	Model
Akron Foundry Co. 2728 Wingate Ave. Akron, OH 44314 (330) 745-3101 http://www.akronfoundry.com	Akron	 ◆ Breakaway Transformer Base for Luminaire Poles Less Than 40 Foot Height ◆ Breakaway Transformer Base for Luminaire Poles 40 to 50 Foot Height 	◆ TB1-17◆ TB3-17

Item 613 – High Mast Illumination Poles

General

There are no pre-qualified High Mast Illumination Poles.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of item 613. Provide components that fit together properly.

- (a) **Standard Design.** Fabricate poles in accordance with this Item and the plans. Alternate designs are not permitted.
- **(b) Shop Drawings.** Do not submit shop drawings for high mast illumination poles fabricated in accordance with this Item and the plans.



Item 614 – High Mast Illumination Assemblies

General

The following products are pre-qualified for use on the projects where high mast illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

	Luminaire -	- High Mast	
Manufacturer	Brand	Туре	Model
Holophane 3825 Columbus Road SW Granville, OH 43023 (740) 587-6167 FAX (888) 300-5321 http://www.holophane.com	High Mast Cutoff-HMSC High Mast Cutoff-HMSC High Mast Dark Skies- HMSD	 High Mast – Type A High Mast – Type B High Mast – Type S 	 ◆ HMSC40RHP48B9- TXDOT 12 TYPE A ◆ HMSC40RHP48B9- TXDOT 12 TYPE B ◆ HMAO40RHP48S- TXDOT 12 TYPE S *Note model number for A & B changed from B7 to B9. No other changes noted.
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingsystems.com	G.E.	 High Mast – Type A High Mast – Type B High Mast – Type C High Mast – Type S 	 ◆ 159189 ◆ 159190 ◆ 159191 ◆ 159193
Eaton (formerly Cooper) 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperindustries.com/content/public/en/lighting/brands/streetworks.html	Streetworks	 High Mast – Type A High Mast – Type B High Mast – Type C High Mast – Type S 	 ◆ GMA40SM83DD0018 ◆ GMA40SM83DD0019 ◆ GMA40SM83DD0020 ◆ GMA40SM8ARD0017

Manufacturer	Brand	Sodium Lamps Type	Model
Osram Sylvania 100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828 http://www.sylvania.com/	Sylvania - Lumalux Plus®/ECO	◆ 400 Watt Lamp	◆ 67312 - LU400/PLUS/ECO
Philips Lighting Company 200 Franklin Square Dr. P.O. Box 6800 Somerset, NJ 08875 (800) 555-0050 http://www.lighting.philips.com	Philips - Ceramalux®/ALTO® Non-Cycling Lamp	◆ 400 Watt Lamp	◆ 14743-9 – C400S51/ALTO NC HPS
GE Lighting Nela Park, 1975 Noble Rd. Cleveland, OH 44112 (216) 266-2121 http://www.gelighting.com	GE - EcoluxNGTM	♦ 400 Watt Lamp	◆ 14675 – LU400/ECO/NC

Manufacturer	High N Brand	Mast Kit Type	Model
Mica Corporation	Mica Corporation	◆ High Mast – 125 Foot	◆ HMK-125-PH
5750 N. Riverside Dr. Fort Worth, TX 76137		♦ High Mast – 150 Foot	♦ HMK-150-PH
(817) 577-2088		♦ High Mast – 175 Foot	◆ HMK -175-PH
http://www.micacorporation.com			
Carolina High Mast, Inc.	Carolina High Mast, Inc.	◆ High Mast – 125 Foot	HMK-125-CHMI
700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046		♦ High Mast 150 Foot	→ HMK-150-CHMI
(002) 200 0040		◆ High Mast 175 Foot	◆ HMK -175-CHMI
Rexel	Rexel	High Mast – 125 Foot	◆ HMK-125-RX
2400 Brockton San Antonio, TX 78217	10	◆ High Mast – 150 Foot	◆ HMK-150-RX
(210) 352-1047		♦ High Mast – 175 Foot	◆ HMK -175-RX
http://www.rexelusa.com			

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High Mast Kit					
Manufacturer		Type			
Wildcat Electric Supply, Ltd.	Wildcat	♦ High Mast – 125 Foot	♦ HMK-125-WC		
2061 Clovis Barker Road #5.		♦ High Mast – 150 Foot	♦ HMK-150-WC		
San Marcos, TX 77666					
(512) 396-8900		♦ High Mast – 175 Foot	♦ HMK -175-WC		
(866) 301-5200					
http://www.wildcatelectric.com					
Stratus Products	Stratus Products	♦ High Mast – 100 Foot	◆ HMK-100-SSPI		
Division of	Status 110ddets	v High Mast 100 Loot	THIR TOO DOLL		
Structural & Steel Products, Inc		♦ High Mast – 125 Foot	♦ HMK-125-SSPI		
,		V High What 1231 oot			
1320 South University		♦ High Mast – 150 Foot	♦ HMK-150-SSPI		
Suite 701					
Fort Worth, TX 76107		♦ High Mast – 175 Foot	♦ HMK -175-SSPI		
(800) 782-5804		This is a second	1,0 821		
http://stratusprod.com		V			
Millerbernd Manufacturing Company	Millerbernd	♦ High Mast – 100 Foot	♦ MMC100KIT		
622 6 th Street South		◆ High Mast – 125 Foot	♦ MMC125KIT		
Winsted, MN 55395		V High Wast 123 1 oot	V MMC125KI1		
(320) 485-2111		♦ High Mast – 150 Foot	♦ MMC150KIT		
FAX (320) 485-2220		. 1115111111111111111111111111111111111			
		♦ High Mast – 175 Foot	♦ MMC175KIT		
http://www.millerberndmfg.com		. 11151 170 1001			
•					

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	High Mast Ring- Previously	y Approved Shop Drawings	
Manufacturer		Туре	
J.W. Hall Enterprises, Inc.		♦ High Mast Ring	
17731 Elizabeth Rd.		Drawing # HM 2002-01	
Algoa, TX 77511		Sheets 1 through 6	
(281) 337-6311		Drawing # HE 2002	
http://www.jwhall.com		Sheets 7 through 9	
Carolina High Mast, Inc.	·	◆ High Mast Ring	
700 East McLeroy Blvd. – Suite A		Drawing # TXDOT-01	
Saginaw, TX 76179		Sheets 1 through 5	*
(682) 286-0046		Drawing # TXDOT-02	
		Sheets 1 through 4	
		Drawing # TXDOT-03	
		Sheets 1 through 4	
		Drawing # TXDOT-04	
		Sheets 1 through 3	
Traffic Control Devices		◆ High Mast Ring	
4417 Main Street	• • \	Drawing # E-901	
Pearland, TX 77581		Sheets 1 through 10	
(281) 992-3030			
http://www.tcd.cc	(C),		

Manufacturer	Ring- Previously Approved Shop Drawings Type
Brookfield Fabricating Corp.	♦ High Mast Ring
Stanbury Industrial Dr.	Drawings Dated 4-8-96
Brookfield, MO 64628	Sheets 1 through 4 –
(660) 258-2214	Good Until 9-30-2011
	Drawings Approved
	8-29-2011
	Sheet 1 Dated 7-1-08
	Sheet 2 Dated 8-5-11
	Sheet 3 Dated 7-1-08
	Sheet 4 Dated 7-1-08
PKM Steel Service	♦ High Mast Ring
228 E. Avenue A	Sheet E1 Dated 8-2-05
P.O. Box 1066	Sheet 1 Dated 10-12-05
Salina, KS 67402-1066	Sheet 2 Dated 10-12-05
(785) 827-3638	Sheet 3 Dated 10-12-05
http://www.pkmsteel.com/	
⁴ C	
X .	

Item 618 - Conduit

General

The following products have been tested and are pre-qualified for use on projects where Conduit, Junction Boxes, Expansion Joints and Conduit Fittings are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

	Rigio	d Metallic Conduit – (RMC	
Manufacturer	Brand	Type	Model
Allied Tube & Conduit 16100 S. Lathrop Avenue Harvey, IL 60426-6021 (800) 882-5543	Allied	◆ Galvanized Rigid Metal Conduit (RMC)	Trade Sizes from 1/2" to 6"
http://www.alliedeg.us/	•	70	
Wheatland	Wheatland	Galvanized RigidMetal Conduit	◆ Trade Sizes from 1/2" to 6"
900 Haddon Avenue P.O. Box 600 Collingswood, NJ 08108-0600 (800) 257-8182	(C)	(RMC)	
http://www.wheatland.com/			
Republic Conduit	Republic	Galvanized Rigid Metal Conduit	◆ Trade Sizes from 1/2" to 6"
7301 Logistics Drive		(RMC)	
Louisville, KY 40258			
(800) 840-8823			
(502) 995-5900			
http://www.republicconduit.com			

	Rigio	d Metallic Conduit – (RMC	()
Manufacturer	Brand	Туре	Model
Western Tube & Conduit Corp. 2001 E. Dominguez St. Long Beach, CA 90801-2720 (310) 537-6300 (800) 310-8823 http://www.westerntube.com	Western Conduit	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"

Antex	Manufacturer	Brand	Type	Model
O. Box 340 [ineral Wells, TX 76068 40) 325-3344 00) 433-5623 tp://www.cantexinc.com/ Conduit	Cantex	Cantex		◆ Schedule 40 and 80
Ilied Tube & Conduit Allied Tube & Conduit Schedule 40 and 80 Trade Sizes from 1/2" to 6" Trade Sizes from 1/2" to 6" Schedule 40 and 80 Trade Sizes from 1/2" to 6" Trade Sizes from 1/2" to 6" Schedule 40 and 80 Trade Sizes from 1/2" to 6" Trade Sizes from 1/2" to 6" Schedule 40 and 80 Trade Sizes from 1/2" to 6" Trade Sizes from 1/2" to 6" Schedule 40 and 80 Trade Sizes from 1/2" to 6" Tr				◆ Trade Sizes from 1/2" to 6"
40) 325-3344 00) 433-5623 tp://www.cantexinc.com/ llied Tube & Conduit Allied Tube & Conduit 5100 S. Lathrop Avenue arvey, IL 60426-6021 tp://www.alliedeg.us/ rime Conduit Inc. Prime Conduit Pr	P.O. Box 340			
Allied Tube & Conduit Allied Tube & Conduit Schedule 40 and 80	Mineral Wells, TX 76068			
Ilied Tube & Conduit Allied Tube & Conduit Allied Tube & Conduit Fine Conduit Prime Conduit	(940) 325-3344			
Allied Tube & Conduit Allied Tube & Conduit Frade Sizes from 1/2" to 6" Trade Sizes from 1/2" to 6" Prime Conduit Inc. Prime Conduit Pr	(800) 433-5623			
Conduit Conduit Trade Sizes from 1/2" to 6" Schedule 40 and 80 Trade Sizes from 1/2" to 6" Schedule 40 and 80 Trade Sizes from 1/2" to 6" Trade Sizes from 1/2" to 6" Schedule 40 and 80 Trade Sizes from 1/2" to 6" Schedule 40 and 80 Trade Sizes from 1/2" to 6" Trade Sizes from 1/2" to 6" Schedule 40 and 80 Trade Sizes from 1/2" to 6" Trade Sizes from 1/2" to 6" Trade Sizes from 1/2" to 6"	ttp://www.cantexinc.com/			
Conduit Conduit Trade Sizes from 1/2" to 6" Schedule 40 and 80 Trade Sizes from 1/2" to 6" Schedule 40 and 80 Trade Sizes from 1/2" to 6" Trade Sizes from 1/2" to 6" Schedule 40 and 80 Trade Sizes from 1/2" to 6" Schedule 40 and 80 Trade Sizes from 1/2" to 6" Trade Sizes from 1/2" to 6" Schedule 40 and 80 Trade Sizes from 1/2" to 6" Trade Sizes from 1/2" to 6" Trade Sizes from 1/2" to 6"				A
Schedule 40 and 80	Allied Tube & Conduit		◆ PVC	
tp://www.alliedeg.us/ time Conduit Inc. Prime Conduit Prime Con	16100 S. Lathron Avenue			▼ Trade Sizes from 1/2" to 6"
Frime Conduit Inc. Prime Conduit Prime Conduit PVC Schedule 40 and 80 Trade Sizes from 1/2" to 6" Prime Conduit Friade Sizes from 1/2" to 6" Prime Conduit PVC Schedule 40 and 80 Trade Sizes from 1/2" to 6" PVC PVC Schedule 40 and 80 Trade Sizes from 1/2" to 6" PVC PVC Schedule 40 and 80 Trade Sizes from 1/2" to 6"	Harvey, IL 60426-6021			
Frime Conduit Inc. Prime Conduit Prime Conduit PVC Schedule 40 and 80 Trade Sizes from 1/2" to 6" Prime Conduit Friade Sizes from 1/2" to 6" Prime Conduit PVC Schedule 40 and 80 Trade Sizes from 1/2" to 6" PVC PVC Schedule 40 and 80 Trade Sizes from 1/2" to 6" PVC PVC Schedule 40 and 80 Trade Sizes from 1/2" to 6"				
3240 Chagrin Blvd. Suite 405 leveland, OH 44122 316) 464-3400 321-1970 421 Old Vestal Road estal, NY 13850 3240 Chagrin Blvd. Suite 405 421 Old Vestal Road estal, NY 13850 3260 Road estal, NY 13850 3270 Road estal, NY 13850 3280 Road estal, NY 13850 3290 Road estal, NY 13850 3210 Road estal, NY 13850	http://www.alliedeg.us/			
3240 Chagrin Blvd. Suite 405 leveland, OH 44122 316) 464-3400 321-1970 421 Old Vestal Road estal, NY 13850 3240 Chagrin Blvd. Suite 405 421 Old Vestal Road estal, NY 13850 3260 Road estal, NY 13850 3270 Road estal, NY 13850 3280 Road estal, NY 13850 3290 Road estal, NY 13850 3210 Road estal, NY 13850				
### Schedule 40 and 80 ### PVC ### Schedule 40 and 80 ### Trade Sizes from 1/2" to 6" ### Trade Sizes from 1/2	Prime Conduit Inc.	Prime Conduit	♦ PVC	Schedule 40 and 80
leveland, OH 44122 116) 464-3400 100) 321-1970 tp://primeconduit.com ational Pipe & Plastics, Inc. NPPIPVC ◆ PVC ◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6" 421 Old Vestal Road estal, NY 13850 100) 836-4350				◆ Trade Sizes from 1/2" to 6"
16) 464-3400 100) 321-1970 ttp://primeconduit.com ational Pipe & Plastics, Inc. NPPI PVC ◆ PVC ◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6" 421 Old Vestal Road estal, NY 13850 100) 836-4350	_		. (/1	
tp://primeconduit.com ational Pipe & Plastics, Inc. NPPIPVC PVC Schedule 40 and 80 Trade Sizes from 1/2" to 6" 421 Old Vestal Road estal, NY 13850 00) 836-4350			10	
tp://primeconduit.com ational Pipe & Plastics, Inc. NPPIPVC • PVC • Schedule 40 and 80 • Trade Sizes from 1/2" to 6" 421 Old Vestal Road estal, NY 13850 100) 836-4350		•		
ational Pipe & Plastics, Inc. NPPIPVC PVC Schedule 40 and 80 Trade Sizes from 1/2" to 6" 121 Old Vestal Road estal, NY 13850 100) 836-4350	800) 321-1970			
◆ Trade Sizes from 1/2" to 6" 421 Old Vestal Road estal, NY 13850 00) 836-4350	nttp://primeconduit.com	X		
421 Old Vestal Road estal, NY 13850 (00) 836-4350	National Pipe & Plastics, Inc.	NPPI PVC	◆ PVC	◆ Schedule 40 and 80
estal, NY 13850 (00) 836-4350				◆ Trade Sizes from 1/2" to 6"
00) 836-4350				
tp://www.nationalpipe.com/	500) 630-4530			
	ttp://www.nationalpipe.com/			

