

**Roadway Illumination and Electrical Supplies
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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://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	Type	Model
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ UDP-165-QL-GR
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	<ul style="list-style-type: none"> ◆ 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 	<ul style="list-style-type: none"> ◆ 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	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ SP2343

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
<p>H.E. Williams</p> <p>831 W. Fairview Ave. P.O. Box 837 Carthage, MO 64836 (417) 358-4065</p> <p>http://www.hew.com</p>	<p>Infinity</p>	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture ◆ BB Box Beam ◆ BD Bridge Deck ◆ UB U-Beam 	<ul style="list-style-type: none"> ◆ ICERL1-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL3-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL5-150S-41K-BAT/CG1-14DEG-UNV
<p>Eaton (formerly Cooper)</p> <p>1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800</p> <p>http://www.cooperindustries.com/content/public/en/lighting/brands/streetworks.html</p>	<p>Fail-Safe</p>	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ TF28-150ICE-UNV-A1432

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Roadway Illumination Assemblies – Luminaire			
Manufacturer	Brand	Type	Model
<p>Eaton (formerly Cooper)</p> <p>1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800</p> <p>http://www.cooperindustries.com/content/public/en/lighting/brands/streetworks.html</p>	Streetworks	<ul style="list-style-type: none"> ◆ 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 	<ul style="list-style-type: none"> ◆ OVW15SMJ3DD0004 ◆ OVW25SMG2DD0001 ◆ OVW25SMJ2DD0002 ◆ OVW40SMG2DD0005 ◆ OVW40SMJ2DD0003
<p>G.E. Lighting Systems, Inc.</p> <p>3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372</p> <p>http://www.gelightingsystems.com</p>	M4RC	<ul style="list-style-type: none"> ◆ 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 	<ul style="list-style-type: none"> ◆ 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
<p>Holophane</p> <p>3825 Columbus Road SW Granville, OH 43023 (740) 587-4030 FAX (866) 761-9819</p> <p>http://www.holophane.com</p>	Mongoose	<ul style="list-style-type: none"> ◆ 250W HPS- 120 Volt ◆ 250W HPS- 240 Volt ◆ 250W HPS- 480 Volt ◆ 400W HPS- 120Volt ◆ 400W HPS- 240Volt ◆ 400W HPS- 480 Volt 	<ul style="list-style-type: none"> ◆ G25RHP12LNRHGBR-TXDOT ◆ G25RHP24LNRHGBR-TXDOT ◆ G25RHP48LNRHGBR-TXDOT ◆ G40RHP12LNRHGBR-TXDOT ◆ G40RHP24LNRHGBR-TXDOT ◆ G40RHP48LNRHGBR-TXDOT

Roadway Illumination Assemblies – LED Luminaire			
Manufacturer	Brand	Type	Model
<p>TraStar</p> <p>860 N. Dorothy Drive #600 Richardson, TX 75081 (972) 480-0888</p> <p>http://www.trastarusa.com</p>	Duralight	<ul style="list-style-type: none"> ◆ 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- 480 Volt; LLF=0.86 ◆ 400W EQ LED- 120/240 Volt; LLF=0.86 ◆ 400W EQ LED- 480 Volt; LLF=0.86 	<ul style="list-style-type: none"> ◆ JXM-ST140-3-40K-120-3-GR-SCLBTX ◆ JXM-ST140-3-40K-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
<p>Eaton (formerly Cooper)</p> <p>1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800</p> <p>http://www.cooperindustries.com/content/public/en/lighting/brands/streetworks.html</p>	Streetworks	<ul style="list-style-type: none"> ◆ 150W EQ LED-120/240 VOLT LLF=0.86 ◆ 150W EQ LED-480 VOLT LLF=0.86 ◆ 250W EQ LED-120/240 VOLT LLF=0.816 ◆ 250W EQ LED-480 VOLT LLF=0.816 ◆ 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- 480 Volt; LLF=0.86 ◆ 400W EQ LED- 120/240 Volt; LLF=0.86 ◆ 400W EQ LED- 480 Volt; LLF=0.86 ◆ 400W EQ LED- 120/240 Volt; LLF=0.85 ◆ 400W EQ LED- 480 Volt; LLF=0.85 	<ul style="list-style-type: none"> ◆ 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

Roadway Illumination Assemblies – LED Luminaire			
Manufacturer	Brand	Type	Model
GreenStar 6900 Alamo Downs Pkwy Suite 120 San Antonio, TX 78238 http://greenstarled.com	GreenStar	<ul style="list-style-type: none"> ◆ 150W EQ LED- 120/240 Volt; LLF=0.74 ◆ 150W EQ LED- 480 Volt; LLF=0.74 ◆ 250W EQ LED- 120/240 Volt; LLF=0.74 ◆ 250W EQ LED- 480 Volt; LLF=0.74 ◆ 400W EQ LED- 120/240 Volt; LLF=0.74 ◆ 400W EQ LED- 480 Volt; LLF=0.74 	<ul style="list-style-type: none"> ◆ XAVX08431SNXXI ◆ XAVH08434SNXXI ◆ XAVX12431SNXXI; old part # AV12431SN ◆ XAVH12434SNXXI; old part # AV12434SN ◆ XAVX20431SNXXI ◆ XAVH20434SNXXI
GE Lighting Solutions 3010 Spartanburg Hwy East Flat Rock, NC 28726 http://www.gelighting.com	Evolve	<ul style="list-style-type: none"> ◆ 150W EQ LED - 120V; LLF=0.80 ◆ 150W EQ LED - 240V; LLF=0.80 ◆ 150W EQ LED - 480V; LLF=0.80 ◆ 250W EQ LED - 240V; LLF=0.79 ◆ 250W EQ LED - 480V; LLF=0.79 ◆ 400W EQ LED - 240V; LLF=0.70 ◆ 400W EQ LED - 480V; LLF=0.70 	<ul style="list-style-type: none"> ◆ ERS11B3D17404GRAY120 ◆ ERS13B3D17404GRAY120 ◆ ERS15B3D17404GRAY081 ◆ ERS20E3E17404GRAY083 ◆ ERS2HE3E17404GRAY134 ◆ ERS20H3E11404GRAY135 ◆ ERS2HH3E11404GRAY136

High Pressure Sodium Lamps			
Manufacturer	Brand	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	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 67312 - LU400/PLUS/ECO ◆ 67572 - LU250/PLUS/ECO ◆ 67494 -LU150/55/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	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 14743-9 – C400S51/ALTO NC HPS ◆ 14742-1 – C250S50/ALTO NC HPS ◆ 14741-3 – C150S55/ALTO NC HPS
GE Lighting Nela Park, 1975 Noble Rd. Cleveland, OH 44112 (216) 266-2121 http://www.gelighting.com	GE – EcoluxNC™	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 14675 – LU400/ECO/NC ◆ 14674 – LU250/ECO/NC ◆ 40390 – LU150/55/ECO/NC

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 ◆ NSI-TORK S895 * * 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)

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Eaton –Bussmann Series 114 Old State Road Ellisville, MO 63021 (855) 287-7626 http://www.cooperindustries.com/content/public/en/bussmann/electrical.html	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>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.</p>
Littelfuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littelfuse.com	Littelfuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ OLEXYCSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>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.</p>
Mersen USA 374 Merrimac Street Newburyport, MA 01950 (978) 462-6662 http://www.ferrazshawmut.com Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut.	Ferraz Shawmut	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ FEX-91-91-BA – used when no neutral is required ◆ FEXN-91-91-BA – used when neutral is present <p>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.</p>

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Ideal Industries, Inc. 1 Becker Place Sycamore, IL 60178 (800) 435-0705 http://www.idealindustries.com/	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.

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Optional and Non-Standard Illumination Pole Designs and Shop Drawings			
Manufacturer	Brand	Type	Model
Hapco 26252 Hillman Highway Abingdon, VA 24210 (800) 368-7171 http://www.hapco.com/	Hapco	♦ 40 Ft.-Aluminum - T-Base mounted with (1) 8Ft. Arm Only	♦ Based on Drawing # B15138 and B15136

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Breakaway Transformer Base			
Manufacturer	Brand	Type	Model
Akron Foundry Co. 2728 Wingate Ave. Akron, OH 44314 (330) 745-3101 http://www.akronfoundry.com	Akron	<ul style="list-style-type: none"> ◆ Breakaway Transformer Base for Luminaire Poles Less Than 40 Foot Height ◆ Breakaway Transformer Base for Luminaire Poles 40 to 50 Foot Height 	<ul style="list-style-type: none"> ◆ TB1-17 ◆ TB3-17

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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.

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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	Type	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 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 – EcoluxNG™	◆ 400 Watt Lamp	◆ 14675 – LU400/ECO/NC

High Mast Kit

Manufacturer	Brand	Type	Model
<p>Mica Corporation</p> <p>5750 N. Riverside Dr. Fort Worth, TX 76137 (817) 577-2088</p> <p>http://www.micacorporation.com</p>	<p>Mica Corporation</p>	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-PH ◆ HMK-150-PH ◆ HMK -175-PH
<p>Carolina High Mast, Inc.</p> <p>700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046</p>	<p>Carolina High Mast, Inc.</p>	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-CHMI ◆ HMK-150-CHMI ◆ HMK -175-CHMI
<p>Rexel</p> <p>2400 Brockton San Antonio, TX 78217 (210) 352-1047</p> <p>http://www.rexelusa.com</p>	<p>Rexel</p>	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-RX ◆ HMK-150-RX ◆ HMK -175-RX

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High Mast Kit

Manufacturer		Type	
<p>Wildcat Electric Supply, Ltd. 2061 Clovis Barker Road #5. San Marcos, TX 77666 (512) 396-8900 (866) 301-5200 http://www.wildcatelectric.com</p>	<p>Wildcat</p>	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-WC ◆ HMK-150-WC ◆ HMK -175-WC
<p>Stratus Products Division of Structural & Steel Products, Inc 1320 South University Suite 701 Fort Worth, TX 76107 (800) 782-5804 http://stratusprod.com</p>	<p>Stratus Products</p>	<ul style="list-style-type: none"> ◆ High Mast – 100 Foot ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-100-SSPI ◆ HMK-125-SSPI ◆ HMK-150-SSPI ◆ HMK -175-SSPI
<p>Millerbernd Manufacturing Company 622 6th Street South Winsted, MN 55395 (320) 485-2111 FAX (320) 485-2220 http://www.millerberndmfg.com</p>	<p>Millerbernd</p>	<ul style="list-style-type: none"> ◆ High Mast – 100 Foot ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ MMC100KIT ◆ MMC125KIT ◆ MMC150KIT ◆ MMC175KIT

High Mast Ring- Previously Approved Shop Drawings

Manufacturer		Type	
<p>J.W. Hall Enterprises, Inc.</p> <p>17731 Elizabeth Rd. Algoa, TX 77511 (281) 337-6311</p> <p>http://www.jwhall.com</p>		<p>◆ High Mast Ring</p> <p>Drawing # HM 2002-01 Sheets 1 through 6 Drawing # HE 2002 Sheets 7 through 9</p>	
<p>Carolina High Mast, Inc.</p> <p>700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046</p>		<p>◆ High Mast Ring</p> <p>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</p>	
<p>Traffic Control Devices</p> <p>4417 Main Street Pearland, TX 77581 (281) 992-3030</p> <p>http://www.tcd.cc</p>		<p>◆ High Mast Ring</p> <p>Drawing # E-901 Sheets 1 through 10</p>	

High Mast Ring- Previously Approved Shop Drawings			
Manufacturer		Type	
Brookfield Fabricating Corp. Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214		♦ High Mast Ring 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 228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638 http://www.pkmsteel.com/		♦ High Mast Ring 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.

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

Rigid Metallic Conduit – (RMC)			
Manufacturer	Brand	Type	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"

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PolyVinyl Chloride Pipe- (PVC)

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

PolyVinyl Chloride Pipe- (PVC)			
Manufacturer	Brand	Type	Model
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791 http://www.heritageplastics.com/	Heritage	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
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 1/4" to 6"
OMNI 259 Plauche Street Harahan, LA 70123 (504) 736-0331 http://www.omni-opti.com	OMNI	◆ PVC	◆ Schedule 40 - Trade Sizes from 1/2" to 6" ◆ Schedule 80 - Trade Sizes from 2" to 6"
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 1/4" to 6" in 10' lengths – All model #'s start with UL ◆ Schedule 40 – Trade Sizes from 1 1/4" to 6" in 20' lengths – All model #'s start with UL

PolyVinyl Chloride Pipe- (PVC)																																										
Manufacturer	Brand	Type	Model																																							
JM Eagle 5200 West Century Boulevard Los Angeles, CA 90045 (800) 621-4404 http://www.jmeagle.com	JM Eagle	◆ PVC	<table border="0"> <tr> <td></td> <td><u>Schedule 40</u></td> <td><u>Schedule 80</u></td> </tr> <tr> <td>◆ ½"</td> <td>0.5 S40 UL</td> <td>0.5 S80 UL</td> </tr> <tr> <td>◆ ¾"</td> <td>0.75 S40 UL</td> <td>0.75 S80 UL</td> </tr> <tr> <td>◆ 1"</td> <td>1 S40 UL</td> <td>1 S80 UL</td> </tr> <tr> <td>◆ 1 ¼"</td> <td>1.25 S40 UL</td> <td>1.25 S80 UL</td> </tr> <tr> <td>◆ 1 ½"</td> <td>1.50 S40 UL</td> <td>1.50 S80 UL</td> </tr> <tr> <td>◆ 2"</td> <td>2 S40 UL</td> <td>2 S80 UL</td> </tr> <tr> <td>◆ 2 ½"</td> <td>2.5 S40 UL</td> <td>2.5 S80 UL</td> </tr> <tr> <td>◆ 3"</td> <td>3 S40 UL</td> <td>3 S80 UL</td> </tr> <tr> <td>◆ 3 ½"</td> <td>3.5 S40 UL</td> <td>3.5 S80 UL</td> </tr> <tr> <td>◆ 4"</td> <td>4 S40 UL</td> <td>4 S80 UL</td> </tr> <tr> <td>◆ 5"</td> <td>5 S40 UL</td> <td>5 S80 UL</td> </tr> <tr> <td>◆ 6"</td> <td>6 S40 UL</td> <td>6 S80 UL</td> </tr> </table>		<u>Schedule 40</u>	<u>Schedule 80</u>	◆ ½"	0.5 S40 UL	0.5 S80 UL	◆ ¾"	0.75 S40 UL	0.75 S80 UL	◆ 1"	1 S40 UL	1 S80 UL	◆ 1 ¼"	1.25 S40 UL	1.25 S80 UL	◆ 1 ½"	1.50 S40 UL	1.50 S80 UL	◆ 2"	2 S40 UL	2 S80 UL	◆ 2 ½"	2.5 S40 UL	2.5 S80 UL	◆ 3"	3 S40 UL	3 S80 UL	◆ 3 ½"	3.5 S40 UL	3.5 S80 UL	◆ 4"	4 S40 UL	4 S80 UL	◆ 5"	5 S40 UL	5 S80 UL	◆ 6"	6 S40 UL	6 S80 UL
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◆ 6"	6 S40 UL	6 S80 UL																																								

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High-Density 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 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	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) ◆ 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)

