



# Roadway Illumination and Electrical Supplies

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## 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 Safety 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 - Poles

### *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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## 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.

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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  <a href="http://trastarusa.com">trastarusa.com</a>	Duralight	◆ 250W EQ LED(120W)-120/240 Volt; LLF=0.766	◆ DURA-ST25-4K-120-2-GR-SCLB-G2
		◆ 250W EQ LED(120W)-480 Volt; LLF=0.766	◆ DURA-ST25-4K-480-2-GR-SCLB-G2
		◆ 400W EQ LED (185W) 120/240Volt; LLF=0.766	◆ DURA-ST40-4K-120-2-GR-SCLB-G2
		◆ 400W EQ LED (185W)-480 Volt; LLF=0.766	◆ DURA-ST40-4K-480-2-GR-SCLB-G2
		◆ 150W EQ LED – (65W)-120/240Volt; LLF=0.766	◆ DURA-STR15-4K-120-4-GR-SCLB
		◆ 150W EQ LED - (65W)- 480 Volt; LLF=0.766	◆ DURA-STR15-4K-480-4-GR-SCLB
		◆ 250W EQ LED (120W)- 120/240 Volt; LLF=0.766	◆ DURA-STR25-4K-120-2-GR-SCLB
		◆ 250W EQ LED (120W)- 480 Volt; LLF=0.766	◆ DURA-STR25-4K-480-2-GR-SCLB
		◆ 400W EQ LED (185W) 120/240Volt; LLF=0.766	◆ DURA-STR40-4K-120-2-GR-SCLB
		◆ 400W EQ LED (185W)-480 Volt; LLF=0.766	◆ DURA-STR40-4K-480-2-GR-SCLB
		◆ 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-480-3-GR-SCLB

Item 610 - Roadway Illumination Assemblies – LED Luminaire

Manufacturer	Brand	Type	Model
TraStar  860 N. Dorothy Drive #600 Richardson, TX 75081 (972) 480-0888  <a href="http://trastarusa.com">trastarusa.com</a>	Duralight	◆ 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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### Item 610 - Roadway Illumination Assemblies – LED Luminaire

Manufacturer	Brand	Type	Model
Cooper Lighting Solutions (formerly Eaton)  1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800  <a href="http://cooperindustries.com">cooperindustries.com</a>	Streetworks	◆ 150W EQ LED (60W)- 120/240 VOLT LLF=0.81	◆ VERD-C01-D-U-T3-4N7-20K-AP- TXDOT-D96083
		◆ 150W EQ LED (60W)- 480 VOLT LLF=0.81	◆ VERD-C01-D-8-T3-4N7-20K-AP- TXDOT-D96084
		◆ 250W EQ LED (110W)-120/240 VOLT LLF=0.81	◆ VERD-C02H-D-U-T2-4N7-20K-AP- TXDOT-D96085
		◆ 250W EQ LED (120W)-480 VOLT LLF=0.81	◆ VERD-C02H-8-T2-4N7-20K-AP- TXDOT-D96082
		◆ 400W EQ LED (160W)- 120/240 Volt; LLF=0.81	◆ VERD-G-C02H-D-U-T2-4N7-20K-K- AP-TXDOT-D96080
		◆ 400W EQ LED (160W)- 480 Volt; LLF=0.81	◆ VERD-G-C02H-D-8-T2-4N7-20K-K- AP-TXDOT-D96081
		◆ 150W EQ LED (60W)- 120/240 VOLT LLF=0.81	◆ VERD-C01-D-U-T3-4N7-20K-AP- TXDOT-D0208
		◆ 150W EQ LED (60W)- 480 VOLT LLF=0.81	◆ VERD-C01-D-8-T3-4N7-20K-AP- TXDOT-D0209
		◆ 250W EQ LED (110W)-120/240 VOLT LLF=0.81	◆ VERD-C02H8-D-U-T2-4N7-20K-AP- TXDOT-D0210
		◆ 250W EQ LED (110W)-480 VOLT LLF=0.81	◆ VERD-C02H8-D-8-T2-4N7-20K-AP- TXDOT-D0211
		◆ 400W EQ LED (160W)- 120/240 Volt; LLF=0.81	◆ VERD-G-C02H-D-U-T2-4N7-20K-AP- TXDOT-D0212
		◆ 400W EQ LED (160W)- 480 Volt; LLF=0.81	◆ VERD-G-C02H-D-8-T2-4N7-20K-AP- TXDOT-D0213

**Item 610 - Roadway Illumination Assemblies – LED Luminaire**

Manufacturer	Brand	Type	Model
Cooper Lighting Solutions (formerly Eaton)  1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800  <a href="http://cooperindustries.com">cooperindustries.com</a>	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

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Item 610 - Roadway Illumination Assemblies – LED Luminaire

