



CITY OF TULSA TRAFFIC OPERATIONS DIVISION

APPROVED PRODUCTS LIST

July 2022

COT SPEC #	DESCRIPTION	MANUFACTURER	MODEL NAME	MODEL NUMBER	APPROVAL STATUS	NOTES
SIGNALS						
Underground Infrastructure						
601	<u>Type I Pull Boxes</u>	Synertech Synertech	S Series Lid - "Traffic Signal" or "Highway Lighting"	S1118B18FA Duo Box 11x18-18" S1118HBBOA	Approved 2-20-2013 Approved 2-20-2013	Lid text shall match intended use.
		Synertech Synertech	S Series Lid - "Traffic Signal" or "Highway Lighting"	S1324B18FA Duo Box 13x24-18" S1324HBBOA13-HD	Approved 2-20-2013 Approved 2-20-2013	Lid text shall match intended use.
		Strongwall/Quazite Strongwall/Quazite	"PG" Style Lid - "Traffic Signal" or "Highway Lighting"	PG1118BA18 PG1118HA00	Approved 2-20-2013 Approved 2-20-2013	Lid label shall match intended use.
		Pencell	DT with polymer concrete ring	DT-2-1118PC	Approved 7-29-2015	Conditionally approved pending update of part number to indicate concrete not HDPE ring.
		IRBY/Old Castle	Old Castle, Pull Box	13242565	Approved 7-16-2020	Pull box and lid, 11X18X18
		Hubbell Quazite	Pull Box Lid	PG1324, PG2436	Approved 7-16-2020	Polymar concrete underground boxes/lid
		Duralite/Oldcastle	Duralite pullboxes - verious sizes	11182590, 13242565, 17302590, 24362076	Approved 1-20-2021	Box sizes - 11*18, 13*24, 17*30, 24*36
		Duralite/Oldcastle Synertech	Duralite pullbox lids - verious sizes Lid - "Traffic Signal" or "Highway Lighting"	11184512, 13244622, 17304402, 24364222 S1730HBBOA13-HD	Approved 1-20-2021 Approved 2-20-2013	Lid sizes - 11*18, 13*24, 17*30, 24*36 Lid label shall match intended use.
		Strongwall/Quazite Strongwall/Quazite	"PG" Style Lid - "Traffic Signal" or "Highway Lighting"	PG1730BA24 PG1730HA00	Approved 2-20-2013 Approved 2-20-2013	Lid label shall match intended use.
		Pencell	DT with polymer concrete ring	DT-2-1118PC	Approved 7-29-2015	Conditionally approved pending update of part number to indicate concrete not HDPE ring.
		IRBY/Old Castle	Old Castle, Pull Box	13242565	Approved 01-16-2020	Pull box and lid, 17X30X24
601	<u>Type III Pull Boxes</u>	Synertech Synertech	S Series Lid - "Traffic Signal" or "Highway Lighting"	S2436B24FA Duo Box 24x36-24" S2436HCBOA13-HD	Approved 2-20-2013 Approved 2-20-2013	Lid label shall match intended use.
		Strongwall/Quazite Strongwall/Quazite	"PG" Style Lid - "Traffic Signal" or "Highway Lighting"	PG2436BA24 PG2436HA00	Approved 2-20-2013 Approved 2-20-2013	Lid label shall match intended use.
		Pencell	DT with polymer concrete ring	DT-2-1118PC	Approved 1-25-2017	Need updated part number. Must have concrete ring not HDPE.