High-Density Polyethylene Conduit (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	♦ 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

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Precast Polymer Concrete Junction Box for Concrete Traffic Barrier			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.quazite.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ Median Barrier Box ◆ Median Barrier Box – for Concrete Barrier (F-Shape) ◆ Junction Box w/Cover OD – 9 X 11 X 7 ¼” ID – 7 ⅜ X 9 ⅜ X 6 ½”	<ul style="list-style-type: none"> ◆ PC1012B500/PC1012CA00 ◆ PC0516B500/PC0516CA00 ◆ PC0608Z503831 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	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. McKinney, TX 75069 (800) 962-9473 http://www.encorewire.com/	Encore	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 1000 kcmil
Service Wire Company 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	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil ♦ 6 AWG & 8AWG Available in Black Only
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (570) 385-4381 http://www.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 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

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
<p>Falcon Fine Wire</p> <p>2401 Discovery Blvd. Rockwall, TX 75032 (800) 874-7230 (214) 771-3441</p> <p>http://www.falconfinewire.com</p>	Falcon	<ul style="list-style-type: none"> ◆ XHHW-2 Or ◆ XHHW 	<ul style="list-style-type: none"> ◆ Available in 14 AWG through 4000 kcmil Available Jacket Colors: Black, Red, White, Green 3090194 – ETL Number Will Be Printed On Jacket
<p>Republic Wire Inc.</p> <p>5525 Union Centre Drive West Chester, OH 45069 (513) 860-1800</p> <p>http://www.republicwire.com</p>	Republic Wire Inc.	<ul style="list-style-type: none"> ◆ XHHW-2 Or ◆ XHHW 	<ul style="list-style-type: none"> ◆ 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 ◆ Bare Copper Soft Drawn Solid and Stranded 8AWG - 2AWG
<p>Coleman Cable, Inc.</p> <p>1530 Shields Drive Waukegan, IL 60085 (800) 325-9355</p> <p>http://www.colemancable.com</p>	CCI	<ul style="list-style-type: none"> ◆ XHHW-2 	<p>Available in Black Only</p> <ul style="list-style-type: none"> ◆ 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

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
<p>Eaton –Bussmann Series</p> <p>114 Old State Road Ellisville, MO 63021 (855) 287-7626</p> <p>http://www.cooperindustries.com/content/public/en/bussmann/electrical.html</p>	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>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.</p>
<p>Littelfuse Inc.</p> <p>800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188</p> <p>http://www.littelfuse.com</p>	Littelfuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 0LEXYYSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>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.</p>
<p>Mersen USA</p> <p>374 Merrimac Street Newburyport, MA 01950 (978) 462-6662</p> <p>http://www.ferrazshawmut.com</p> <p>Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut.</p>	Ferraz Shawmut	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ FEX-91-91-BA – used when no neutral is required ◆ FEXN-91-91-BA – used when neutral is present <p>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.</p>

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Ideal Industries, Inc. 1 Becker Place Sycamore, IL 60178 (800) 435-0705 http://www.idealindustries.com/	Ideal-Buchanan SLK	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 30-S2222D – used when no neutral is required ◆ 30-S2222P – used when neutral is present <p>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.</p>

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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.

Tray Cable- XHHW Conductors with Overall PVC Jacket			
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

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

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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	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 Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Southwire Corporation One Southwire Drive Carrollton, GA 30119 (770) 832-4242 http://www.southwire.com/	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. 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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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	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.quazite.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PG1324B512 / PG1324H506 ◆ 2PG1324B512 / PG1324H506 ◆ PG1730B512 / PG1730H507 ◆ PG1730B517 / PG1730H507 ◆ PG1324B514 / PG1324H506
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 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)
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 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 13230 Saticoy St. North Hollywood, CA. 91605 (818) 982-3600 http://www.armorcastprod.com/	Armor cast	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For All Boxes	<ul style="list-style-type: none"> ◆ A6001946TAPCX12 ◆ A6001946TAPCX24 ◆ A6001640TAPCX12 ◆ A6001640TAPCX22 ◆ A6001946TAPCX18 <ul style="list-style-type: none"> ◆ 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
NewBasis 2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747 http://www.newbasis.com/	NewBasis	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ PCB132412G482 ◆ (2) PCB132412G482
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PCC1324DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1324DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 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 2 Inverness St. Candiac, Quebec Canada J5R 4WS Toll Free (888) 868-5214 http://www.synertechproducts.com	Synertech	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ S132412HH90 ◆ S132424HH90 ◆ S173012HH90 ◆ S173024HH90 ◆ S132418HH90
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 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	<ul style="list-style-type: none"> ◆ S1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ S1730HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

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Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Oldcastle Enclosure Solutions 2434 Rubidoux Blvd. Riverside, CA. 92509 (800) 735-5566 (713) 875-8030 http://www.oldcastleprecast.com/enclosuresolutions Carson Industries, LLC. is now Oldcastle Enclosure Solutions 8-29-2013 Model numbers are the same	Oldcastle	♦ A ♦ B	♦ 13242030 ♦ 13242032
		♦ C ♦ D ♦ E Cover For Type A, B & E	♦ 17302061 ♦ 17302063 ♦ 13242031 ♦ 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ♦ 13244156- DANGER HIGH VOLTAGE/ILLUMINATION ♦ 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	Type	Model
CDR Systems Corporation 146 South Atlantic Ave. Ormond Beach, FL. 32176 (386) 615-9510 http://www.cdrsystems.com/	cdr	◆ A	◆ SB14-1324-12-0287
		◆ B	◆ SB14-1324-12-0287 -2 boxes stacked
		◆ C	◆ SB14-1730-12-0494
		◆ D	◆ SC14-1730-22-0499
		◆ E	◆ SB14-1324-18-0288
		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. 131 Hartwell Ave. Lexington, MA. 02421 (781) 328-3220 http://www.highlineproducts.com	Highline	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover Logo Information XX in each model will be replaced with : <ul style="list-style-type: none"> ◆ 20 ◆ 21 ◆ 22 ◆ 23 ◆ 24 Ordering covers only, Contact Manufacturer	<ul style="list-style-type: none"> ◆ PHA132412HTD-XX ◆ PHA132424HTD-XX ◆ PHA173012HTD-XX ◆ PHA173024HTD-XX ◆ PHA132418HTD-XX <ul style="list-style-type: none"> ◆ DANGER HIGH VOLTAGE ◆ DANGER HIGH VOLTAGE/ ILLUMINATION ◆ DANGER HIGH VOLTAGE/ SIGN ILLUMINATION ◆ DANGER HIGH VOLTAGE/ TRAFFIC MANAGEMENT ◆ DANGER HIGH VOLTAGE/ TRAFFIC SIGNALS

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Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Duravault 310 Weathers Dr. Laredo, TX. 78045 (885) 250-3993 http://www.duravault.com	Duravault	◆ A	◆ PC132412STBTXD-XX (122311)
		◆ B	◆ PC132422STBTXD-XX (122322)
		◆ C	◆ PC173012STBTXD-XX (162911)
		◆ D	◆ PC173022STBTXD-XX (162922)
		◆ E	◆ PC132418STBTXD-XX (122317)
		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”

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Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Martin Enterprises 19940 Hansen Avenue Nuevo, CA 92567 (951) 928-8413 http://www.martinfrp.com	Martin	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ 1324/12 PC Type A Tier 15 Rated ◆ 1324/24 PC Type B Tier 15 Rated ◆ 1730/18 PC Type C Tier 15 Rated ◆ 1730/24 PC Type D Tier 15 Rated ◆ 1324/18 PC Type E Tier 15 Rated
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 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	<ul style="list-style-type: none"> ◆ 1730 Cover Traffic Signal / DANGER - HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 1730 Cover Illumination / DANGER - HIGH VOLTAGE/ILLUMINATION ◆ 1730 Cover Traffic Management / DANGER - HIGH VOLTAGE/TRAFFIC MANAGEMENT

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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 (210) 599-6485 (888) 853-8944 http://www.electrolsystems.com/	Electrol	<ul style="list-style-type: none"> ◆ A ◆ C ◆ C- Auxiliary Only ◆ D ◆ T- Auxiliary Only ◆ T-All in One ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ ELECTROL TYPE A-TXDOT ◆ ELECTROL TYPE C-TXDOT ◆ ELECTROL TYPE C- Auxiliary Only – TXDOT ◆ ELECTROL TYPE D-TXDOT ◆ ELECTROL TYPE T- Auxiliary Only - TXDOT ◆ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT ◆ ELECTROL TYPE A-PEDESTAL-TXDOT ◆ ELECTROL TYPE D-PEDESTAL-TXDOT
WE Manufacturing 5535 Harvey Wilson Drive Houston , TX 77020 (713) 676-2298 (800) 880-9453 http://www.wemanufacturing.com/	WE	<ul style="list-style-type: none"> ◆ A ◆ C ◆ C- Auxiliary Only ◆ D ◆ T- Auxiliary Only ◆ T-All in One ◆ A – Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ WE TYPE A-TXDOT ◆ WE TYPE C-TXDOT ◆ WE TYPE C- Auxiliary Only –TXDOT ◆ WE TYPE D-TXDOT ◆ WE TYPE T- Auxiliary Only –TXDOT ◆ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ WE TYPE A- PEDESTAL – TXDOT ◆ WE TYPE D-PEDESTAL – TXDOT

Electrical Service

Manufacturer	Brand	Type	Model
<p>Mica Corporation</p> <p>P.O. Box 161609 Fort Worth , TX 77020 (817) 847-6121 (817) 577-2088</p> <p>http://micacorporation.com</p>	<p>Mica</p>	<ul style="list-style-type: none"> ◆ A ◆ C ◆ D ◆ T- Auxiliary Only ◆ T-All in One 	<ul style="list-style-type: none"> ◆ MICA TYPE A-TXDOT ◆ MICA TYPE C-TXDOT ◆ MICA TYPE D-TXDOT ◆ MICA TYPE T- Auxiliary Only –TXDOT ◆ MICA TYPE T- ALL IN ONE ENCLOSURE –TXDOT
<p>Specialty Control Systems</p> <p>629 SH 3 League City , TX 77573 (281) 332-0999</p> <p>http://www.specialtycontrol.com/</p>	<p>SCS</p>	<ul style="list-style-type: none"> ◆ A ◆ D ◆ T-All in One ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ SCS TYPE A-TXDOT ◆ SCS TYPE D-TXDOT ◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ SCS TYPE D-PEDESTAL-TXDOT

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Electrical Service			
Manufacturer	Brand	Type	Model
Tesco Controls, Inc. 3434 52 nd Ave. Sacramento , CA 95823 (916) 395-8800 http://www.tescocontrols.com	Tesco	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ C-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240) ◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480) ◆ TESCO TYPE C-PEDESTAL-TXDOT ◆ TESCO TYPE D-PEDESTAL-TXDOT
Myers Power Products, Inc. 725 E. Harrison St. Corona , CA 92879 (951) 520-1900 (866) 696-9377 http://www.myerspowerproducts.com	Myers	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ D-Pedestal ◆ D ◆ A 	<ul style="list-style-type: none"> ◆ MEUG16 TYPE A-PEDESTAL-TXDOT ◆ MEUG16 TYPE D-PEDESTAL-TXDOT ◆ MYERS TYPE D-TXDOT ◆ MYERS TYPE A-TXDOT

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

Electrical Service			
Manufacturer	Brand	Type	Model
Dynamic Automation & Controls 10560 Sentinel San Antonio , TX 78217 (210) 267-2489 (855) 465-6099 http://dynamic-ac.com	Dynamic Automation & Controls	<ul style="list-style-type: none"> ◆ A ◆ A-Pedestal ◆ D ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TYPE A-POLE MOUNT ◆ TYPE A-PEDESTAL ◆ TYPE D-POLE MOUNT ◆ TYPE D-PEDESTAL

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

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
<p>Mersen USA</p> <p>374 Merrimac Street Newburyport, MA 01950 (978) 462-6662</p> <p>http://ep-us.mersen.com/</p> <p>Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut.</p>	<p>Ferraz Shawmut</p>	<ul style="list-style-type: none"> ◆ Single Pole ◆ Single Pole ◆ Dummy Fuse (Slug) 	<ul style="list-style-type: none"> ◆ FEB-81-81-BA when fused use slug ◆ FEBN-81-81-BA for neutral (non-fused) ◆ MNL30 - Slug <p>These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA. Installing contractor to supply dummy fuse-(slug).</p>
<p>Littelfuse Inc.</p> <p>800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188</p> <p>http://www.littelfuse.com</p>	<p>Littelfuse</p>	<ul style="list-style-type: none"> ◆ Single Pole ◆ Single Pole ◆ Dummy Fuse (Slug) 	<ul style="list-style-type: none"> ◆ LEB-JJ-S-WPB1 when fused use slug ◆ LET-JJ-S-WPB1 for neutral (non-fused) ◆ Not available at this time <p>These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA. Installing contractor to supply dummy fuse-(slug).</p>
<p>Eaton –Bussmann Series</p> <p>114 Old State Road Ellisville, MO 63021 (855) 287-7626</p> <p>http://www.cooperindustries.com/content/public/en/bussmann/electrical.html</p>	<p>Bussmann</p>	<ul style="list-style-type: none"> ◆ Single Pole ◆ Single Pole ◆ Dummy Fuse (Slug) 	<ul style="list-style-type: none"> ◆ HEB-JW-RLC-J when fused use slug ◆ HET-JW-RLC-J for neutral (non-fused) ◆ NNB - Slug <p>These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA. Installing contractor to supply dummy fuse-(slug).</p>

Breakaway Holders-Non-Fused			
Manufacturer	Brand	Type	Model
Ideal Industries, Inc. 1375 Park Avenue Sycamore, IL 60178 (800) 435-0705 http://www.idealindustries.com	Ideal – Buchanan SLK	<ul style="list-style-type: none"> ◆ Single Pole ◆ Single Pole ◆ Dummy Fuse (Slug) 	<ul style="list-style-type: none"> ◆ 30-S1212 when fused use slug ◆ 30-S1212N for neutral (non-fused) ◆ Not available at this time <p>These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPREBA. Installing contractor to supply dummy fuse-(slug).</p>

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

**Roadway Illumination and Electrical Supplies
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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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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://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.

