# City of Olathe

# Public Works Department

# Traffic Division

# Approved Materials List

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# NOTE: This document is provided as a benefit to contractors and suppliers who are bidding projects for the City of Olathe. Only products identified on this list will be approved for installation on City construction projects. This list shall not be used as a substitute for catalog cuts or material approval. All material approvals shall be submitted on the approved City of Olathe Contract Project Submittal form. Failure to comply will be cause for rejection of materials until proper submittals are received. This list is updated periodically. The contractor or supplier shall contact the City of Olathe to make sure that they have the most current list prior to bidding a project. Failure to do so shall not constitute a legitimate claim for change orders.Fiber Optic System Approved Materials List

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Fiber Optic Cable** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Alcoa AFL Telecommunications | LE1449CC101N1 – 144 Count  LE0729C6101N1 – 72 Count  LE0369C5101N1 – 36 Count  LE0129C5101N1 – 12 Count  LE0069C5101N1 – 6 Count | [7/27/04](Fiber%20Optic%20Systems%20Materials/Cable/Fiber%20Optic%20Cable/Alcoa%20AFL%20Telecommunications/Alcoa%20approval%20memo%207-27-04.doc) | Single Mode Fiber  Non-Armored Loose Tube Cable |
|  | Chromatic Technologies | D740L12-144-010X – 144 Count  D740L12-72-010X – 72 Count  D740L6-36-010X – 36 Count  D740L6-12-010X – 12 Count  D740L6-06-010X – 6 Count | [10/21/02](Fiber%20Optic%20Systems%20Materials/Cable/Fiber%20Optic%20Cable/Chromatic%20Technologies/Approval%20Memo%2010-21-02.doc) |
|  | Corning Cable Systems | ALTOS All-Dielectric Gel-Free Cables  144EW4-T4101D20 – 144 Count  072EW4-T4101D20 – 72 Count  036EW4-T4101D20 – 36 Count  012EW4-T4101D20 – 12 Count | [7/2/07](Fiber%20Optic%20Systems%20Materials/Cable/Fiber%20Optic%20Cable/Corning%20Gel-free/Approval%20Memo%207-2-07.doc) |
|  | Draka Comteq | ASFLTS1JKT144 – 144 Count  ASFLTS1JKT072 – 72 Count  ASFLTS1JKT036 – 36 Count  ASFLTS1JKT012 – 12 Count  ASFLTS1JKT006 – 6 Count | [11/17/06](Fiber%20Optic%20Systems%20Materials/Cable/Draka%20Comteq/Draka%20Comteq%20approval%20memo%2010-17-06.doc) |
|  | Mohawk | M9X509 – 144 Count  M9X507 – 72 Count  M9X502 – 36 Count  M9X511 – 12 Count  M9X510 – 6 Count | [11/3/05](Fiber%20Optic%20Systems%20Materials/Cable/Mohawk/Mohawk%20fiber%20cable%20approval%20memo%2011-3-05.doc) |
|  | Superior Essex | 111443101 – 144 Count  110723101 – 72 Count  110363T01 – 36 Count  110123T01 – 12 Count  110063101 – 6 Count | [4/22/05](Fiber%20Optic%20Systems%20Materials/Cable/Fiber%20Optic%20Cable/Superior%20Essex/Superior%20Essex%20Fiber%20Optic%20Cable%20Approval%20Memo%204-22-05.doc) |

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| --- | --- | --- | --- | --- |
| **Fiber Optic Plenum Cable** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Chromatic Technologies | 800T12-144-010X – 144 Count  800T12-72-010X – 72 Count  800T6-36-010X – 36 Count  800S-06-010X – 6 Count | [10/21/02](Fiber%20Optic%20Systems%20Materials/Cable/Plenum%20Cable/Chromatic%20Technologies/Approval%20Memo%2010-21-02.doc) | Single Mode Fiber |