		IRBY/Old Castle	Old Castle, Pull Box	13242565	Approved 01-16-2020	Pull box and lid, 24X36X24
602	<u>Couplings (HDPE to PVC Connectors)</u>	Etco	ELOC	EL-**** (* = Size)	Approved 2-20-2013	
604	<u>Water Proof Connection Twist Connects</u>	King Innovation Ideal	Dryconn Underground Wire Connector	#10444 #30-260 and #30-264	Approved 2-20-2013 Approved 2-20-2013	Loop/Lead-in Connections, Connections made in pullboxes
	<u>Cable - Signals</u>	Advanced Digital Cable	IMSA Signals cable	8205, 8207, 8209, 8215, 8220, 8221, 8780	Approved 7-16-2020	IMSA Signals cable spec 20-1, solid bare copper w/ PG Insulation
Poles						
617	<u>Poles With Mastarms</u>	Pelco Structural & Steel NOV Ameron Pole Products	Multisided - Galvanized Multisided - Galvanized Galvanized	1R**, 2B**, 3G**, 4Y**, or 5W** (** = Size of Mast Arm) 1R**, 2B**, 3G**, 4Y**, or 5W** (** = Size of Mast Arm) 1R**, 2B**, 3G**, 4Y**, or 5W** (** = Size of Mast Arm)	Approved 2-20-2013 Approved 7-2-2014 Approved 1-25-2017	Specification shall be updated to allow round or multi-sided poles
617	<u>Luminaire Arms</u>	Pelco Structural & Steel NOV Ameron Pole Products	Multisided - Galvanized Multisided - Galvanized Galvanized	1RE, 2BE, 3GE, 4YE, or 5WE 1RE, 2BE, 3GE, 4YE, or 5WE 1RE, 2BE, 3GE, 4YE, or 5WE	Approved 2-20-2013 Approved 7-2-2014 Approved 1-25-2017	Specification shall be updated to allow round or multi-sided poles
617	<u>Pedestal Poles</u>	Pelco Pelco	4" Sch-40 Spun Aluminum 4" Sch-40 Spun Aluminum	PB-5100-5'-PNC PB-5100-10'-PNC	Approved 2-20-2013 Approved 2-20-2013	For pushbutton poles For vehicle and pedestrian signal poles



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617		Pelco Frey Manufacturing	4" Sch-40 Spun Aluminum AASHTO MASH CP6 Series	PB-5100-13'-PNC CP6ACT4840TCSS	Approved 2-20-2013 Approved 7-14-2021	For school signal flasher poles NOTE: Cannot be taller than 10 Feet.
617	<u>Pedestal Pole Caps</u>	Pelco	4" Dome Type Aluminum	PB-5402-PNC	Approved 2-20-2013	For all 4" poles
617	<u>Bases</u>	Pelco	Octagon Base Assembly Aluminum	PB-5349-GL-PNC	Approved 2-20-2013	For all 4" poles
617	<u>Pole & Base Collars</u>	Pelco	4" Pole & Base Collar	PB-5326-PNC	Approved 2-20-2013	For all 4" poles
617	<u>Pole Mount Sign Clamps</u>	Pelco	4" U-Bolt Sign Clamp	SH-0206-4.5-PNC	Approved 2-20-2013	For mounting signs on 4" poles
617	<u>Pole Mount Sign Clamps</u>	PermaBrand	Stainless steel banding sign Clamp	PMB 201, 205, 256, 2150	Approved 1-16-2020	For mounting signs, signals equipment and other use.
617	<u>Pole Mount Confirmation Light</u>	Pelco Pelco	Confirmation Light Assembly with Globe Mounting Hub 1-1/2" NPS, 4-1/2" OD Pole	SM-0284-CL-PNC SE-0384-PNC	Approved 2-20-2013 Approved 2-20-2013	For 4" Pole Mounted Confirmation Lights (6' cable required) For 4" Pole Mounted Confirmation Lights
617	<u>Powder Coat & Paint</u>	Pelco Pelco Sherwin Williams	Dark Brown Powder Coat Black Powder Coat Metalatex Semi-Gloss	P-69 P-33 B42T104	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	Used downtown Gloss black Traffic bronze - used downtown for items where powder coating is unavailable
615	<u>Base Covers</u>	Pelco			Approved 2-20-2013	To fit COT standard poles
Pre-emption						
606	<u>Detectors</u>	Global Traffic Tech. (GTT) Global Traffic Tech. (GTT) Global Traffic Tech. (GTT)	Opticom 700 Series Infrared Detector Opticom 700 Series Infrared Detector Opticom 700 Series Infrared Detector	Model 711 Model 721 Model 722	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	