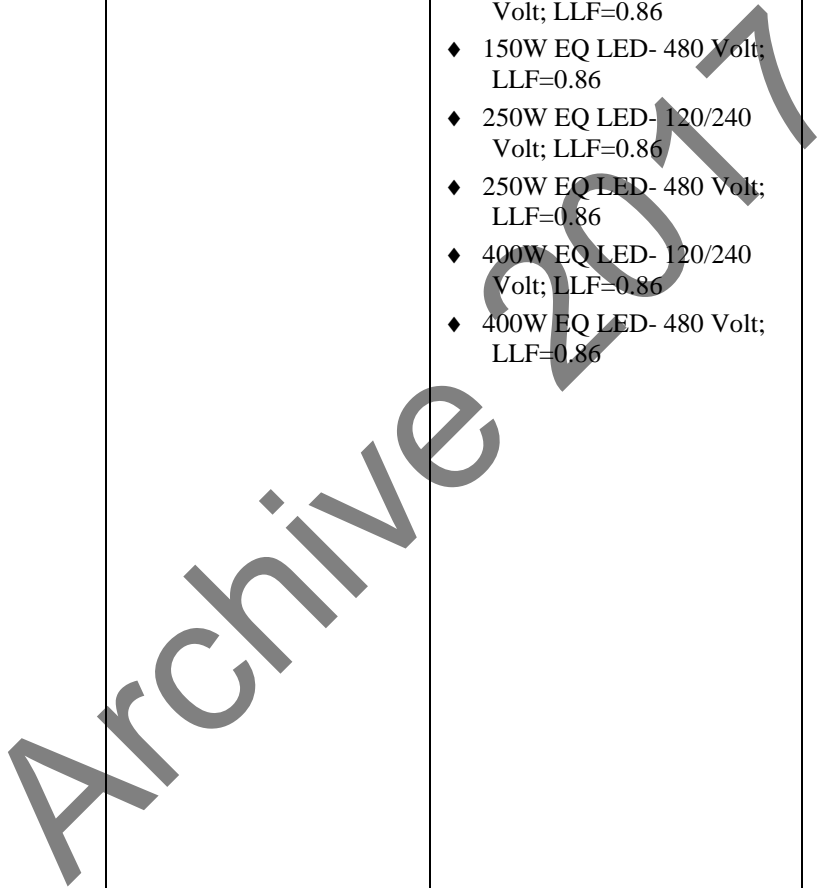
Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ UDP-165-QL-GR
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	<ul style="list-style-type: none"> ◆ 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 	<ul style="list-style-type: none"> ◆ 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	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ SP2343

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
H.E. Williams 831 W. Fairview Ave. P.O. Box 837 Carthage, MO 64836 (417) 358-4065 http://www.hew.com	Infinity	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture ◆ BB Box Beam ◆ BD Bridge Deck ◆ UB U-Beam 	<ul style="list-style-type: none"> ◆ ICERL1-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL3-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL5-150S-41K-BAT/CG1-14DEG-UNV
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	Fail-Safe	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ TF28-150ICE-UNV-A1432

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Roadway Illumination Assemblies – Luminaire			
Manufacturer	Brand	Type	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	<ul style="list-style-type: none"> ◆ 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 	<ul style="list-style-type: none"> ◆ OVW15SMJ3DD0004 ◆ OVW25SMG2DD0001 ◆ OVW25SMJ2DD0002 ◆ OVW40SMG2DD0005 ◆ OVW40SMJ2DD0003
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingsystems.com	M4RC	<ul style="list-style-type: none"> ◆ 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 	<ul style="list-style-type: none"> ◆ 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	<ul style="list-style-type: none"> ◆ 250W HPS- 120 Volt ◆ 250W HPS- 240 Volt ◆ 250W HPS- 480 Volt ◆ 400W HPS- 120Volt ◆ 400W HPS- 240Volt ◆ 400W HPS- 480 Volt 	<ul style="list-style-type: none"> ◆ G25RHP12LNRHGBR-TXDOT ◆ G25RHP24LNRHGBR-TXDOT ◆ G25RHP48LNRHGBR-TXDOT ◆ G40RHP12LNRHGBR-TXDOT ◆ G40RHP24LNRHGBR-TXDOT ◆ G40RHP48LNRHGBR-TXDOT

Roadway Illumination Assemblies – LED Luminaire			
Manufacturer	Brand	Type	Model
TraStar 860 N. Dorothy Drive #600 Richardson, TX 75081 (972) 480-0888 http://www.trastarusa.com	Duralight	<ul style="list-style-type: none"> ◆ 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 ◆ 400W EQ LED- 480 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- 480 Volt; LLF=0.86 ◆ 400W EQ LED- 120/240 Volt; LLF=0.86 ◆ 400W EQ LED- 480 Volt; LLF=0.86 	<ul style="list-style-type: none"> ◆ 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-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



Roadway Illumination Assemblies – Luminaire			
Manufacturer	Brand	Type	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 EQ LED-120/240 VOLT LLF=0.86	◆ VERD-A028-D-U-T3-4N7-20K-AP-TXDOT-D0077
		◆ 150W EQ LED-480 VOLT LLF=0.86	◆ VERD-A028-D-8-T3-4N7-20K-AP-TXDOT-D0078
		◆ 250W EQ LED-120/240 VOLT LLF=0.816	◆ VERD-G-A02-D-U-T2-4N7-20K-AP-TXDOT-D0027
		◆ 250W EQ LED-480 VOLT LLF=0.816	◆ VERD-G-A02-D-8-T2-4N7-20K-AP-TXDOT-D0028
		◆ 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

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Roadway Illumination Assemblies – LED Luminaire			
Manufacturer	Brand	Type	Model
<p>GreenStar</p> <p>6900 Alamo Downs Pkwy Suite 120 San Antonio, TX 78238</p> <p>http://greenstarled.com/</p>	GreenStar	<ul style="list-style-type: none"> ◆ 150W EQ LED- 120/240 Volt; LLF=0.74 ◆ 150W EQ LED- 480 Volt; LLF=0.74 ◆ 250W EQ LED- 120/240 Volt; LLF=0.74 ◆ 250W EQ LED- 480 Volt; LLF=0.74 ◆ 400W EQ LED- 120/240 Volt; LLF=0.74 ◆ 400W EQ LED- 480 Volt; LLF=0.74 	<ul style="list-style-type: none"> ◆ XAVX08431SNXXI ◆ XAVH08434SNXXI ◆ XAVX12431SNXXI; old part # AV12431SN ◆ XAVH12434SNXXI; old part # AV12434SN ◆ XAVX20431SNXXI ◆ XAVH20434SNXXI
<p>GE Lighting Solutions</p> <p>3010 Spartanburg Hwy East Flat Rock, NC 28726</p> <p>http://www.gelightingproducts.com</p>	Evolve	<ul style="list-style-type: none"> ◆ 150W EQ LED - 120V; LLF=0.80 ◆ 150W EQ LED - 240V; LLF=0.80 ◆ 150W EQ LED - 480V; LLF=0.80 ◆ 250W EQ LED - 240V; LLF=0.79 ◆ 250W EQ LED - 480V; LLF=0.79 ◆ 400W EQ LED - 240V; LLF=0.70 ◆ 400W EQ LED - 480V; LLF=0.70 	<ul style="list-style-type: none"> ◆ ERS11B3D17404GRAY120 ◆ ERS13B3D17404GRAY120 ◆ ERS15B3D17404GRAY081 ◆ ERS20E3E17404GRAY083 ◆ ERS2HE3E17404GRAY134 ◆ ERS20H3E11404GRAY135 ◆ ERS2HH3E11404GRAY136
<p>Philips</p> <p>Philips Lighting 200 Franklin Square Drive Somerset, NJ 08873</p> <p>http://www.lightingproducts.philips.com/</p>	Lumec	<ul style="list-style-type: none"> ◆ 250W EQ LED - 120/240V; LLF=0.833 ◆ 250W EQ LED - 480V; LLF=0.833 ◆ 400W EQ LED - 120/240V; LLF=0.833 ◆ 400W EQ LED - 480V; LLF=0.833 	<ul style="list-style-type: none"> ◆ [RFM-004]-108W48LED4K-T-R2M-[UNIV-009]-DMG-ML-RCD-SP2-GY3 ◆ [RFM-004]-108W48LED4K-T-R2M-[HVU-002]-DMG-ML-RCD-SP2-GY3 ◆ [RFL-006]180W80LED4K-T-R2M-[UNIV-009]-DMG-ML-RCD-SP2-GY3 ◆ [RFL-006]-180W80LED4K-T-R2M-[HVU-002]-DMG-ML-RCD-SP2-GY3

Roadway Illumination Assemblies – LED Luminaire			
Manufacturer	Brand	Type	Model
<p>Acuity</p> <p>Acuity Brands Lighting, Inc. 3825 Columbus Rd. Granville, OH 43023</p> <p>http://www.acuitybrands.com</p>	<p>American Electric</p>	<p>◆ 150W EQ LED - 120/240V; LLF=0.742</p>	<p>◆ ATB0 20BLEDE10 MVOLT R3 20 BL NL SH F2 RFD22058</p>
		<p>◆ 150W EQ LED - 480V; LLF=0.742</p>	<p>◆ ATB0 20BLEDE10 480 R3 20 BL NL SH F2 RFD209795</p>
		<p>◆ 250W EQ LED - 120/240V; LLF=0.815</p>	<p>◆ ATB0 30BLED15 MVOLT R2 20 BL NL SH RFD209796</p>
		<p>◆ 250W EQ LED - 480V; LLF=0.815</p>	<p>◆ ATB0 30BLED15 480 R2 20 BL NL SH RFD220059</p>
		<p>◆ 400W EQ LED - 120/240V; LLF=0.877</p>	<p>◆ ATBL D MVOLT R2 4B 20 NL SH RFD209798</p>
		<p>◆ 400W EQ LED - 480V; LLF=0.877</p>	<p>◆ ATBL D 480 R2 4B 20 NL SH RFD220060</p>

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High Pressure Sodium Lamps			
Manufacturer	Brand	Type	Model
<p>Osram Sylvania</p> <p>100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828</p> <p>http://www.sylvania.com/</p>	<p>Sylvania - Lumalux Plus®/ECO</p>	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 67312 - LU400/PLUS/ECO ◆ 67572 - LU250/PLUS/ECO ◆ 67494 -LU150/55/PLUS/ECO
<p>Philips Lighting Company</p> <p>200 Franklin Square Dr. P.O. Box 6800 Somerset, NJ 08875 (800) 555-0050</p> <p>http://www.lighting.philips.com</p>	<p>Philips - Ceramalux®/ALTO® Non-Cycling Lamp</p>	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 14743-9 – C400S51/ALTO NC HPS ◆ 14742-1 – C250S50/ALTO NC HPS ◆ 14741-3 – C150S55/ALTO NC HPS
<p>GE Lighting</p> <p>Nela Park, 1975 Noble Rd. Cleveland, OH 44112 (216) 266-2121</p> <p>http://www.gelighting.com</p>	<p>GE – EcoluxNC™</p>	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 14675 – LU400/ECO/NC ◆ 14674 – LU250/ECO/NC ◆ 40390 – LU150/55/ECO/NC

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

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
<p>Eaton –Bussmann Series</p> <p>114 Old State Road Ellisville, MO 63021 (855) 287-7626</p> <p>http://www.cooperindustries.com/content/public/en/bussmann/electrical.html</p>	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>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.</p>
<p>Littelfuse Inc.</p> <p>800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188</p> <p>http://www.littelfuse.com</p>	Littelfuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ OLEXYCSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>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.</p>
<p>Mersen USA</p> <p>374 Merrimac Street Newburyport, MA 01950 (978) 462-6662</p> <p>http://www.ferrazshawmut.com</p> <p>Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut.</p>	Ferraz Shawmut	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ FEX-91-91-BA – used when no neutral is required ◆ FEXN-91-91-BA – used when neutral is present <p>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.</p>

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Ideal Industries, Inc. 1 Becker Place Sycamore, IL 60178 (800) 435-0705 http://www.idealindustries.com/	Ideal-Buchanan SLK	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 30-S2222D – used when no neutral is required ◆ 30-S2222P – used when neutral is present <p>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.</p>

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Optional and Non-Standard Illumination Pole Designs and Shop Drawings			
Manufacturer	Brand	Type	Model
Hapco 26252 Hillman Highway Abingdon, VA 24210 (800) 368-7171 http://www.hapco.com/	Hapco	♦ 40 Ft.-Aluminum - T-Base mounted with (1) 8Ft. Arm Only	♦ Based on Drawing # B15138 and B15136

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Breakaway Transformer Base			
Manufacturer	Brand	Type	Model
Akron Foundry Co. 2728 Wingate Ave. Akron, OH 44314 (330) 745-3101 http://www.akronfoundry.com	Akron	<ul style="list-style-type: none"> ◆ Breakaway Transformer Base for Luminaire Poles Less Than 40 Foot Height ◆ Breakaway Transformer Base for Luminaire Poles 40 to 50 Foot Height 	<ul style="list-style-type: none"> ◆ TB1-17 ◆ TB3-17

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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.

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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	Type	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.gelightingystems.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 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 – EcoluxNG™	◆ 400 Watt Lamp	◆ 14675 – LU400/ECO/NC

High Mast Kit

Manufacturer	Brand	Type	Model
Mica Corporation 5750 N. Riverside Dr. Fort Worth, TX 76137 (817) 577-2088 http://www.micacorporation.com	Mica Corporation	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-PH ◆ HMK-150-PH ◆ HMK -175-PH
Carolina High Mast, Inc. 700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046	Carolina High Mast, Inc.	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-CHMI ◆ HMK-150-CHMI ◆ HMK -175-CHMI
Rexel 2400 Brockton San Antonio, TX 78217 (210) 352-1047 http://www.rexelusa.com	Rexel	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-RX ◆ HMK-150-RX ◆ HMK -175-RX

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High Mast Kit

Manufacturer		Type	
<p>Wildcat Electric Supply, Ltd. 2061 Clovis Barker Road #5. San Marcos, TX 77666 (512) 396-8900 (866) 301-5200 http://www.wildcatelectric.com</p>	<p>Wildcat</p>	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-WC ◆ HMK-150-WC ◆ HMK -175-WC
<p>Stratus Products Division of Structural & Steel Products, Inc 1320 South University Suite 701 Fort Worth, TX 76107 (800) 782-5804 http://stratusprod.com</p>	<p>Stratus Products</p>	<ul style="list-style-type: none"> ◆ High Mast – 100 Foot ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-100-SSPI ◆ HMK-125-SSPI ◆ HMK-150-SSPI ◆ HMK -175-SSPI
<p>Millerbernd Manufacturing Company 622 6th Street South Winsted, MN 55395 (320) 485-2111 FAX (320) 485-2220 http://www.millerberndmfg.com</p>	<p>Millerbernd</p>	<ul style="list-style-type: none"> ◆ High Mast – 100 Foot ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ MMC100KIT ◆ MMC125KIT ◆ MMC150KIT ◆ MMC175KIT

High Mast Ring- Previously Approved Shop Drawings			
Manufacturer		Type	
<p>J.W. Hall Enterprises, Inc.</p> <p>17731 Elizabeth Rd. Algoa, TX 77511 (281) 337-6311</p> <p>http://www.jwhall.com</p>		<p>◆ High Mast Ring</p> <p>Drawing # HM 2002-01 Sheets 1 through 6 Drawing # HE 2002 Sheets 7 through 9</p>	
<p>Carolina High Mast, Inc.</p> <p>700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046</p>		<p>◆ High Mast Ring</p> <p>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</p>	
<p>Traffic Control Devices</p> <p>4417 Main Street Pearland, TX 77581 (281) 992-3030</p> <p>http://www.tcd.cc</p>		<p>◆ High Mast Ring</p> <p>Drawing # E-901 Sheets 1 through 10</p>	

High Mast Ring- Previously Approved Shop Drawings			
Manufacturer		Type	
Brookfield Fabricating Corp. Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214		♦ High Mast Ring 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 228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638 http://www.pkmsteel.com/		♦ High Mast Ring Sheet E1 Dated 8-2-05 Sheet 1 Dated 10-12-05 Sheet 2 Dated 10-12-05 Sheet 3 Dated 10-12-05	

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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.