Manufacturer	Brand	Type	Model
GE Lighting Solutions  3010 Spartanburg Hwy East Flat Rock, NC 28726  <a href="http://glightingsystems.com">glightingsystems.com</a>	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
Signify (formerly Philips Lighting)  Signify Lighting North America 118 Maderas Seguin, TX 78155  <a href="https://www.signify.com">https://www.signify.com</a>	Lumec	◆ 150W EQ LED (50W) - 120/240 Volt; LLF=0.88	◆ [RFS-091]-50W16LED4K-G2-R3S-UNV-DMG-API-[FS2-013]-ML-PH9-RCD7-SP2-GY3
		◆ 150W EQ LED (50W) - 480 Volt; LLF=0.88	◆ [RFS-090]-50W16LED4K-G2-R3S-480-DMG-API-[FS2-013]-ML-PH9-RCD7-SP2-GY3
		◆ 250W EQ LED (108W) - 120/240 Volt; LLF=0.88	◆ [RFS-083]-108W32LED4K-G2-R2M-UNV-DMG-API-ML-PH9-RCD7-SP2-GY3
		◆ 250W EQ LED (108W) - 480 Volt; LLF=0.88	◆ [RFS-084]-108W32LED4K-G2-R2M-HVU-DMG-API-ML-PH9-RCD7-SP2-GY3
		◆ 400W EQ LED (160W) - 120/240 Volt; LLF=0.87	◆ [RFM-156]-160W48LED4K-G2-R2M-UNV-DMG-API-ML-PH9-RCD7-SP2-GY3
		◆ 400W EQ LED (160W) - 480 Volt; LLF=0.87	◆ [RFM-157]-160W48LED4K-G2-R2M-HVU-DMG-API-ML-PH9-RCD7-SP2-GY3
		◆ 250W EQ LED (110W)-120/277V; LLF=0.833	◆ [RFM-004]-108W48LED4K-G2-R2M-UNV-DMG-API-ML-PH9-RCD-SP2-GY3
		◆ 250W EQ LED (110W)-480V; LLF=0.833	◆ [RFM-004]-108W48LED4K-G2-R2M-HVU-DMG-API-ML-PH9-RCD-SP2-GY3
		◆ 400W EQ LED (160W)-120/240V; LLF=0.869	◆ [RFM-004]-160W48LED4K-G2-[R2S-001]-UNV-DMG-API-ML-PH9-RCD7-SP2-GY3
◆ 400W EQ LED (160W)-480V; LLF=0.869	◆ [RFM-004]-160W48LED4K-G2-[R2S-001]-HVU-DMG-API-ML-PH9-RCD7-SP2-GY3		

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Item 610 - Roadway Illumination Assemblies – LED Luminaire

Manufacturer	Brand	Type	Model
Acuity  Acuity Brands Lighting, Inc. 3825 Columbus Rd. Granville, OH 43023  <a href="http://acuitybrands.com">acuitybrands.com</a>	American Electric	◆150W EQ LED (75W) - 120-277V; LLF = 0.81	◆ ATBS P30 MVOLT R3 NLP7 SH DF RFD313335
		◆150W EQ LED (75W) - 480V; LLF = 0.81	◆ ATBS P30 480 R3 NLP7 SH DF RFD313336
		◆250W EQ LED (120W) - 120-277V; LLF = 0.78	◆ ATBM P30 MVOLT R2 NLP7 SH TXDOT RFD309288
		◆250W EQ LED (120W) - 480V; LLF = 0.78	◆ ATBM P30 480 R2 NLP7 SH TXDOT RFD309289
		◆250W EQ LED (126W)-120/240V; LLF=0.815	◆ATB0 30BLEDE13 MVOLT R2 20 BL NLP7 SH TXDOT RFD309292
		◆250W EQ LED (126W)-480V; LLF=0.815	◆ ATB0 30BLEDE13 480R2 20 BL NLP7 SH TXDOT RFD309293
		◆400W EQ LED (190W) - 120-277V; LLF = 0.78	◆ATBM P70 MVOLT R2 NLP7 SH TXDOT RFD309290
		◆400W EQ LED (190W) - 480V; LLF = 0.78	◆ATBM P70 480 R2 NLP7 SH TXDOT RFD309291
		◆150W EQ LED (75W) - 120-277V; LLF = 0.81	◆ ATBS I MVOLT R3 20 NL SH BL F2 RFD291566
		◆150W EQ LED (75W) - 480V; LLF = 0.81	◆ ATBS I 480 R3 20 NL SH BL F2 RFD291567
		◆250W EQ LED (120W) - 120-277V; LLF = 0.78	◆ ATBM P30 MVOLT R2 NLSH RFD291754
		◆250W EQ LED (120W) - 480V; LLF = 0.78	◆ ATBM P30 480 R2 NLSH RFD291755
		◆400W EQ LED (190W) - 120-277V; LLF = 0.78	◆ATBM P70 MVOLT R2 NLSH RFD291089

### Item 610 - Roadway Illumination Assemblies – LED Luminaire

Manufacturer	Brand	Type	Model
Acuity  Acuity Brands Lighting, Inc. 3825 Columbus Rd. Granville, OH 43023  <a href="http://acuitybrands.com">acuitybrands.com</a>	American Electric	◆400W EQ LED (190W)-480V; LLF = 0.78	◆ ATBM P70 480 R2 NL SH RFD291088
		◆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	◆ ATBLD MVOLT R2 4B 20NL SH RFD209798
◆400W EQ LED (209W)-480V; LLF=0.877	◆ ATBLD 480 R2 4B 20 NL SH RFD220060		

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Item 610 - Roadway Illumination Assemblies – LED Luminaire