606	<u>Phase Selectors</u>	Global Traffic Tech. (GTT) Global Traffic Tech. (GTT)	Opticom 700 Series Infrared and GPS Opticom 700 Series Infrared	Model 764 Model 762	Approved 2-20-2013 Revised 12-4-2013	For infrared and GPS locations with a 332 cabinet For infrared locations with a 336 cabinet
606	<u>Interface Panels</u>	Global Traffic Tech. (GTT)	Opticom 700 Series Aux. Panel	Model 768	Approved 2-20-2013	For 332 or 336 cabinets green sense connections to a model 762 or 764 phase selector
606	<u>Emitters</u>	Global Traffic Tech. (GTT)	Opticom 700 Series	Model 792H	Approved 2-20-2013	
606	<u>Pre-emption Cable</u>	Global Traffic Tech. (GTT)	Opticom 700 Series	Model 739	Approved 2-20-2013	
606	<u>Clamps</u>	Pelco	Mini-Brac, Cable Mount	AB-0163-62-SS-PNC	Approved 2-20-2013	
Power						
607	<u>Pedestal Power Supply Base</u>	Eaton Cutler Hammer		CHPADEXT	Approved 2-20-2013	For concrete pedestal mount power outlet panels
607	<u>Pedestal Power Supply</u>	Eaton Cutler Hammer Tesco Controls, Inc.	Unmetered Pedestal Type Slimline Pedestal Series	CHU4N7NP and CHPADEXT 26-000 Wired to COT Spec.	Approved 2-20-2013 Approved 2-20-2013	Without meter can 120 Volt AEP approved meter socket wiring
607	<u>Disconnects</u>	General Electric Cutler Hammer	240V, 125A, 4-Circuit, 1PH, 3R 120/240V, 125A, 4-Circuit, 1PH	TL412R1 CH4L125RP	Approved 2-20-2013 Approved 2-20-2013	
	<u>Conduit - Metal</u>	Allied	Electrical Rigid Metal Galv Conduit	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 5, 6	Approved 7-16-2020	Electrical Rigid Metal Galv Conduit - various sizes
	<u>Conduit - PVC</u>	Allied	Electrical PVC Sch 40 Conduit	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 5, 7	Approved 7-16-2020	Electrical PVC Schedule 40 Conduit - various sizes
Cabinet Equipment						
SPECIAL	<u>ATC Controllers</u>	Econolite	Cobalt	Rack-Mount and Shelf-Mount	Approved 1-27-2016	
610	<u>Conflict Monitors</u>	Eberle Design Eberle Design	210 Series 210 Series	210E 210ECL	Approved 2-20-2013 Approved 2-20-2013 Updated 1-27-2016	For maintenance only - not for new construction. With EIA - 232 Communications Port. Of the conflict monitors currently on the list only the EDI 210ECL shall be allowed on any new construction projects.



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610	<u>Mechanical Lugs</u>	Morris	Aluminum Mechanical Lug - AML6	No. 90712	Approved 7-17-2013	6 Str. - 14 Sol.
332 Cabinets						
610	<u>332 Cabinets</u>	McCain PSI IDC Econolite/Safetran	332/170E Cabinet Assembly	M34994-SC STCAB2579	Updated 1-28-2015 Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	332, Tulsa, P/COAT, Anti Graf, Gray Outside, White Inside
610	<u>332 Stretch Cabinets</u>	McCain Econolite/Safetran	332S/170E Stretch Cabinet Assembly	M36143-SC STCAB2580	Approved 1-28-2015 Approved 1-28-2015	332S, Tulsa, (78") P/COAT, Anti Graf, Gray Outside, White Inside
610	<u>Suppressors</u>	Innovative Technologies		HS-P SP-120-60A-RJ AC	Approved 2-20-2013	
610	<u>Pedestrian Isolator Cards</u>	GDI PDC IDC	DC Isolator Card DC Isolator Card DC Isolator Card	Model 242 Model 242 Model 242	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	
610	<u>Snubbers</u>	General Electric Panasonic	General Electric Capacitor Panasonic Film Capacitor	GE 42L1151 ECQ-E2155KB3	Approved 2-20-2013 Approved 2-20-2013	800VDC, 1.5 uF, + or - 5% 250VDC, 1.5 uF, + or - 10%
610	<u>Surrestors</u>	Emerson	Edco SRA	SAR 6-LCBLL	Approved 2-20-2013	