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| **Fiber Optic Riser Cable** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Chromatic Technologies | 400T12-72-010X – 72 Count | [10/21/02](Fiber%20Optic%20Systems%20Materials/Cable/Riser%20Cable/Chromatic%20Technologies/Approval%20Memo%2010-21-02.doc) | Single Mode Fiber |

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **HDPE Conduit** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Carlon | 2” – 13C24N1A3J | 6/5/08 | SCH SDR9 Black with Orange Strip |
|  | Carlon | 3” | 6/5/08 |
|  |  |  |  |

### Ethernet Switches [Back to Fiber Optic System Table of Contents](#_Cables__) [Back to Main](#_Approved_Materials_List)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ethernet Switch** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Cisco Systems, Inc | Catalyst IE 3300, 8 Copper + 2 Fiber Ports, 1 Gig SFP modules  65W AC Power Converter,  19” Rack Mount Kit,  3 meter Patch Cables (LC-LC) | 10-14-21 | Individual Components and corresponding part numbers listed below  Qty 1  Qty 1  Qty 1  Qty 2  Qty 2  Qty 1 |
| **Components**  Ethernet Switch  AC Power Converter | **Manufacturer**  Cisco Systems  Cisco Systems | **Catalog Number**  IE-3300-8T2S-E  PWR-IE65W-PC-AC | Approval Date  10-14-21  10-14-21 |
| 19” Rackmount Din Rail  1G SFP  8 Port Expansion Port | Cisco Systems  Cisco Systems  Cisco Systems | STK-RACK-DINRAIL  GLC-LX-SM-RGD  3 meter LC-LC Patch Cables  IEM-3300-8T (If Needed) | 10-14-21  10-14-21  10-14-21 |

### Service Boxes [Back to Fiber Optic System Table of Contents](#_Cables__) [Back to Main](#_Table_of_Contents)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type III Fiber Optic Service Box | Manufacturer | Catalog Number | Approval Date | Comments |
|  |  | (24”x36”x24”) |  | Logo to read “ City of Olathe Fiber Optics”  Cover to be 3” thick  Hex head bolts  Polymer Concrete junction box and cover  Channel boxes will be made from HDPE. |
|  | Channell | BULKU2436240061000   BULK Shield Lid (Tier22), Hex Bolt | 5/3/19 |
|  | Martin Enterprises | 2436 PC | 12/5/2013 |
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| --- | --- | --- | --- | --- |
| Type IV Fiber Optic Service Box | Manufacturer | Catalog Number | Approval Date | Comments |
|  |  | (30”x 48”x 30”) |  | Logo to read “City of Olathe Fiber Optics”  Cover to be 3” thick two-piece underlapping  Hex head bolts  Polymer Concrete junction box and cover.  Channel boxes will be made from HDPE. |
|  | Martin Enterprises | 3048 PC | 12/5/2013 |
|  | Channel | BULKU3048360081000   BULK Shield Split Lid (Tier22), Hex Bolt | 5/3/19 |
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### Signal Cabinet Termination [Back to Fiber Optic System Table of Contents](#_Cables__) [Back to Main](#_Table_of_Contents)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Components** | Manufacturer | Catalog Number | Approval Date | Comments |
| Optitip Pigtail | Corning | M212EB4D1E050F-P | 10/14/21 | 50’ pinned pigtail length  150’ non-pinned to non-pinned runner. (Longer lengths available if needed).  SPH has OptiTip. |
| Optitip Runner | Corning | M1M112EB4D1E150F-P | 10/14/21 |
| Single Panel Housing | Corning | SPH-120TR-12A9H | 10/14/21 |
| LC to LC Patch Cable |  |  | 10/14/21 |
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# ITS Approved Materials List

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### CCTV Cameras [Back to ITS Table of Contents](#_Cable___ Back to ITS Table of Con) [Back to Main](#_Table_of_Contents)

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| --- | --- | --- | --- | --- |
| **CCTV Camera** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Axis | Q6135-E | 10/14/21 | Order with mounting hardware, POE, RJ45 Cable  Order with mounting hardware, POE, RJ45 Cable |
|  | Axis | Q6215-LE | 10/14/21 |
|  |  |  |  |