Manufacturer	Brand	Type	Model
Excellence Opto, Inc.  21858 Garcia Lane, City of Industry, CA 91789  <a href="http://www.eoius.com/">www.eoius.com/</a>	EOI	◆ 150W EQ LED (70W) 120/240V; LLF=0.846	◆ ESU-FA013M03240M-700FIU1-1678N
		◆ 150W EQ LED (70W) 480V; LLF=0.846	◆ ESU-FA023M03240M-700FIU1-1678N
		◆ 250W EQ LED (160W) 120/240V; LLF=0.888	◆ ESU-EA013P03240M-150DIU1-1638N
		◆ 250W EQ LED (160W) 480V; LLF=0.888	◆ ESU-EA023P03240M-150DIU1-1638N
		◆ 400W EQ LED (230W) 120/240V; LLF=0.888	◆ ESU-EA013P04840L-150DIU1-1638N
		◆ 400W EQ LED (230W) 480V; LLF=0.888	◆ ESU-EA023P04840L-150DIU1-1638N
		◆ 150W EQ LED (70W) 120/240V; LLF=0.846	◆ ESU-FA013M03240M-700FIU1-1688N
		◆ 250W EQ LED (160W) 120/240V; LLF=0.888	◆ ESU-EA013P03240M-150DIU1-1648N
		◆ 400W EQ LED (230W) 120/240V; LLF=0.888	◆ ESU-EA013P04840L-150DIU1-1648N
Leotek	Leotek	◆ 150W EQ LED - 120/240V; LLF=0.82	◆ GCJ2 20H MV NW 3 GY 1A PCR7 WLAD DF TXDOT
Leotek Electronics, USA 1955 Lundy Ave. San Jose, CA 95131  <a href="http://www.leotek.com">www.leotek.com</a>		◆ 150W EQ LED - 480V; LLF=0.82	◆ GCJ2 20H HV NW 3 GY 1A PCR7 WLAD DF TXDOT
		◆ 250W EQ LED - 120/240V; LLF=0.81	◆ GCM2 40H MV NW 2R GY 1A PCR7 WLAD TXDOT
		◆ 250W EQ LED - 480V; LLF=0.81	◆ GCM2 40H HV NW 2R GY 1A PCR7 WLAD TXDOT
		◆ 400W EQ LED - 120/240V; LLF=0.86	◆ GCL2 60G MV NW 2R GY 975 PCR7 WLAD TXDOT
		◆ 400W EQ LED - 480V; LLF=0.86	◆ GCL2 60G HV NW 2R GY 975 PCR7 WLAD TXDOT

Item 610 - Roadway Illumination Assemblies – LED Luminaire

Manufacturer	Brand	Type	Model
Visionaire Lighting  19645 Rancho Way Rancho Dominguez, CA 90220  <a href="http://visionairelighting.com">visionairelighting.com</a>	Visionaire Lighting	♦ 150WEQ LED (70W) - 120/240V; LLF=0.86	♦ RLX-3-T3L-70W-4K-UNV-MAF-GY- 7PINPER-DIM-20KV-DF240-EBL-UWL
		♦ 150WEQ LED (70W) - 480V; LLF=0.86	♦ RLX-3-T3L-70W-4K-5-MAF-GY- 7PINPER-DIM-20KV-DF480-EBL-UWL
		♦ 250WEQ LED (125W) - 120/240V; LLF=0.86	♦ RLX-3-T2-125W-4K-UNV-MAF-GY- 7PINPER-DIM-20KV-EBL-UWL
		♦ 250WEQ LED (125W) - 480V; LLF=0.86	♦ RLX-3-T2-125W-4K-5-MAF-GY- 7PINPER-DIM-20KV-EBL-UWL

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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  <a href="http://sylvania.com">sylvania.com</a>	Sylvania – Lumalux Plus®/ECO	◆ 400 Watt Lamp	◆ 67312 - LU400/PLUS/ECO
		◆ 250 Watt Lamp	◆ 67572 - LU250/PLUS/ECO
		◆ 150 Watt Lamp	◆ 67494 - LU150/55/PLUS/ ECO
Philips Lighting Company  200 Franklin Square Dr. P.O. Box 6800 Somerset, NJ 08875 (800) 555-0050  <a href="http://lighting.philips.com">lighting.philips.com</a>	Philips - Ceramalux®/ALTO® Non-Cycling Lamp	◆ 400 Watt Lamp	◆ 14743-9 – C400S51/ALTO NC HPS
		◆ 250 Watt Lamp	◆ 14742-1 – C250S50/ALTO NC HPS
		◆ 150 Watt Lamp	◆ 14741-3 – C150S55/ALTO NC HPS
GE Lighting  Nela Park, 1975 Noble Rd. Cleveland, OH 44112 (216) 266-2121  <a href="http://gelighting.com">gelighting.com</a>	GE – EcoluxNC™	◆ 400 Watt Lamp	◆ 14675 – LU400/ECO/NC
		◆ 250 Watt Lamp	◆ 14674 – LU250/ECO/NC
		◆ 150 Watt Lamp	◆ 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  <a href="http://tork.com">tork.com</a>	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  <a href="http://darktolight.com">darktolight.com</a>	DTL	◆ 120-277 Volt Photocell	◆ DUX124 -12A30
Tyco Electronics  8000 Purfoy Rd. Fuquay-Varina, NC 27526 (919) 557-8459  <a href="http://tycoelectronics.com">tycoelectronics.com</a>	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
<p>Eaton – Bussmann Series</p> <p>114 Old State Road Ellisville, MO 63021 (855) 287-7626</p> <p><a href="http://cooperindustries.com">cooperindustries.com</a></p>	Bussmann	<ul style="list-style-type: none"> <li>◆ Double-pole</li> <li>◆ Double-pole</li> </ul>	<ul style="list-style-type: none"> <li>◆ HEX-KW-DRYC – used when no neutral is required</li> <li>◆ HEN-KW-DRYC – used when neutral is present</li> </ul> <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. <b>To be used when TxDOT Standards RIP and RID are in the plan set.</b></p>
<p>Littelfuse Inc.</p> <p>800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188</p> <p><a href="http://littelfuse.com">littelfuse.com</a></p>	Littelfuse	<ul style="list-style-type: none"> <li>◆ Double-pole</li> <li>◆ Double-pole</li> </ul>	<ul style="list-style-type: none"> <li>◆ OLEXYCSX – used when no neutral is required</li> <li>◆ LEXTOYYSX – used when neutral is present</li> </ul> <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. <b>To be used when TxDOT Standards RIP and RID are in the plan set.</b></p>