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

Rigid Metallic Conduit – (RMC)			
Manufacturer	Brand	Type	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"

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

PolyVinyl Chloride Pipe- (PVC)

Manufacturer	Brand	Type	Model
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791 http://www.heritageplastics.com/	Heritage	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
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 1/4" to 6"
OMNI 259 Plauche Street Harahan, LA 70123 (504) 736-0331 http://www.omni-opti.com	OMNI	◆ PVC	◆ Schedule 40 - Trade Sizes from 1/2" to 6" ◆ Schedule 80 - Trade Sizes from 2" to 6"
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 1/4" to 6" in 10' lengths – All model #'s start with UL ◆ Schedule 40 – Trade Sizes from 1 1/4" to 6" in 20' lengths – All model #'s start with UL

PolyVinyl Chloride Pipe- (PVC)																																										
Manufacturer	Brand	Type	Model																																							
JM Eagle 5200 West Century Boulevard Los Angeles, CA 90045 (800) 621-4404 http://www.jmeagle.com	JM Eagle	◆ PVC	<table border="0"> <tr> <td></td> <td><u>Schedule 40</u></td> <td><u>Schedule 80</u></td> </tr> <tr> <td>◆ ½"</td> <td>0.5 S40 UL</td> <td>0.5 S80 UL</td> </tr> <tr> <td>◆ ¾"</td> <td>0.75 S40 UL</td> <td>0.75 S80 UL</td> </tr> <tr> <td>◆ 1"</td> <td>1 S40 UL</td> <td>1 S80 UL</td> </tr> <tr> <td>◆ 1 ¼"</td> <td>1.25 S40 UL</td> <td>1.25 S80 UL</td> </tr> <tr> <td>◆ 1 ½"</td> <td>1.50 S40 UL</td> <td>1.50 S80 UL</td> </tr> <tr> <td>◆ 2"</td> <td>2 S40 UL</td> <td>2 S80 UL</td> </tr> <tr> <td>◆ 2 ½"</td> <td>2.5 S40 UL</td> <td>2.5 S80 UL</td> </tr> <tr> <td>◆ 3"</td> <td>3 S40 UL</td> <td>3 S80 UL</td> </tr> <tr> <td>◆ 3 ½"</td> <td>3.5 S40 UL</td> <td>3.5 S80 UL</td> </tr> <tr> <td>◆ 4"</td> <td>4 S40 UL</td> <td>4 S80 UL</td> </tr> <tr> <td>◆ 5"</td> <td>5 S40 UL</td> <td>5 S80 UL</td> </tr> <tr> <td>◆ 6"</td> <td>6 S40 UL</td> <td>6 S80 UL</td> </tr> </table>		<u>Schedule 40</u>	<u>Schedule 80</u>	◆ ½"	0.5 S40 UL	0.5 S80 UL	◆ ¾"	0.75 S40 UL	0.75 S80 UL	◆ 1"	1 S40 UL	1 S80 UL	◆ 1 ¼"	1.25 S40 UL	1.25 S80 UL	◆ 1 ½"	1.50 S40 UL	1.50 S80 UL	◆ 2"	2 S40 UL	2 S80 UL	◆ 2 ½"	2.5 S40 UL	2.5 S80 UL	◆ 3"	3 S40 UL	3 S80 UL	◆ 3 ½"	3.5 S40 UL	3.5 S80 UL	◆ 4"	4 S40 UL	4 S80 UL	◆ 5"	5 S40 UL	5 S80 UL	◆ 6"	6 S40 UL	6 S80 UL
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◆ 5"	5 S40 UL	5 S80 UL																																								
◆ 6"	6 S40 UL	6 S80 UL																																								

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High-Density 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 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	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) ◆ 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)

High-Density Polyethylene Conduit (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	♦ HDPE Conduit – Schedule 40 Color - Black	<ul style="list-style-type: none"> ♦ 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

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Precast Polymer Concrete Junction Box for Concrete Traffic Barrier			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.quazite.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ Median Barrier Box ◆ Median Barrier Box – for Concrete Barrier (F-Shape) ◆ Junction Box w/Cover OD – 9 X 11 X 7 ¼” ID – 7 ⅜ X 9 ⅜ X 6 ½”	<ul style="list-style-type: none"> ◆ PC1012B500/PC1012CA00 ◆ PC0516B500/PC0516CA00 ◆ PC0608Z503831 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	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. McKinney, TX 75069 (800) 962-9473 http://www.encorewire.com/	Encore	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 1000 kcmil
Service Wire Company 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	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil ♦ 6 AWG & 8AWG Available in Black Only
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (570) 385-4381 http://www.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 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

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
<p>Falcon Fine Wire</p> <p>2401 Discovery Blvd. Rockwall, TX 75032 (800) 874-7230 (214) 771-3441</p> <p>http://www.falconfinewire.com</p>	Falcon	<ul style="list-style-type: none"> ◆ XHHW-2 Or ◆ XHHW 	<ul style="list-style-type: none"> ◆ Available in 14 AWG through 4000 kcmil Available Jacket Colors: Black, Red, White, Green 3090194 – ETL Number Will Be Printed On Jacket
<p>Republic Wire Inc.</p> <p>5525 Union Centre Drive West Chester, OH 45069 (513) 860-1800</p> <p>http://www.republicwire.com</p>	Republic Wire Inc.	<ul style="list-style-type: none"> ◆ XHHW-2 Or ◆ XHHW 	<ul style="list-style-type: none"> ◆ 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 ◆ Bare Copper Soft Drawn Solid and Stranded 8AWG - 2AWG
<p>Coleman Cable, Inc.</p> <p>1530 Shields Drive Waukegan, IL 60085 (800) 325-9355</p> <p>http://www.colemancable.com</p>	CCI	<ul style="list-style-type: none"> ◆ XHHW-2 	<p>Available in Black Only</p> <ul style="list-style-type: none"> ◆ 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

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
<p>Eaton –Bussmann Series</p> <p>114 Old State Road Ellisville, MO 63021 (855) 287-7626</p> <p>http://www.cooperindustries.com/content/public/en/bussmann/electrical.html</p>	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>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.</p>
<p>Littelfuse Inc.</p> <p>800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188</p> <p>http://www.littelfuse.com</p>	Littelfuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 0LEXYYSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>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.</p>
<p>Mersen USA</p> <p>374 Merrimac Street Newburyport, MA 01950 (978) 462-6662</p> <p>http://www.ferrazshawmut.com</p> <p>Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut.</p>	Ferraz Shawmut	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ FEX-91-91-BA – used when no neutral is required ◆ FEXN-91-91-BA – used when neutral is present <p>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.</p>

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Ideal Industries, Inc. 1 Becker Place Sycamore, IL 60178 (800) 435-0705 http://www.idealindustries.com/	Ideal-Buchanan SLK	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 30-S2222D – used when no neutral is required ◆ 30-S2222P – used when neutral is present <p>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.</p>

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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.

Tray Cable- XHHW Conductors with Overall PVC Jacket			
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 Carrollton, 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

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

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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	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 Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Southwire Corporation One Southwire Drive Carrollton, GA 30119 (770) 832-4242 http://www.southwire.com/	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. 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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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	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.quazite.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PG1324B512 / PG1324H506 ◆ 2PG1324B512 / PG1324H506 ◆ PG1730B512 / PG1730H507 ◆ PG1730B517 / PG1730H507 ◆ PG1324B514 / PG1324H506
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 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)
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 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 13230 Saticoy St. North Hollywood, CA. 91605 (818) 982-3600 http://www.armorcastprod.com/	Armor cast	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For All Boxes	<ul style="list-style-type: none"> ◆ A6001946TAPCX12 ◆ A6001946TAPCX24 ◆ A6001640TAPCX12 ◆ A6001640TAPCX22 ◆ A6001946TAPCX18 <ul style="list-style-type: none"> ◆ 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
NewBasis 2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747 http://www.newbasis.com/	NewBasis	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ PCB132412G482 ◆ (2) PCB132412G482
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PCC1324DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1324DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 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 2 Inverness St. Candiac, Quebec Canada J5R 4WS Toll Free (888) 868-5214 http://www.synertechproducts.com	Synertech	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ S132412HH90 ◆ S132424HH90 ◆ S173012HH90 ◆ S173024HH90 ◆ S132418HH90
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 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	<ul style="list-style-type: none"> ◆ S1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ S1730HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

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Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Oldcastle Enclosure Solutions 2434 Rubidoux Blvd. Riverside, CA. 92509 (800) 735-5566 (713) 875-8030 http://www.oldcastleprecast.com/enclosuresolutions Carson Industries, LLC. is now Oldcastle Enclosure Solutions 8-29-2013 Model numbers are the same	Oldcastle	♦ A ♦ B	♦ 13242030 ♦ 13242032
		♦ C ♦ D ♦ E Cover For Type A, B & E	♦ 17302061 ♦ 17302063 ♦ 13242031 ♦ 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ♦ 13244156- DANGER HIGH VOLTAGE/ILLUMINATION ♦ 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	Type	Model
CDR Systems Corporation 146 South Atlantic Ave. Ormond Beach, FL. 32176 (386) 615-9510 http://www.cdrcsystems.com/	cdr	◆ A	◆ SB14-1324-12-0287
		◆ B	◆ SB14-1324-12-0287 -2 boxes stacked
		◆ C	◆ SB14-1730-12-0494
		◆ D	◆ SC14-1730-22-0499
		◆ E	◆ SB14-1324-18-0288
		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. 131 Hartwell Ave. Lexington, MA. 02421 (781) 328-3220 http://www.highlineproducts.com	Highline	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover Logo Information XX in each model will be replaced with : <ul style="list-style-type: none"> ◆ 20 ◆ 21 ◆ 22 ◆ 23 ◆ 24 Ordering covers only, Contact Manufacturer	<ul style="list-style-type: none"> ◆ PHA132412HTD-XX ◆ PHA132424HTD-XX ◆ PHA173012HTD-XX ◆ PHA173024HTD-XX ◆ PHA132418HTD-XX <ul style="list-style-type: none"> ◆ DANGER HIGH VOLTAGE ◆ DANGER HIGH VOLTAGE/ ILLUMINATION ◆ DANGER HIGH VOLTAGE/ SIGN ILLUMINATION ◆ DANGER HIGH VOLTAGE/ TRAFFIC MANAGEMENT ◆ DANGER HIGH VOLTAGE/ TRAFFIC SIGNALS

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Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Duravault 310 Weathers Dr. Laredo, TX. 78045 (885) 250-3993 http://www.duravault.com	Duravault	◆ A	◆ PC132412STBTXD-XX (122311)
		◆ B	◆ PC132422STBTXD-XX (122322)
		◆ C	◆ PC173012STBTXD-XX (162911)
		◆ D	◆ PC173022STBTXD-XX (162922)
		◆ E	◆ PC132418STBTXD-XX (122317)
		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”

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Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Martin Enterprises 19940 Hansen Avenue Nuevo, CA 92567 (951) 928-8413 http://www.martinfrp.com	Martin	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ 1324/12 PC Type A Tier 15 Rated ◆ 1324/24 PC Type B Tier 15 Rated ◆ 1730/18 PC Type C Tier 15 Rated ◆ 1730/24 PC Type D Tier 15 Rated ◆ 1324/18 PC Type E Tier 15 Rated
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 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	<ul style="list-style-type: none"> ◆ 1730 Cover Traffic Signal / DANGER - HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 1730 Cover Illumination / DANGER - HIGH VOLTAGE/ILLUMINATION ◆ 1730 Cover Traffic Management / DANGER - HIGH VOLTAGE/TRAFFIC MANAGEMENT

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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 (210) 599-6485 (888) 853-8944 http://www.electrolsystems.com/	Electrol	♦ A ♦ C ♦ C- Auxiliary Only ♦ D ♦ T- Auxiliary Only ♦ T-All in One ♦ A-Pedestal ♦ D-Pedestal	♦ ELECTROL TYPE A-TXDOT ♦ ELECTROL TYPE C-TXDOT ♦ ELECTROL TYPE C- Auxiliary Only – TXDOT ♦ ELECTROL TYPE D-TXDOT ♦ ELECTROL TYPE T- Auxiliary Only - TXDOT ♦ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT ♦ ELECTROL TYPE A-PEDESTAL-TXDOT ♦ ELECTROL TYPE D-PEDESTAL-TXDOT
WE Manufacturing 5535 Harvey Wilson Drive Houston , TX 77020 (713) 676-2298 (800) 880-9453 http://www.wemanufacturing.com/	WE	♦ A ♦ C ♦ C- Auxiliary Only ♦ D ♦ T- Auxiliary Only ♦ T-All in One ♦ A – Pedestal ♦ D-Pedestal	♦ WE TYPE A-TXDOT ♦ WE TYPE C-TXDOT ♦ WE TYPE C- Auxiliary Only –TXDOT ♦ WE TYPE D-TXDOT ♦ WE TYPE T- Auxiliary Only –TXDOT ♦ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT ♦ WE TYPE A- PEDESTAL – TXDOT ♦ WE TYPE D-PEDESTAL – TXDOT

Electrical Service

Manufacturer	Brand	Type	Model
<p>Mica Corporation</p> <p>P.O. Box 161609 Fort Worth , TX 77020 (817) 847-6121 (817) 577-2088</p> <p>http://micacorporation.com</p>	<p>Mica</p>	<ul style="list-style-type: none"> ◆ A ◆ C ◆ D ◆ T- Auxiliary Only ◆ T-All in One 	<ul style="list-style-type: none"> ◆ MICA TYPE A-TXDOT ◆ MICA TYPE C-TXDOT ◆ MICA TYPE D-TXDOT ◆ MICA TYPE T- Auxiliary Only –TXDOT ◆ MICA TYPE T- ALL IN ONE ENCLOSURE –TXDOT
<p>Specialty Control Systems</p> <p>629 SH 3 League City , TX 77573 (281) 332-0999</p> <p>http://www.specialtycontrol.com/</p>	<p>SCS</p>	<ul style="list-style-type: none"> ◆ A ◆ D ◆ T-All in One ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ SCS TYPE A-TXDOT ◆ SCS TYPE D-TXDOT ◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ SCS TYPE D-PEDESTAL-TXDOT

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Electrical Service

Manufacturer	Brand	Type	Model
<p>Tesco Controls, Inc. 3434 52nd Ave. Sacramento , CA 95823 (916) 395-8800 http://www.tescocontrols.com</p>	<p>Tesco</p>	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ C-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240) ◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480) ◆ TESCO TYPE C-PEDESTAL-TXDOT ◆ TESCO TYPE D-PEDESTAL-TXDOT
<p>Myers Power Products, Inc. 725 E. Harrison St. Corona , CA 92879 (951) 520-1900 (866) 696-9377 http://www.myerspowerproducts.com</p>	<p>Myers</p>	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ D-Pedestal ◆ D ◆ A 	<ul style="list-style-type: none"> ◆ MEUG16 TYPE A-PEDESTAL-TXDOT ◆ MEUG16 TYPE D-PEDESTAL-TXDOT ◆ MYERS TYPE D-TXDOT ◆ MYERS TYPE A-TXDOT