610	<u>Cabinet Rack Shelves</u>	Chatsworth Products, Inc. Chatsworth Products, Inc.	Small Peripheral Shelf 2U Standard Single-Sided Steel Shelf 3U	10758-701 40750-719	Approved 2-20-2013 Approved 2-20-2013	17.35" Wide X 9.82" Deep, ADA Pushbutton Controllers, 768 AIP Opticom, All 332 Cabinets 17.25" Wide X 14.75" Deep, 332 Stretch Cabinets Only, For Communications Equipment
336 Cabinets						
610	<u>336 Cabinets</u>	McCain PSI IDC Econolite/Safetran			Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	
610	<u>336G Cabinets</u>	McCain			Approved 2-20-2013	For junction cabinets only
610	<u>Suppressors</u>	Innovative Technologies		HS-P SP-120-30A-RJ AC	Approved 2-20-2013	
610	<u>Pedestrian Isolator Cards</u>	GDI PDC IDC	DC Isolator Card DC Isolator Card DC Isolator Card	Model 242 Model 242 Model 242	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	
610	<u>Snubbers</u>	General Electric Panasonic	General Electric Capacitor Panasonic Film Capacitor	GE 42L1151 ECQ-E2155KB3	Approved 2-20-2013 Approved 2-20-2013	800VDC, 1.5 uF, + or - 5% 250VDC, 1.5 uF, + or - 10%
610	<u>Surrestors</u>	Emerson	Edco SRA	SAR 6-LCBLL	Approved 2-20-2013	
ITS Cabinets						
SPECIAL	<u>ITS Cabinets</u>	Econolite/Safetran	ITS Cabinet Assembly	Type I, Type II, and Type III	Approved 1-27-2016	
Pedestrian Push Button Systems						
613	<u>Audible Pushbuttons</u>	Polara Polara Pelco	Navigator APS - EZ Communicator System EN2 - EZ Comm. Nav. 2 Wire PB Station APS Assy, Intelli-Cross	EN29CB0-PY or EN29CB1-PY SE-2900-PXX (std. config.); SE-2901-PXX (custom config.)	Approved 2-20-2013 Approved 2-20-2013 Approved 1-25-2017	Navigator System Only Navigator System Only w/single arrow, for 5"X7-3/4" sign, alum, federal yellow
	Audible Pushbutton Controller(s) Audible Pushbutton Station	Polara Polara	iNtelligent Central Control Unit Card iNavigator 2-Wire Push Button Station	ICCU-C2, ICCU-S2 iNS 2	Approved 7-16-2020 Approved 7-16-2020	Polara PB Controller - iNtelligent Central Control Unit Rack Mount and Shelf Mount Polara - iNavigator 2-Wire Push Button Station



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613	<u>Audible Pushbutton Sign Adapters</u>	Polara	Push Button Frame Adapter, 9"X12"	PBFA9X12-Y	Approved 2-20-2013	Navigator System Only
613	<u>Audible Pushbutton Mounting Adapters</u>	Polara	2- 9"X12" Navigators on a 4" Pole	NPA4X2-Y	Approved 2-20-2013	4" Pushbutton Pole and Navigator System Only
613	<u>Non-Audible Pushbuttons</u>	Campbell Campbell Pelco Polara	4EVR 4EVR ADA Push Button Assembly Bulldog III	DCC 4 EVR C2 OVAL - TA - Yellow 4EVR C Round TA - Yellow SE-2039-1-P29 or SE-2039-1-P33 BDL3AU-Y	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	Only use at locations with a 242 or 244 Ped Isolator Card Only use at locations with a 242 or 244 Ped Isolator Card All locations Only use at locations with a 242 or 244 Ped Isolator Card
613	<u>Non-Audible Pushbutton Mounting Assemblies</u>	Campbell Pelco Polara	Button Caps ADA Push Button Body Assembly Aluminum Push Button Cup	3" SR LP - Yellow SE-2140-1-P29 or SE-2140-1-P33 APBC-Y	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	Use with Campbell Pushbuttons Only Use with Pelco Pushbuttons Only Use with Polara Pushbuttons Only
Signal Heads						
614	<u>Vehicle Heads</u>	Siemens Siemens Siemens Peek Peek Peek	Eagle Polycarbonate 1 sec Yellow Head Eagle Polycarbonate 3 sec Yellow Head Eagle Polycarbonate 5 sec Yellow Head TCT Polycarbonate 1 sec Yellow Head TCT Polycarbonate 3 sec Yellow Head TCT Polycarbonate 5 sec Yellow Head	SA 101B 1C01 YYY 10 SA 103A 1C01 YYY 30 SA 105H 1C01 YYY 50 PSS81B001FO PSS83B003FO PSS85B005FO	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	COT #37 Heads COT #25, 36, 54L, 54R, 54L-L, and 54R-L Heads COT #64L & 64R Heads COT #37 Heads COT #25, 36, 54L, 54R, 54L-L, and 54R-L Heads COT #64L & 64R Heads