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| **CCTV Cable** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | DWC | Cat6 Solid Bare Copper | 10/14/21 | Category 6 Direct Burial Outdoor cable. Solid Bare Copper |
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# School Zone Flasher Approved Material List

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| --- | --- | --- | --- | --- |
| **Time Clock** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | RTC Manufacturing, Inc. | AP22 Programmable Time Switch with R2Remote radio | 8/30/2016 | Programmable Time clock  Includes 10dB Yagi antenna, 25’ lead and CPC Harness |

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| --- | --- | --- | --- | --- |
| **Yellow Ball LED** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | GelCore | DR6-YTFB-23B | 6/5/08 | 12-volt power requirement |
|  |  |  |  |
|  | Dialight | SLENS-0519112Y | 3/1/09 |  |
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| **Vehicular Signal Head** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Eagle Signal | SA101A1111YBB – 1 Section | 6/5/08 |  |
|  | McCain |  | 6/5/08 |  |
|  |  |  |  |  |

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| --- | --- | --- | --- | --- |
| **Side-of-Pole Bracket** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Gades Sales | UKS-1452B / PDM-405 | 6/5/08 |  |

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| **Solar Panel** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | RTC Manufacturing, Inc. | Solar Panel | 6/5/08 | 80 Watt w/ mounting brackets |

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| **RRFB** | Maunufacturer | Catalog Number |  |  |
|  | RTC Manufacturing, Inc. |  | 7/25/2012 |  |
|  |  |  |  |  |
| **Solar Flasher Panel** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | RTC Manufacturing, Inc. | 502598TFA | 6/5/08 | “L” Panel |

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| **Flasher** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | RTC Manufacturing, Inc. | DC2F | 6/5/08 | 12-Volt, Solid State, w/ LED indicators  DC 2-Circuit Flasher  8-Pin Octal Base |

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| **Solar Cabinet** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | RTC Manufacturing, Inc. | RTC-503568 | 6/5/08 |  |

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| --- | --- | --- | --- | --- |
| **Round Pedestal Pole** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Gades Sales | 15’ Pedestal Pole | 6/5/08 |  |
|  | Traffic Signal Controls | 15’ Pedestal Pole | 1/1/09 |  |
|  |  |  |  |  |

# Traffic Signal Approved Materials List

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| [Cable](#_Cable___   Back to Traffic Signal T) | [Junction and Service Boxes](#_Junction_and_Service_1) | [Poles](#_Secondary_Service_Pedestals) |  |
| [Conduit and Fittings](#_Conduit_and_Fittings_   Back to Tra_1) | [LED Units](#_LED_Lenses) | [Power Backup Systems](#_Power_Backup_Systems) |  |
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| --- | --- | --- | --- | --- |
| **Backplates (Vehicular)** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Gades Sales / Neodesha Plastics | BP481PO – 1 section  BP483PO – 3 section  BP484PO – 4 section  BP485PO – 5 section | 6/5/08 | 0.125” thick  12” Signal Head Sections |
|  | MCcain  Eagle | MI-1003-L2 – 3 section for Econolite  MI-1003-N – 3 section for McCain | 6/5/08 |
| Aeroflex Backplates  **No Reflective Borders** | Pelco Products, Inc. | **Econolite**  BK-8100-1-Econolite-PNC 1 section for Econolite  BK-8100-3-Econolite-PNC 3 section for Econolite  BK-8100-4-Econolite–PNC 4 section for Econolite  BK-8100-5-Econolite-PNC 5 section for Econolite  **McCain**  BK-8100-1-McCain-PNC 1 section for McCain  BK-8100-3-McCain-PNC 3 section for McCain  BK-8100-4-McCain-PNC 4 section for McCain  BK-8100-5-McCain-PNC 5 section for McCain | 10/14/21 |