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Electrical Service			
Manufacturer	Brand	Type	Model
Associated Starters & Controls 310 Breesport, Ste. D San Antonio , TX 78216 (210) 798-1334 (888) 798-1334	ASC	<ul style="list-style-type: none"> ◆ A ◆ C ◆ D ◆ T ◆ T-Auxiliary ◆ A - Pedestal ◆ D - Pedestal 	<ul style="list-style-type: none"> ◆ ASC TYPE A-TXDOT ◆ ASC TYPE C-TXDOT ◆ ASC TYPE D-TXDOT ◆ ASC TYPE T-TXDOT ◆ ASC TYPE T-AUX-TXDOT ◆ ASC TYPE A-PEDESTAL - TXDOT ◆ ASC TYPE D-PEDESTAL - TXDOT
Milbank Manufacturing Co. 4801 Deramus Kansas City , MO 64120 (816) 483-5314 (Main Switch Board) (660) 463-0800 (Commercial Pedestal) http://milbankmfg.com	Milbank	<ul style="list-style-type: none"> ◆ A - Pedestal ◆ A - Pedestal ◆ D - Pedestal 	<ul style="list-style-type: none"> ◆ MB TYPE A-PEDESTAL –TXDOT (120/240) ◆ MB TYPE A-PEDESTAL –TXDOT (240/480) ◆ MB TYPE D-PEDESTAL –TXDOT (120/240)

Electrical Service			
Manufacturer	Brand	Type	Model
Dynamic Automation & Controls 10560 Sentinel San Antonio , TX 78217 (210) 267-2489 (855) 465-6099 http://dynamic-ac.com	Dynamic Automation & Controls	<ul style="list-style-type: none"> ◆ A ◆ A-Pedestal ◆ D ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TYPE A-POLE MOUNT ◆ TYPE A-PEDESTAL ◆ TYPE D-POLE MOUNT ◆ TYPE D-PEDESTAL

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

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
<p>Mersen USA</p> <p>374 Merrimac Street Newburyport, MA 01950 (978) 462-6662</p> <p>http://ep-us.mersen.com/</p> <p>Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut.</p>	<p>Ferraz Shawmut</p>	<ul style="list-style-type: none"> ◆ Single Pole ◆ Single Pole ◆ Dummy Fuse (Slug) 	<ul style="list-style-type: none"> ◆ FEB-81-81-BA when fused use slug ◆ FEBN-81-81-BA for neutral (non-fused) ◆ MNL30 - Slug <p>These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA. Installing contractor to supply dummy fuse-(slug).</p>
<p>Littelfuse Inc.</p> <p>800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188</p> <p>http://www.littelfuse.com</p>	<p>Littelfuse</p>	<ul style="list-style-type: none"> ◆ Single Pole ◆ Single Pole ◆ Dummy Fuse (Slug) 	<ul style="list-style-type: none"> ◆ LEB-JJ-S-WPB1 when fused use slug ◆ LET-JJ-S-WPB1 for neutral (non-fused) ◆ Not available at this time <p>These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA. Installing contractor to supply dummy fuse-(slug).</p>
<p>Eaton –Bussmann Series</p> <p>114 Old State Road Ellisville, MO 63021 (855) 287-7626</p> <p>http://www.cooperindustries.com/content/public/en/bussmann/electrical.html</p>	<p>Bussmann</p>	<ul style="list-style-type: none"> ◆ Single Pole ◆ Single Pole ◆ Dummy Fuse (Slug) 	<ul style="list-style-type: none"> ◆ HEB-JW-RLC-J when fused use slug ◆ HET-JW-RLC-J for neutral (non-fused) ◆ NNB - Slug <p>These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA. Installing contractor to supply dummy fuse-(slug).</p>

Breakaway Holders-Non-Fused			
Manufacturer	Brand	Type	Model
Ideal Industries, Inc. 1375 Park Avenue Sycamore, IL 60178 (800) 435-0705 http://www.idealindustries.com	Ideal – Buchanan SLK	<ul style="list-style-type: none"> ◆ Single Pole ◆ Single Pole ◆ Dummy Fuse (Slug) 	<ul style="list-style-type: none"> ◆ 30-S1212 when fused use slug ◆ 30-S1212N for neutral (non-fused) ◆ Not available at this time <p>These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPREBA. Installing contractor to supply dummy fuse-(slug).</p>

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

**Roadway Illumination and Electrical Supplies
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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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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://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	Type	Model
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ UDP-165-QL-GR
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	<ul style="list-style-type: none"> ◆ 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 	<ul style="list-style-type: none"> ◆ 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	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ SP2343

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
<p>H.E. Williams</p> <p>831 W. Fairview Ave. P.O. Box 837 Carthage, MO 64836 (417) 358-4065</p> <p>http://www.hew.com</p>	<p>Infinity</p>	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture ◆ BB Box Beam ◆ BD Bridge Deck ◆ UB U-Beam 	<ul style="list-style-type: none"> ◆ ICERL1-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL3-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL5-150S-41K-BAT/CG1-14DEG-UNV
<p>Eaton (formerly Cooper)</p> <p>1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800</p> <p>http://www.cooperindustries.com/content/public/en/lighting/brands/streetworks.html</p>	<p>Fail-Safe</p>	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ TF28-150ICE-UNV-A1432

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Roadway Illumination Assemblies – Luminaire			
Manufacturer	Brand	Type	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	<ul style="list-style-type: none"> ◆ 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 	<ul style="list-style-type: none"> ◆ OVW15SMJ3DD0004 ◆ OVW25SMG2DD0001 ◆ OVW25SMJ2DD0002 ◆ OVW40SMG2DD0005 ◆ OVW40SMJ2DD0003
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingsystems.com	M4RC	<ul style="list-style-type: none"> ◆ 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 	<ul style="list-style-type: none"> ◆ 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	<ul style="list-style-type: none"> ◆ 250W HPS- 120 Volt ◆ 250W HPS- 240 Volt ◆ 250W HPS- 480 Volt ◆ 400W HPS- 120Volt ◆ 400W HPS- 240Volt ◆ 400W HPS- 480 Volt 	<ul style="list-style-type: none"> ◆ G25RHP12LNRHGBR-TXDOT ◆ G25RHP24LNRHGBR-TXDOT ◆ G25RHP48LNRHGBR-TXDOT ◆ G40RHP12LNRHGBR-TXDOT ◆ G40RHP24LNRHGBR-TXDOT ◆ G40RHP48LNRHGBR-TXDOT

Roadway Illumination Assemblies – LED Luminaire			
Manufacturer	Brand	Type	Model
TraStar 860 N. Dorothy Drive #600 Richardson, TX 75081 (972) 480-0888 http://www.trastarusa.com	Duralight	◆ 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

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Roadway Illumination Assemblies – Luminaire			
Manufacturer	Brand	Type	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 EQ LED (72W)-120/240 VOLT LLF=0.86	◆ VERD-A028-D-U-T3-4N7-20K-AP-TXDOT-D0077
		◆ 150W EQ LED (72W)-480 VOLT LLF=0.86	◆ VERD-A028-D-8-T3-4N7-20K-AP-TXDOT-D0078
		◆ 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-TXDOT-D0028
		◆ 400W EQ LED (180W)-120/240 Volt; LLF=0.81	◆ VERD-M-A03-D-U-T2-4N7-20K-AP-TXDOT-D0004
		◆ 400W EQ LED (180W)-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

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Roadway Illumination Assemblies – LED Luminaire			
Manufacturer	Brand	Type	Model
<p>GreenStar</p> <p>6900 Alamo Downs Pkwy Suite 120 San Antonio, TX 78238</p> <p>http://greenstarled.com/</p>	GreenStar	<ul style="list-style-type: none"> ◆ 150W EQ LED (100W)- 120/240 Volt; LLF=0.74 ◆ 150W EQ LED (100W)- 480 Volt; LLF=0.74 ◆ 250W EQ LED (170W)- 120/240 Volt; LLF=0.74 ◆ 250W EQ LED (170W)- 480 Volt; LLF=0.74 ◆ 400W EQ LED (240W)- 120/240 Volt; LLF=0.74 ◆ 400W EQ LED (240W)- 480 Volt; LLF=0.74 	<ul style="list-style-type: none"> ◆ XAVX08431SNXXI ◆ XAVH08434SNXXI ◆ XAVX12431SNXXI; old part # AV12431SN ◆ XAVH12434SNXXI; old part # AV12434SN ◆ XAVX20431SNXXI ◆ XAVH20434SNXXI
<p>GE Lighting Solutions</p> <p>3010 Spartanburg Hwy East Flat Rock, NC 28726</p> <p>http://www.gelighting.com</p>	Evolve	<ul style="list-style-type: none"> ◆ 150W EQ LED (78W)- 120V; LLF=0.80 ◆ 150W EQ LED (78W)- 240V; LLF=0.80 ◆ 150W EQ LED (78W)- 480V; LLF=0.80 ◆ 250W EQ LED (130W)- 240V; LLF=0.79 ◆ 250W EQ LED (130W)- 480V; LLF=0.79 ◆ 400W EQ LED (285W)- 240V; LLF=0.70 ◆ 400W EQ LED (285W)- 480V; LLF=0.70 	<ul style="list-style-type: none"> ◆ ERS11B3D17404GRAY12 0 ◆ ERS13B3D17404GRAY12 0 ◆ ERS15B3D17404GRAY08 1 ◆ ERS20E3E17404GRAY08 3 ◆ ERS2HE3E17404GRAY13 4 ◆ ERS20H3E11404GRAY13 5 ◆ ERS2HH3E11404GRAY13 6
<p>Philips</p> <p>Philips Lighting 200 Franklin Square Drive Somerset, NJ 08873</p> <p>http://www.lightingproducts.philips.com/</p>	Lumec	<ul style="list-style-type: none"> ◆ 250W EQ LED (120W)- 120/240V; LLF=0.833 ◆ 250W EQ LED (120W)- 480V; LLF=0.833 ◆ 400W EQ LED (200W)- 120/240V; LLF=0.833 ◆ 400W EQ LED (200W)- 480V; LLF=0.833 	<ul style="list-style-type: none"> ◆ [RFM-004]- 108W48LED4K-T-R2M- [UNIV-009]-DMG-ML- RCD-SP2-GY3 ◆ [RFM-004]- 108W48LED4K-T-R2M- [HVU-002]-DMG-ML- RCD-SP2-GY3 ◆ [RFL-006] 180W80LED4K-T-R2M- [UNIV-009]-DMG-ML- RCD-SP2-GY3 ◆ [RFL-006]- 180W80LED4K-T-R2M- [HVU-002]-DMG-ML- RCD-SP2-GY3

Roadway Illumination Assemblies – LED Luminaire			
Manufacturer	Brand	Type	Model
Acuity Acuity Brands Lighting, Inc. 3825 Columbus Rd. Granville, OH 43023 http://www.acuitybrands.com	American Electric	◆ 150W EQ LED (70W)- 120/240V; LLF=0.742	◆ ATB0 20BLEDE10 MVOLT R3 20 BL NL SH F2 RFD22058
		◆ 150W EQ LED (70W)- 480V; LLF=0.742	◆ ATB0 20BLEDE10 480 R3 20 BL NL SH F2 RFD209795
		◆ 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

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High Pressure Sodium Lamps			
Manufacturer	Brand	Type	Model
<p>Osram Sylvania</p> <p>100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828</p> <p>http://www.sylvania.com/</p>	<p>Sylvania - Lumalux Plus®/ECO</p>	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 67312 - LU400/PLUS/ECO ◆ 67572 - LU250/PLUS/ECO ◆ 67494 -LU150/55/PLUS/ECO
<p>Philips Lighting Company</p> <p>200 Franklin Square Dr. P.O. Box 6800 Somerset, NJ 08875 (800) 555-0050</p> <p>http://www.lighting.philips.com</p>	<p>Philips - Ceramalux®/ALTO® Non-Cycling Lamp</p>	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 14743-9 – C400S51/ALTO NC HPS ◆ 14742-1 – C250S50/ALTO NC HPS ◆ 14741-3 – C150S55/ALTO NC HPS
<p>GE Lighting</p> <p>Nela Park, 1975 Noble Rd. Cleveland, OH 44112 (216) 266-2121</p> <p>http://www.gelighting.com</p>	<p>GE – EcoluxNC™</p>	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 14675 – LU400/ECO/NC ◆ 14674 – LU250/ECO/NC ◆ 40390 – LU150/55/ECO/NC

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 ◆ NSI-TORK S895 * * 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)

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
<p>Eaton –Bussmann Series</p> <p>114 Old State Road Ellisville, MO 63021 (855) 287-7626</p> <p>http://www.cooperindustries.com/content/public/en/bussmann/electrical.html</p>	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>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.</p>
<p>Littelfuse Inc.</p> <p>800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188</p> <p>http://www.littelfuse.com</p>	Littelfuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ OLEXYYSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>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.</p>
<p>Mersen USA</p> <p>374 Merrimac Street Newburyport, MA 01950 (978) 462-6662</p> <p>http://www.ferrazshawmut.com</p> <p>Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut.</p>	Ferraz Shawmut	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ FEX-91-91-BA – used when no neutral is required ◆ FEXN-91-91-BA – used when neutral is present <p>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.</p>

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Ideal Industries, Inc. 1 Becker Place Sycamore, IL 60178 (800) 435-0705 http://www.idealindustries.com/	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.

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Optional and Non-Standard Illumination Pole Designs and Shop Drawings			
Manufacturer	Brand	Type	Model
Hapco 26252 Hillman Highway Abingdon, VA 24210 (800) 368-7171 http://www.hapco.com/	Hapco	♦ 40 Ft.-Aluminum - T-Base mounted with (1) 8Ft. Arm Only	♦ Based on Drawing # B15138 and B15136

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Breakaway Transformer Base			
Manufacturer	Brand	Type	Model
Akron Foundry Co. 2728 Wingate Ave. Akron, OH 44314 (330) 745-3101 http://www.akronfoundry.com	Akron	<ul style="list-style-type: none"> ◆ Breakaway Transformer Base for Luminaire Poles Less Than 40 Foot Height ◆ Breakaway Transformer Base for Luminaire Poles 40 to 50 Foot Height 	<ul style="list-style-type: none"> ◆ TB1-17 ◆ TB3-17

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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.