614	<u>Vehicle Head Visors</u>	Siemens Peek	Eagle Yellow Tunnel Visor TCT Yellow Tunnel Visor	A700120XX 0700493B	Approved 2-20-2013 Approved 2-20-2013	For 12" vehicle heads For 12" vehicle heads
614	<u>Vehicle Backplates</u>	Pelco Pelco Pelco Pelco Gades Sales Gades Sales Chapel Hill Manufacturing Crown Metal Products	Vacuum Formed ABS Vacuum Formed ABS Vacuum Formed ABS Vacuum Formed ABS 12" Louvered Doghouse Aluminum Backplate 12" Louvered 3-section Aluminum Backplate backplate, aluminum louvered backplate, aluminum louvered	BK-1003-E-PNC BK-1003-C-PNC BK-1007-E-PNC BK-1007-C-PNC BP485DHAL-P BP483AL-P 5330X, 5332X, 5333X, 7386X BP-48X-A-X-T T=With 2" reflective tape	Approved 2-20-2013 Updated 7-29-2015 Approved 2-20-2013 Updated 7-29-2015 Approved 2-20-2013 Updated 7-29-2015 Approved 12-4-2013 Approved 12-4-2013 Approved 7-16-2020 Approved 1-20-2021	COT #25, 36, 54L, 54R, 54L-L, and 54R-L Heads - Replacements only - Not for new construction COT #25, 36, 54L, 54R, 54L-L, and 54R-L Heads - Replacements only - Not for new construction COT #64L & 64R Heads - Replacements only - Not for new construction COT #64L & 64R Heads - Replacements only - Not for new construction COT #64L & 64R Heads COT #25, 36, 54L, 54R, 54L-L, and 54R-L Heads Vehicle signal backplate, aluminum louvered w/2" retro-reflective border Vehicle signal backplate, aluminum louvered w/2" retro-reflective border
614 & 616	<u>Vehicle Head Mounts</u>	Pelco Pelco Pelco Pelco Pelco Pelco Pelco	3-Section Clamp Mount 3-Section Clamp Mount 5-Section Clamp Mount 5-Section Clamp Mount 2-1 Section Clamp Mount 1-3 Section Post Top Mount 2-3 Section Post Top Mount	AS-0125-3-62-SS-PNC AS-0125-3-84-SS-PNC AS-0138-62-SS-PNC AS-0138-84-SS-PNC AS-0188-1-62-SS-PNC SE-3013-3-PNC SE-3048-3-PNC	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	COT #25, 36, 54L, 54R, 54L-L, and 54R-L Heads, Varies by MA Size COT #25, 36, 54L, 54R, 54L-L, and 54R-L Heads, Varies by MA Size COT #64L & 64R Heads, Varies by MA Size COT #64L & 64R Heads, Varies by MA Size All flasher locations All 1-Way Post Top 3-Section Vehicle Heads, COT #36 All 2-Way Post Top 3-Section Vehicle Heads, COT #36
614	<u>Vehicle Head Mounted Confirmation Lights</u>	Pelco Pelco	Confirmation Light Assembly with Globe Mounting Hub 1-1/2" NPS 4-1/2" OD Pole	SM-0284-CL-PNC SE-0384-PNC	Approved 2-20-2013 Approved 2-20-2013	All vehicle head mounted confirmation lights All vehicle head mounted confirmation lights
614	<u>Vehicle LED Ball Indications</u>	General Electric General Electric General Electric	RX11 LED Signal Modules RX11 LED Signal Modules RX11 LED Signal Modules	DR6-RTFB-VLA DR6-YTFB-VLA DR6-GTFB-VLA	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	All red ball indications All yellow ball indications All green ball indications



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		Dialight Dialight Dialight	ITE, Caltrans Approved ITE, Caltrans Approved ITE, Caltrans Approved	433-1210-003XL 433-3230-901XL 433-2220-001XL	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	All red ball indications All yellow ball indications All green ball indications
		Duralight Duralight Duralight	JXC - 300HF Series JXC - 300HF Series JXC - 300HF Series	JXC300-HFTR03 JXC300-HFTY03 JXC300-HFTG03	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	All red ball indications All yellow ball indications All green ball indications