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| --- | --- | --- | --- | --- |
| **Induction Loop Cable 1c #14** | Manufacturer | Catalog Number | Approval Date | Comments |
| Supplier | Belden | 580206 | 6/5/08 | IMSA Type 51-5 Tube Loop Detector Cable  PVC/nylon Insulated cable  PVC Tube  600 Volt |
|  |  |  |  |
|  | Falcon Fine Wire | 14-1 IMSA 51-5 | 6/5/08 |
|  |  |  |  |
|  | Kris-Tech | 1419-THHN-TUBE-PVC-BLACK | 6/5/08 |
|  | ADC Cable | 14-1 IMSA 51-7 | 10/14/21 |
|  | ADC Cable | 14-1 IMSA 51-5 | 10/14/21 |  |

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| **Multi-conductor 7c#14 and 2c #14** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Advanced  Digital Cable / | 7c – 7C14B7I19-1  2c – 2C14B7I19-1 | 6/5/08 | IMSA 19-1  600 Volt  Stranded Copper  #14 AWG |
|  | Belden | 7c – 601205  2c – 601457 | 6/5/08 |
| Orion wire | Falcon Fine Wire | 7c – 980714X19-1-00  2c – 980214X19-1-00 | 6/5/0/8 |
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| **Opticom Detector Pre-emption Cable** | Manufacturer | Catalog Number | Approval Date | Comments |
| Global Traffic Technologies bought out 3M | Belden | 580461 – Model 138 | 6/5/08 |  |
| 3M | Model 138 | 6/5/08 |

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| **Radar Detector Cable** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Falcon Fine Wire | 532P2218PE-08  22/2PR Individual Shield & Drain, 18/2 Shield & Drain Stranded Tinned Copper | 10/14/21 | 22 AWG (2) orange-white / orange w/ drain wire  22 AWG (2) blue-white / blue w/ drain wire  18 AWG (2) red & black w/ drain wire |

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| --- | --- | --- | --- | --- |
| **Shielded Detector Lead-in 4c #** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Clifford of Vermont/Power Tel Supply | 4C18B70SF | 6/5/10 | IMSA Type 50-2 Loop Lead-in Cable  Polyethylene Insulated  Color code Black,red,white,green  Stranded Copper Sheild with water blocking tape  #18 AWG NO GEL FILLED |

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| **#6 AWG Equipment Ground Wire** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Cerro Wire & Cable Co, Inc. | Product Number  050-2200 or 050-2215 | 6/5/08 | Bare copper soft drawn solid copper  #6 AWG |
|  | Encore Wire LTD | Bare No. 6 AWG | 6/5/08 |
|  | Essex Electrical Products | Product Number 060062C | 6/5/08 |
|  | Senator / Southwire | Bare No. 6 AWG | 6/05/08 |
|  | Service Wire Co | Bare No. 6 AWG | 6/5/08 |

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### Conduit and Fittings [Back to Traffic Signal Table of Contents](#_Backplates__) [Back to Main](#_Table_of_Contents)

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| --- | --- | --- | --- | --- |
| **HDPE Conduit** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Carlon Lamson | 1”  2”13C24N1A3KA  4” 16C24N1A3KA | 6/5/08 | SDR9 HDPE  Black with Red Strip  Smooth solid wall  UV Stabilized |
|  | Dura-Line | 1”  2”  3”  4” | 6/5/08 |

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| --- | --- | --- | --- | --- |
| **HDPE Couplings** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | AD Technologies | Shur-Lock II | 1/1/2010 | For all sizes |

### Controller Cabinet [Back to Traffic Signal Table of Contents](#_Backplates__) [Back to Main](#_Table_of_Contents)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Pole Mount Traffic Signal Cabinet** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | IDC / US Traffic Corp. | Model 336A – 2 doors | 6/5/08 |  |
|  | Phillips Sisson Ind. | Model 336 – 2 doors | 6/5/0/08 |
|  | Safetran | Model 336A – 2 doors | [6/5/08](Traffic%20Signal%20Materials/Controller%20Cabinet/Pole%20Mount%20Signal%20Cabinet/Safetran/336A%20approval%20memo%205-5-03.doc)  5 |