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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	Type	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.gelightingssystem.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 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 – EcoluxNG™	◆ 400 Watt Lamp	◆ 14675 – LU400/ECO/NC

High Mast Kit

Manufacturer	Brand	Type	Model
Mica Corporation 5750 N. Riverside Dr. Fort Worth, TX 76137 (817) 577-2088 http://www.micacorporation.com	Mica Corporation	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-PH ◆ HMK-150-PH ◆ HMK -175-PH
Carolina High Mast, Inc. 700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046	Carolina High Mast, Inc.	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-CHMI ◆ HMK-150-CHMI ◆ HMK -175-CHMI
Rexel 2400 Brockton San Antonio, TX 78217 (210) 352-1047 http://www.rexelusa.com	Rexel	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-RX ◆ HMK-150-RX ◆ HMK -175-RX

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High Mast Kit			
Manufacturer		Type	
Wildcat Electric Supply, Ltd. 2061 Clovis Barker Road #5. San Marcos, TX 77666 (512) 396-8900 (866) 301-5200 http://www.wildcatelectric.com	Wildcat	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-WC ◆ HMK-150-WC ◆ HMK -175-WC
Stratus Products Division of Structural & Steel Products, Inc 1320 South University Suite 701 Fort Worth, TX 76107 (800) 782-5804 http://stratusprod.com	Stratus Products	<ul style="list-style-type: none"> ◆ High Mast – 100 Foot ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-100-SSPI ◆ HMK-125-SSPI ◆ HMK-150-SSPI ◆ HMK -175-SSPI
Millerbernd Manufacturing Company 622 6 th Street South Winsted, MN 55395 (320) 485-2111 FAX (320) 485-2220 http://www.millerberndmfg.com	Millerbernd	<ul style="list-style-type: none"> ◆ High Mast – 100 Foot ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ MMC100KIT ◆ MMC125KIT ◆ MMC150KIT ◆ MMC175KIT

High Mast Ring- Previously Approved Shop Drawings			
Manufacturer		Type	
<p>J.W. Hall Enterprises, Inc.</p> <p>17731 Elizabeth Rd. Algoa, TX 77511 (281) 337-6311</p> <p>http://www.jwhall.com</p>		<p>◆ High Mast Ring</p> <p>Drawing # HM 2002-01 Sheets 1 through 6 Drawing # HE 2002 Sheets 7 through 9</p>	
<p>Carolina High Mast, Inc.</p> <p>700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046</p>		<p>◆ High Mast Ring</p> <p>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</p>	
<p>Traffic Control Devices</p> <p>4417 Main Street Pearland, TX 77581 (281) 992-3030</p> <p>http://www.tcd.cc</p>		<p>◆ High Mast Ring</p> <p>Drawing # E-901 Sheets 1 through 10</p>	

High Mast Ring- Previously Approved Shop Drawings			
Manufacturer		Type	
Brookfield Fabricating Corp. Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214		♦ High Mast Ring 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 228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638 http://www.pkmsteel.com/		♦ High Mast Ring Sheet E1 Dated 8-2-05 Sheet 1 Dated 10-12-05 Sheet 2 Dated 10-12-05 Sheet 3 Dated 10-12-05	

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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.

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

Rigid Metallic Conduit – (RMC)			
Manufacturer	Brand	Type	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"

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

PolyVinyl Chloride Pipe- (PVC)			
Manufacturer	Brand	Type	Model
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791 http://www.heritageplastics.com/	Heritage	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
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 1/4" to 6"
OMNI 259 Plauche Street Harahan, LA 70123 (504) 736-0331 http://www.omni-opti.com	OMNI	◆ PVC	◆ Schedule 40 - Trade Sizes from 1/2" to 6" ◆ Schedule 80 - Trade Sizes from 2" to 6"
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 1/4" to 6" in 10' lengths – All model #'s start with UL ◆ Schedule 40 – Trade Sizes from 1 1/4" to 6" in 20' lengths – All model #'s start with UL

PolyVinyl Chloride Pipe- (PVC)																																										
Manufacturer	Brand	Type	Model																																							
JM Eagle 5200 West Century Boulevard Los Angeles, CA 90045 (800) 621-4404 http://www.jmeagle.com	JM Eagle	◆ PVC	<table border="0"> <tr> <td></td> <td><u>Schedule 40</u></td> <td><u>Schedule 80</u></td> </tr> <tr> <td>◆ ½"</td> <td>0.5 S40 UL</td> <td>0.5 S80 UL</td> </tr> <tr> <td>◆ ¾"</td> <td>0.75 S40 UL</td> <td>0.75 S80 UL</td> </tr> <tr> <td>◆ 1"</td> <td>1 S40 UL</td> <td>1 S80 UL</td> </tr> <tr> <td>◆ 1 ¼"</td> <td>1.25 S40 UL</td> <td>1.25 S80 UL</td> </tr> <tr> <td>◆ 1 ½"</td> <td>1.50 S40 UL</td> <td>1.50 S80 UL</td> </tr> <tr> <td>◆ 2"</td> <td>2 S40 UL</td> <td>2 S80 UL</td> </tr> <tr> <td>◆ 2 ½"</td> <td>2.5 S40 UL</td> <td>2.5 S80 UL</td> </tr> <tr> <td>◆ 3"</td> <td>3 S40 UL</td> <td>3 S80 UL</td> </tr> <tr> <td>◆ 3 ½"</td> <td>3.5 S40 UL</td> <td>3.5 S80 UL</td> </tr> <tr> <td>◆ 4"</td> <td>4 S40 UL</td> <td>4 S80 UL</td> </tr> <tr> <td>◆ 5"</td> <td>5 S40 UL</td> <td>5 S80 UL</td> </tr> <tr> <td>◆ 6"</td> <td>6 S40 UL</td> <td>6 S80 UL</td> </tr> </table>		<u>Schedule 40</u>	<u>Schedule 80</u>	◆ ½"	0.5 S40 UL	0.5 S80 UL	◆ ¾"	0.75 S40 UL	0.75 S80 UL	◆ 1"	1 S40 UL	1 S80 UL	◆ 1 ¼"	1.25 S40 UL	1.25 S80 UL	◆ 1 ½"	1.50 S40 UL	1.50 S80 UL	◆ 2"	2 S40 UL	2 S80 UL	◆ 2 ½"	2.5 S40 UL	2.5 S80 UL	◆ 3"	3 S40 UL	3 S80 UL	◆ 3 ½"	3.5 S40 UL	3.5 S80 UL	◆ 4"	4 S40 UL	4 S80 UL	◆ 5"	5 S40 UL	5 S80 UL	◆ 6"	6 S40 UL	6 S80 UL
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◆ 6"	6 S40 UL	6 S80 UL																																								

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High-Density 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 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	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) ◆ 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)

High-Density Polyethylene Conduit (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	♦ HDPE Conduit – Schedule 40 Color - Black	<ul style="list-style-type: none"> ♦ 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

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Precast Polymer Concrete Junction Box for Concrete Traffic Barrier			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.quazite.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ Median Barrier Box ◆ Median Barrier Box – for Concrete Barrier (F-Shape) ◆ Junction Box w/Cover OD – 9 X 11 X 7 ¼” ID – 7 ⅜ X 9 ⅜ X 6 ½” 	<ul style="list-style-type: none"> ◆ PC1012B500/PC1012CA00 ◆ PC0516B500/PC0516CA00 ◆ PC0608Z503831 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	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. McKinney, TX 75069 (800) 962-9473 http://www.encorewire.com/	Encore	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 1000 kcmil
Service Wire Company 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	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil ♦ 6 AWG & 8AWG Available in Black Only
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (570) 385-4381 http://www.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 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

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
<p>Falcon Fine Wire</p> <p>2401 Discovery Blvd. Rockwall, TX 75032 (800) 874-7230 (214) 771-3441</p> <p>http://www.falconfinewire.com</p>	Falcon	<ul style="list-style-type: none"> ◆ XHHW-2 Or ◆ XHHW 	<ul style="list-style-type: none"> ◆ Available in 14 AWG through 4000 kcmil Available Jacket Colors: Black, Red, White, Green 3090194 – ETL Number Will Be Printed On Jacket
<p>Republic Wire Inc.</p> <p>5525 Union Centre Drive West Chester, OH 45069 (513) 860-1800</p> <p>http://www.republicwire.com</p>	Republic Wire Inc.	<ul style="list-style-type: none"> ◆ XHHW-2 Or ◆ XHHW 	<ul style="list-style-type: none"> ◆ 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 ◆ Bare Copper Soft Drawn Solid and Stranded 8AWG - 2AWG
<p>Coleman Cable, Inc.</p> <p>1530 Shields Drive Waukegan, IL 60085 (800) 325-9355</p> <p>http://www.colemancable.com</p>	CCI	<ul style="list-style-type: none"> ◆ XHHW-2 	<p>Available in Black Only</p> <ul style="list-style-type: none"> ◆ 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

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
<p>Eaton –Bussmann Series</p> <p>114 Old State Road Ellisville, MO 63021 (855) 287-7626</p> <p>http://www.cooperindustries.com/content/public/en/bussmann/electrical.html</p>	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>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.</p>
<p>Littelfuse Inc.</p> <p>800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188</p> <p>http://www.littelfuse.com</p>	Littelfuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 0LEXYYSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>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.</p>
<p>Mersen USA</p> <p>374 Merrimac Street Newburyport, MA 01950 (978) 462-6662</p> <p>http://www.ferrazshawmut.com</p> <p>Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut.</p>	Ferraz Shawmut	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ FEX-91-91-BA – used when no neutral is required ◆ FEXN-91-91-BA – used when neutral is present <p>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.</p>

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Ideal Industries, Inc. 1 Becker Place Sycamore, IL 60178 (800) 435-0705 http://www.idealindustries.com/	Ideal-Buchanan SLK	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 30-S2222D – used when no neutral is required ◆ 30-S2222P – used when neutral is present <p>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.</p>

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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.

Tray Cable- XHHW Conductors with Overall PVC Jacket			
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 Carrollton, 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

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

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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	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 Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Southwire Corporation One Southwire Drive Carrollton, GA 30119 (770) 832-4242 http://www.southwire.com/	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. 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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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	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.quazite.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PG1324B512 / PG1324H506 ◆ 2PG1324B512 / PG1324H506 ◆ PG1730B512 / PG1730H507 ◆ PG1730B517 / PG1730H507 ◆ PG1324B514 / PG1324H506
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 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)
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 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 13230 Saticoy St. North Hollywood, CA. 91605 (818) 982-3600 http://www.armorcastprod.com/	Armor cast	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For All Boxes	<ul style="list-style-type: none"> ◆ A6001946TAPCX12 ◆ A6001946TAPCX24 ◆ A6001640TAPCX12 ◆ A6001640TAPCX22 ◆ A6001946TAPCX18 <ul style="list-style-type: none"> ◆ 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
NewBasis 2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747 http://www.newbasis.com/	NewBasis	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ PCB132412G482 ◆ (2) PCB132412G482
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PCC1324DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1324DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 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 2 Inverness St. Candiac, Quebec Canada J5R 4WS Toll Free (888) 868-5214 http://www.synertechproducts.com	Synertech	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ S132412HH90 ◆ S132424HH90 ◆ S173012HH90 ◆ S173024HH90 ◆ S132418HH90
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 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	<ul style="list-style-type: none"> ◆ S1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ S1730HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

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Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Oldcastle Enclosure Solutions 2434 Rubidoux Blvd. Riverside, CA. 92509 (800) 735-5566 (713) 875-8030 http://www.oldcastleprecast.com/enclosuresolutions Carson Industries, LLC. is now Oldcastle Enclosure Solutions 8-29-2013 Model numbers are the same	Oldcastle	♦ A ♦ B	♦ 13242030 ♦ 13242032
		♦ C ♦ D ♦ E Cover For Type A, B & E	♦ 17302061 ♦ 17302063 ♦ 13242031 ♦ 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ♦ 13244156- DANGER HIGH VOLTAGE/ILLUMINATION ♦ 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	Type	Model
CDR Systems Corporation 146 South Atlantic Ave. Ormond Beach, FL. 32176 (386) 615-9510 http://www.cdrcsystems.com/	cdr	◆ A	◆ SB14-1324-12-0287
		◆ B	◆ SB14-1324-12-0287 -2 boxes stacked
		◆ C	◆ SB14-1730-12-0494
		◆ D	◆ SC14-1730-22-0499
		◆ E	◆ SB14-1324-18-0288
		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. 131 Hartwell Ave. Lexington, MA. 02421 (781) 328-3220 http://www.highlineproducts.com	Highline	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover Logo Information XX in each model will be replaced with : <ul style="list-style-type: none"> ◆ 20 ◆ 21 ◆ 22 ◆ 23 ◆ 24 Ordering covers only, Contact Manufacturer	<ul style="list-style-type: none"> ◆ PHA132412HTD-XX ◆ PHA132424HTD-XX ◆ PHA173012HTD-XX ◆ PHA173024HTD-XX ◆ PHA132418HTD-XX <ul style="list-style-type: none"> ◆ DANGER HIGH VOLTAGE ◆ DANGER HIGH VOLTAGE/ ILLUMINATION ◆ DANGER HIGH VOLTAGE/ SIGN ILLUMINATION ◆ DANGER HIGH VOLTAGE/ TRAFFIC MANAGEMENT ◆ DANGER HIGH VOLTAGE/ TRAFFIC SIGNALS

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Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Duravault 310 Weathers Dr. Laredo, TX. 78045 (885) 250-3993 http://www.duravault.com	Duravault	◆ A	◆ PC132412STBTXD-XX (122311)
		◆ B	◆ PC132422STBTXD-XX (122322)
		◆ C	◆ PC173012STBTXD-XX (162911)
		◆ D	◆ PC173022STBTXD-XX (162922)
		◆ E	◆ PC132418STBTXD-XX (122317)
		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”

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Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Martin Enterprises 19940 Hansen Avenue Nuevo, CA 92567 (951) 928-8413 http://www.martinfrp.com	Martin	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ 1324/12 PC Type A Tier 15 Rated ◆ 1324/24 PC Type B Tier 15 Rated ◆ 1730/18 PC Type C Tier 15 Rated ◆ 1730/24 PC Type D Tier 15 Rated ◆ 1324/18 PC Type E Tier 15 Rated
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 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	<ul style="list-style-type: none"> ◆ 1730 Cover Traffic Signal / DANGER - HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 1730 Cover Illumination / DANGER - HIGH VOLTAGE/ILLUMINATION ◆ 1730 Cover Traffic Management / DANGER - HIGH VOLTAGE/TRAFFIC MANAGEMENT

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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 (210) 599-6485 (888) 853-8944 http://www.electrolsystems.com/	Electrol	<ul style="list-style-type: none"> ◆ A ◆ C ◆ C- Auxiliary Only ◆ D ◆ T- Auxiliary Only ◆ T-All in One ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ ELECTROL TYPE A-TXDOT ◆ ELECTROL TYPE C-TXDOT ◆ ELECTROL TYPE C- Auxiliary Only – TXDOT ◆ ELECTROL TYPE D-TXDOT ◆ ELECTROL TYPE T- Auxiliary Only - TXDOT ◆ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT ◆ ELECTROL TYPE A-PEDESTAL-TXDOT ◆ ELECTROL TYPE D-PEDESTAL-TXDOT
WE Manufacturing 5535 Harvey Wilson Drive Houston , TX 77020 (713) 676-2298 (800) 880-9453 http://www.wemanufacturing.com/	WE	<ul style="list-style-type: none"> ◆ A ◆ C ◆ C- Auxiliary Only ◆ D ◆ T- Auxiliary Only ◆ T-All in One ◆ A – Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ WE TYPE A-TXDOT ◆ WE TYPE C-TXDOT ◆ WE TYPE C- Auxiliary Only –TXDOT ◆ WE TYPE D-TXDOT ◆ WE TYPE T- Auxiliary Only –TXDOT ◆ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ WE TYPE A- PEDESTAL – TXDOT ◆ WE TYPE D-PEDESTAL – TXDOT