		Leotec	IL6 Ball	TSL-12R-LX-IL6-A1-P3	Approved 2-20-2013 Updated 10-1-14	All red ball indications
		Leotec	IL6 Ball	TSL-12Y-LX-IL6-A1-P3	Approved 2-20-2013 Updated 10-1-14	All yellow ball indications
		Leotec	IL6 Ball	TSL-12G-LX-IL6-A1-P3	Approved 2-20-2013 Updated 10-1-14	All green ball indications
		GE GE GE	GTX City VLA Model LED Signal Modules 12" GTX City VLA Model LED Signal Modules 12" GTX City VLA Model LED Signal Modules 12"	DR6-RCFB-VLA 12" red ball LED, clear lens DR6-YCFB-VLA 12" yellow ball LED, clear lens DR6-GCFB-VLA 12" green ball LED, clear lens	Approved 1-27-2016 Approved 1-27-2016 Approved 1-27-2016	All red ball indications All yellow ball indications All green ball indications
614	Vehicle LED Arrow Indications	General Electric General Electric General Electric	GT1 LED Arrow Signals GT1 LED Arrow Signals GT1 LED Arrow Signals	DR6-RTAAN-17A DR6-YTAAAN-17A DR6-GTAAAN-17A	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	All red arrow indications All yellow arrow indications All green arrow indications
		Dialight Dialight Dialight	ITE, Caltrans Approved ITE, Caltrans Approved ITE, Caltrans Approved	433-1314-001X0D 433-3334-001X0D 433-2324-001X0D	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	All red arrow indications All yellow arrow indications All green arrow indications
		Duralight Duralight Duralight	JXJ300-07 Series JXJ300-07 Series JXJ300-07 Series	JXJ300-07R03 JXJ300-07Y03 JXJ300-07G03	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	All red arrow indications All yellow arrow indications All green arrow indications
		Leotec Leotec Leotec	IL6 Arrow IL6 Arrow IL6 Arrow	TSL-12RA-IL6-A1 TSL-12YA-IL6-A1 TSL-12GA-IL6-A1	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	All red arrow indications All yellow arrow indications All green arrow indications
		GE GE GE	GT1 LED Arrow Signal Modules 12" GT1 LED Arrow Signal Modules 12" GT1 LED Arrow Signal Modules 12"	DR6-RCAAN-17A 12" red arrow LED, clear lens DR6-YCAAN-17AYX 12" yellow arrow LED, clear lens DR6-GCAAN-17A 12" green arrow LED, clear lens	Approved 1-27-2016 Approved 1-27-2016 Approved 1-27-2016	All red arrow indications All yellow arrow indications All green arrow indications
614	<u>Pedestrian Heads</u>	Peek Eagle	Aluminum Pedestrian Head 16-inch Pedestrian Signal Head	4302AFB SG7 Series	Approved 2-20-2013 Approved 1-27-2016	Black, Clamshell, Z Crate Visor Black, Clamshell, Egg Crate Visor
614	<u>Pedestrian Indications</u>	GE Dialight Duralight Leotek	GTX City LED Countdown Ped Signal 16 X 18-in Uniform Appearance Countdown Signal JXM - 300/400VIE Series Countdown CIL, CD Series Countdown Signal	PS7-CFF1-VLA 430-6479-001X JXM-400VEIL TSL-PED-16-CIL-P1	Approved 2-20-2013 Updated 1-27-2016 Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	
Brackets						
616	<u>Mast Arm Brackets</u>	Pelco Pelco	Astrobrac Stellar Astrobrac Stellar	AS-3009-62-SS-PNC AS-3009-84-SS-PNC	Approved 2-20-2013 Approved 2-20-2013	
616	<u>Mast Arm Clamps</u>	Pelco	Astrobrac Stellar	AS-3010-PNC	Approved 2-20-2013	Tenon Mount
616	<u>Horizontal Sign Clamps</u>	Pelco	Astrobrac Stellar	AS-0144-CTC-62"-SS-PNC or AS-0144-CTC-84"-SS-PNC	Approved 2-20-2013	Overhead street name sign
616	<u>Vertical Sign Clamps</u>	Pelco	Astrobrac Stellar	AS-0142-CTC-62"-SS-PNC or AS-0142-CTC-84"-SS-PNC	Approved 2-20-2013	All 12X12 to 36X36 mast arm mounted signs



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Detection						
604	<u>Loop Detectors</u>	Reno A&E Reno A&E	Shelf Mounted Detector Rack Mounted Detector	T-110 Series 222S Series	Approved 2-20-2013 Approved 2-20-2013	