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| --- | --- | --- | --- | --- |
| **Pad Mount Traffic Signal Cabinet** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Phillips Sisson Ind. | Model 332 | 6/5/08 |  |
|  | Safetran | Model 332 | 6/5/08 |
|  | McCain | Model 332 | 6/5/08 |  |
|  | Eagle | Model 332 | 6/5/08 |  |
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| **Double Pad Mount Traffic Signal Cabinet** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Safetran | Model 332D | 6/5/08 |  |
|  | McCain | Model 332D | 6/5/08 |  |
|  | Brown Traffic | Model 332D | 4/1/17 |  |

**Meter service**

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| --- | --- | --- | --- | --- |
| **Meter Can** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | PUP | USPAR-M2200-108C-OLA-AL (Photo Cell) | 1/1/2014 | w/test switch for street lights and photo cell |
|  | PUP | USPAR-M2100-100-OLA-AL | 1/1/2014 |

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### Detection Systems [Back to Traffic Signal Table of Contents](#_Backplates__) [Back to Main](#_Table_of_Contents)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Pedestrian Pushbuttons** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Polara Engineering, Inc. | Push Button Assembly – BDSP-010-B | 10/14/21 | Black Body, Momentary sound, No LED light |
| Polara Engineering, Inc. | Pole Mount Adaptor – PBFA9X15-B | 1/18/2018 |
|  | Polara Engineering, Inc. | 6” Push button extender – iN-EXT-06 | 4/25/19 |  |
|  | Polara Engineering, Inc.  Polar Engineering, Inc | 12” Push button extender iN-EXT-12  4.5” OD Pole Adapter - PBF-2S-4.5-B | 10/14/21  10/14/21 |  |

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| **Pre-empt Detectors** | Manufacturer | Catalog Number | Approval Date | Comments |
| Global Traffic Technologies | GTT | Model 764 | 7/1/2012 | Four channel card with Ethernet port |
|  |  |  |  |  |
| Global Traffic Technologies | GTT | Model 721 | 6/5/08 | Two Direction Single Channel |

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| **Pre-formed Loop Detectors** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Never-Fail Loop Systems | Model A – in or under asphalt  Model C – in concrete  Model F – in sawed grooves in asphalt | 6/05/08 |  |

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| **Radar Detectors** | Manufacturer | Catalog Number | Approval Date | Comments |
| Smart Sensor **Matrix** | Wavetronix | WX-SS-225-1DC Stop bar detector  WX-SS-611-BLK Smart Sensor mounting bracket  WX-SS-704-020 20’ Harness  WX-SS-710 inline terminal block  WX-CLK-656 cabinet interface device  SDLC cable | 10/14/21 | Includes 20’ wiring harness, smart sensor mounting bracket, inline terminal block, cabinet interface device, and SDLC cable. |
| Smart Sensor **Advance** | Wavetronix | WX-SS-200 Smart Sensor Advance  WX-SS-611-BLK Smart Sensor mounting bracket  WX-SS-704-020 20’ Harness  WX-SS-710 inline terminal block  WX-CLK-656 cabinet interface device  SDLC cable | 10/14/21 | Includes 20’ wiring harness, BLACK smart sensor mounting bracket, inline terminal block, cabinet interface device, and SDLC cable. |