Manufacturer	Brand	Vinyl Chloride Pipe- (P' Type	Model
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791	Heritage	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
http://www.heritageplastics.com/			
Rocky Mountain Colby Pipe Co. 5125-B Race Ct. Denver, CO 80216 (800) 681-8682 http://www.rmcp.com	Rocky Mountain Colby	◆ PVC	 Schedule 40 and 80 Schedule 40 - Trade Sizes from 1/2" to 6" Schedule 80 - Trade Sizes from 1 ¼" to 6"
OMNI 259 Plauche Street Harahan, LA 70123	OMNI •	• PVC	 ◆ Schedule 40 - Trade Sizes from 1/2" to 6" ◆ Schedule 80 - Trade Sizes from 2" to 6"
(504) 736-0331 http://www.omni-opti.com			
American Pipe & Plastics, Inc. P.O. Box 577 Binghamton, NY 13902 (607) 775-4340 http://www.ampipe.com	American Pipe & Plastics	◆ PVC	 Schedule 40 – Trade Sizes from 1 ¼" to 6" in 10' lengths – All model #'s start with UL Schedule 40 – Trade Sizes from 1 ¼" to 6" in 20' lengths – All model #'s start with UL

		Vinyl Chloride Pipe- (1		
Manufacturer	Brand	Type	Mode	l
JM Eagle 5200 West Century Boulevard Los Angeles, CA 90045 (800) 621-4404 http://www.jmeagle.com	JM Eagle	◆ PVC	Schedule 40 • ½" 0.5 S40 UL • ¾" 0.75 S40 UL • 1 ¼" 1.25 S40 UL • 1 ¼" 1.25 S40 UL • 1 ½" 1.50 S40 UL • 2" 2 S40 UL • 2½" 2.5 S40 UL • 3 ½" 3.5 S40 UL • 4" 4 S40 UL • 5" 5 S40 UL • 6" 6 S40 UL	Schedule 80 0.5 \$80 UL 0.75 \$80 UL 1 \$80 UL 1.25 \$80 UL 1.50 \$80 UL 2 \$80 UL 2.5 \$80 UL 3 \$80 UL 3 \$80 UL 4 \$80 UL 5 \$80 UL 5 \$80 UL

	High-Dens	ity Polyethylene Conduit (l	HDPE)
Manufacturer	Brand	Туре	Model
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond HDPE	◆ HDPE Conduit – Schedule 40 Color - Black	 ↑ 1/2" BDI065BK-UL ↑ 3/4" BDI095BK-UL ↑ 1" BDI115BK-UL ↑ 1 ½" BDI135BK-UL ↑ 1 ½" BDI165BK-UL ↑ 2" BDI215BK-UL ↑ 3" BDI315BK-UL ↑ 4" BDI414BK-UL
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (570) 385-4381 http://www.drakausa.com	Draka	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 2" 321659◆ 3" 321663
Dura·line	Dura·line	◆ HDPE Conduit – Schedule 40	◆ 1/2" HDP 050 W SCHE40 SW UVS/UVS N
11400 Parkside Dr. Suite 300 Knoxville, TN. 37934 (865) 218-3460 (800) 847-7661 http://www.duraline.com Formerly A-D Technologies Name change on MPL Nov. 2013		Color - Black	 EMPTD X(TXDOT APPROVED) ◆ 3/4" HDP 075 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 1" HDP 100 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 1 ¼" HDP 125 W SCHE40 SW UVS/UVS N EMPT D X(TXDOT APPROVED) ◆ 1 ½" HDP 150 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 2" HDP 200 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 3" HDP 300 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 4" HDP 400 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 4" HDP 400 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 6" HDP 600 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 6" HDP 600 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED)

	High-Dei	nsity Polyethylene Condui	t (HDPE)
Manufacturer	Brand	Type	Model
United Poly Systems, LLC 4707 E. Kearney St Springfield, MO 65803 (417)708-9887 www.unitedpolysystems.com	United Poly Systems	Type ◆ HDPE Conduit – Schedule 40 Color - Black	 Model ↑ 1" Schedule 40 - D100011AORNNNNSTX ↑ 1 1/4" Schedule 40 - D125011AORNNNNSTX ↑ 1 1/2" Schedule 40 - D150011AORNNNNSTX ↑ 2" Schedule 40 - D200011AORNNNNSTX ↑ 2 1/2" Schedule 40 - D250011AORNNNNSTX ↑ 3" Schedule 40 - D300011AORNNNNSTX ↑ 4" Schedule 40 - D400011AORNNNNSTX ↑ 5" Schedule 40 - D500011AORNNNNSTX ↑ 6" Schedule 40 - D600011AORNNNNSTX
	YC)		

Manufacturer	Brand	rete Junction Box for Conci	Model
Hubbell	Hubbell Quazite	◆ Median Barrier Box	◆ PC1012B500/PC1012CA00
3621 Industrial Park Drive		♦ Median Barrier Box –	◆ PC0516B500/PC0516CA00
Lenoir City, TN. 37771		for Concrete Barrier (F-Shape)	
(800) 346-3062		♦ Junction Box	◆ PC0608Z503831
http://www.quazite.com		w/Cover	V 1 C00002303031
		OD – 9 X 11 X 7 ¹ / ₄ " ID – 7 ³ / ₈ X 9 ³ / ₈ X 6 ¹ / ₂ "	Cover Imprinted "Danger High Voltage – Illumination"
		70	
	V		
	(C)		

Item 620 – Electrical Conductors

General

The following products are pre-qualified for use on projects where Conductors are furnished or installed as required by the item descriptive code. Where splicing materials, insulating materials, GelCaps, fuse holders or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
American Insulated Wire Co.	American	◆ XHHW-2 Or ◆ XHHW	 ◆ Available in 14 AWG through 750 kcmil ◆ 6 AWG & 8AWG Available in Black Only
Bought out by Southwire Corp.			American will continue to be pre-qualified until stock is depleted.
Encore Wire	Encore	• XHHW-2 Or	Available in 14 AWG through 1000 kcmil
1410 Millwood Rd.		◆ XHHW	
McKinney, TX 75069			
(800) 962-9473			
http://www.encorewire.com/	(C)		
Service Wire Company	Service Wire	♦ XHHW-2 Or	◆ Available in 14 AWG through 750 kcmil
		♦ XHHW	
Service Wire Company 310 Davis Road			
Culloden, W. Va. 25510			
(800) 624-3572			
(713) 674-6666			
(800) 231-9473			
http://www.servicewire.com			

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Manufacturer	Brand	Type	Model	
Southwire Corporation	Southwire	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG thr	ough 1000 kemil
1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242			• 6 AWG & 8AWG Availa	ble in Black Only
http://www.southwire.com/				
Advanced Digital Cable Inc. 94 Eagle Fork Road	Advanced Digital	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG th	rough 1000 kemil
Hayesville, NC 28904 (800) 343-2579		0		
http://www.advanceddigitalcable.com				
Draka Cableteq USA	Draka	◆ XHHW-2	◆ 8 AWG Black ◆ 8 AWG White	6200110BK 6200110WH
One Tamaque Blvd. Schuylkill Haven, PA 17972	•	1	 ♦ 8 AWG Red ♦ 8 AWG Green 	6200110RD 6200110GN
570) 385-4381 http://www.drakausa.com	X		◆ 6 AWG Black◆ 6 AWG White	6200359BK 6200359WH
ttp://www.urakausa.com	40		 ◆ 6 AWG Red ◆ 6 AWG Green 	6200359RD 6200359GN
			◆ 4 AWG Black ◆ 4 AWG White	6200020BK 6200020WH
Y			◆ 4 AWG Red ◆ 4 AWG Green	6200020RD 6200020GN
V			◆ 2 AWG Black ◆ 2 AWG White	6200067BK 6200067WH
			 ◆ 2 AWG Red ◆ 2 AWG Green ◆ 8 AWG Bare 	6200067RD 6200067GN 113-0007-168
			 ♦ 6 AWG Bare ♦ 4 AWG Bare ♦ 2 AWG Bare 	113-0007-146 113-0007-137 113-0007-100

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	C	onductors – Type XHHW	
Manufacturer	Brand	Туре	Model
Falcon Fine Wire	Falcon	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 4000 kcmil
2401 Discovery Blvd. Rockwall, TX 75032			Available Jacket Colors: Black, Red. White, Green
(800) 874-7230			Black, Red. Willie, Green
(214) 771-3441			
http://www.falconfinewire.com			3090194 – ETL Number Will Be Printed On Jacket
Republic Wire Inc.	Republic Wire Inc.	◆ XHHW-2 Or ◆ XHHW	◆ Available in 8 AWG through 2 AWG
5525 Union Centre Drive		, , , , , , , , , , , , , , , , , , , ,	Available Jacket Colors:
West Chester, OH 45069			Black, Red. White, Green
(513) 860-1800			
		•	Available in 1/0 AWG through 750 Kcmil
http://www.republicwire.com			Available in Black Only
	•	10	◆ Bare Copper Soft Drawn Solid and Stranded 8AWG - 2AWG
Coleman Cable, Inc.	CCI	• XHHW-2	Available in Black Only
1530 Shields Drive			♦ 8 AWG 18080
Waukegan, IL 60085	1		◆ 6 AWG 18060
(800) 325-9355			◆ 4 AWG 18040
	•		◆ 2 AWG 18020
http://www.colemancable.com			♦ 1 AWG 18010
			♦ 1/0 AWG 18100
			◆ 2/0 AWG 18200
			♦ 3/0 AWG 18300
			◆ 4/0 AWG 18400 ◆ 250 MCM 18250
			◆ 250 MCM 18250 ◆ 350 MCM 18350
			◆ 400 MCM 18440
			♦ 500 MCM 18500
			◆ Bare Copper Solid and Stranded 8 AWG – 4AWG Stranded 2 AWG – 600 kcmil

	I	Breakaway Fuse-holders	
Manufacturer	Brand	Type	Model
Eaton –Bussmann Series	Bussmann	◆ Double-pole	◆ HEX-KW-DRYC – used when no neutral is required
114 Old State Road Ellisville, MO 63021			A HEN WW DDVC
(855) 287-7626		◆ Double-pole	♦ HEN-KW-DRYC – used when neutral is present
http://www.cooperindustries.com/ content/public/en/bussmann/electri cal.html			Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.
			These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID sheets are in plan set.
Littelfuse Inc.	Littelfuse	◆ Double-pole	OLEXYYCSX – used when no neutral is required
800 E. Northwest Highway			
Des Plaines, IL 60016-3096		♦ Double-pole	◆ LEXT0YYSX – used when neutral is present
(847) 824-1188			
http://www.littelfuse.com		10	Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.
			These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.
Mersen USA 374 Merrimac Street	Ferraz Shawmut	◆ Double-pole	◆ FEX-91-91-BA – used when no neutral is required
Newburyport, MA 01950 (978) 462-6662		◆ Double-pole	◆ FEXN-91-91-BA – used when neutral is present
http://www.ferrazshawmut.com			Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.
Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut.			These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.

Manufacturer	Brand	Туре	Model
Ideal Industries, Inc.	Ideal-Buchanan SLK	◆ Double-pole	30-S2222D – used when no neutral is required
l Becker Place			
Sycamore, IL 60178		◆ Double-pole	• 30-S2222P – used when neutral is present
(800) 435-0705			
nttp://www.idealindustries.com/			Each fuse holder will allow 2 conductors per po for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.
			These breakaway connectors are to be used for
			both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor t supply 10-ampere time delay fuse. To be used
			when TxDOT Standards RIP and RID are in the plan set.

Item 621 – Tray Cable

General

The following products are pre-qualified for use on projects where Tray Cable is furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Manufacturer	Brand	Type	Model
American Insulated Wire Co. Bought out by Southwire Corp.	American	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 500 kcmil American will continue to be pre-qualified until stock is depleted.
Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 750 kcmil
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 500 kcmil

	IW Conductors with Overa	
Brand	Type	Model
Advanced Digital	◆ Tray Cable – Power Cable – XLP	◆ Available in 12 AWG -3 and 4 conductor
	XHHW Insulation,	
	PVC Jacket, Copper	
	Conductors	
		A
	0.	
	10	
X		
	Brand Advanced	Brand Type Advanced Digital

Item 622 – Duct Cable

General

The following products are pre-qualified for use on projects where Duct Cable is furnished or installed as required by the item descriptive code. Where connectors are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed.

	Duct Cabl	le with Type XHHW Condu	ictors
Manufacturer	Brand	Type	Model
Dura·line 11400 Parkside Dr. Suite 300 Knoxville, TN. 37934 (865) 218-3460 (800) 847-7661 http://www.duraline.com Formerly A-D Technologies Name change on MPL Jan. 2014	Dura·line	◆ Duct Cable – HDPE with XHHW Conductors Installed	 ♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved"
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond	Duct Cable – HDPE with XHHW Conductors Installed	 ◆ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved"
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (800) 233-3190 http://www.drakausa.com	Draka	◆ Duct Cable – HDPE with XHHW Conductors Installed	 ◆ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved"

	Duct Cab	le with Type XHHW Condu	actors
Manufacturer	Brand	Туре	Model
One Southwire Drive Carrolton, GA 30119	SIMpull	◆ Duct Cable – HDPE with XHHW Conductors Installed	◆ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering.
(770) 832-4242			Printing on Outside Wall of Duct as Per DMS 11060
http://www.southwire.com/			Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved"
	•		
	300		

Item 624 – Ground Boxes

General

The following products are pre-qualified for use on projects where Ground Boxes are furnished or installed as required by descriptive code. Products are subject to testing. No substitutions will be allowed for Types A through E as listed below. For types not listed below, applicable TxDOT standards and specifications will apply.