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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><a href="http://ferrazshawmut.com">ferrazshawmut.com</a></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. <b>To be used when TxDOT Standards RIP and RID are in the plan set.</b></p>
<p>Ideal Industries, Inc.</p> <p>1 Becker Place Sycamore, IL 60178 (800) 435-0705</p> <p><a href="http://idealindustries.com">idealindustries.com</a></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. <b>To be used when TxDOT Standards RIP and RID are in the plan set.</b></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  <a href="http://hapco.com">hapco.com</a>	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  <a href="http://akronfoundry.com">akronfoundry.com</a>	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
Cooper  1121 Highway 74 South Peachtree City, GA 30269  <a href="http://cooperindustries.com">cooperindustries.com</a>	Streetworks	◆ LED High Mast – Type A (477W); 120/240 VOLT; LLF=0.820	◆ CST-8-6-D-U-T2-4N7-20K-SS-AP-D97825
		◆ LED High Mast – Type A (477W); 480 VOLT; LLF=0.820	◆ CST-8-6-D-8-T2-4N7-20K-SS-AP-D96218
		◆ LED High Mast – Type B (477W); 120/240 VOLT; LLF=0.820	◆ CST-8-6-D-U-T2-4N7-20K-SS-AP-D97825
		◆ LED High Mast – Type B (477W); 480 VOLT; LLF=0.820	◆ CST-8-6-D-8-T2-4N7-20K-SS-AP-D96218
		◆ LED High Mast – Type A (477W); 120/240 VOLT; LLF=0.820	◆ CST-8-6-D-U-T2-4N7-20K-SS-AP-D97825
		◆ LED High Mast – Type A (477W); 480 VOLT; LLF=0.820	◆ CST-8-6-D-8-T2-4N7-20K-SS-AP-D96218
		◆ LED High Mast – Type B (477W); 120/240 VOLT; LLF=0.820	◆ CST-8-6-D-U-T2-4N7-20K-SS-AP-D97824
		◆ LED High Mast – Type B (477W); 480 VOLT; LLF=0.820	◆ CST-8-6-D-8-T2-4N7-20K-SS-AP-D96220

### Item 614 - Luminaire - High Mast

Manufacturer	Brand	Type	Model
Cooper  1121 Highway 74 South Peachtree City, GA 30269  <a href="http://cooperindustries.com">cooperindustries.com</a>	Streetworks	◆ LED High Mast - Type C (477W); 120/240 VOLT; LLF=0.820	◆ CST-8-6-D-U-T4-4N7-20K-SS-AP-D97823
		◆ LED High Mast - Type C (477W); 480 VOLT; LLF=0.820	◆ CST-8-6-D-8-T4-4N7-20K-SS-AP-D96222
		◆ LED High Mast - Type S (477W); 120/240 VOLT; LLF=0.810	◆ CST-8-6-D-U-T5N-4N7-20K-SS-AP-D97822
		◆ LED High Mast - Type S (477W); 480 VOLT; LLF=0.810	◆ CST-8-6-D-8-T5N-4N7-20K-SS-AP-D96224

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### Item 614 - Luminaire - High Mast

Manufacturer	Brand	Type	Model
Trastar  860 N. Dorothy Dr., Suite 600 Richardson, TX 75081  <a href="http://trastarusa.com">trastarusa.com</a>	Duralight	◆ LED High Mast - Type A (410W); 120/240 VOLT; LLF=0.766	◆ JXM-ST-HM6-4W-40K-120-AB-GR-SCLB
		◆ LED High Mast - Type A (410W); 480 VOLT; LLF=0.766	◆ JXM-ST-HM6-4W-40K-480-AB-GR-SCLB
		◆ LED High Mast - Type B (410W); 120/240 VOLT; LLF=0.766	◆ JXM-ST-HM6-4W-40K-120-AB-GR-SCLB
		◆ LED High Mast - Type B (410W); 480 VOLT; LLF=0.766	◆ JXM-ST-HM6-4W-40K-480-AB-GR-SCLB
		◆ LED High Mast - Type C; (560W); 120/240 VOLT; LLF=0.766	◆ JXM-ST-HM6-5W-40K-120-C-GR-SCLB
		◆ LED High Mast - Type C; (560W); 480VOLT; LLF=0.766	◆ JXM-ST-HM6-5W-40K-480-C-GR-SCLB
		◆ LED High Mast - Type S; (550W); 120/240 VOLT; LLF=0.766	◆ JXM-ST-HM6-5W-40K-120-S-GR-SCLB
		◆ LED High Mast - Type S; (550W); 480VOLT; LLF=0.766	◆ JXM-ST-HM6-5W-40K-480-S-GR-SCLB

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Item 614 - Luminaire - High Mast

Manufacturer	Brand	Type	Model
<p>Acuity</p> <p>Acuity Brands Lighting, Inc. 3825 Columbus Rd. Granville, OH 43023</p> <p><a href="http://acuitybrands.com">acuitybrands.com</a></p>	Holophane	◆ High Mast - Type A (380W); 120/240 VOLT; LLF=0.783	◆ HMLE4 P25 40K MVOLT HGR NAS PR7 DFD SH TXDOT TYPE A RFD321354
		◆ High Mast - Type A (380W); 480 VOLT; LLF=0.783	◆ HMLE4 P25 40K HVOLT HGR NAS PR7 DFD SH TXDOT TYPE A RFD321353
		◆ High Mast - Type B (380W); 120/240 VOLT; LLF=0.783	◆ HMLE4 P25 40K MVOLT HGR NAS PR7 DFD SH TXDOT TYPE B RFD322281
		◆ High Mast - Type B (380W); 480 VOLT; LLF=0.783	◆ HMLE4 P25 40K HVOLT HGR NAS PR7 DFD SH TXDOT TYPE B RFD322280
		◆ High Mast - Type C (380W); 120/240 VOLT; LLF=0.783	◆ HMLE4 P25 40K MVOLT HGR MAS PR7 DFD SH TXDOT TYPE C RFD320604
		◆ High Mast - Type C (380W); 480 VOLT; LLF=0.783	◆ HMLE4 P25 40K HVOLT HGR MAS PR7 DFD SH TXDOT TYPE C RFD318759
		◆ High Mast - Type S (575W); 120/240 VOLT; LLF=0.783	◆ HMLE4 P4 40K MVOLT HGR AN AW PR7 DFD SH TXDOT TYPE S RFD320605
		◆ High Mast - Type S (575W); 480 VOLT; LLF=0.783	◆ HMLE4 P4 40K HVOLT HGR AN AW PR7 DFD SH TXDOT TYPE S RFD318760