Electrical Service

Manufacturer	Brand	Type	Model
<p>Mica Corporation</p> <p>P.O. Box 161609 Fort Worth , TX 77020 (817) 847-6121 (817) 577-2088</p> <p>http://micacorporation.com</p>	<p>Mica</p>	<ul style="list-style-type: none"> ◆ A ◆ C ◆ D ◆ T- Auxiliary Only ◆ T-All in One 	<ul style="list-style-type: none"> ◆ MICA TYPE A-TXDOT ◆ MICA TYPE C-TXDOT ◆ MICA TYPE D-TXDOT ◆ MICA TYPE T- Auxiliary Only –TXDOT ◆ MICA TYPE T- ALL IN ONE ENCLOSURE –TXDOT
<p>Specialty Control Systems</p> <p>629 SH 3 League City , TX 77573 (281) 332-0999</p> <p>http://www.specialtycontrol.com/</p>	<p>SCS</p>	<ul style="list-style-type: none"> ◆ A ◆ D ◆ T-All in One ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ SCS TYPE A-TXDOT ◆ SCS TYPE D-TXDOT ◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ SCS TYPE D-PEDESTAL-TXDOT

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Electrical Service			
Manufacturer	Brand	Type	Model
Tesco Controls, Inc. 3434 52 nd Ave. Sacramento , CA 95823 (916) 395-8800 http://www.tescocontrols.com	Tesco	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ C-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240) ◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480) ◆ TESCO TYPE C-PEDESTAL-TXDOT ◆ TESCO TYPE D-PEDESTAL-TXDOT
Myers Power Products, Inc. 725 E. Harrison St. Corona , CA 92879 (951) 520-1900 (866) 696-9377 http://www.myerspowerproducts.com	Myers	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ D-Pedestal ◆ D ◆ A 	<ul style="list-style-type: none"> ◆ MEUG16 TYPE A-PEDESTAL-TXDOT ◆ MEUG16 TYPE D-PEDESTAL-TXDOT ◆ MYERS TYPE D-TXDOT ◆ MYERS TYPE A-TXDOT

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Electrical Service			
Manufacturer	Brand	Type	Model
Associated Starters & Controls 310 Breesport, Ste. D San Antonio , TX 78216 (210) 798-1334 (888) 798-1334	ASC	<ul style="list-style-type: none"> ◆ A ◆ C ◆ D ◆ T ◆ T-Auxiliary ◆ A - Pedestal ◆ D - Pedestal 	<ul style="list-style-type: none"> ◆ ASC TYPE A-TXDOT ◆ ASC TYPE C-TXDOT ◆ ASC TYPE D-TXDOT ◆ ASC TYPE T-TXDOT ◆ ASC TYPE T-AUX-TXDOT ◆ ASC TYPE A-PEDESTAL - TXDOT ◆ ASC TYPE D-PEDESTAL - TXDOT
Milbank Manufacturing Co. 4801 Deramus Kansas City , MO 64120 (816) 483-5314 (Main Switch Board) (660) 463-0800 (Commercial Pedestal) http://milbankmfg.com	Milbank	<ul style="list-style-type: none"> ◆ A - Pedestal ◆ A - Pedestal ◆ D - Pedestal 	<ul style="list-style-type: none"> ◆ MB TYPE A-PEDESTAL –TXDOT (120/240) ◆ MB TYPE A-PEDESTAL –TXDOT (240/480) ◆ MB TYPE D-PEDESTAL –TXDOT (120/240)

Electrical Service			
Manufacturer	Brand	Type	Model
Dynamic Automation & Controls 10560 Sentinel San Antonio , TX 78217 (210) 267-2489 (855) 465-6099 http://dynamic-ac.com	Dynamic Automation & Controls	<ul style="list-style-type: none"> ◆ A ◆ A-Pedestal ◆ D ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TYPE A-POLE MOUNT ◆ TYPE A-PEDESTAL ◆ TYPE D-POLE MOUNT ◆ TYPE D-PEDESTAL

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Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 or ◆ NSI-TORK S895 * * Tork 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)

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
<p>Mersen USA</p> <p>374 Merrimac Street Newburyport, MA 01950 (978) 462-6662</p> <p>http://ep-us.mersen.com/</p> <p>Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut.</p>	<p>Ferraz Shawmut</p>	<ul style="list-style-type: none"> ◆ Single Pole ◆ Single Pole ◆ Dummy Fuse (Slug) 	<ul style="list-style-type: none"> ◆ FEB-81-81-BA when fused use slug ◆ FEBN-81-81-BA for neutral (non-fused) ◆ MNL30 - Slug <p>These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA. Installing contractor to supply dummy fuse-(slug).</p>
<p>Littelfuse Inc.</p> <p>800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188</p> <p>http://www.littelfuse.com</p>	<p>Littelfuse</p>	<ul style="list-style-type: none"> ◆ Single Pole ◆ Single Pole ◆ Dummy Fuse (Slug) 	<ul style="list-style-type: none"> ◆ LEB-JJ-S-WPB1 when fused use slug ◆ LET-JJ-S-WPB1 for neutral (non-fused) ◆ Not available at this time <p>These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA. Installing contractor to supply dummy fuse-(slug).</p>
<p>Eaton –Bussmann Series</p> <p>114 Old State Road Ellisville, MO 63021 (855) 287-7626</p> <p>http://www.cooperindustries.com/content/public/en/bussmann/electrical.html</p>	<p>Bussmann</p>	<ul style="list-style-type: none"> ◆ Single Pole ◆ Single Pole ◆ Dummy Fuse (Slug) 	<ul style="list-style-type: none"> ◆ HEB-JW-RLC-J when fused use slug ◆ HET-JW-RLC-J for neutral (non-fused) ◆ NNB - Slug <p>These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA. Installing contractor to supply dummy fuse-(slug).</p>

Breakaway Holders-Non-Fused			
Manufacturer	Brand	Type	Model
Ideal Industries, Inc. 1375 Park Avenue Sycamore, IL 60178 (800) 435-0705 http://www.idealindustries.com	Ideal – Buchanan SLK	<ul style="list-style-type: none"> ◆ Single Pole ◆ Single Pole ◆ Dummy Fuse (Slug) 	<ul style="list-style-type: none"> ◆ 30-S1212 when fused use slug ◆ 30-S1212N for neutral (non-fused) ◆ Not available at this time <p>These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPREBA. Installing contractor to supply dummy fuse-(slug).</p>

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



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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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.”

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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

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 (800) 453-6255 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 escolighting.com	ESCO	♦ Induction Fluorescent Underpass Fixture	♦ SP2343

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Item 610 - Roadway Illumination Assemblies – Underpass Fixture

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

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Item 610 - Roadway Illumination Assemblies – Luminaire

Manufacturer	Brand	Type	Model
Eaton (formerly Cooper) 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 cooperindustries.com	Streetworks	◆ 150W HPS- 240/480 Volt	◆ OVW15SMJ3DD0004
		◆ 250W HPS- 120/240 Volt	◆ OVW25SMG2DD0001
		◆ 250W HPS- 240/480 Volt	◆ OVW25SMJ2DD0002
		◆ 400W HPS- 120/240 Volt	◆ OVW40SMG2DD0005
		◆ 400W HPS- 240/480 Volt	◆ OVW40SMJ2DD0003
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 gelightingsystems.com	M4RC	◆ 150W HPS- 240/480 Volt	◆ M4RC15S9M4GMC3312 or GE Manufacture #180055
		◆ 250W HPS- 120/240 Volt	◆ M4RC25S7M4GSC2311 or GE Manufacture #168025
		◆ 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 3825 Columbus Road SW Granville, OH 43023 (740) 587-4030 FAX (866) 761-9819 holophane.com	Mongoose	◆ 250W HPS- 120 Volt	◆ G25RHP12LNRHGBR-TXDOT
		◆ 250W HPS- 240 Volt	◆ G25RHP24LNRHGBR-TXDOT
		◆ 250W HPS- 480 Volt	◆ G25RHP48LNRHGBR-TXDOT
		◆ 400W HPS- 120Volt	◆ G40RHP12LNRHGBR-TXDOT
		◆ 400W HPS- 240Volt	◆ G40RHP24LNRHGBR-TXDOT
		◆ 400W HPS- 480 Volt	◆ G40RHP48LNRHGBR-TXDOT

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Item 610 - Roadway Illumination Assemblies – LED Luminaire

Manufacturer	Brand	Type	Model
TraStar 860 N. Dorothy Drive #600 Richardson, TX 75081 (972) 480-0888 trastarusa.com	Duralight	◆ 150W EQ LED - (66W)-120/240 Volt; LLF=0.86	◆ DURA-ST15-4K-120-3-GR-SCLB
		◆ 150W EQ LED - (66W)- 480 Volt; LLF=0.86	◆ DURA-ST15-4K-120-3-GR-SCLB
		◆ 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-ST140-3-40K-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-ST180-3-40K-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		

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Item 610 - Roadway Illumination Assemblies – LED Luminaire

Manufacturer	Brand	Type	Model
Eaton (formerly Cooper) 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 cooperindustries.com	Streetworks	◆ 150W EQ LED (72W)-120/240 VOLT LLF=0.86	◆ VERD-A028-D-U-T3-4N7-20K-AP-TXDOT-D0077
		◆ 150W EQ LED (72W)-480 VOLT LLF=0.86	◆ VERD-A028-D-8-T3-4N7-20K-AP-TXDOT-D0078
		◆ 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-TXDOT-D0028
		◆ 400W EQ LED (180W)- 120/240 Volt; LLF=0.81	◆ VERD-M-A03-D-U-T2-4N7-20K-AP-TXDOT-D0004
		◆ 400W EQ LED (180W)- 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		

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Item 610 - Roadway Illumination Assemblies – LED Luminaire

Manufacturer	Brand	Type	Model
GreenStar 6900 Alamo Downs Pkwy Suite 120 San Antonio, TX 78238 greenstarled.com	GreenStar	◆ 150W EQ LED (100W)-120/240 Volt; LLF=0.74	◆ XAVX08431SNXXI
		◆ 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 3010 Spartanburg Hwy East Flat Rock, NC 28726 gelightingsystems.com	Evolve	◆ 150W EQ LED (78W)-120V; LLF=0.80	◆ ERS11B3D17404GRAY120
		◆ 150W EQ LED (78W)-240V; LLF=0.80	◆ ERS13B3D17404GRAY120
		◆ 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

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Item 610 - Roadway Illumination Assemblies – LED Luminaire

Manufacturer	Brand	Type	Model
Philips Philips Lighting 200 Franklin Square Drive Somerset, NJ 08873 lightingproducts.philips.com	Lumec	◆250W EQ LED (120W)-120/240V; LLF=0.833	◆[RFM-004]-108W48LED4K-T-R2M-[UNIV-009]-DMG-ML-RCD-SP2-GY3
		◆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
Acuity Acuity Brands Lighting, Inc. 3825 Columbus Rd. Granville, OH 43023 acuitybrands.com	American Electric	◆150W EQ LED (70W)-120/240V; LLF=0.742	◆ATB0 20BLEDE10 MVOLTR3 20 BL NL SH F2 RFD22058
		◆150W EQ LED (70W)-480V; LLF=0.742	◆ATB0 20BLEDE10 480 R320 BL NL SH F2 RFD209795
		◆250W EQ LED (126W)-120/240V; LLF=0.815	◆ATB0 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
		◆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

Manufacturer	Brand	Type	Model
Osram Sylvania 100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828 sylvania.com	Sylvania – Lumalux Plus®/ECO	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 67312 - LU400/PLUS/ECO ◆ 67572 - LU250/PLUS/ECO ◆ 67494 -LU150/55/PLUS/ ECO
Philips Lighting Company 200 Franklin Square Dr. P.O. Box 6800 Somerset, NJ 08875 (800) 555-0050 lighting.philips.com	Philips - Ceramalux®/ALTO® Non-Cycling Lamp	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 14743-9 – C400S51/ALTO NC HPS ◆ 14742-1 – C250S50/ALTO NC HPS ◆ 14741-3 – C150S55/ALTO NC HPS
GE Lighting Nela Park, 1975 Noble Rd. Cleveland, OH 44112 (216) 266-2121 gelighting.com	GE – EcoluxNC™	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 14675 – LU400/ECO/NC ◆ 14674 – LU250/ECO/NC ◆ 40390 – LU150/55/ECO/NC

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Item 610 - Photoelectric Control - Photocell

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

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Item 610 - Breakaway Fuse-holders

Manufacturer	Brand	Type	Model
Eaton –Bussmann Series 114 Old State Road Ellisville,MO 63021 (855) 287-7626 cooperindustries.com	Bussmann	◆ Double-pole	◆ HEX-KW-DRYC – used when no neutral is required
		◆ Double-pole	◆ HEN-KW-DRYC – used when neutral is present
Littelfuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 littelfuse.com	Littelfuse	◆ Double-pole	◆ OLEXYYSX – used when no neutral is required
		◆ Double-pole	◆ LEXTOYYSX – 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.**

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.**

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Item 610 - Breakaway Fuse-holders

Manufacturer	Brand	Type	Model
<p>Mersen USA</p> <p>374 Merrimac Street Newburyport, MA 01950 (978) 462-6662</p> <p>ferrazshawmut.com</p> <p>Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut.</p>	Ferraz Shawmut	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ FEX-91-91-BA – used when no neutral is required ◆ FEXN-91-91-BA – used when neutral is present <p>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.</p>
<p>Ideal Industries, Inc.</p> <p>1 Becker Place Sycamore, IL 60178 (800) 435-0705</p> <p>idealindustries.com</p>	Ideal-Buchanan SLK	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 30-S2222D – used when no neutral is required ◆ 30-S2222P – used when neutral is present <p>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.</p>

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

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

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Item 610 - Breakaway Transformer Base

Manufacturer	Brand	Type	Model
Akron Foundry Co. 2728 Wingate Ave. Akron, OH 44314 (330) 745-3101 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

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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.

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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

Manufacturer	Brand	Type	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- HMSD	◆ High Mast – Type A	◆ HMSC40RHP48B9- TXDOT 12 TYPE A
		◆ High Mast – Type B	◆ HMSC40RHP48B9- TXDOT 12 TYPE B
		◆ High Mast – Type S	◆ 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 gelightingsystems.com	G.E.	◆ High Mast – Type A	◆ 159189
		◆ High Mast – Type B	◆ 159190
		◆ High Mast – Type C	◆ 159191
		◆ High Mast – Type S	◆ 159193
Eaton (formerly Cooper) 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 cooperindustries.com	Streetworks	◆ High Mast – Type A	◆ GMA40SM83DD0018
		◆ High Mast – Type B	◆ GMA40SM83DD0019
		◆ High Mast – Type C	◆ GMA40SM83DD0020
		◆ High Mast – Type S	◆ GMA40SM8ARD0017

Item 614 - High Pressure Sodium Lamps

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

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Item 614 - High Mast Kit

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

Item 614 - High Mast Ring- Previously Approved Shop Drawings

Manufacturer	Brand	Type	Model
<p>J.W. Hall Enterprises, Inc.</p> <p>17731 Elizabeth Rd. Algoa, TX 77511 (281) 337-6311</p> <p>jwhall.com</p>		<p>◆ High Mast Ring</p> <p>Drawing # HM 2002-01 Sheets 1 through 6 Drawing # HE 2002 Sheets 7 through 9</p>	
<p>Carolina High Mast, Inc.</p> <p>700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046</p>		<p>◆ High Mast Ring</p> <p>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</p>	
<p>Traffic Control Devices</p> <p>4417 Main Street Pearland, TX 77581 (281) 992-3030</p> <p>tcd.cc</p>		<p>◆ High Mast Ring</p> <p>Drawing # E-901 Sheets 1 through 10</p>	
<p>Brookfield Fabricating Corp.</p> <p>Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214</p>		<p>◆ High Mast Ring</p> <p>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</p>	
<p>PKM Steel Service</p> <p>228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638</p> <p>pkmsteel.com</p>		<p>◆ High Mast Ring</p> <p>Sheet E1 Dated 8-2-05 Sheet 1 Dated 10-12- 05 Sheet 2 Dated 10-12- 05 Sheet 3 Dated 10-12- 05</p>	

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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.