	Ground B	Boxes – Precast Polymer Co	ncrete
Manufacturer	Brand	Туре	Model
Hubbell	Hubbell	♦ A	◆ PG1324B512 / PG1324H506
	Quazite	♦ B	◆ 2PG1324B512 / PG1324H506
3621 Industrial Park Drive		♦ C	◆ PG1730B512 / PG1730H507
Lenoir City, TN. 37771		♦ D	◆ PG1730B517 / PG1730H507
(800) 346-3062		♦ E	◆ PG1324B514 / PG1324H506
http://www.quazite.com		Cover For Type A, B & E	 → PG1324H5064A (Danger High Voltage FTM) → PG1324H5064B (Danger High Voltage Irrigation) → PG1324H5064D(Danger High Voltage Illumination) → PG1324H5064E (Danger High Voltage Traffic Signal) → PG1324H5064G (Danger High Voltage Sign Lighting) → PG1324H506H7 (Danger High Voltage)
	70,	Cover For Type C & D	 ◆ PG1730H5074A (Danger High Voltage FTM) ◆ PG1730H5074B (Danger High Voltage Irrigation) ◆ PG1730H5074D (Danger High Voltage
			 Illumination) ◆ PG1730H5074E (Danger High Voltage Traffic Signal) ◆ PG1730H5074G (Danger High Voltage Sign Lighting) ◆ PG1730H507H7 (Danger High Voltage)

Ground Boxes – Precast Polymer Concrete				
Manufacturer	Brand	Type	Model	
Armorcast Products Company	Armor cast	♦ A	◆ A6001946TAPCX12	
		♦ B	♦ A6001946TAPCX24	
13230 Saticoy St.		♦ C	◆ A6001640TAPCX12	
North Hollywood, CA. 91605		♦ D	◆ A6001640TAPCX22	
(818) 982-3600		◆ E	◆ A6001946TAPCX18	
http://www.armorcastprod.com/				
		Cover For All Boxes	◆ All Covers Read "Danger High Voltage." Additional Logos Added Per Job Spec.	

Ground Boxes - Precast Polymer Concrete				
Manufacturer	Brand	Туре	Model	
NewBasis	NewBasis	♦ A	◆ PCB132412G482	
		♦ B	◆ (2) PCB132412G482	
2626 Kansas Avenue				
Riverside, CA. 92507		♦ C	◆ PCB173012G482	
(909) 787-0600		♦ D	◆ PCB173022G482	
Toll Free (866) 392-2747		◆ E	◆ PCB132418G482	
http://www.newbasis.com/				
			◆ PCC1324DLA528- DANGER HIGH	
			VOLTAGE/TRAFFIC SIGNALS	
			◆ PCC1324DCA528- DANGER HIGH	
		Cover For Type A, B & E	VOLTAGE/ILLUMINATION ◆ PCC1324DMA528- DANGER HIGH	
			◆ PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT	
			◆ PCC1324DSA528- DANGER HIGH	
			VOLTAGE/SIGN ILLUMINATION	
			◆ PCC1730DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS	
		\ \V\1	◆ PCC1730DCA528- DANGER HIGH	
	_	Cover For Type C & D	VOLTAGE/ILLUMINATION	
	•		◆ PCC1730DMA528- DANGER HIGH	
	A 6		VOLTAGE/TRAFFIC MANAGEMENT	
	V		◆ PCC1730DSA528- DANGER HIGH	
		•	VOLTAGE/SIGN ILLUMINATION	

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Ground Boxes - Precast Polymer Concrete					
Manufacturer	Brand	Type	Model		
Synertech Moulded Products	Synertech	♦ A	◆ S132412HH90		
		♦ B	◆ S132424HH90		
2 Inverness St.		♦ C	◆ S173012HH90		
Candiac, Quebec Canada		♦ D	◆ S173024HH90		
J5R 4WS Toll Free (888) 868-5214		◆ E	◆ S132418HH90		
http://www.synertechproducts.com		Cover For Type A, B & E	 \$1324HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNAL \$1324HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION \$1324HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT \$1324HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION 		
		Cover For Type C & D	 \$1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS \$1730HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION \$1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT \$1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION 		

Manufacturer	Brand	Boxes - Precast Polymer Con Type	Model
Oldcastle Enclosure Solutions	Oldcastle	→ A	◆ 13242030
Oldeastic Eliciosaic Solutions	Olucastic	→ A → B	◆ 13242032
2434 Rubidoux Blvd.		▼ В	13242032
Riverside, CA. 92509		♦ C	◆ 17302061
(800) 735-5566		♦ D	◆ 17302061 ◆ 17302063
(713) 875-8030		◆ E	◆ 13242031
		▼ E	▼ 13242031
http://www.oldcastleprecast.com/			
enclosuresolutions			◆ 13244159- DANGER HIGH
			VOLTA GE/TRAFFIC SIGNALS
			◆ 13244156- DANGER HIGH
		Cover For Type A, B & E	VOLTAGE/ILLUMINATION
			◆ 13244158- DANGER HIGH
Carson Industries, LLC.			VOLTAGE/TRAFFIC MANAGEMENT
is now Oldcastle Enclosure Solutions 8-29-2013			→ 13244157- DANGER HIGH VOLTAGE
Model numbers are the same			
wioder numbers are the same			
		Y Z	
			◆ 17304185- DANGER HIGH
			VOLTAGE/TRAFFIC SIGNALS
		4 (/)	◆ 17304183- DANGER HIGH
		Cover For Type C & D	VOLTAGE/ILLUMINATION
	•		◆ 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT
			◆ 17304272- DANGER HIGH VOLTAGE
			▼ 17304272- DANGER HIGH VOLTAGE

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Ground Boxes – Precast Polymer Concrete					
Manufacturer	Brand	Туре	Model		
CDR Systems Corporation	cdr	♦ A	◆ SB14-1324-12-0287		
		♦ B	◆ SB14-1324-12-0287 -2 boxes stacked		
146 South Atlantic Ave.					
Ormond Beach, FL. 32176		♦ C	◆ SB14-1730-12-0494		
(386) 615-9510		♦ D	◆ SC14-1730-22-0499		
http://www.cdrsystems.com/		◆ E	◆ SB14-1324-18-0288		
		Cover For Type A, B & E	◆ SC12-1324-02		
		Cover For Type C & D	◆ SC12-1730-02		
		(0)			
		Cover For All Boxes	◆ All Covers Read "Danger High Voltage." Additional Logos Added Per Job Spec.		

Ground Boxes - Precast Polymer Concrete					
Manufacturer	Brand	Type	Model		
Highline Products, Inc.	Highline	♦ A	◆ PHA132412HTD-XX		
		♦ B	◆ PHA132424HTD-XX		
131 Hartwell Ave.		♦ C	◆ PHA173012HTD-XX		
Lexington, MA. 02421		♦ D	◆ PHA173024HTD-XX		
(781) 328-3220		◆ E	◆ PHA132418HTD-XX		
http://www.highlineproducts.com					
		Cover Logo Information XX in each model will be replaced with: • 20 • 21 • 22 • 23 • 24 Ordering covers only, Contact Manufacturer	 DANGER HIGH VOLTAGE DANGER HIGH VOLTAGE/ ILLUMINATION DANGER HIGH VOLTAGE/ SIGN ILLUMINATION DANGER HIGH VOLTAGE/ TRAFFIC MANAGEMENT DANGER HIGH VOLTAGE/ TRAFFIC SIGNALS 		

	Ground 1	Boxes – Precast Polymer Co	ncrete
Manufacturer	Brand	Type	Model
Duravault	Duravault	♦ A	◆ PC132412STBTXD-XX (122311)
		♦ B	◆ PC132422STBTXD-XX (122322)
310 Weathers Dr.		♦ C	◆ PC173012STBTXD-XX (162911)
Laredo, TX. 78045		◆ D	◆ PC173022STBTXD-XX (162922)
(885) 250-3993		◆ E	◆ PC132418STBTXD-XX (122317)
http://www.duravault.com			
		Cover Logo Information XX in each model will be replaced with: Cover For Type A, B & E	 PCC1324BTXD-TS/ TRAFFIC SIGNAL PCC1324BTXD-IL/ ILLUMINATION PCC1324BTXD-TM/ TRAFFIC
			MANAGEMENT ◆ PCC1324BTXD-SI/ SIGN ILLUMINATION
		Cover For Type C & D	◆ PCC1730BTXD-TS/ TRAFFIC SIGNAL
			◆ PCC1730BTXD-IL/ ILLUMINATION
			◆ PCC1730BTXD-TM/ TRAFFIC MANAGEMENT
			◆ PCC1730BTXD-SI/ SIGN ILLUMINATION
		Cover For All Boxes	All Covers Read "DANGER HIGH VOLTAGE"

	Ground	d Boxes – Precast Polymer Co	oncrete
Manufacturer	Brand	Type	Model
Martin Enterprises	Martin	♦ A	◆ 1324/12 PC Type A Tier 15 Rated
		♦ B	◆ 1324/24 PC Type B Tier 15 Rated
19940 Hansen Avenue		♦ C	◆ 1730/18 PC Type C Tier 15 Rated
Nuevo, CA 92567		♦ D	◆ 1730/24 PC Type D Tier 15 Rated
(951) 928-8413		◆ E	◆ 1324/18 PC Type E Tier 15 Rated
http://www.martinfrp.com			
		Cover For Type A, B & E	◆ 1324 Cover Traffic Signal / DANGER - HIGH VOLTAGE/TRAFFIC SIGNALS
			◆ 1324 Cover Illumination / DANGER - HIGH VOLTAGE/ILLUMINATION
			◆ 1324 Cover Traffic Management / DANGER - HIGH VOLTAGE/TRAFFIC MANAGEMENT
		Cover For Type C & D	◆ 1730 Cover Traffic Signal / DANGER - HIGH VOLTAGE/TRAFFIC SIGNALS
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1730 Cover Illumination / DANGER - HIGH VOLTAGE/ILLUMINATION
		10	 ◆ 1730 Cover Traffic Management / DANGER - HIGH VOLTAGE/TRAFFIC MANAGEMENT

Item 628 – Electrical Services

General

The following products have been tested and are pre-qualified for use on projects where Electrical Services are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Electrical Service				
Manufacturer	Brand	Type	Model	
Electrol Systems 10623 Sentinel Drive	Electrol	◆ A◆ C	◆ ELECTROL TYPE A-TXDOT◆ ELECTROL TYPE C-TXDOT	
San Antonio, TX 78217 (210) 599-6485 (888) 853-8944		◆ C- Auxiliary Only	 ELECTROL TYPE C- Auxiliary Only – TXDOT ELECTROL TYPE D-TXDOT 	
http://www.electrolsystems.com/		• D		
		◆ T- Auxiliary Only	◆ ELECTROL TYPE T- Auxiliary Only - TXDOT	
	•	◆ T-All in One◆ A-Pedestal	◆ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT	
	V	A-retestal	◆ ELECTROL TYPE A-PEDESTAL-TXDOT	
	.()	◆ D-Pedestal	◆ ELECTROL TYPE D-PEDESTAL-TXDOT	
WE Manufacturing	WE	♦ A	◆ WE TYPE A-TXDOT	
5535 Harvey Wilson Drive Houston , TX 77020		♦ C	◆ WE TYPE C-TXDOT	
(713) 676-2298 (800) 880-9453		◆ C- Auxiliary Only	◆ WE TYPE C- Auxiliary Only –TXDOT	
http://www.wemanufacturing.com/		♦ D	◆ WE TYPE D-TXDOT	
		◆ T- Auxiliary Only	◆ WE TYPE T- Auxiliary Only –TXDOT	
		◆ T-All in One	◆ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT	
		◆ A – Pedestal	♦ WE TYPE A- PEDESTAL – TXDOT	
		◆ D-Pedestal	◆ WE TYPE D-PEDESTAL – TXDOT	

Electrical Service				
Manufacturer	Brand	Туре	Model	
Mica Corporation	Mica	♦ A	◆ MICA TYPE A-TXDOT	
P.O. Box 161609 Fort Worth , TX 77020		♦ C	◆ MICA TYPE C-TXDOT	
(817) 847-6121 (817) 577-2088		♦ D	◆ MICA TYPE D-TXDOT	
		◆ T- Auxiliary Only	◆ MICA TYPE T- Auxiliary Only –TXDOT	
http://micacorporation.com		◆ T-All in One	MICA TYPE T- ALL IN ONE ENCLOSURE TXDOT	
Specialty Control Systems	SCS		◆ SCS TYPE A-TXDOT	
Specialty Control Systems	SCS	• A	SCS TYPE A-TXDOT	
629 SH 3		♦ D	◆ SCS TYPE D-TXDOT	
League City, TX 77573				
(281) 332-0999		◆ T-All in One	◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT	
http://www.specialtycontrol.com/		◆ D-Pedestal	◆ SCS TYPE D-PEDESTAL-TXDOT	
	(C)			

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Electrical Service				
Manufacturer	Brand	Type	Model	
Tesco Controls, Inc.	Tesco	♦ A-Pedestal	◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240)	
3434 52 nd Ave. Sacramento, CA 95823		◆ A-Pedestal	◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480)	
(916) 395-8800		◆ C-Pedestal	◆ TESCO TYPE C-PEDESTAL-TXDOT	
http://www.tescocontrols.com		◆ D-Pedestal	• TESCO TYPE D-PEDESTAL-TXDOT	
Myers Power Products, Inc.	Myers	◆ A-Pedestal	◆ MEUG16 TYPE A-PEDESTAL-TXDOT	
725 E. Harrison St. Corona , CA 92879		◆ D-Pedestal	◆ MEUG16 TYPE D-PEDESTAL-TXDOT	
(951) 520-1900 (866) 696-9377		• D	◆ MYERS TYPE D-TXDOT	
http://www.myerspowerproducts.com	3		◆ MYERS TYPE A-TXDOT	