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### 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><a href="http://sylvania.com">sylvania.com</a></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><a href="http://lighting.philips.com">lighting.philips.com</a></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><a href="http://gelighting.com">gelighting.com</a></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 <a href="http://mica.corporation.com">mica.corporation.com</a>	Mica Corporation	◆ High Mast - 125 Foot ◆ High Mast - 150 Foot ◆ High Mast - 175 Foot	◆ 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.	◆ High Mast - 125 Foot ◆ High Mast - 150 Foot ◆ High Mast - 175 Foot	◆ HMK-125-CHMI ◆ HMK-150-CHMI ◆ HMK-175-CHMI
Rexel 2400 Brockton San Antonio, TX 78217 (210) 352-1047 <a href="http://rexelusa.com">rexelusa.com</a>	Rexel	◆ High Mast - 125 Foot ◆ High Mast - 150 Foot ◆ High Mast - 175 Foot	◆ HMK-125-RX ◆ HMK-150-RX ◆ HMK-175-RX
Wildcat Electric Supply, Ltd. 2061 Clovis Barker Road #5. San Marcos, TX 77666 (512) 396-8900 (866) 301-5200 <a href="http://wildcatelectric.com">wildcatelectric.com</a>	Wildcat	◆ High Mast - 125 Foot ◆ High Mast - 150 Foot ◆ High Mast - 175 Foot	◆ 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 <a href="http://stratusprod.com">stratusprod.com</a>	Stratus Products	◆ High Mast - 100 Foot ◆ High Mast - 125 Foot ◆ High Mast - 150 Foot ◆ High Mast - 175 Foot	◆ HMK-100-SSPI ◆ HMK-125-SSPI ◆ HMK-150-SSPI ◆ HMK-175-SSPI
Millerbernd Manufacturing Co. 622 6 <sup>th</sup> Street South Winsted, MN 55395 (320) 485-2111 FAX (320) 485-2220 <a href="http://millerberndmfg.com">millerberndmfg.com</a>	Millerbernd	◆ High Mast - 100 Foot ◆ High Mast - 125 Foot ◆ High Mast - 150 Foot ◆ High Mast - 175 Foot	◆ MMC100KIT ◆ MMC125KIT ◆ MMC150KIT ◆ 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><a href="http://jwhall.com">jwhall.com</a></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><a href="http://tcd.cc">tcd.cc</a></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>Drawing for Model No. BFC – HMR TxDOT Dated 4-8-2020</p> <p>Sheets 1 through 4</p>	
<p>PKM Steel Service</p> <p>228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638</p> <p><a href="http://pkmsteel.com">pkmsteel.com</a></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>	

## 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, Atkore International 16100 S. Lathrop Avenue Harvey, IL 60426-6021 (800) 882-5543 <a href="http://alliedeg.us">alliedeg.us</a> <a href="http://atkore.com">atkore.com</a>	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  <a href="http://wheatland.com">wheatland.com</a>	Wheatland	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
Nucor/Republic Conduit  7301 Logistics Drive Louisville, KY 40258 (800) 840-8823 (502) 995-5900  <a href="http://republicconduit.com">republicconduit.com</a> <a href="http://nucortubular.com">nucortubular.com</a>	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  <a href="http://westerntube.com">westerntube.com</a>	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><a href="http://cantexinc.com">cantexinc.com</a></p>	Cantex	◆ PVC	<p>◆ Schedule 40 and 80</p> <p>◆ Trade Sizes from 1/2" to 6"</p>
<p>Allied Tube &amp; Conduit</p> <p>16100 S. Lathrop Avenue Harvey, IL 60426-6021</p> <p><a href="http://alliedeg.us">alliedeg.us</a></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><a href="http://primeconduit.com">primeconduit.com</a></p>	Prime Conduit	◆ PVC	<p>◆ Schedule 40 and 80</p> <p>◆ Trade Sizes from 1/2" to 6"</p>
<p>National Pipe &amp; Plastics, Inc.</p> <p>3421 Old Vestal Road Vestal, NY 13850 (800) 836-4350</p> <p><a href="http://nationalpipe.com">nationalpipe.com</a></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><a href="http://heritageplastics.com">heritageplastics.com</a></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><a href="http://rmcp.com">rmcp.com</a></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>

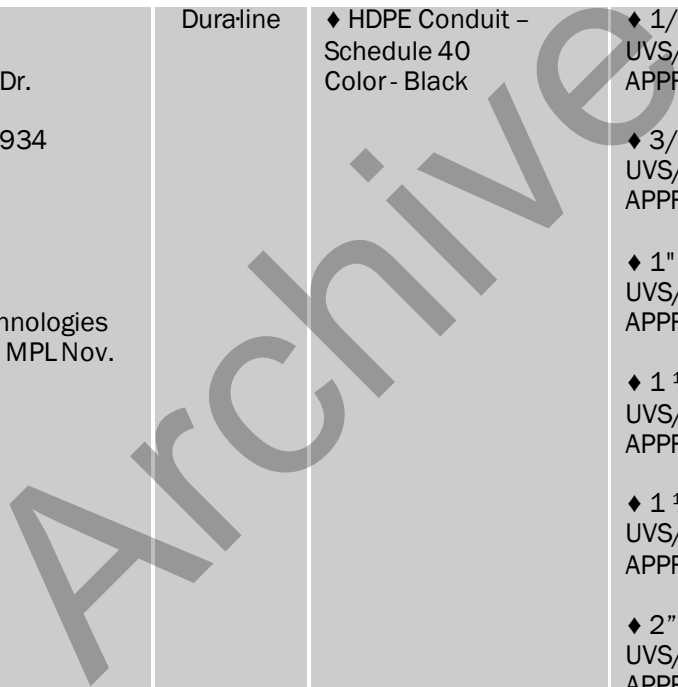
### Item 618 - PolyVinyl Chloride Pipe- (PVC)