Item 618 - Rigid Metallic Conduit – (RMC)

Manufacturer	Brand	Type	Model
Allied Tube & Conduit 16100 S. Lathrop Avenue Harvey, IL 60426-6021 (800) 882-5543 alliedeg.us	Allied	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
Wheatland 900 Haddon Avenue P.O. Box 600 Collingswood, NJ 08108-0600 (800) 257-8182 wheatland.com	Wheatland	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
Republic Conduit 7301 Logistics Drive Louisville, KY 40258 (800) 840-8823 (502) 995-5900 republicconduit.com	Republic	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
Western Tube & Conduit Corp. 2001 E. Dominguez St. Long Beach, CA 90801-2720 (310) 537-6300 (800) 310-8823 westerntube.com	Western Conduit	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"

Item 618 - PolyVinyl Chloride Pipe- (PVC)

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

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Item 618 - PolyVinyl Chloride Pipe- (PVC)

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

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Item 618 - High-Density Polyethylene Conduit (HDPE)

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

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Item 618 - High-Density Polyethylene Conduit (HDPE)

Manufacturer	Brand	Type	Model
United Poly Systems, LLC 4707 E. Kearney St Springfield, MO 65803 (417)708-9887 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

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

Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 quazite.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ Median Barrier Box ◆ Median Barrier Box – for Concrete Barrier (F-Shape) ◆ Junction Box w/Cover OD – 9 X 11 X 7 ¼” ID – 7 ⅜ X 9 ⅜ X 6 ½”	<ul style="list-style-type: none"> ◆ PC1012B500/PC1012CA00 ◆ PC0516B500/PC0516CA00 ◆ PC0608Z503831 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.

Item 620 - 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. McKinney, TX 75069 (800) 962-9473 encorewire.com	Encore	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil
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 Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 southwire.com	Southwire	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil ♦ 6 AWG & 8AWG Available in Black Only
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 advanceddigitalcable.com	Advanced Digital	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil

Item 620 - Conductors – Type XHHW

Manufacturer	Brand	Type	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 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			
Falcon Fine Wire	Falcon	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 4000 kcmil
2401 Discovery Blvd. Rockwall, TX 75032 (800) 874-7230 (214) 771-3441 falconfinewire.com			Available Jacket Colors: Black, Red, White, Green 3090194 – ETL Number Will Be Printed On Jacket

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Item 620 - Conductors – Type XHHW

Manufacturer	Brand	Type	Model
Republic Wire Inc. 5525 Union Centre Drive West Chester, OH 45069 (513) 860-1800 republicwire.com	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 ♦ Bare Copper Soft Drawn Solid and Stranded 8AWG - 2AWG
Coleman Cable, Inc. 1530 Shields Drive Waukegan, IL 60085 (800) 325-9355 colemancable.com	CCI	♦ XHHW-2	Available in Black Only ♦ 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

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Item 620 - Breakaway Fuse-holders

Manufacturer	Brand	Type	Model
Eaton –Bussmann Series 114 Old State Road Ellisville, MO 63021 (855) 287-7626 cooperindustries.com	Bussmann	◆ Double-pole	◆ HEX-KW-DRYC – used when no neutral is required
		◆ Double-pole	◆ HEN-KW-DRYC – used when neutral is present
Littelfuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 littelfuse.com	Littelfuse	◆ Double-pole	◆ OLEXYYSX – used when no neutral is required
		◆ Double-pole	◆ LEXTOYYSX – 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 sheets are in plan set.
			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.

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Item 620 - Breakaway Fuse-holders

Manufacturer	Brand	Type	Model
<p>Mersen USA</p> <p>374 Merrimac Street Newburyport, MA 01950 (978) 462-6662</p> <p>ferrazshawmut.com</p> <p>Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut.</p>	<p>Ferraz Shawmut</p>	<p>◆ Double-pole</p> <p>◆ Double-pole</p>	<p>◆ FEX-91-91-BA – used when no neutral is required</p> <p>◆ FEXN-91-91-BA – used when neutral is present</p> <p>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.</p>
<p>Ideal Industries, Inc.</p> <p>1 Becker Place Sycamore, IL 60178 (800) 435-0705</p> <p>idealindustries.com</p>	<p>Ideal- Buchanan SLK</p>	<p>◆ Double-pole</p> <p>◆ Double-pole</p>	<p>◆ 30-S2222D – used when no neutral is required</p> <p>◆ 30-S2222P – used when neutral is present</p> <p>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.</p>

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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	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 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 southwire.com	Southwire	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 500 kcmil
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 advanceddigitalcable.com	Advanced Digital	♦ Tray Cable – Power Cable – XLP XHHW Insulation, PVC Jacket, Copper Conductors	♦ Available in 12 AWG -3 and 4 conductor

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

Manufacturer	Brand	Type	Model
Duraline 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	Duraline	◆ 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 Cabledaq 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”

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Item 622 - Duct Cable with Type XHHW Conductors

Manufacturer	Brand	Type	Model
Southwire Corporation One Southwire Drive Carrolton, GA 30119 (770) 832-4242 southwire.com	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. 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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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

Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 quazite.com	Hubbell Quazite	♦ A ♦ B ♦ C ♦ D ♦ E	♦ PG1324B512 / PG1324H506 ♦ 2PG1324B512 / PG1324H506 ♦ PG1730B512 / PG1730H507 ♦ PG1730B517 / PG1730H507 ♦ PG1324B514 / PG1324H506 ♦ 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)
		Cover For Type A, B & E 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)

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Item 624 - Ground Boxes – Precast Polymer Concrete

Manufacturer	Brand	Type	Model
Armorcast Products Company 13230 Saticoy St. North Hollywood, CA. 91605 (818) 982-3600 armorcastprod.com	Armor cast	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For All Boxes	<ul style="list-style-type: none"> ◆ 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.com	NewBasis	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For Type A, B & E Cover For Type C & D	<ul style="list-style-type: none"> ◆ PCB132412G482 ◆ (2) PCB132412G482 ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482 ◆ 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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Item 624 - Ground Boxes – Precast Polymer Concrete

Manufacturer	Brand	Type	Model
Synertech Moulded Products 2 Inverness St. Candiac, Quebec Canada J5R 4WS Toll Free (888) 868-5214 synertechproducts.com	Synertech	♦ A ♦ B ♦ C ♦ D ♦ E Cover For Type A, B & E Cover For Type C & D	♦ S132412HH90 ♦ S132424HH90 ♦ S173012HH90 ♦ S173024HH90 ♦ S132418HH90 ♦ S1324HBBOA90- DANGER HIGH VOLTAGE/TRAFFIC SIGNAL ♦ S1324HBBOA91- DANGER HIGH VOLTAGE/ILLUMINATION ♦ S1324HBBOA92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ♦ S1324HBBOA93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ♦ S1730HBBOA90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ♦ S1730HBBOA91- DANGER HIGH VOLTAGE/ILLUMINATION ♦ S1730HBBOA92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ♦ S1730HBBOA93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

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Item 624 - Ground Boxes – Precast Polymer Concrete

Manufacturer	Brand	Type	Model
Oldcastle Enclosure Solutions 2434 Rubidoux Blvd. Riverside, CA. 92509 (800) 735-5566 (713) 875-8030 oldcastleprecast.com Carson Industries, LLC. is now Oldcastle Enclosure Solutions 8-29-2013 Model numbers are the same	Oldcastle	♦ A ♦ B ♦ C ♦ D ♦ E	♦ 13242030 ♦ 13242032 ♦ 17302061 ♦ 17302063 ♦ 13242031 ♦ 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ♦ 13244156- DANGER HIGH VOLTAGE/ILLUMINATION ♦ 13244158- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ♦ 13244157- DANGER HIGH VOLTAGE ♦ 17304185- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ♦ 17304183- DANGER HIGH VOLTAGE/ILLUMINATION ♦ 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ♦ 17304272- DANGER HIGH VOLTAGE
		Cover For Type A, B & E	Cover For Type C & D
CDR Systems Corporation 146 South Atlantic Ave. Ormond Beach, FL. 32176 (386) 615-9510 cdrsystems.com	cdr	♦ A ♦ B ♦ C ♦ D ♦ E	♦ SB14-1324-12-0287 ♦ SB14-1324-12-0287 - 2 boxes stacked ♦ SB14-1730-12-0494 ♦ SC14-1730-22-0499 ♦ SB14-1324-18-0288
		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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Item 624 - Ground Boxes – Precast Polymer Concrete

Manufacturer	Brand	Type	Model
Highline Products, Inc. 131 Hartwell Ave. Lexington, MA. 02421 (781) 328-3220 highlineproducts.com	Highline	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PHA132412HTD-XX ◆ PHA132424HTD-XX ◆ PHA173012HTD-XX ◆ PHA173024HTD-XX ◆ PHA132418HTD-XX
		Cover Logo Information XX in each model will be replaced with :	
		◆ 20	◆ DANGER HIGH VOLTAGE
		◆ 21	◆ DANGER HIGH VOLTAGE/ 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 310 Weathers Dr. Laredo, TX. 78045 (885) 250-3993 duravault.com	Duravault	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PC132412STBTXD-XX (122311) ◆ PC132422STBTXD-XX (122322) ◆ PC173012STBTXD-XX (162911) ◆ PC173022STBTXD-XX (162922) ◆ PC132418STBTXD-XX (122317)
		Cover Logo Information XX in each model will be replaced with : Cover For Type A, B & E	
			<ul style="list-style-type: none"> ◆ PCC1324BTXD-TS/ TRAFFIC SIGNAL
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PCC1324BTXD-IL/ ILLUMINATION ◆ PCC1324BTXD-TM/ TRAFFIC MANAGEMENT ◆ PCC1324BTXD-SI/ SIGN ILLUMINATION
			<ul style="list-style-type: none"> ◆ PCC1730BTXD-TS/ TRAFFIC SIGNAL
		Cover For All Boxes	<ul style="list-style-type: none"> ◆ PCC1730BTXD-IL/ ILLUMINATION ◆ PCC1730BTXD-TM/ TRAFFIC MANAGEMENT ◆ PCC1730BTXD-SI/ SIGN ILLUMINATION All Covers Read "DANGER HIGH VOLTAGE"

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Item 624 - Ground Boxes – Precast Polymer Concrete

Manufacturer	Brand	Type	Model
Martin Enterprises 19940 Hansen Avenue Nuevo, CA 92567 (951) 928-8413 martinfrp.com	Martin	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For Type A, B & E Cover For Type C & D	<ul style="list-style-type: none"> ◆ 1324/12 PC Type A Tier 15 Rated ◆ 1324/24 PC Type B Tier 15 Rated ◆ 1730/18 PC Type C Tier 15 Rated ◆ 1730/24 PC Type D Tier 15 Rated ◆ 1324/18 PC Type E Tier 15 Rated <ul style="list-style-type: none"> ◆ 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 <ul style="list-style-type: none"> ◆ 1730 Cover Traffic Signal / DANGER - HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 1730 Cover Illumination / DANGER - HIGH VOLTAGE/ILLUMINATION ◆ 1730 Cover Traffic Management / DANGER - HIGH VOLTAGE/TRAFFIC MANAGEMENT

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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

Manufacturer	Brand	Type	Model
Electrol Systems 10623 Sentinel Drive San Antonio, TX 78217 (210) 599-6485 (888) 853-8944 electrolsystems.com	Electrol	◆ A	◆ ELECTROL TYPE A-TXDOT
		◆ C	◆ ELECTROL TYPE C-TXDOT
		◆ C- Auxiliary Only	◆ ELECTROL TYPE C- Auxiliary Only - TXDOT
		◆ D	◆ ELECTROL TYPE D-TXDOT
		◆ 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 5535 Harvey Wilson Drive Houston , TX 77020 (713) 676-2298 (800) 880-9453 wemanufacturing.com	WE	◆ A	◆ WE TYPE A-TXDOT
		◆ C	◆ WE TYPE C-TXDOT
		◆ C- Auxiliary Only	◆ WE TYPE C- Auxiliary Only -TXDOT
		◆ 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

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

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Item 628 - Electrical Service

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

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Item 628 - Photoelectric Control - Photocell

Manufacturer	Brand	Type	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 P.O. Box 3004 Newark, OH 43800 (800) 754-0463 darktolight.com	DTL	◆ 120-277 Volt Photocell	◆ DUX124 -12A30
Tyco Electronics 8000 Purfoy Rd. Fuquay-Varina, NC 27526 (919)557-8459 tycoelectronics.com	Area Lighting Research Tyco	◆ 120-277 Volt Photocell	◆ ALR-SST-PV-IES-UL (3E7425-000)

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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.

Item 685 - Breakaway Holder – Non Fused

Manufacturer	Brand	Type	Model
Mersen USA 374 Merrimac Street Newburyport, MA 01950 (978) 462-6662 ep-us.mersen.com Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut.	Ferraz Shawmut	◆ Single Pole	◆ FEB-81-81-BA when fused use slug
		◆ Single Pole	◆ FEBN-81-81-BA for neutral (non-fused)
		◆ Dummy Fuse (Slug)	◆ MNL30 - Slug
These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFBA . Installing contractor to supply dummy fuse-(slug).			
Littelfuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 littelfuse.com	Littelfuse	◆ Single Pole	◆ LEB-JJ-S-WPB1 when fused use slug
		◆ Single Pole	◆ LET-JJ-S-WPB1 for neutral (non-fused)
		◆ Dummy Fuse (Slug)	◆ Not available at this time
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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Item 685 - Breakaway Holder – Non Fused

Manufacturer	Brand	Type	Model
Eaton –Bussmann Series 114 Old State Road Ellisville, MO 63021 (855) 287-7626 cooperindustries.com	Bussmann	<ul style="list-style-type: none"> ◆ Single Pole ◆ Single Pole ◆ Dummy Fuse (Slug) 	<ul style="list-style-type: none"> ◆ HEB-JW-RLC-J when fused use slug ◆ HET-JW-RLC-J for neutral (non-fused) ◆ NNB - Slug <p>These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFA. Installing contractor to supply dummy fuse-(slug).</p>
Ideal Industries, Inc. 1375 Park Avenue Sycamore, IL 60178 (800) 435-0705 idealindustries.com	Ideal – Buchanan SLK	<ul style="list-style-type: none"> ◆ Single Pole ◆ Single Pole ◆ Dummy Fuse (Slug) 	<ul style="list-style-type: none"> ◆ 30-S1212 when fused use slug ◆ 30-S1212N for neutral (non-fused) ◆ Not available at this time <p>These breakaway connectors are to be used when required by TxDOT Standards RFBA and SPRFA. Installing contractor to supply dummy fuse-(slug).</p>

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Item 685 - Pedestal Pole Base

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

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