Material/Producer List 52 9/6/2017

Electrical Service				
Manufacturer	Brand	Type	Model	
Associated Starters & Controls	ASC	♦ A	◆ ASC TYPE A-TXDOT	
310 Breesport, Ste. D San Antonio , TX 78216		♦ C	◆ ASC TYPE C-TXDOT	
(210) 798-1334 (888) 798-1334		◆ D	◆ ASC TYPE D-TXDOT	
(600) 770-1334		♦ T	◆ ASC TYPE T-TXDOT	
		◆ T-Auxiliary	◆ ASC TYPE T-AUX-TXDOT	
		♦ A - Pedestal	◆ ASC TYPE A PEDESTAL - TXDOT	
		◆ D - Pedestal	ASC TYPE D-PEDESTAL - TXDOT	
Milbank Manufacturing Co.	Milbank	◆ A - Pedestal	MB TYPE A-PEDESTAL –TXDOT (120/240)	
4801 Deramus		♦ A - Pedestal	◆ MB TYPE A-PEDESTAL –TXDOT	
Kansas City, MO 64120			(240/480)	
(816) 483-5314 (Main Switch Board)		♦ D - Pedestal	◆ MB TYPE D-PEDESTAL –TXDOT	
(660) 463-0800 (Commercial Pedestal)			(120/240)	
http://milbankmfg.com	Y			
	X			
	C)			

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Electrical Service				
Manufacturer	Brand	Type	Model	
Dynamic Automation & Controls	Dynamic Automation	• A	◆ TYPE A-POLE MOUNT	
10560 Sentinel San Antonio , TX 78217	& Controls	◆ A-Pedestal	◆ TYPE A-PEDESTAL	
(210) 267-2489 (855) 465-6099		♦ D	◆ TYPE D-POLE MOUNT	
http://dynamic-ac.com		◆ D-Pedestal	◆ TYPE D-PEDESTAL	
	•			
	S			

Manufacturer	Brand	Type	Model
Гоrk	Tork	♦ 120-277 Volt Photocell	◆ S895 or ◆ NSI-TORK S895 *
1 Grove Street Mt. Vernon, NY 10550			
(914) 664-5042			
(21.) 66. 66.2			* Tork bought out by NSI
nttp://www.tork.com/			
		•	
American Electric Lighting / DTL	DTL	◆ 120-277 Volt	◆ DUX124 -12A30
DO D. 2004		Photocell	
2.O. Box 3004			
ewark, OH 43800			
800) 754-0463			
nttp://www.darktolight.com			
Tyco Electronics	Area Lighting Research	♦ 120-277 Volt	♦ ALR-SST-PV-IES-UL
	Тусо	Photocell	(3E7425-000)
3000 Purfoy Rd.	•		
uquay-Varina, NC 27526			
919)557-8459			
nttp://www.tycoelectronics.com/			
ttp://www.tycoelectronics.com/			

Item 685 – Roadside Flashing Beacon Assemblies

General

The following products are pre-qualified for use on projects where Roadside Flashing Beacon Assemblies are furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Breakaway Holders-Non-Fused			
Manufacturer	Brand	Туре	Model
Mersen USA	Ferraz Shawmut	◆ Single Pole	◆ FEB-81-81-BA when fused use slug
374 Merrimac Street		♦ Single Pole	◆ FEBN-81-81-BA for neutral (non-fused)
Newburyport, MA 01950			
(978) 462-6662		◆ Dummy Fuse (Slug)	◆ MNL30 - Slug
http://ep-us.mersen.com/			These breakaway connectors are to be used
			when required by TxDOT Standards RFBA
Ferraz Shawmut is Now Mersen.			and SPRFBA. Installing contractor to supply
Parent Company name change only.			dummy fuse-(slug).
Brand of connector is still			
Ferraz Shawmut.	•	10	
Littelfuse Inc.	Littelfuse	◆ Single Pole	◆ LEB-JJ-S-WPB1 when fused use slug
800 E. Northwest Highway Des Plaines, IL 60016-3096	X	Single Pole	◆ LET-JJ-S-WPB1 for neutral (non-fused)
(847) 824-1188	(C)	◆ Dummy Fuse (Slug)	◆ Not available at this time
http://www.littelfuse.com			These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA . Installing contractor to supply dummy fuse-(slug).
Eaton –Bussmann Series	Bussmann	◆ Single Pole	♦ HEB-JW-RLC-J when fused use slug
114 Old State Road		◆ Single Pole	◆ HET-JW-RLC-J for neutral (non-fused)
Ellisville, MO 63021			The second secon
(855) 287-7626		◆ Dummy Fuse (Slug)	♦ NNB - Slug
http://www.cooperindustries.com/content/public/en/bussmann/electrical.html			These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA . Installing contractor to supply dummy fuse-(slug).

Manufacturer Ideal Industries, Inc. 1375 Park Avenue Sycamore, IL 60178	Brand Ideal – Buchanan SLK	Type ◆ Single Pole	Model ◆ 30-S1212 when fused use slug
1375 Park Avenue	Buchanan	V Single I die	▼ 50 51212 when tused use stug
	SLK		
Sycamore, IL 60178		♦ Single Pole	◆ 30-S1212N for neutral (non-fused)
			, , ,
(800) 435-0705		◆ Dummy Fuse (Slug)	◆ Not available at this time
http://www.idealindustries.com			These breakaway connectors are to be used
			when required by TxDOT Standards RFBA
			and SPREBA. Installing contractor to supply
			dummy fuse-(slug).
		· ·	
		10	
	•		
V			

Item 687 – Pedestal Pole Assemblies

General

The following products are pre-qualified for use on projects where Pedestal Pole Bases are furnished or installed as required by the item descriptive code. Where Pedestal Poles are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Pedestal Pole Base			
Manufacturer	Brand	Туре	Model
Akron Foundry Company	Akron	◆ Pedestal Pole Base	◆ TS-1000
2728 Wingate Ave.		◆ Pedestal Pole Base with	◆ TS-1000-L
Akron, OH 44314		Extended Neck	•
(330) 745-3101			
http://www.akronfoundry.com			
Pelco Products, Inc.	Pelco	◆ Pedestal Pole Base	◆ SP-1014 -TX
320 W. 18th Street			
Edmond, OK 73013	•		
(405) 340-3434	A		
http://www.pelcoinc.com			
Component Products, Inc.	СРІ	◆ Pedestal Pole Base	◆ CPI-BAS-1P (TXDOT)
521 Morse Avenue		◆ Pedestal Pole Base with	◆ CPI-BAS-1-PX (TXDOT)
Schaumburg, IL 60193		Extended Neck	
(800) 807-6537			
(847) 301-1000			
http://www.componentproducts.com			



Roadway Illumination and Electrical Supplies

Material Producer List

Traffic Operations Division – Traffic Engineering Section

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Materials Pre-qualified for Illumination and Electrical items 610-687 No additional submittals are required for products that are pre-qualified

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Click on any Item above to go directly to that page

For more information about these materials, contact the Traffic Operations Division, Engineering Operations Branch at (512) 416-3232.

Notice:

All submittal and corresponding documentation becomes public information.
All manufacturers' products that are listed within this document are pre-qualified.
Manufacturer name change does not change the pre-qualified status of the original material. TxDOT reserves the right to remove any manufacturer or product from this list, at any time. Manufacturers interested in being added to the pre-qualified list should contact Traffic Operations Division.

Item 610 - Roadway Illumination Assemblies

General

Roadway Illumination Poles do not need to be pre-qualified when TxDOT RIP (Roadway Illumination Pole) standard sheets are included in the plan set.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of Item 610 and applicable Special Provisions to Item 610.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP (Roadway Illumination Pole). Poles fabricated according to RIP standard sheets require no shop drawings.

Alternate designs to RIP or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on the requirements and procedures of shop drawings go to: http://www.txdot.gov/business/resources/specifications/shop-drawings.html.

Click on "Requirements and Procedures for Optional and Non-Standard Illumination Pole Designs and Shop Drawings."

Limitations on Use of the RIP-11 Standard

The Roadway Illumination Pole (RIP-11) standard details were developed for installations in locations where the 3-second gust basic maximum wind speed is 110 mph, and where the elevation of the base of the pole is less than (i.e. not more than) 25' above the elevation of surrounding terrain, in accordance with the "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals," 4th Edition (2001) (AASHTO Design Specifications). For poles to be installed in regions where the maximum basic wind speed exceeds 110 mph or to be mounted more than 25' above the surrounding terrain, the contractor shall provide poles meeting the following requirements:

- A. **Submittals.** Following the electronic shop drawing submittal process (see ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e submit guide.pdf), the contractor shall submit to the Engineer, for approval, fabrication drawings and calculations for the poles. The drawings and calculations shall be sealed by a Texas registered or licensed professional engineer (P.E.).
- B. Luminaire Structural Support Requirements. Lighting poles, arms, and anchor bolt assemblies shall have a 25-year design life to safely resist dead loads, ice loads and the required basic wind speeds at the location of installation in accordance with the current edition of the AASHTO Design Specifications. For transformer base poles, the fabricator shall include transformer base and connecting hardware in calculations and shop drawing submittals. All transformer bases shall have been structurally tested to resist the theoretical plastic moment capacity of the pole. Certification of the plastic moment load test and FHWA breakaway requirement test of the model of base being furnished shall be submitted with the shop drawings. Shop drawings shall show breakaway base model number, and manufacturer's name and logo. Manufacturer's shop drawings shall include the ASTM designations for all materials to be used.

Item 610 - Roadway Illumination Assemblies

General

The following products are pre-qualified for use on the projects where roadway illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Item 610 - Roadway Illumination Assemblies - Underpass Fixture

Nom old Rodan	ay mamma	ion Assemblies – onde	or pace i incare
Manufacturer	Brand	Type	Model
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 energypluslight.com	UDP SERIES	◆ Induction Fluorescent Underpass Fixture	• UDP-165-QL-GR
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031	KENALL	 ◆ Induction Fluorescent Underpass Fixture – Steel Housing 	◆ TS2020-3/3-1-150IND-277V-R- SSPH-TEXAS
(800) 453-6255 <u>kenall.com</u>		Induction Fluorescent Underpass Fixture – Aluminum Housing	◆ TS2020-*/*-150IND-*Volt-8-SSPH- TDOT-ALUMINUM
)`	◆ Box Beam Bracket to Mount Fixture	◆ Ask for BB Bracket When Required– Sold Separately
		◆ Bridge Deck Bracket to Mount Fixture	 ◆ Ask for BD Bracket When Required – Sold Separately
		◆ U-Beam Bracket	◆ Ask for UB Bracket When Required– Sold Separately
ESCO Lighting 3254 N. Kilborn Ave. Chicago, IL 60641 (773) 427-7000 escolighting.com	ESCO	◆ Induction Fluorescent Underpass Fixture	♦ SP2343

Item 610 - Roadway Illumination Assemblies - Underpass Fixture

Item 610 - Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Туре	Model
H.E. Williams	Infinity	◆ Induction Fluorescent Underpass Fixture	
831 W. Fairview Ave. P.O. Box 837 Carthage, MO 64836		♦ BB Box Beam	◆ ICERL1-150S-41K-BAT/CG1-GRA- UNV
(417) 358-4065		♦ BD Bridge Deck	♦ ICERL3-150S-41K-BAT/CG1-GRA- UNV
hew.com		♦ UB U-Beam	♦ ICERL5-150S-41K-BAT/CG1- 14DEG-UNV
Eaton (formerly Cooper)	Fail-Safe	◆ Induction Fluorescent Underpass Fixture	◆ TF28-150ICE-UNV-A1432
1121 Highway 74 South		·	
Peachtree City, GA 30269			
(770) 486-4800			
<u>cooperindustries.com</u>		0	

Item 610 - Roadway Illumination Assemblies - Luminaire

item 610 - Roadway illumination Assemblies – Eurimaire				
Manufacturer	Brand	Туре	Model	
Eaton (formerly Cooper)	Streetworks	♦ 150W HPS- 240/480 Volt	♦ OVW15SMJ3DD0004	
1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800		♦ 250W HPS- 120/240 Volt	♦ 0VW25SMG2DD0001	
cooperindustries.com		♦ 250W HPS- 240/480 Volt	♦ 0VW25SMJ2DD0002	
		♦ 400W HPS- 120/240 Volt	♦ 0VW40SMG2DD0005	
		♦ 400W HPS- 240/480 Volt	◆ 0VW40SMJ2DD0003	
G.E. Lighting Systems, Inc.	M4RC	♦ 150W HPS- 240/480 Volt	♦ M4RC15S9M4GMC3312 or GE Manufacture #180055	
3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372		♦ 250W HPS- 120/240 Volt	◆ M4RC25S7M4GSC2311 or GE Manufacture #168025	
gelightingsystems.com		◆ 250W HPS- 240/480 Volt	◆ M4RC25S9M4GSC2311 or GE Manufacture #168023	
		♦ 400W HPS- 120/240 Volt	♦ M4RC40S7M4GSC3311 or GE Manufacture #157785	
		• 400W HPS- 240/480 Volt	♦ M4RC40S9M4GSC3311 or GE Manufacture #158165	
Holophane	Mongoose	◆ 250W HPS- 120 Volt	♦ G25RHP12LNRHGBR-TXDOT	
3825 Columbus Road SW		♦ 250W HPS- 240 Volt	♦ G25RHP24LNRHGBR-TXDOT	
Granville, 0H 43023 (740) 587-4030		♦ 250W HPS- 480 Volt	♦ G25RHP48LNRHGBR-TXDOT	
FAX (866) 761-9819		♦ 400W HPS- 120Volt	♦ G40RHP12LNRHGBR-TXDOT	
holophane.com		♦ 400W HPS- 240Volt	♦ G40RHP24LNRHGBR-TXDOT	
		♦ 400W HPS- 480 Volt	◆ G40RHP48LNRHGBR-TXDOT	