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| **Vehicle Detectors** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Reno | Model C-1100 Series – Two Channel | 10/14/21 |  |
| **Video Detection Systems** | Manufacturer | Catalog Number | Approval Date | Comments |
|  |  |  |  |  |
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| --- | --- | --- | --- | --- |
| Type I Junction Box | Manufacturer | Catalog Number | Approval Date | Comments |
|  |  |  |  | 12” X 12” box Logo to read “Traffic Signal”  Cover to be ¾” min thick  Straight wall  No mouseholes  3/8” – 16 NC hex head bolts and washers  Polymer Concrete junction box and cover.  Channel boxes will be made from HDPE |
|  | Channel | BULKU1212120061000   BULK Shield Lid (Tier22), Hex Bolt | 5/3/19 |
|  | CDR | SB33-1212-12 – Box only  SC30-1212-02 – Cover only  SA33-1212-12 – Assembly | 6/5/08 |
|  | New Basis | PCB121212A04 – Box only  PCC121215A04 – Cover only | 6/5/08 |
|  | Quazite | PC1212BA12 – Box only  PC1212CA0046 – Cover only | 6/5/08 |
|  | Whately Inc. | WPBA-121212-N-S – Box only  WPCA-121201-DG-EB – Cover only | 6/5/08 |
|  | Synertech | S1212B12FA – Box only  S1212HGA0A13 – Cover / 1003 bolts | 6/5/08 |

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| **Type II Junction Box** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | CDR | City of Olathe Traffic | 1/1/09 | 12” X 18” X 18” Logo to read “Traffic Signal”  Cover rating 22,500 BS over A 10” square  Straight wall  No mouseholes  Polymer Concrete junction box and cover  Channel boxes will be made from HDPE |
|  |  |  |  |
|  | Channel | BULKU1118120061000   BULK Shield Lid (Tier22), Hex Bolt |  |
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| --- | --- | --- | --- | --- |
| Round Service Box | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Armorcast | A6000182HDAX36 | 6/5/08 | Logo to read “Traffic Signal”  Polymer Concrete junction box and cover |
|  | CDR |  | 6/5/08 |
|  | Quazite | PR2732BA36  PR2700HH00W31 | 6/5/08 |
|  | Martin Ent. | 270036 | 10/14/21 |  |

### LED Units [Back to Traffic Signal Table of Contents](#_Backplates__) [Back to Main](#_Table_of_Contents)

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| --- | --- | --- | --- | --- |
| **Red Ball LED** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | DiaLight | 433-1210-003XL15 | 2/14/2014 | Tinted lens only  Incandescent look  15yr warranty |
|  |  |  |  |
|  | LEOTEK | TSL-12R-DT-A1 | 10/14/21 |

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| **Yellow Ball LED** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | DiaLight | 433-3230-901XL15 | 2/14/2014 | Tinted lens only  Incandescent look  15yr warranty |
|  |  |  |  |
|  | LEOTEK | TSL-12Y-DT-A1 | 10/14/21 |

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| **Green Ball LED** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | DiaLight | 433-2220-001XL15 | 2/14/2014 | Tinted lens only  Incandescent look  15yr warranty |
|  |  |  |  |
|  | LEOTEK | TSL-12G-DT-A1 | 10/14/21 |

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| **Pedestrian LED** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | DiaLight | 430-6472-001 | 6/5/08 | Orange Hand/White Man  Filled/Overlay Style  Incandescent look |
|  |  |  |  |
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| **Countdown Pedestrian LED** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | DiaLight | 430-6479-001 | 6/5/08 | Orange Hand/White Man Incandescent look  Filled/Overlay Style  9” Numerals |
|  | LEOTEK | TSL-PED-16-SPC-V1 | 10/14/21 |
| **Red LED Arrow** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | DiaLight | 432-1314-001XOD | 6/5/08 | Tinted or clear lens is acceptable  Incandescent look  15yr warranty |
|  | LEOTEK | TSL-12RA-DT-A1 | 10/14/21 |
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| **Yellow LED Arrow** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | DiaLight | 431-3334-901XOD | 6/5/08 | Tinted or clear lens is acceptable  Incandescent look  15yr warranty |
|  | LEOTEK | TSL-12YA-DT-A1 | 10/14/21 |
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| **Green LED Arrow** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | DiaLight | 432-2324-001XOD | 6/5/08 | Tinted or clear lens is acceptable  Incandescent look  15yr warranty |
|  | LEOTEK | TSL-12GA-DT-A1 | 10/14/21 |
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**LED Backlit Sign**