Manufacturer	Brand	Type	Model	
OMNI  259 Plauche Street Harahan, LA 70123 (504) 736-0331  <a href="http://omni-opti.com">omni-opti.com</a>	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  <a href="http://ampipe.com">ampipe.com</a>	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	
JM Eagle  5200 West Century Boulevard Los Angeles, CA 90045 (800) 621-4404  <a href="http://jmeagle.com">jmeagle.com</a>	JM Eagle	◆ PVC	<b>Schedule 40</b> ◆ 1/2" 0.5 S40 UL ◆ 3/4" 0.75 S40 UL ◆ 1" 1 S40 UL ◆ 1 1/4" 1.25 S40 UL ◆ 1 1/2" 1.50 S40 UL ◆ 2" 2 S40 UL ◆ 2 1/2" 2.5 S40 ◆ 3" 3 S40 UL ◆ 3 1/2" 3.5 S40 ◆ 4" 4 S40 UL ◆ 5" 5 S40 UL ◆ 6" 6 S40 UL	<b>Schedule 80</b> 0.5 S80 UL 0.75 S80 UL 1 S80 UL 1.25 S80 UL 1.50 S80 UL 2 S80 UL 2.5 S80 UL 3 S80 UL 3.5 S80 UL 4 S80 UL 5 S80 UL 6 S80 UL

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### Item 618 - 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 <a href="http://bdiky.com">bdiky.com</a>	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 <a href="http://drakausa.com">drakausa.com</a>	Draka	♦ HDPE Conduit – Schedule 40 Color - Black	♦ 2" 321659 ♦ 3" 321663
Duraline 11400 Parkside Dr. Suite 300 Knoxville, TN. 37934 (865) 218-3460 (800) 847-7661 <a href="http://duraline.com">duraline.com</a> Formerly A-D Technologies Name change on MPL Nov. 2013	Duraline	♦ 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 EMPTD 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)





**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  <a href="http://unitedpolysystems.com">unitedpolysystems.com</a>	United Poly Systems	♦ HDPE Conduit – Schedule 40 Color - Black	♦ 1" Schedule 40 - D100011AORN NNNSTX  ♦ 1 1/4" Schedule 40 - D125011AORN NNNSTX  ♦ 1 1/2" Schedule 40 - D150011AORN NNNSTX  ♦ 2" Schedule 40 - D200011AORN NNNSTX  ♦ 2 1/2" Schedule 40 - D250011AORN NNNSTX  ♦ 3" Schedule 40 - D300011AORN NNNSTX  ♦ 4" Schedule 40 - D400011AORN NNNSTX  ♦ 5" Schedule 40 - D500011AORN NNNSTX  ♦ 6" Schedule 40 - D600011AORN NNNSTX

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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  <a href="http://quazite.com">quazite.com</a>	Hubbell Quazite	♦ Median Barrier Box  ♦ Median Barrier Box – for Concrete Barrier (F- Shape)  ♦ Junction Box w/Cover  OD – 9 X 11 X 7 ¼” ID – 7 ¾ X 9 ¾ X 6 ½”	♦ 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.  <b>Bought out by Southwire Corp.</b>	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  <a href="http://encorewire.com">encorewire.com</a>	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  <a href="http://servicewire.com">servicewire.com</a>	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  <a href="http://southwire.com">southwire.com</a>	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  <a href="http://advanceddigitalcable.com">advanceddigitalcable.com</a>	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  <a href="http://drakausa.com">drakausa.com</a>	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  2401 Discovery Blvd. Rockwall, TX 75032 (800) 874-7230 (214) 771-3441  <a href="http://falconfinewire.com">falconfinewire.com</a>	Falcon	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 4000 kcmil  Available Jacket Colors: Black, Red, White, Green 3090194 – ETL Number Will Be Printed On Jacket

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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  <a href="http://republicwire.com">republicwire.com</a>	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  <a href="http://colemancable.com">colemancable.com</a>	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
Kris-Tech Wire Co.  80 Otis Street Rome, New York 13441 O-(315) 339-5268 F-(315) 339-5277  <a href="http://www.kristechwire.com">www.kristechwire.com</a>	Kris-Tech	♦ XHHW-2	♦ Available in 14 AWG through 4/0
Alan Wire Company  1500 W. Malone Sikeston, MO 63801 (573) 471-9548  <a href="http://www.alanwire.com">www.alanwire.com</a>	Alan Wire	♦ XHHW-2	♦ Available in 14 AWG through 750 kcmil

### Item 620 - Breakaway Fuse-holders

Manufacturer	Brand	Type	Model
<p>Eaton –BussmannSeries</p> <p>114 Old State Road Ellisville, MO 63021 (855) 287-7626</p> <p><a href="http://cooperindustries.com">cooperindustries.com</a></p>	Bussmann	<ul style="list-style-type: none"> <li>◆ Double-pole</li> <li>◆ Double-pole</li> </ul>	<ul style="list-style-type: none"> <li>◆ HEX-KW-DRYC – used when no neutral is required</li> <li>◆ HEN-KW-DRYC – used when neutral is present</li> </ul> <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. <b>To be used when TxDOT Standards RIP and RID sheets are in plan set.</b></p>
<p>Littelfuse Inc.</p> <p>800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188</p> <p><a href="http://littelfuse.com">littelfuse.com</a></p>	Littelfuse	<ul style="list-style-type: none"> <li>◆ Double-pole</li> <li>◆ Double-pole</li> </ul>	<ul style="list-style-type: none"> <li>◆ OLEXYCSX – used when no neutral is required</li> <li>◆ LEXTOYYSX – used when neutral is present</li> </ul> <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. <b>To be used when TxDOT Standards RIP and RID are in the plan set.</b></p>