Item 610 - Roadway Illumination Assemblies - LED Luminaire

Item 610 - Roadway Illumination Assemblies – LED Luminaire				
Manufacturer	Brand	Туре	Model	
TraStar	Duralight	♦ 150W EQ LED - (66W)-120/240 Volt; LLF=0.86	◆ DURA-ST15-4K-120-3-GR-SCLB	
860 N. Dorothy Drive #600		LLI -0.00		
Richardson, TX 75081		♦ 150W EQ LED -	♦ DURA-ST15-4K-120-3-GR-SCLB	
(972) 480-0888		(66W)- 480 Volt; LLF=0.86		
trastarusa.com		♦ 250W EQ LED (120W)- 120/240 Volt; LLF=0.86	◆ DURA-ST25-4K-120-2-GR-SCLB	
		♦ 250W EQ LED (120W)- 480 Volt; LLF=0.86	◆ DURA-ST25-4K-480-2-GR-SCLB	
		♦ 400W EQ LED (185W)- 120/240 Volt; LLF=0.86	◆ DURA-ST40-4K-120-2-GR-SCLB	
		◆ 400W EQ LED (185W)- 480 Volt; LLF=0.86	◆ DURA-ST40-4K-480-2-GR-SCLB	
		◆ 150W EQ LED (70W)- 120/240 Volt; LLF=0.86	♦ JXM-ST140-3-40K-120-3-GR- SCLBTX	
		◆ 150W EQ LED (70W)- 480 Volt; LLF=0.86	◆ JXM-STI40-3-40K-480-3-GR-SCLBTX	
		◆ 250W EQ LED (135W)- 120/240 Volt; LLF=0.86	♦ JXM-ST180-3-40K-120-2-GR- SCLBTX	
)`	♦ 250W EQ LED (135W)- 480 Volt; LLF=0.86	◆ JXM-STI80-3-40K-480-2-GR-SCLBTX	
		♦ 400W EQ LED (205W)- 120/240 Volt; LLF=0.86	♦ JXM-ST180-4-40K-120-2-GR- SCLBTX	
		♦ 400W EQ LED (205W)- 480 Volt; LLF=0.86	♦ JXM-ST180-4-40K-480-2-GR- SCLBTX	

Item 610 - Roadway Illumination Assemblies - LED Luminaire

Item 610 - Roadway Illumination Assemblies – LED Luminaire				
Manufacturer	Brand	Туре	Model	
Eaton (formerly Cooper)	Streetworks	◆ 150W EQ LED (72W)- 120/240 VOLT LLF=0.86	♦ VERD-A028-D-U-T3-4N7-20K-AP- TXDOT-D0077	
1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800		♦ 150W EQ LED (72W)- 480 VOLT LLF=0.86	♦ VERD-A028-D-8-T3-4N7-20K-AP- TXDOT-D0078	
cooperindustries.com		◆ 250W EQ LED (143W)-120/240 VOLT LLF=0.816	◆ VERD-G-A02-D-U-T2-4N7-20K-AP- TXDOT-D0027	
		♦ 250W EQ LED (154W)-480 VOLT LLF=0.816	◆ VERD-G-A02-D-8-T2-4N7-20K-AP-TXD0T-D0028	
		♦ 400W EQ LED (180W)- 120/240 Volt; LLF=0.81	♦ VERD-M-A03-D-U-T2-4N7-20K-AP- TXD0T-D0004	
		♦ 400W EQ LED (180W)- 480 Volt; LLF=0.81	◆ VERD-M-A03-D-8-T2-4N7-20K-AP-TXD0T-D0005	
		♦ 150W EQ LED- 120/240 Volt; LLE=0.86	♦ XNV2-AC-02-D-U-3-525- 4N7-AP-TXDOT-D0030	
		◆ 150W EQ LED- 480 Volt: LLF=0.86	♦ XNV2-AC-02-D-8-3-525- 4N7-AP-TXDOT-D0031	
		250W EQ LED- 120/240 Volt; LLF=0.86	◆ XNV2-AC-02-D-U-2-4N7- AP-TXDOT- D0028	
		♦ 250W EQ LED- 480 Volt; LLF=0.86	◆ XNV2-AC-02-D-8-2-4N7- AP-TXDOT- D0029	
		♦ 400W EQ LED- 120/240 Volt; LLF=0.86	♦ NVN-AE-03-D-U-T2R-4N7-AP-TXDOT- D0102	
		♦ 400W EQ LED- 480 Volt; LLF=0.86	♦ NVN-AE-03-D-8-T2R-4N7-AP-TXDOT- D0103	
		♦ 400W EQ LED- 120/240 Volt; LLF=0.85	♦ NVN-AF-03-D-U-T2R-4N7-AP-TXDOT- D0225	
		♦ 400W EQ LED- 480 Volt; LLF=0.85	♦ NVN-AF-03-D-8-T2R-4N7-AP-TXDOT- D00226	

Item 610 - Roadway Illumination Assemblies - LED Luminaire

		Tura	
Manufacturer	Brand	Туре	Model
GreenStar 6900 Alamo Downs Pkwy	GreenStar	◆150W EQ LED (100W)-120/240 Volt; LLF=0.74	◆XAVX08431SNXXI
Suite 120 San Antonio, TX 78238 greenstarled.com		◆150W EQ LED (100W)-480 Volt; LLF=0.74	◆XAVH08434SNXXI
		♦250W EQ LED (170W)-120/240 Volt; LLF=0.74	◆XAVX12431SNXXI; oldpart # AV12431SN
		♦250W EQ LED (170W)-480 Volt; LLF=0.74	◆XAVH12434SNXXI; oldpart # AV12434SN
		♦400W EQ LED (240W)-120/240 Volt; LLF=0.74	◆XAVX20431SNXXI
		♦400W EQ LED (240W)-480 Volt; LLF=0.74	◆XAVH20434SNXXI
GE Lighting Solutions	Evolve	♦150W EQ LED (78W)- 120V; LLF=0.80	♦ERS11B3D17404GRAY120
3010 Spartanburg Hwy East Flat Rock, NC 28726		◆150W EQ LED (78W)- 240V; LLF=0.80	♦ERS13B3D17404GRAY120
gelightingsystems.com		150W EQ LED (78W)- 480V; LLF=0.80	♦ERS15B3D17404GRAY081
		♦250W EQ LED (130W)-240V; LLF=0.79	♦ERS20E3E17404GRAY083
		♦250W EQ LED (130W)-480V; LLF=0.79	♦ERS2HE3E17404GRAY134
		♦400W EQ LED (285W)-240V; LLF=0.70	♦ERS20H3E11404GRAY135
		◆400W EQ LED (285W)-480V; LLF=0.70	◆ERS2HH3E11404GRAY136

Item 610 - Roadway Illumination Assemblies - LED Luminaire

Item 610 - Roadway Illumination Assemblies – LED Luminaire			
Manufacturer	Brand	Туре	Model
Philips Philips Lighting	Lumec	◆250W EQ LED (120W)-120/240V; LLF=0.833	♦[RFM-004]-108W48LED4K-T-R2M- [UNIV-009]-DMG-ML-RCD-SP2-GY3
200 Franklin Square Drive Somerset, NJ 08873		♦250W EQ LED (120W)-480V; LLF=0.833	♦[RFM-004]-108W48LED4K-T-R2M- [HVU-002]-DMG-ML-RCD-SP2-GY3
lightingproducts.philips.com		◆400W EQ LED (200W)-120/240V; LLF=0.833	◆[RFL-006]180W80LED4K-T-R2M- [UNIV-009]-DMG-ML-RCD-SP2-GY3
		♦400W EQ LED (200W)-480V; LLF=0.833	♦[RFL-006]-180W80LED4K-T-R2M- [HVU-002]-DMG-ML-RCD-SP2-GY3
Acuity	American Electric	♦150W EQ LED (70W)- 120/240V; LLF=0.742	◆ATBO 20BLEDE10 MVOLTR3 20 BL NL SH F2 RFD22058
Acuity Brands Lighting, Inc. 3825 Columbus Rd. Granville, OH 43023		◆150W EQ LED (70W) 480V; LLF=0.742	◆ATB0 20BLEDE10 480 R320 BL NL SH F2 RFD209795
acuitybrands.com		◆250W EQ LED (126W)-120/240V; LLF=0.815	♦ATBO 30BLEDE13 MVOLTR2 20 BL NL SH RFD244668
		◆250W EQ LED (126W)-480V; LLF=0.815	♦ATB0 30BLEDE13 480 R220 BL NL SH RFD244669
		•250W EQ LED (150W)-120/240V; LLF=0.815	♦ATB0 30BLED15 MVOLTR2 20 BL NL SH RFD209796
40		♦250W EQ LED (150W)-480V; LLF=0.815	♦ATB0 30BLED15 480 R2 20BL NL SH RFD220059
		♦400W EQ LED (209W)-120/240V; LLF=0.877	♦ATBL D MVOLT R2 4B 20NL SH RFD209798
▼		♦400W EQ LED (209W)-480V; LLF=0.877	♦ATBL D 480 R2 4B 20 NLSH RFD220060

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Item 610 - High Pressure Sodium Lamps

tom 010 mgm roccaro coaram Lampo				
Manufacturer	Brand	Туре	Model	
Osram Sylvania	Sylvania – Lumalux Plus®/ECO	♦ 400 Watt Lamp	♦ 67312 - LU400/PLUS/EC0	
100 Endicott Street Danvers, MA 24210	3, 200	♦ 250 Watt Lamp	♦ 67572 - LU250/PLUS/EC0	
(978) 777-1900		♦ 150 Watt Lamp	♦ 67494 -LU150/55/PLUS/ ECO	
For Lamps (800) 544-4828				
(800) 344-4828				
sylvania.com				
Philips Lighting Company	Philips - Ceramalux®/ALTO	♦ 400 Watt Lamp	♦ 14743-9 - C400S51/ALTO NC HPS	
	® Non-Cycling Lamp	♦ 250 Watt Lamp	◆ 14742-1 - C250S50/ALTO NC HPS	
200 Franklin Square Dr.		♦ 150 Watt Lamp	♦ 14741-3 -	
P.O. Box 6800			C150S55/ALTO NC HPS	
Somerset, NJ 08875 (800) 555-0050				
lighting philing com				

lighting.philips.com

GE Lighting	GE – EcoluxNC™	♦ 400 Watt Lamp	♦ 14675 - LU400/ECO/NC	
Nela Park, 1975 Noble Rd.		▶ 250 Watt Lamp	♦ 14674 - LU250/ECO/NC	
Cleveland, OH		◆ 150 Watt Lamp	♦ 40390 - LU150/55/ECO/	
44112 (216) 266-2121		7	NC	
gelighting.com				

Item 610 - Photoelectric Control - Photocell

Manufacturer	Brand	Туре	Model
Tork	Tork	♦ 120-277 Volt	♦ S895
1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042		Photocell	♦ NSI-TORK S895 ** Tork has recently been bought out by NSI
tork.com			
American Electric Lighting / DTL	DTL	♦ 120-277 Volt Photocell	♦ DUX124 -12A30

P.O. Box 3004 Newark, OH 43800 (800) 754-0463

darktolight.com

Tyco Electronics	Area Lighting	♦ 120-277 Volt Photocell	◆ ALR-SST-PV-IES-UL (3E7425-000)
8000 Purfoy Rd. Fuquay-Varina, NC 27526	Research Tyco		
(919) 557-8459			
tycoelectronics.com			

Item 610 - Breakaway Fuse-holders				
Manufacturer	Brand	Туре	Model	
Eaton -Bussmann Series	Bussmann	◆ Double-pole	◆ HEX-KW-DRYC – used when no neutral is required	
114 Old State Road Ellisville,MO 63021 (855) 287-7626		◆ Double-pole	♦ HEN-KW-DRYC – used when neutral is present	
<u>cooperindustries.com</u>			Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.	
Littelfuse Inc. 800 E. Northwest Highway	Littelfuse	◆ Double-pole	OLEXYYCSX – used when no neutral is required	
Des Plaines, IL 60016-3096 (847) 824-1188		◆ Double-pole	◆ LEXTOYYSX – used when neutral is present	
littelfuse.com		8	Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP	

and RID are in the plan set.

Item 610 - Breakaway Fuse-holders

item 610 - Breakaway Fuse-noiders					
Manufacturer	Brand	Туре	Model		
Mersen USA	Ferraz Shawmut	◆ Double-pole	◆ FEX-91-91-BA – used when no neutral is required		
374 Merrimac Street Newburyport, MA 01950 (978) 462-6662		◆ Double-pole	♦ FEXN-91-91-BA – used when neutral is present		
Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut.			Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and nonbreakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP		
			and RID are in the plan set.		
1 Becker Place Sycamore, IL 60178 (800) 435-0705	Ideal- Buchanan SLK	◆ Double-pole ◆ Double-pole	 30-S2222D – used when no neutral is required ◆ 30-S2222P – used when neutral is present 		
idealindustries.com			Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and nonbreakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.		

Item 610 - Optional and Non-Standard Illumination Pole Designs and Shop Drawings

Manufacturer	Brand	Туре	Model
Нарсо	Нарсо	♦ 40 FtAluminum - T- Base mounted with (1)	♦ Based on Drawing # B15138 and B15136
26252 Hillman Highway		8Ft. Arm Only	
Abingdon, VA 24210 (800) 368-7171			
hanca com			
hapco.com			



Item 610 - Breakaway Transformer Base

Manufacturer	Brand	Туре	Model
Akron Foundry Co.	Akron	♦ Breakaway Transformer Base for	♦ TB1-17
2728 Wingate Ave.		Luminaire Poles Less	
Akron, OH 44314 (330) 745-3101		Than 40 Foot Height	
(555) 1 15 5151		♦ Breakaway	♦ TB3-17
<u>akronfoundry.com</u>		Transformer Base for Luminaire Poles 40 to	
		50 Foot Height	



Item 613 - High Mast Illumination Poles

General

There are no pre-qualified High Mast Illumination Poles.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of item 613. Provide components that fit together properly.

- (a) Standard Design. Fabricate poles in accordance with this Item and the plans. Alternate designs are not permitted.
- (b) Shop Drawings. Do not submit shop drawings for high mast illumination poles fabricated in accordance with this Item and the plans.