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| --- | --- | --- | --- | --- |
| **LED Backlit Signs** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Southern Manufacturing | Clean Profile, Single Sided | 6/10/2016 | Must be able to work on all internal parts of the sign. No lights shall mount to bottom tray of the sign. |
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### Loop Sealants [Back to Traffic Signal Table of Contents](#_Backplates__) [Back to Main](#_Table_of_Contents)

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| --- | --- | --- | --- | --- |
| **Loop Sealants** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | 3M | Black 5000 | 6/5/08 | . |
|  | Crafco Inc | RoadSaver 221, Part No. 34221 | 6/5/08 |
|  |  |  |  |

### Miscellaneous Controller

### Equipment [Back to Traffic Signal Table of Contents](#_Backplates__) [Back to Main](#_Table_of_Contents)

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| **2070 Controller** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Safetran 2070 2009 Tees with 1C CPU | Model 2070C1D5500 | 11/15/2013 | With Econolite ASC 3 Firmware |
|  |  |  |  |  |
| 1-C CPU Module | Econolite Control Products, Inc. | 119-1039-501 | 2/19/2013 | Ethernet and USB port |

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| **Conflict Monitor** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | EDI / Eberle Design, Inc. | 2010 ECL IP | 6/5/08 | Ethernet port |
|  |  |  |  |
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| **Surge Protector** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | IT Protector | HS-P-SP | 6/5/08 | 60 amp |

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| **Flasher Unit** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | EDI / Eberle Design, Inc. | EDI 204 | 6/5/08 | Model 204 |
|  | TSC / Traffic Sensor Corp | TSC 204 | 6/5/08 |
|  | GDI / General Devices & Instruments | FL204 | 6/5/08 |
|  | PDC / Power Distribution Control | SSF-88 | 6/5/08 |
|  | Reno A&E | FL-200 | 6/5/08 |

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| **Switchpack / Load Switch** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | EDI / Eberle Design, Inc. | EDI 200 | 6/5/08 | Model 200 |
|  | GDI / General Devices & Instruments | LS200 | 6/5/08 |
| Quixote Traffic Corp purchased US Traffic | IDC / US Traffic Corp / Quixote Traffic Corp | 200 | 6/5/08 |
|  | PDC / Power Distribution Control | SSS-88 | 6/5/08 |
|  | Reno A&E | LS-200 | 6/5/08 |
|  | TSC / Traffic Sensor Corp | TSC200 | 6/5/08 |

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| **Flash Transfer Relay** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | CII Technologies / MidTex | MidTex 136-62T3A1 | 6/5/08 | Model 430 |
|  | Magnecraft | W21ACPX-2 | 6/5/08 |
|  | Reno A&E | TR-200 | 6/5/08 |  |

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| **DC Isolator** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | GDI / General Devices & Instruments | DIM242 | 6/5/08 | Model 242 |
|  | PDC / Power Distribution Control | DCI-82 Model 242 | 6/5/08 |
|  | TSC / Traffic Sensor Corp | TSC 242 | 6/5/08 |

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| **Power Distribution Surge Protection Unit** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Alantic Scientific | Rack Pro | 11/4/05 | 8 transformer spaced outlets  15 amp breaker  Rack mounted |

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| **Pre-empt Phase Selectors** | Manufacturer | Catalog Number | Approval Date | Comments |
| Global Traffic Technologies | Global Traffic Technologies | Model 764- 4 Channel | 3/1/2012 |  |

### Mounting Brackets [Back to Traffic Signal Table of Contents](#_Backplates__) [Back to Main](#_Table_of_Contents)

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| **Black Mounting banding** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Band-IT | C206C9-P900 | 2/1/2013 | Stainless Steel ¾” Black Polyester Coating  Buckles C25699-D900 |

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| **Radar Detector Mounting Bracket for Mast Arm** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Wavtronix | WX-SS-611-BLK | 3-5-2012 | Shall include WX-SS-710 Terminal block |

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| **Mast Arm Signal Head Bracket** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Sky Bracket | clamp kit 66” SS-SBC66-SCK  arm kit SS-SB-SAK  3 section Gusset tube 1086-8-46TK | 3-1-2012 | Cable mount bracket assembly  Black in Color |
|  |  |  |  |  |