604	<u>Loop Wire</u>	Reno A&E	LW-116-S	381-1601-01	Approved 2-20-2013	Single Conductor, Double Jacketed Loop Wire
604	<u>Loop Lead-In Cable</u>	Reno A&E	LW-216-HD	380-0202-03	Approved 2-20-2013	Two Conductor, Double Jacketed Lead-In Cable
SPECIAL	<u>Radar Detection Systems</u>	Wavetronix	Smart Sensor Matrix	SS-225	Approved 1-27-2016	
620	<u>Video Detection Systems for 332 & 336 Cabinets</u>	TrafficCon PEEK Econolite Econolite Iteris	VIP 3.2 VideoTrac IQ Autoscope Autoscope Vantage Edge 2	With FLIR FC-317-T2, FC-324-T2, FC-332-T2, and FC-344-T2 cameras ITS Encore RackVision Terra Vantage Edge 2N	Revised 12-4-2013, Updated 1-25-2017 Approved 2-20-2013 Approved 2-20-2013 Updated 1-27-2016 Approved 10-1-2014 Approved 1-28-15	Trafficcon may only be used when providing thermal video detection systems
620	<u>Video Detection Systems for NEMA Cabinets</u>	PEEK Econolite Econolite	Video Track IQ Autoscope Autoscope	 Encore AVISIONSYS	Approved 2-20-2013 Approved 2-20-2013 Updated 1-27-2016 Approved 1/16/2020	Autoscope Vision Camera Vehicle Detection System
620	<u>Video Cameras</u>	RDP SEC Peek Econolite FLIR Iteris	CCD Camera VideoTrak - IQ Encore FC Series Advanced	TC650ZD65 #82 - 1773 AENCOREH FC-324-T, FC-334-T, FC-348-T RZ-4	Revised 12-4-2013 Approved 2-20-2013 Revised 12-4-2013 Approved 12-4-2013 Updated 1-27-2016 Approved 1-28-15	Trafficcon VIP 3.2 Video System - only used for replacements, not on new installs VideoTrak - IQ Video Detection System Autoscope Encore (Soloterra replacement) Video Detection System Thermal cameras are to be paired with Trafficcon video detection or Econolite Rack Vision only
620	<u>Video Detection System</u>	Iteris	Vantage Vector-Next	Vantage Next Camera Vantage Next Platform Vantage Next Shelfmount Platform	Approved 1-25-2022	Part # 4020120-01, This is an upgraded version of current item.
620	<u>Video System Input/Output Module</u>	Iteris	Vantage Input/Output Module	Edge2-I032	Approved 1-28-15	
620	<u>Video Detection System</u>	ITS Plus, Inc	ITS Plus Vehicle Detection System	Broach Bilt Manufacturing, Inc.	Approved 7-27-2022	This item will be used for repair or replacement of legacy equipment, not new installations.
620	<u>Video Cable</u>	Isotech, Inc. Beldon Beldon Beldon Falcon Fine Wire Isotech, Inc.	18-5C/RG 59 - U Coax, Pwr, Zoom, Focus 5-18 AWG RG-59/U Coax, Pwr, Zoom, Focus Peek Coax Video Cable 2-Wire Power Cable 16/3 Soloterra 20 AWG Solid BC	X341667 - 00 YR520423 010 BLK 8281 3088A 970316TS I59TFCC-00	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 1-28-2015 Approved 1-28-2015	Trafficcon VIP Video System Trafficcon VIP 3.2 Video System Peek VideoTrak IQ Peek VideoTrak IQ Autoscope Soloterra Video System FLIR Video System
620	<u>Video Filters</u>	EDCO EDCO		CX06-BNCY CX06-M	Approved 2-20-2013 Approved 2-20-2013	
SPECIAL	<u>Single Camera Video Detection System</u>	Aldis Corporation	GridSmart	GS-3-CAM, GS-3-CPV2, and GS-3CPH2	Approved 7-27-2016	
SPECIAL	<u>Wireless Detection Systems</u>	Sensys Networks	Wireless Vehicle Detection	TrafficDot 1.8.3.2	Approved 2-20-2013	
Wireless Communication						
622	<u>Access Point Modules (AP)</u>	Motorola	Canopy AP Advantage 5.7 GHz	5751APBC	Approved 2-20-2013	With AES
622	<u>Subscriber Modules (SM)</u>	Motorola	Canopy SM Advantage 5.7 GHz	SM5751	Approved 2-20-2013	With AES and P9 hardware or better
622	<u>AP and SM Power Supplies</u>		P/N ACPSSW-13B	PSA 15A-295(MOT)	Approved 2-20-2013	