Item 614 - High Mast Illumination Assemblies

General

The following products are pre-qualified for use on the projects where high mast illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Item 614 - Luminaire - High Mast

Item 614 - Luminaire – High Mast				
Manufacturer	Brand	Туре	Model	
Holophane 3825 Columbus Road SW Granville, OH 43023 (740) 587-6167 FAX (888) 300-5321 holophane.com	High Mast Cutoff- HMSC High Mast Cutoff- HMSC High Mast Dark Skies-	◆ High Mast - Type A◆ High Mast - Type B◆ High Mast - Type S	 → HMSC40RHP48B9- TXDOT 12 TYPE → HMSC40RHP48B9- TXDOT 12 TYPE B → HMAO40RHP48S- TXDOT 12 TYPE S 	
notophane.com	HMSD	Q,	*Note model number for A & B changed from B7 to B9. No other changes noted.	
G.E. Lighting Systems, Inc.3010 Spartanburg Highway	G.E.	♦ High Mast – Type A	♦ 159189	
Henderson, NC 28793 (800) 305-1372		▼ High Mast - Type B	♦ 159190	
gelightingsystems.com		◆ High Mast – Type C	◆ 159191	
		♦ High Mast – Type S	♦ 159193	
Eaton (formerly Cooper) 1121 Highway 74 South	Streetworks	♦ High Mast – Type A	♦ GMA40SM83DD0018	
Peachtree City, GA 30269 (770) 486-4800		◆ High Mast – Type B	♦ GMA40SM83DD0019	
<u>cooperindustries.com</u>		♦ High Mast – Type C	♦ GMA40SM83DD0020	
		♦ High Mast – Type S	♦ GMA40SM8ARD0017	

Item 614 - High Pressure Sodium Lamps

Manufacturer	Brand	Туре	Model
Osram Sylvania	Sylvania - Lumalux Plus®/ECO	♦ 400 Watt Lamp	♦ 67312 - LU400/PLUS/EC0
100 Endicott Street	ŕ		
Danvers, MA 24210 (978) 777-1900			
For Lamps			
(800) 544-4828			
sylvania.com			
Philips Lighting Company	Philips - Ceramalux®/ALTO	♦ 400 Watt Lamp	♦ 14743-9 - C400S51/ALTO NC HPS
200 Franklin Square Dr.	® Non-Cycling		
P.O. Box 6800 Somerset, NJ 08875	Lamp		
(800) 555-0050			
lighting.philips.com			
		·	
GE Lighting	GE – EcoluxNG™	♦ 400 Watt Lamp	♦ 14675 - LU400/ECO/NC

GE Lighting	GE – EcoluxNG™	♦ 400 Watt Lamp	♦ 14675 - LU400/ECO/NC	
Nela Park, 1975 Noble Rd.		0		
Cleveland, OH 44112				
(216) 266-2121				
gelighting.com) , '		

Item 614 - High Mast Kit

item 614 - High Mast Kit			
Manufacturer	Brand	Туре	Model
Mica Corporation 5750 N. Riverside Dr.	Mica Corporation	♦ High Mast – 125 Foot	♦ HMK-125-PH
Fort Worth, TX 76137 (817) 577-2088		♦ High Mast – 150 Foot	♦ HMK-150-PH
micacorporation.com		♦ High Mast – 175 Foot	♦ HMK -175-PH
Carolina High Mast, Inc.	Carolina High Mast,	♦ High Mast – 125 Foot	♦ HMK-125-CHMI
700 East McLeroy Blvd. – Suite A	Inc.	♦ High Mast – 150 Foot	♦ HMK-150-CHMI
Saginaw, TX 76179 (682) 286-0046		♦ High Mast – 175 Foot	♦ HMK -175-CHMI
Rexel	Rexel	♦ High Mast – 125 Foot	♦ HMK-125-RX
2400 Brockton San Antonio, TX 78217 (210) 352-1047		♦ High Mast – 150 Foot	◆ HMK-150-RX
rexelusa.com		♦ High Mast - 175 Foot	♦ HMK -175-RX
Wildcat Electric Supply, Ltd.	Wildcat	♦ High Mast - 125 Foot	♦ HMK-125-WC
2061 Clovis Barker Road #5. San Marcos, TX 77666 (512) 396-8900 (866) 301-5200	•	♦ High Mast - 150 Foot	♦ HMK-150-WC
wildcatelectric.com		♦ High Mast – 175 Foot	♦ HMK -175-WC
Stratus Products Division of Structural & Steel Products,	Stratus Products	♦ High Mast – 100 Foot	♦ HMK-100-SSPI
Inc 1320 South University		♦ High Mast – 125 Foot	♦ HMK-125-SSPI
Suite 701 Fort Worth, TX 76107 (800) 782-5804		♦ High Mast – 150 Foot	♦ HMK-150-SSPI
stratusprod.com		♦ High Mast – 175 Foot	♦ HMK -175-SSPI
Millerbernd Manufacturing Co.	Millerbernd	♦ High Mast – 100 Foot	♦ MMC100KIT
622 6 th Street South Winsted, MN 55395		♦ High Mast – 125 Foot	◆ MMC125KIT
(320) 485-2111 FAX (320) 485-2220		♦ High Mast – 150 Foot	♦ MMC150KIT
millerberndmfg.com		♦ High Mast - 175 Foot	♦ MMC175KIT

Item 614 - High Mast Ring- Previously Approved Shop Drawings

		reviously Approved Sn	
Manufacturer	Brand	Туре	Model
J.W. Hall Enterprises, Inc.		♦ High Mast Ring	
17731 Elizabeth Rd. Algoa, TX 77511 (281) 337-6311 jwhall.com		Drawing # HM 2002-01 Sheets 1 through 6 Drawing # HE 2002 Sheets 7 through 9	
		11' d 14 1 15'	
Carolina High Mast, Inc.	-	◆ High Mast Ring	
700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046		Drawing # TXDOT-01 Sheets 1 through 5 Drawing # TXDOT-02 Sheets 1 through 4 Drawing # TXDOT-03 Sheets 1 through 4 Drawing # TXDOT-04 Sheets 1 through 3	
Traffic Control Devices		♦ High Mast Ring	
4417 Main Street Pearland, TX 77581 (281) 992-3030 tcd.cc	*.	Drawing # E-901 Sheets 1 through 10	
Brookfield Fabricating Corp.		♦ High Mast Ring	
Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214		Drawings Dated 4-8-96 Sheets 1 through 4 – Good Until 9-30-2011 Drawings Approved 8- 29-2011 Sheet 1 Dated 7-1-08 Sheet 2 Dated 8-5-11 Sheet 3 Dated 7-1-08 Sheet 4 Dated 7-1-08	
PKM Steel Service		♦ High Mast Ring	
228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638 pkmsteel.com		Sheet E1 Dated 8-2-05 Sheet 1 Dated 10-12- 05 Sheet 2 Dated 10-12- 05 Sheet 3 Dated 10-12- 05	

Item 618 - Conduit

General

The following products have been tested and are pre-qualified for use on projects where Conduit, Junction Boxes, Expansion Joints and Conduit Fittings are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Item 618 - Ri	gid Metallic Cond	luit - (RMC)
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		The tame contact (Time	
Manufacturer	Brand	Туре	Model
Allied Tube & Conduit	Allied	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
16100 S. Lathrop Avenue			
Harvey, IL 60426-6021			
(800) 882-5543			· ·
<u>alliedeg.us</u>		0.2	
Wheatland	Wheatland	◆ Galvanized Rigid Metal Conduit (RMC)	♦ Trade Sizes from 1/2" to 6"
900 Haddon Avenue P.O. Box			
600 Collingswood, NJ 08108- 0600 (800) 257-8182			
0000 (000) 201 0202	* .		
wheatland.com			
Republic Conduit	Republic	♦ Galvanized Rigid Metal Conduit (RMC)	♦ Trade Sizes from 1/2" to 6"
7301 Logistics Drive		motar corradit (mile)	
Louisville, KY 40258			
(800) 840-8823 (502) 995-5 90 0			
republicconduit.com			
Western Tube & Conduit	Western	◆ Galvanized Rigid	♦ Trade Sizes from 1/2" to 6"
Corp.	Conduit	Metal Conduit (RMC)	
2001 E. Dominguez St. Long			
Beach, CA 90801-2720			
(310) 537-6300 (800) 310-8823			
(000) 310-0023			
westerntube.com			

Item 618 - PolyVinyl Chloride Pipe- (PVC)

Manufacturer	Brand	Туре	Model
Cantex	Cantex	♦ PVC	♦ Schedule 40 and 80
P.O. Box 340 Mineral Wells, TX 76068 (940) 325-3344 (800) 433-5623			♦ Trade Sizes from 1/2" to 6"
<u>cantexinc.com</u>			
Allied Tube & Conduit	Allied Tube & Conduit	♦ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
16100 S. Lathrop Avenue Harvey, IL 60426-6021	a conduct		A
alliedeg.us			
Prime Conduit Inc.	Prime Conduit	♦ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
23240 Chagrin Blvd. Suite 405 Cleveland, OH 44122 (216) 464-3400		0	
(800) 321-1970 primeconduit.com		'	
National Pipe & Plastics, Inc.	NPPI PVC	♦ PVC	♦ Schedule 40 and 80
3421 Old Vestal Road			◆ Trade Sizes from 1/2" to 6"
Vestal, NY 13850 (800) 836-4350		4	
nationalpipe.com			
Heritage Plastics Central, Inc.	Heritage	♦ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
1202 N. Bowie Drive Weatherford, TX 76086			
(817) 594-8791			
heritageplastics.com			
Rocky Mountain Colby Pipe Co.	Rocky Mountain Colby	♦ PVC	◆ Schedule 40 and 80 ◆ Schedule 40 - Trade Sizes from 1/2" to 6"
5125-B Race Ct. Denver, CO 80216	-		◆ Schedule 80 - Trade Sizes from 1 ½" to 6"
(800) 681-8682			
rmcp.com			

Item 618 - PolyVinyl Chloride Pipe- (PVC)				
Manufacturer OMNI	Brand OMNI	Type ◆ PVC	Model ◆ Schedule 40 - Trade S	Sizes from
259 Plauche Street Harahan, LA 70123 (504) 736-0331 omni-opti.com			1/2" to 6" ◆ Schedule 80 - Trade \$ to 6"	Gizes from 2"
American Pipe & Plastics, Inc. P.O. Box 577 Binghamton, NY 13902 (607) 775-4340 ampipe.com	American Pipe & Plastics	◆ PVC	◆ Schedule 40 – Trade 1/4" to 6" in 10' lengths #'s start with UL ◆ Schedule 40 – Trade 1/4" to 6" in 20' lengths #'s start with UL	- All model Sizes from 1
JM Eagle 5200 West Century Boulevard Los Angeles, CA 90045 (800) 621-4404 jmeagle.com	JM Eagle	• PVC	Schedule 40 • ½" 0.5 S40 UL • ¾" 0.75 S40 UL • 1" 1 S40 UL • 1 ¼" 1.25 S40 UL • 1 ½" 1.50 S40 UL • 2" 2 S40 UL • 2½" 2.5 S40 • 3" 3 S40 UL • 3½" 3.5 S40 • 4" 4 S40 UL • 6" 6 S40 UL	Schedule 80 0.5 S80 UL 0.75 S80 UL 1 S80 UL 1.25 S80 UL 1.50 S80 UL 2 S80 UL 2.5 S80 UL 3 S80 UL 3 S80 UL 4 S80 UL 5 S80 UL 6 S80 UL

Item 618 - High-Density Polyethylene Conduit (HDPE)

Manufacturer	Brand	Туре	Model
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 bdiky.com	Blue Diamond HDPE	◆ HDPE Conduit – Schedule 40 Color - Black	 1/2" BDI065BK-UL 3/4" BDI095BK-UL 1" BDI115BK-UL 1 ½" BDI135BK-UL 1 ½" BDI165BK-UL 2" BDI215BK-UL 3" BDI315BK-UL 4" BDI414BK-UL
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (570) 385-4381 drakausa.com	Draka	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 2" 321659◆ 3" 321663
Dura-line 11400 Parkside Dr. Suite 300 Knoxville, TN. 37934 (865) 218-3460 (800) 847-7661 duraline.com Formerly A-D Technologies Name change on MPL Nov. 2013	Dura-line	◆ HDPE Conduit – Schedule 40 Color - Black	 1/2" HDP 050 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 3/4" HDP 075 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 1" HDP 100 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 1 ¼" HDP 125 W SCHE40 SW UVS/UVS N EMPT D X(TXDOT APPROVED) ◆ 1 ½" HDP 150 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 2" HDP 200 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 2" HDP 200 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 3" HDP 300 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 4" HDP 400 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 6" HDP 600 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED) ◆ 6" HDP 600 W SCHE40 SW UVS/UVS N EMPTD X(TXDOT APPROVED)

Item 618 - High-Density Polyethylene Conduit (HDPE)

		· , · · · · · · · · · · · · · · · · · · ·	1 /
Manufacturer	Brand	Туре	Model
United Poly Systems, LLC	United Poly Systems	♦ HDPE Conduit –Schedule 40	♦ 1" Schedule 40 - D100011AORNNNNSTX
4707 E. Kearney St		Color - Black	
Springfield, MO 65803			♦ 1 1/4" Schedule 40 -
(417)708-9887			D125011AORNNNNSTX
unitedpolysystems.com			♦ 1 1/2" Schedule 40 -
			D150011AORNNNNSTX
			♦ 2" Schedule 40 -
			D200011AORNNNNSTX
			↑ 2.1/2" Cabadula 40
			♦ 2 1/2" Schedule 40 - D250011AORNNNNSTX
			♦ 3" Schedule 40 - D300011AORNNNNSTX
			DSCOOLLACKINININSTA
		•	♦ 4" Schedule 40 -
			D400011AORNNNNSTX
			♦ 5" Schedule 40 -
			D500011AORNNNNSTX
			♦ 6" Schedule 40 -
		V	D600011AORNNNNSTX

Item 618 - Precast Polymer Concrete Junction Box for Concrete Traffic Barrier

Manufacturer	Brand	Туре	Model
Hubbell	Hubbell	♦ Median Barrier Box	◆ PC1012B500/PC1012CA00
3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062	Quazite	 ◆ Median Barrier Box – for Concrete Barrier (F- Shape) 	◆ PC0516B500/PC0516CA00
quazite.com		◆ Junction Box w/Cover	♦ PC0608Z503831
		OD - 9 X 11 X 7 ½" ID - 7 3/8 X 93/8 X 6 ½"	Cover Imprinted "Danger High Voltage –Illumination"



Item 620 - Electrical Conductors

General

The following products are pre-qualified for use on projects where Conductors are furnished or installed as required by the item descriptive code. Where splicing materials, insulating materials, GelCaps, fuse holders or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Item 620 - Conductors - Type XHHW

Manufacturer	Brand	Туре	Model
American Insulated Wire Co.	American	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil
Bought out by Southwire Corp.			◆ 6 AWG & 8AWG Available in Black Only American will continue to be pre-
Encore Wire	F	♦ XHHW-2 Or	qualified until stock is depleted.
1410 Millwood Rd. McKinney, TX 75069 (800) 962-9473	Encore	• XHHW	♦ Available in 14 AWG through 1000 kcmil
encorewire.com	*		
Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 servicewire.com	Service Wire	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil
Southwire Corporation 1 Southwire Division	Southwire	◆ XHHW-2 Or ◆ XHHW	♦ Available in 14 AWG through 1000 kcmil
Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 southwire.com			♦ 6 AWG & 8AWG Available in Black Only
Advanced Digital Cable Inc.	Advanced	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil
94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579	Digital	▼ A⊓⊓W	KCIIII
advanceddigitalcable.com			