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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><a href="http://ferrazshawmut.com">ferrazshawmut.com</a></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. <b>To be used when TxDOT Standards RIP and RID are in the plan set.</b></p>
<p>Ideal Industries, Inc.</p> <p>1 Becker Place Sycamore, IL 60178 (800) 435-0705</p> <p><a href="http://idealindustries.com">idealindustries.com</a></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. <b>To be used when TxDOT Standards RIP and RID are in the plan set.</b></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.  <b>Bought out by Southwire Corp.</b>	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  <a href="http://servicewire.com">servicewire.com</a>	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  <a href="http://southwire.com">southwire.com</a>	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  <a href="http://advanceddigitalcable.com">advanceddigitalcable.com</a>	Advanced Digital	♦ Tray Cable – Power Cable – XLP  XHHW Insulation, PVC Jacket, Copper Conductors	♦ Available in 12 AWG-3 and 4 conductor



**Item 621 - Tray Cable- XHHW Conductors with Overall PVC Jacket**

Manufacturer	Brand	Type	Model	
Falcon Fine Wire and Wire Products, Inc.  2401 Discovery Blvd. Rockwall, TX 75032 (214) 771-3441 (800) 874-7230  <a href="http://www.falconfinewire.com">www.falconfinewire.com</a>	Falcon Fine Wire	◆ Tray Cable – 3 Conductors	◆ 760308XL 8AWG	
			◆ 760308XL 10AWG	
			◆ 760308XL 12AWG	
			◆ 760308XL 14AWG	
			◆ Tray Cable – 4 Conductors	◆ 760408XL 8AWG
	◆ 760410XL 10AWG			
	◆ 760412XL 12AWG			
	◆ 760414XL 14AWG			

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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.

### 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  <a href="http://duraline.com">duraline.com</a>  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  <a href="http://bdiky.com">bdiky.com</a>	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  <a href="http://drakausa.com">drakausa.com</a>	Draka	◆ Duct Cable – HDPE with XHHW Conductors Installed	◆ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering.  Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

### Item 622 - Duct Cable with Type XHHW Conductors

Manufacturer	Brand	Type	Model
Southwire Corporation  One Southwire Drive Carrolton, GA 30119 (770) 832-4242  <a href="http://southwire.com">southwire.com</a>	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  <a href="http://quazite.com">quazite.com</a>	Hubbell Quazite	♦ A ♦ B ♦ C ♦ D ♦ E	♦ PG1324B512 / PG1324H506 ♦ 2PG1324B512 / PG1324H506 ♦ PG1730B512 / PG1730H507 ♦ PG1730B517 / PG1730H507 ♦ PG1324B514 / PG1324H506
		Cover For Type A, B & E	♦ PG1324H5064A (Danger High Voltage FTM) ♦ PG1324H5064B (Danger High Voltage Irrigation) ♦ PG1324H5064D (Danger High Voltage Illumination) ♦ PG1324H5064E (Danger High Voltage Traffic Signal) ♦ PG1324H5064G (Danger High Voltage Sign Lighting) ♦ PG1324H506H7 (Danger High Voltage)
		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  <a href="http://armorcastprod.com">armorcastprod.com</a>	Armor cast	♦ A ♦ B ♦ C ♦ D ♦ E  Cover For All Boxes	♦ A6001946TAPCX12 ♦ A6001946TAPCX24 ♦ A6001640TAPCX12 ♦ A6001640TAPCX22 ♦ A6001946TAPCX18  ♦ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.
NewBasis  2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747  <a href="http://newbasis.com">newbasis.com</a>	NewBasis	♦ A ♦ B ♦ C ♦ D ♦ E  Cover For Type A, B & E  Cover For Type C & D	♦ 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  <a href="http://synertechproducts.com">synertechproducts.com</a>	Synertech	♦ A ♦ B ♦ C ♦ D ♦ E	♦ S132412HH90 ♦ S132424HH90 ♦ S173012HH90 ♦ S173024HH90 ♦ S132418HH90
		Cover For Type A, B & E	♦ S1324HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNAL ♦ S1324HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ♦ S1324HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ♦ S1324HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	♦ 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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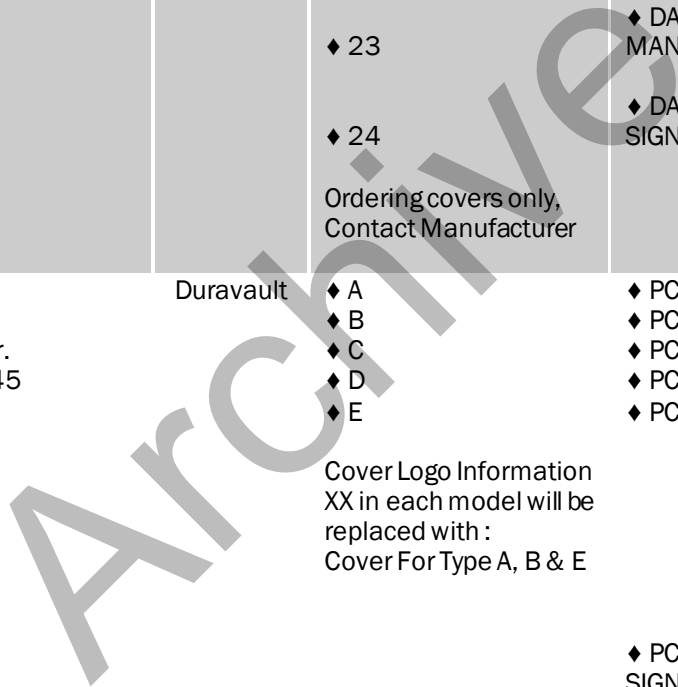
### Item 624 - Ground Boxes – Precast Polymer Concrete