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| **Side Mount Signal Head Bracket** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Auto/Eagle | UKS-1452B | 6/5/08 | Black polycarbonate |
|  | Component Products, Inc. | TSP880-Y | 6/5/08 |
|  | Gades | UKS1452Y / PDM-405 | 6/5/08 |

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| **Mini Pre-empt Detector Bracket** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Pelco Products, Inc. | Astro Brac AB-0163-L | 6/5/08 | Cable mount |

### Poles [Back to Traffic Signal Table of Contents](#_Backplates__) [Back to Main](#_Table_of_Contents)

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| **Galvanized Steel Signal Poles** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Union Metal | 50915-B12 (Y1 through Y77) Rev RO | 6/5/08 | Shall meet 2009 AASHTO Criteria |
|  | Valmont | DB00251-REV-F-03-16-10 | 3/16/2010 |
|  |  |  |  |

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| **Aluminum Pedestal Poles** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Component Products, Inc | Pedestal Base CPI-BAS-1  Pole Cap CPI-APC-1  9’ Pedestal Pole CPI-AP-9-40  13’ Pedestal Pole CPI-AP-13-40  14’ Pedestal Pole CPI-AP-14-40 | 6/5/08 | Ped collar required |
|  | Gades Sales | Pole Cap PC4.5  9’ Pedestal Pole, PB5100-9  13’ Pedestal Pole, PB5100-13  14’ Pedestal Pole, PB5100-14 | 6/5/08 |
|  | Pelco | Pedestal Base PB-5335  Pole Cap PB-5402  9’ Pedestal Pole PB-5100-9  13’ Pedestal Pole PB-5100-13  14’ Pedestal Pole PB-5100-14 | 6/5/08 |

### Power Backup Systems [Back to Traffic Signal Table of Contents](#_Backplates__) [Back to Main](#_Table_of_Contents)

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| **UPS Systems** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Clary | SP1250LX PDN Rack Mount Unit | 6/5/08 | To include  SP-09A2 SNMP Adaptor  SPD-302A - Bypass w/generator plug  SP-19N1 - Battery Cable  OP72C – Batteries 6 per set |
|  | APC | UPS XU1K0LLXXRCC  Batteries XB050XX1XS  Bypass XS30ALLXXR2  Batttery Harness XHXXS7A8F | 10/14/21 | To include:  (4) Four Gel Cell batteries  Bypass Unit  Battery Harness |

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| --- | --- | --- | --- | --- |
| **Power Transfer Switches** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Generac | 6377 | 10/14/21 | Double Pole 30 Amp manual transfer switch  Aluminum housing and #2 key  Pilot light indicator |

### Signal Heads [Back to Traffic Signal Table of Contents](#_Backplates__) [Back to Main](#_Table_of_Contents)

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| --- | --- | --- | --- | --- |
| **Vehicular Signal Heads** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | Eagle Signal | SG for 3 Section  SG for 4 Section  SG for 1 Section | 1/1/2019 | Black Polycarbonate Body  Black Polycarbonate Doors and Visors  Visors to be Tunnel Type  LED retrofit  12” Sections |
|  |  |  |  |
|  | McCain Traffic Supply | MTSTP-1X-6-XX-MMP1213PB for 1 Section  MTSTP-3X-6-XX-MMP1213PB for 3 Section  MTSTP-4X-6-XX-MMP1213PB for 4 Section | 6/5/08 |

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| --- | --- | --- | --- | --- |
| **Pedestrian Signal Heads Mount** | Manufacturer | Catalog Number | Approval Date | Comments |
|  | McCain Traffic Supply | M69916 | 6/5/08 | Black Polycarbonate Body 16” X 18”  Black Aluminum Doors / No Visors  No Z or EGG crate |
|  | Siemens | SG7 W/ clamshell bracket | 6/5/08 |
|  |  |  |  |