Item 620 - Conductors - Type XHHW

Manufacturer	Brand	Туре	Model
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (570) 385-4381 drakausa.com	Draka	◆ XHHW-2	◆ 8 AWG Black 6200110BK ◆ 8 AWG White 6200110WH ◆ 8 AWG Red 6200110RD ◆ 8 AWG Green 6200110GN ◆ 6 AWG Black 6200359BK ◆ 6 AWG White 6200359WH ◆ 6 AWG Red 6200359RD ◆ 6 AWG Green 6200359GN ◆ 4 AWG Black 6200020BK ◆ 4 AWG White 6200020BK ◆ 4 AWG White 6200020WH ◆ 4 AWG Red 6200020RD ◆ 4 AWG Red 6200020RD ◆ 2 AWG Red 6200067BK ◆ 2 AWG White 6200067WH ◆ 2 AWG Red 6200067RD ◆ 2 AWG Red 6200067RD ◆ 3 AWG Red 6200067RD ◆ 4 AWG Bare 113-0007-168 ◆ 6 AWG Bare 113-0007-146 ◆ 4 AWG Bare 113-0007-100
Falcon Fine Wire 2401 Discovery Blvd. Rockwall, TX 75032 (800) 874-7230 (214) 771-3441 falconfinewire.com	Falcon	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 4000 kcmil Available Jacket Colors: Black, Red. White, Green 3090194 – ETL Number Will Be Printed On Jacket

Item 620 - Conductors - Type XHHW

Manufacturer	Brand	Туре	Model
Republic Wire Inc.	Republic Wire Inc.	♦ XHHW-2 Or ♦ XHHW	♦ Available in 8 AWG through 2 AWG
5525 Union Centre Drive West Chester, OH 45069 (513) 860-1800			Available Jacket Colors: Black, Red. White, Green ◆ Available in 1/0 AWG through 750 Kcmil
republicwire.com			Available in Black Only ◆ Bare Copper
			Soft Drawn Solid and Stranded 8AWG - 2AWG
Coleman Cable, Inc.	CCI	♦ XHHW-2	Available in Black Only

1530 Shields Drive Waukegan, IL 60085 (800) 325-9355

colemancable.com

- ♦ 8 AWG 18080
- 6 AWG 18060
- ♦ 4 AWG 18040
- 2 AWG 18020
- 1 AWG 18010
- ♦ 1/0 AWG 18100
- ♦ 2/0 AWG 18200
- ♦ 3/0 AWG 18300
- ♦ 4/0 AWG 18400
- ♦ 250 MCM 18250
- ♦ 350 MCM 18350
- ♦ 400 MCM 18440
- ♦ 500 MCM 18500
- ◆ Bare Copper

Solid and Stranded 8 AWG – 4AWG Stranded 2 AWG – 600 kcmil

Item 620 - Breakaway Fuse-holders				
Manufacturer	Brand	Туре	Model	
Eaton -Bussmann Series	Bussmann	◆ Double-pole	♦ HEX-KW-DRYC – used when no neutral is required	
114 Old State Road				
Ellisville, M0 63021 (855) 287-7626		◆ Double-pole	♦ HEN-KW-DRYC – used when neutral is present	
cooperindustries.com			Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and nonbreakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID sheets are in plan set.	
Littelfuse Inc. 800 E. Northwest Highway	Littelfuse	◆ Double-pole	OLEXYYCSX – used when no neutral is required	
Des Plaines, IL 60016-3096 (847) 824-1188		◆ Double-pole	◆ LEXTOYYSX – used when neutral is present	
littelfuse.com		8	Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP	

and RID are in the plan set.

Item 620 - Breakaway Fuse-holders

	akaway ruse-nolders	
Brand	Туре	Model
Ferraz Shawmut	◆ Double-pole	◆ FEX-91-91-BA – used when no neutral is required
	◆ Double-pole	♦ FEXN-91-91-BA – used when neutral is present
		Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and nonbreakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To
		be used when TxDOT Standards RIP and RID are in the plan set.
Ideal- Buchanan SLK	◆ Double-pole◆ Double-pole	 → 30-S2222D – used when no neutral is required → 30-S2222P – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG.
		These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP and RID are in the plan set.
	Ferraz Shawmut Ideal- Buchanan	Ferraz Shawmut Double-pole Double-pole Ideal-Buchanan SLK

Item 621 - Tray Cable

General

The following products are pre-qualified for use on projects where Tray Cable is furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Item 621 - Tray Cable- XHHW Conductors with Overall PVC Jacket				
Manufacturer	Brand	Туре	Model	
American Insulated Wire Co.	American	◆ Tray Cable – Power Cable – XLP	◆ Available in 14 AWG through 500 kcmil	
Bought out by Southwire Corp.		XHHW-2 Insulation, PVC Jacket, Copper Conductors	American will continue to be prequalified until stock is depleted.	
Service Wire Company	Service Wire	◆ Tray Cable – Power Cable – XLP	◆ Available in 14 AWG through 750 kcmil	
310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 servicewire.com		XHHW-2 Insulation, PVC Jacket, Copper Conductors		
Southwire Corporation	Southwire	Tray Cable - Power Cable - XLP	◆ Available in 14 AWG through 500 kcmil	
1 Southwire Division		XHHW-2 Insulation,		

Southwire Corporation	Southwire	Tray Cable - Power Cable - XLP	♦ Available in 14 AWG through 500 kcmil
1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 southwire.com	<i>'</i> , ', ', ', ', ', ', ', ', ', ', ', ', ',	XHHW-2 Insulation, PVC Jacket, Copper Conductors	
Advanced Digital Cable Inc.	Advanced Digital	◆ Tray Cable - Power Cable - XLP	♦ Available in 12 AWG -3 and 4 conductor
94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579		XHHW Insulation, PVC Jacket, Copper Conductors	

advanceddigitalcable.com

Item 622 - Duct Cable

General

The following products are pre-qualified for use on projects where Duct Cable is furnished or installed as required by the item descriptive code. Where connectors are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed.

Item 622 - Duct Cable with Type XHHW Conductors

item 622 -	Duct Cable	with Type AHHW Cond	uctors
Manufacturer	Brand	Туре	Model
Dura-line 11400 Parkside Dr. Suite 300 Knoxville, TN. 37934 (865) 218-3460 (800) 847-7661 duraline.com Formerly A-D Technologies Name change on MPL Jan. 2014	Dura-line	Duct Cable – HDPE with XHHW Conductors Installed	◆ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved"
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 bdiky.com	Blue Diamond	Duct Cable – HDPE with XHHW Conductors Installed	◆ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved"
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (800) 233-3190 drakausa.com	Draka	◆ Duct Cable - HDPE with XHHW Conductors Installed	◆ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved"

Item 622 - Duct Cable with Type XHHW Conductors

Manufacturer	Brand	Туре	Model
Southwire Corporation	SIMpull	◆ Duct Cable – HDPE with XHHW Conductors	◆ Size of Duct and Conductors as Shown In the Plans. Specify Duct and
One Southwire Drive Carrolton, GA 30119 (770) 832-4242		Installed	Conductor Size and Color and Number of Conductors Needed When Ordering.
southwire.com			Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be "TxDOT" or "TxDOT Approved"



Item 624 - Ground Boxes

General

The following products are pre-qualified for use on projects where Ground Boxes are furnished or installed as required by descriptive code. Products are subject to testing. No substitutions will be allowed for Types A through E as listed below. For types not listed below, applicable TxDOT standards and specifications will apply.

Item 624 - Ground Boxes - Precast Polymer Concrete

10111 02 1	irouria Boxe	s – Trecast Folymer C	01101010
Manufacturer	Brand	Туре	Model
Hubbell	Hubbell Quazite	◆ A ◆ B ◆ C	 ◆ PG1324B512 / PG1324H506 ◆ 2PG1324B512 / PG1324H506 ◆ PG1730B512 / PG1730H507
3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062		• D • E	◆ PG1730B517 / PG1730H507 ◆ PG1324B514 / PG1324H506
quazite.com		Cover For Type A, B & E	◆ PG1324H5064A (Danger High Voltage FTM)◆ PG1324H5064B (Danger High
			Voltage Irrigation) ◆ PG1324H5064D(Danger High Voltage Illumination) ◆ PG1324H5064E (Danger High Voltage Traffic Signal)
			 ◆ PG1324H5064G (Danger High Voltage Sign Lighting) ◆ PG1324H506H7 (Danger High Voltage)
2		Cover For Type C & D	◆ PG1730H5074A (Danger High Voltage FTM) ◆ PG1730H5074B (Danger High Voltage Irrigation)
)		 ◆ PG1730H5074D (Danger High Voltage Illumination) ◆ PG1730H5074E (Danger High Voltage Traffic Signal) ◆ PG1730H5074G (Danger High Voltage Sign Lighting) ◆ PG1730H507H7 (Danger High Voltage)

Item 624 - Ground Boxes - Precast Polymer Concrete

Manufacturer	Brand	Туре	Model
Armorcast Products Company 13230 Saticoy St. North Hollywood, CA. 91605 (818) 982-3600 armorcastprod.com	Armor cast	◆ A ◆ B ◆ C ◆ D ◆ E Cover For All Boxes	 ↑ A6001946TAPCX12 ↑ A6001946TAPCX24 ↑ A6001640TAPCX12 ↑ A6001640TAPCX22 ↑ A6001946TAPCX18 ↑ All Covers Read "Danger High Voltage." Additional Logos Added Per Job Spec.
NewBasis 2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747	NewBasis	↑ A↑ B↑ C↑ D↑ E	◆ PCB132412G482 ◆ (2) PCB132412G482 ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482 ◆ PCC1324DLA528- DANGER HIGH

newbasis.com

Cover For Type A, B & E

Cover For Type C & D

- ◆ PCC1324DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS
- ◆ PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION
- ◆ PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT
- ◆ PCC1324DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
- ♦ PCC1730DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS
- ◆ PCC1730DCA528- DANGER HIGH VOLTAGE/ILLUMINATION
- ◆ PCC1730DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT
- ◆ PCC1730DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Item 624 - Ground Boxes - Precast Polymer Concrete

itom oz i	around boxe	o i robaber biyinlor b	01101010
Manufacturer	Brand	Туре	Model
Synertech Moulded Products	Synertech	♦ A	♦ S132412HH90
		♦ B	♦ S132424HH90
2 Inverness St.		♦ C	♦ S173012HH90
Candiac, Quebec Canada J5R		♦ D	♦ S173024HH90
4WS		◆ E	♦ S132418HH90
Toll Free (888) 868-5214			
			♦ S1324HBB0A90- DANGER HIGH
synertechproducts.com			VOLTAGE/TRAFFIC SIGNAL
		Cover For Type A, B & E	♦ S1324HBB0A91- DANGER HIGH
			VOLTAGE/ILLUMINATION
			♦ S1324HBB0A92- DANGER HIGH
			VOLTAGE/TRAFFIC MANAGEMENT
			♦ S1324HBB0A93- DANGER HIGH
			VOLTAGE/SIGN ILLUMINATION
			♦ S1730HBB0A90- DANGER HIGH
			VOLTAGE/TRAFFIC SIGNALS
		Cover For Type C & D	S1730HBB0A91- DANGER HIGH
		•	VOLTAGE/ILLUMINATION
			♦ S1730HBB0A92- DANGER HIGH
			VOLTAGE/TRAFFIC MANAGEMENT
			♦ S1730HBB0A93- DANGER HIGH
			VOLTAGE/SIGN ILLUMINATION

Item 624 - Ground Boxes - Precast Polymer Concrete

10111 024	ilouliu boxe	25 Trocastrolymore	onorete
Manufacturer	Brand	Туре	Model
Oldcastle Enclosure Solutions	Oldcastle	♦ A	♦ 13242030
		♦ B	♦ 13242032
2434 Rubidoux Blvd.		♦ C	♦ 17302061 • 17302061
Riverside, CA. 92509		♦ D	♦ 17302063 • 183143331
(800) 735-5566		♦ E	♦ 13242031
(713) 875-8030			♦ 13244159- DANGER HIGH
oldcastleprecast.com			VOLTAGE/TRAFFIC SIGNALS
<u>oldcastieprecast.com</u>		Cover For Type A, B & E	♦ 13244156- DANGER HIGH
Carson Industries, LLC.		cover for type n, b a L	VOLTAGE/ILLUMINATION
is now Oldcastle Enclosure			♦ 13244158- DANGER HIGH
Solutions 8-29-2013			VOLTAGE/TRAFFIC MANAGEMENT
Model numbers are the same			♦ 13244157- DANGER HIGH
			VOLTAGE
			♦ 17304185- DANGER HIGH
			VOLTAGE/TRAFFIC SIGNALS
		Cover For Type C & D	17304183- DANGER HIGH
			VOLTAGE/ILLUMINATION
			♦ 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT
			◆ 17304272- DANGER HIGH
			VOLTAGE
CDR Systems Corporation	cdr	♦ A	♦ SB14-1324-12-0287
		◆ B	♦ SB14-1324-12-0287 - 2 boxes
146 South Atlantic Ave.			stacked
Ormond Beach, FL. 32176		+ C	♦ SB14-1730-12-0494
(386) 615-9510	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	, p	♦ SC14-1730-22-0499
-4		♦ E	♦ SB14-1324-18-0288
<u>cdrsystems.com</u>		Cover For Type A, B & E	♦ SC12-1324-02
		cover for type n, b a L	V 0012 102+ 02
		Cover For Type C & D	♦ SC12-1730-02
		Cover For All Boxes	◆ All Covers Read "Danger High
		COVERT OF AIR DUNCS	Voltage." Additional Logos Added Per
			Job Spec.
			•