Manufacturer	Brand	Type	Model
Oldcastle Enclosure Solutions  2434 Rubidoux Blvd. Riverside, CA. 92509 (800) 735-5566 (713) 875-8030  <a href="http://oldcastleprecast.com">oldcastleprecast.com</a>  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  <a href="http://cdrsystems.com">cdrsystems.com</a>	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  <a href="http://highlineproducts.com">highlineproducts.com</a>	Highline	♦ A ♦ B ♦ C ♦ D ♦ E	♦ PHA132412HTD-XX ♦ PHA132424HTD-XX ♦ PHA173012HTD-XX ♦ PHA173024HTD-XX ♦ PHA132418HTD-XX
		Cover Logo Information XX in each model will be replaced with :  ♦ 20  ♦ 21  ♦ 22  ♦ 23  ♦ 24  Ordering covers only, Contact Manufacturer	♦ DANGER HIGH VOLTAGE  ♦ DANGER HIGH VOLTAGE/ ILLUMINATION  ♦ DANGER HIGH VOLTAGE/ SIGN ILLUMINATION  ♦ DANGER HIGH VOLTAGE/ TRAFFIC MANAGEMENT  ♦ DANGER HIGH VOLTAGE/ TRAFFIC SIGNALS
Duravault  310 Weathers Dr. Laredo, TX. 78045 (885) 250-3993  <a href="http://duravault.com">duravault.com</a>	Duravault	♦ A ♦ B ♦ C ♦ D ♦ E	♦ 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	♦ 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 All Covers Read "DANGER HIGH VOLTAGE"
		Cover For All Boxes	





Item 624 - Ground Boxes – Precast Polymer Concrete

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

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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  <a href="http://electrosystems.com">electrosystems.com</a>	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  8131 Lockheed Avenue Houston, TX 77061 832-706-1866 <a href="http://www.we-mfg.com">www.we-mfg.com</a>	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  <a href="http://micacorporation.com">micacorporation.com</a>	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
SpecialtyControl Systems  629 SH 3 League City, TX 77573 (281) 332-0999  <a href="http://specialtycontrol.com">specialtycontrol.com</a>	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 <sup>nd</sup> Ave. Sacramento, CA 95823 (916) 395-8800  <a href="http://tescocontrols.com">tescocontrols.com</a>	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  <a href="http://myerspowerproducts.com">myerspowerproducts.com</a>	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

### 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.  1601 South Saint Louis St. Concordia, MO 64020 O (877)-483-5314  <a href="https://milbankworks.com">https://milbankworks.com</a>	Milbank
◆ A - Pedestal	◆ MB TYPE A-PEDESTAL - TXDOT (240/480)		
◆ D - Pedestal	◆ MB TYPE D-PEDESTAL - TXDOT (120/240)		
◆ A	◆ MB TYPE A POLE MOUNT - TXDOT 120/240		
◆ A	◆ MB TYPE A POLE MOUNT - TXDOT 240/480		
◆ C	◆ MB TYPE C POLE MOUNT - TXDOT 120/240		
◆ C	◆ MB TYPE C POLE MOUNT - TXDOT 240/480		
◆ D	◆ MB TYPE D POLE MOUNT - TXDOT 120/240		
◆ T	◆ MB TYPE T POLE MOUNT - TXDOT 120/240		
Dynamic Automation & Controls  10560 Sentinel San Antonio, TX 78217 (210) 267-2489 (855) 465-6099  <a href="http://dynamic-ac.com">dynamic-ac.com</a>	Dynamic Automation & Controls	◆ A	◆ TYPE A-POLE MOUNT
		◆ A-Pedestal	◆ TYPE A-PEDESTAL
		◆ D	◆ TYPE D-POLE MOUNT
		◆ D-Pedestal	◆ TYPE D-PEDESTAL

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Item 628 - Photoelectric Control - Photocell

Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 <a href="http://tork.com">tork.com</a>	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  <a href="http://darktolight.com">darktolight.com</a>	DTL	◆ 120-277 Volt Photocell	◆ DUX124 -12A30
Tyco Electronics 8000 Purfoy Rd. Fuquay-Varina, NC 27526 (919)557-8459  <a href="http://tycoelectronics.com">tycoelectronics.com</a>	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  <a href="http://ep-us.mersen.com">ep-us.mersen.com</a>  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 <b>TxDOT Standards RFBA and SPRFBA</b> . Installing contractor to supply dummy fuse-(slug).			
Littelfuse Inc.  800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188  <a href="http://littelfuse.com">littelfuse.com</a>	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 <b>TxDOT Standards RFBA and SPRFBA</b> . Installing contractor to supply dummy fuse-(slug).			

### Item 685 - Breakaway Holder – Non Fused

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

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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  <a href="http://akronfoundry.com">akronfoundry.com</a>	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  <a href="http://pelcoinc.com">pelcoinc.com</a>	Pelco	◆ Pedestal Pole Base	◆ SP-1014 -TX
Component Products, Inc.  521 Morse Avenue Schaumburg, IL 60193 (800) 807-6537 (847) 301-1000  <a href="http://componentproducts.com">componentproducts.com</a>	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  <a href="http://akronfoundry.com">akronfoundry.com</a>	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  <a href="http://pelcoinc.com">pelcoinc.com</a>	Pelco	◆ Pedestal Pole Base	◆ SP-1014 -TX
Component Products, Inc.  521 Morse Avenue Schaumburg, IL 60193 (800) 807-6537 (847) 301-1000  <a href="http://componentproducts.com">componentproducts.com</a>	CPI	◆ Pedestal Pole Base	◆ CPI-BAS-1P (TXDOT)
		◆ Pedestal Pole Base with Extended Neck	◆ CPI-BAS-1-PX (TXDOT)