Item 624 - Ground Boxes - Precast Polymer Concrete

item 624 - 0	rouna Boxe	es – Precast Polymer C	oncrete
Manufacturer	Brand	Туре	Model
Highline Products, Inc.	Highline	♦ A	♦ PHA132412HTD-XX
404 !! !! 4		♦ B	♦ PHA132424HTD-XX
131 Hartwell Ave.		♦ C ♦ D	◆ PHA173012HTD-XX◆ PHA173024HTD-XX
Lexington, MA. 02421 (781) 328-3220		♦ E	♦ PHA173024HTD-XX
(101) 320-3220		V L	VITIALOZ410IIID/W
highlineproducts.com		Cover Logo Information XX in each model will be replaced with:	
			◆ DANGER HIGH VOLTAGE
		♦ 20	
			◆ DANGER HIGH VOLTAGE/
		♦ 21	ILLUMINATION
		♦ 22	◆ DANGER HIGH VOLTAGE/ SIGN ILLUMINATION
		• 23	DANGER HIGH VOLTAGE/ TRAFFIC MANAGEMENT
		• 24	◆ DANGER HIGH VOLTAGE/ TRAFFIC SIGNALS
		Ordering covers only, Contact Manufacturer	
Duravault	Duravault	♦ A	◆ PC132412STBTXD-XX (122311)
310 Weathers Dr.		♦ B	◆ PC132422STBTXD-XX (122322)◆ PC173012STBTXD-XX (162911)
Laredo, TX. 78045	* *	D	◆ PC17301231BTXD-XX (162911) ◆ PC173022STBTXD-XX (162922)
(885) 250-3993		E	◆ PC132418STBTXD-XX (122317)
		•	,
<u>duravault.com</u>		Cover Logo Information XX in each model will be replaced with: Cover For Type A, B & E	
			◆ PCC1324BTXD-TS/ TRAFFIC
		Cover For Type C & D	SIGNAL ◆ PCC1324BTXD-IL/ ILLUMINATION
		Cover For Type C & D	◆ PCC1324BTXD-TL/ TELEDININATION ◆ PCC1324BTXD-TM/ TRAFFIC
•			MANAGEMENT
			♦ PCC1324BTXD-SI/ SIGN
			ILLUMINATION
			◆ PCC1730BTXD-TS/ TRAFFIC
			SIGNAL
		Cover For All Boxes	◆ PCC1730BTXD-IL/ ILLUMINATION
			◆ PCC1730BTXD-TM/ TRAFFIC
			MANAGEMENT A PCC1730RTYD-SL/ SIGN
			♦ PCC1730BTXD-SI/ SIGN ILLUMINATION
			All Covers Read "DANGER HIGH
			VOLTAGE"

Item 624 - Ground Boxes - Precast Polymer Concrete

Manufacturer	Brand	Туре	Model
Martin Enterprises	Martin	♦ A	♦ 1324/12 PC Type A Tier 15 Rated
19940 Hansen Avenue		◆ B ◆ C ◆ D	◆ 1324/24 PC Type B Tier 15 Rated ◆ 1730/18 PC Type C Tier 15 Rated ◆ 1730/24 PC Type D Tier 15 Rated
Nuevo, CA 92567 (951) 928-8413		◆ E	 ◆ 1730/24 PC Type D Tier 15 Rated ◆ 1324/18 PC Type E Tier 15 Rated
martinfrp.com			♦ 1324 Cover Traffic Signal /
			DANGER - HIGH VOLTAGE/TRAFFIC SIGNALS
		Cover For Type A, B & E	◆ 1324 Cover Illumination / DANGER- HIGH VOLTAGE/ILLUMINATION
			◆ 1324 Cover Traffic Management / DANGER - HIGH VOLTAGE/TRAFFIC
			MANAGEMENT
			◆ 1730 Cover Traffic Signal / DANGER - HIGH VOLTAGE/TRAFFIC
		Cover For Type C & D	SIGNALS ♦ 1730 Cover Illumination / DANGER
			- HIGH VOLTAGE/ILLUMINATION
		'	◆ 1730 Cover Traffic Management / DANGER - HIGH VOLTAGE/TRAFFIC MANAGEMENT
			•

Item 628 - Electrical Services

General

The following products have been tested and are pre-qualified for use on projects where Electrical Services are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Item 628 - Electrical Service

	16111 020 -	Electrical Service	
Manufacturer	Brand	Туре	Model
Electrol Systems	Electrol	♦ A	◆ ELECTROL TYPE A-TXDOT
10623 Sentinel Drive		♦ C	◆ ELECTROL TYPE C-TXDOT
San Antonio, TX 78217 (210) 599-6485 (888) 853-8944		◆ C- Auxiliary Only	ELECTROL TYPE C- Auxiliary Only – TXDOT
(555) 555 55 11		♦ D	◆ ELECTROL TYPE D-TXDOT
<u>electrolsystems.com</u>		◆ T- Auxiliary Only	◆ ELECTROL TYPE T- Auxiliary Only - TXDOT
		◆ T-All in One	♦ ELECTROL TYPE T- ALL IN ONE ENCLOSURE -TXDOT
		♦ A-Pedestal	◆ ELECTROL TYPE A-PEDESTAL-TXDOT
		D-Pedestal	♦ ELECTROL TYPE D-PEDESTAL- TXDOT
WE Manufacturing	WE	♦ A	♦ WE TYPE A-TXDOT
5535 Harvey Wilson Drive Houston , TX 77020)	♦ C	♦ WE TYPE C-TXDOT
(713) 676-2298 (800) 880-9453		◆ C- Auxiliary Only	♦ WE TYPE C- Auxiliary Only -TXDOT
wemanufacturing.com		♦ D	♦ WE TYPE D-TXDOT
		♦ T- Auxiliary Only	♦ WE TYPE T- Auxiliary Only -TXDOT
		◆ T-All in One	♦ WE TYPE T- ALL IN ONE ENCLOSURE -TXDOT
		♦ A - Pedestal	♦ WE TYPE A- PEDESTAL - TXDOT
		♦ D-Pedestal	♦ WE TYPE D-PEDESTAL – TXDOT

Item 628 - Electrical Service

item 628 - Electrical Service					
Manufacturer	Brand	Туре	Model		
Mica Corporation	Mica	♦ A	♦ MICA TYPE A-TXDOT		
P.O. Box 161609		♦ C	♦ MICA TYPE C-TXDOT		
Fort Worth , TX 77020 (817) 847-6121		♦ D	♦ MICA TYPE D-TXDOT		
(817) 577-2088		▼ D	▼ IVIICA TTPE D-TXDOT		
		◆ T- Auxiliary Only	♦ MICA TYPE T- Auxiliary Only -TXDOT		
micacorporation.com		◆ T-All in One	♦ MICA TYPE T- ALL IN ONE ENCLOSURE -TXDOT		
Specialty Control Systems	SCS	♦ A	◆ SCS TYPE A-TXDOT		
629 SH 3		♦ D	◆ SC\$ TYPE D-TXDOT		
League City , TX 77573 (281) 332-0999		♦ T-All in One	◆ SCS TYPE T- ALL IN ONE ENCLOSURE -TXDOT		
specialtycontrol.com		◆ D-Pedestal	◆ SCS TYPE D-PEDESTAL-TXDOT		
Tesco Controls, Inc.	Tesco	◆ A-Pedestal	◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240)		
3434 52 nd Ave. Sacramento , CA 95823 (916) 395-8800		◆ A-Pedestal	◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480)		
tescocontrols.com		◆ C-Pedestal	◆ TESCO TYPE C-PEDESTAL-TXDOT		
	*	D-Pedestal	♦ TESCO TYPE D-PEDESTAL-TXDOT		
Myers Power Products, Inc.	Myers	◆ A-Pedestal	♦ MEUG16 TYPE A-PEDESTAL-TXDOT		
725 E. Harrison St.		◆ D-Pedestal	♦ MEUG16 TYPE D-PEDESTAL-TXDOT		
Corona , CA 92879 (951) 520-1900		♦ D	◆ MYERS TYPE D-TXDOT		
(866) 696-9377		▼ D	* MILENO I II E D-IADOI		
myerspowerproducts.com		♦ A	◆ MYERS TYPE A-TXDOT		

Item 628 - Electrical Service

Item 628 - Electrical Service				
Manufacturer	Brand	Туре	Model	
Associated Starters & Controls	ASC	♦ A	♦ ASC TYPE A-TXDOT	
310 Breesport, Ste. D		♦ C	◆ ASC TYPE C-TXDOT	
San Antonio , TX 78216 (210) 798-1334		♦ D	◆ ASC TYPE D-TXDOT	
(888) 798-1334		♦ T	◆ ASC TYPE T-TXDOT	
		♦ T-Auxiliary	◆ ASC TYPE T-AUX-TXDOT	
		♦ A - Pedestal	◆ ASC TYPE A-PEDESTAL - TXDOT	
		♦ D - Pedestal	◆ ASC TYPE D-PEDESTAL - TXDOT	
Milbank Manufacturing Co.	Milbank	♦ A - Pedestal	◆ MB TYPE A-PEDESTAL -TXDOT (120/240)	
4801 Deramus Kansas City , MO 64120 (816) 483-5314 (Main Switch Board)		♦ A - Pedestal	◆ MB TYPE A-PEDESTAL -TXDOT (240/480)	
(660) 463-0800 (Commercial Pedestal)		◆ D - Pedestal	◆ MB TYPE D-PEDESTAL -TXDOT (120/240)	
milbankmfg.com				
Dynamic Automation & Controls	Dynamic Automation &	`	◆ TYPE A-POLE MOUNT	
10560 Sentinel San Antonio , TX 78217	Controls	♦ A-Pedestal	♦ TYPE A-PEDESTAL	
(210) 267-2489 (855) 465-6099		• D	♦ TYPE D-POLE MOUNT	
dynamic-ac.com		◆ D-Pedestal	◆ TYPE D-PEDESTAL	

Item 628 - Photoelectric Control - Photocell

Manufacturer	Brand	Туре	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 tork.com	Tork	♦ 120-277 Volt Photocell	◆ S895 or ◆ NSI-TORK S895 * * Tork bought out by NSI
American Electric Lighting / DTL	DTL	♦ 120-277 Volt Photocell	♦ DUX124 -12A30

P.O. Box 3004 Newark, OH 43800 (800) 754-0463

darktolight.com

Tyco Electronics	Area	♦ 120-277 Volt	ALR-SST-PV-IES-UL
Tyco Liectroffics			
	Lighting	Photocell	(3E7425-000)
8000 Purfoy Rd.	Research		
Fuquay-Varina, NC 27526	Tyco		
(919)557-8459	•		1)
(919)551-6459			
tycoelectronics.com			
tycoelectronics.com			

Item 685 - Roadside Flashing Beacon Assemblies

General

The following products are pre-qualified for use on projects where Roadside Flashing Beacon Assemblies are furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Item 685 - Breakaway Holder - Non Fused

	icom oco Broakaway Holder Holler account					
Manufacturer	Brand	Туре	Model			
Mersen USA	Ferraz Shawmut	♦ Single Pole	◆ FEB-81-81-BA when fused use slug			
374 Merrimac Street			◆ FEBN-81-81-BA for neutral (non-			
Newburyport, MA 01950		♦ Single Pole	fused)			
(978) 462-6662						
ep-us.mersen.com		◆ Dummy Fuse (Slug)	♦ MNL30 - Slug			
Ferraz Shawmut is Now			These breakaway connectors are to be used			
Mersen.		V	when required by TxDOT Standards			
Parent Company name change only. Brand of			RFBA and SPRFBA. Installing contractor to			
connector is still			supply			
Ferraz Shawmut.			dummy fuse-(slug).			
Littelfuse Inc.	Littelfuse	◆ Single Pole	♦ LEB-JJ-S-WPB1 when fused use slug			
800 E. Northwest Highway		♦ Single Pole	♦ LET-JJ-S-WPB1 for neutral (non-			
Des Plaines, IL 60016-3096			fused)			
(847) 824-1188 littelfuse.com		◆ Dummy Fuse (Slug)	♦ Not available at this time			
<u>Itterfuse.com</u>			These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA.			
			Installing contractor to supply dummy fuse-(slug).			

Item 685 - Breakaway Holder - Non Fused

Manufacturer	Brand	Туре	Model
Eaton - Bussmann Series	Bussmann	♦ Single Pole	♦ HEB-JW-RLC-J when fused use slug
114 Old State Road Ellisville, MO 63021 (855) 287-7626		♦ Single Pole	♦ HET-JW-RLC-J for neutral (non-fused)
cooperindustries.com		◆ Dummy Fuse (Slug)	♦ NNB - Slug
			These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA. Installing contractor to supply dummy fuse-(slug).
Ideal Industries, Inc.	ldeal – Buchanan	♦ Single Pole	♦ 30-S1212 when fused use slug
1375 Park Avenue Sycamore, IL 60178	SLK	♦ Single Pole	◆ 30-S1212N for neutral (non-fused)
(800) 435-0705		◆ Dummy Fuse (Slug)	◆ Not available at this time

idealindustries.com

These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA. Installing contractor to supply dummy fuse-(slug).

Item 685 - Pedestal Pole Base

Manufacturer	Brand	Туре	Model
Akron Foundry Company	Akron	◆ Pedestal Pole Base	◆ TS-1000
2729 Wingsto Avo			
2728 Wingate Ave.			
Akron, OH 44314		◆ Pedestal Pole Base	♦ TS-1000-L
(330) 745-3101		with Extended Neck	
almonform dury ages			
<u>akronfoundry.com</u>			
Pelco Products, Inc.	Pelco	◆ Pedestal Pole Base	◆ SP-1014 -TX

320 W. 18th Street Edmond, OK 73013 (405) 340-3434

pelcoinc.com

Component Products, Inc.	CPI	◆ Pedestal Pole Base
521 Morse Avenue		
Schaumburg, IL 60193		◆ Pedestal Pole Base
(800) 807-6537		with Extended Neck
(847) 301-1000		
componentproducts.com		

Item 687 - Pedestal Pole Assemblies

General

The following products are pre-qualified for use on projects where Pedestal Pole Bases are furnished or installed as required by the item descriptive code. Where Pedestal Poles are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Item 687 - Pedestal Pole Base

Manufacturer	Brand	Туре	Model
Akron Foundry Company	Akron	◆ Pedestal Pole Base	◆ T\$-1000
2728 Wingate Ave.		,	
Akron, OH 44314 (330) 745-3101		♦ Pedestal Pole Base	♦ TS-1000-L
(550) 745-5101		with Extended Neck	
akronfoundry.com		0.5	
Pelco Products, Inc.	Pelco	◆ Pedestal Pole Base	♦ SP-1014 -TX
320 W. 18th Street Edmond, OK 73013 (405) 340-3434			
pelcoinc.com		7	
Component Products, Inc.	CPI	◆ Pedestal Pole Base	♦ CPI-BAS-1P (TXDOT)
521 Morse Avenue			
Schaumburg, IL 60193 (800) 807-6537		♦ Pedestal Pole Base with Extended Neck	♦ CPI-BAS-1-PX (TXDOT)
(847) 301-1000		With Extended Frook	
componentproducts.com			