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622	<u>Wireless Point to Point Modules (PTP)</u>	Motorola	Canopy 400, 500, 600 series	PTP52500DU, #WB2855	Approved 2-20-2013	with AES
622	<u>PTP Power Supplies</u>	Motorola Motorola	Canopy 300, 500, 600 series Canopy 400 series	WB2356 WB2521	Approved 2-20-2013 Approved 2-20-2013	
622	<u>Passive Dishes</u>	Motorola	Canopy PMP LENS Antenna	AN500	Approved 2-20-2013	
622	<u>Switches</u>	Etherwan Etherwan Etherwan Kyland GDI Communications, LLC Dymec	Sicom 170 Rack Mounted Switch 3170 Series	EX71800 EX 96008 EtherTRAX9808 Sicom3170-2GX-GE-7T Ky-3170EM4	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 7-16-2020	With UP0351E-12P 60L Power Supply With UP0351E-12P 60L Power Supply With UP0351E-12P 60L Power Supply DC 24V Input Power 6 X 4 Port, Managed, Gigabit Ethernet Switch - Low power
622	<u>Modems</u>	GDI Communications, LLC GDI Communications, LLC GDI or DCB GDI Communications, LLC	FSK Modems Modem Rack Etherpoll GDI Series 170-Etherport	400, 400SA, 496, and 496SA R400-10 EPL1 Model 170-Etherport	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013	Internal
622	<u>PTZ Cameras</u>	Axis WTI	PTZ Network Dome Camera Sidewinder	Q6032-E SW720-H.264-HD30	Approved 7-17-2013 Approved 7-27-2016	High-Speed Dome Camera with Progressive Scan and 35X Zoom Conditionally approved pending the development of a full CCTV specification.
622	<u>PTZ Cameras System</u>	Viper	Viper Camera	Viper PTZ Camera	Approved 1-25-2022	Part # VS265-HD30L Camera only
622	<u>Cable</u>	Belden Superior Essex Superior Essex	Cat 5E 4-pair\24 AWG CASPIC-F, Cat 5E 6-pair\24 AWG CASPIC-F, Cat 5E 12-pair\24 AWG	7923A or 1300A (shielded) 04-092-94 04-094-94	Approved 2-20-2013 Approved 7-17-2013 Approved 7-17-2013	
622	<u>Universal Mount</u>	Motorola	Mounting Bracket	SMMB-1A	Approved 2-20-2013	Universal
622	<u>WWV</u>	McCain/Traffictec	170-GPS Time Source, Stand Alone	M34537	Approved 2-20-2013	With Cable
Battery Backup						
623	<u>Systems</u>	Tesco Controls	Traffic 22 BBS	22-46BBS	Approved 2-20-2013	1400VA/950 Watt Unit with Generator Connection option, Include Web SNMP Card
		Alpha Tehcnologies	Stand Alone System 170 Cabinet	017-230-23	Approved 2-20-2013	FXM1100 UPS with SNMP card, 1100 W/VA
		Alpha Tehcnologies	Stand Alone System 170 Cabinet	026-053-24	Approved 2-20-2013	AOES6 enclosure with gen option, UATS, BP, BCK, LRI, AG
		Alpha Tehcnologies	Stand Alone System 170 Cabinet	181-230-10	Approved 2-20-2013	4 - Alphacell 195GXL Premium Gel Battery, 12v, 100ah top terminal, 4 yr. warranty
		Alpha Tehcnologies	Side Mount System NEMA Cabinet	017-230-23	Approved 2-20-2013	FXM1100 UPS with SNMP card, 1100 W/VA
		Alpha Tehcnologies	Side Mount System NEMA Cabinet	020-165-21	Approved 2-20-2013	UATS, Automatic Transfer Switch
		Alpha Tehcnologies	Side Mount System NEMA Cabinet	740-756-21	Approved 2-20-2013	UATS, Wall Mount Kit
		Alpha Tehcnologies	Side Mount System NEMA Cabinet	740-628-27	Approved 2-20-2013	Battery Harness Kit
		Alpha Tehcnologies	Side Mount System NEMA Cabinet	012-306-21	Approved 2-20-2013	Alphaguard Battery Change Management System
		Alpha Tehcnologies	Side Mount System NEMA Cabinet	033-078-25	Approved 2-20-2013	BSM-4, Side Mount Enclosure
		Alpha Tehcnologies	Side Mount System NEMA Cabinet	181-230-10	Approved 2-20-2013	4 - Alphacell 195GXL Premium Gel Battery, 12v, 100ah top terminal, 4 yr. warranty
623	<u>UPS Battery Backup System</u>	Econolite	ZincBlue2 UPS	ZincBlue2	Approved 01-16-2020	ZincFive UPS Battery Backup System
SIGN FLASHERS						
School Flashers						
<i>All School Flashers</i>						
SP	<u>CPR</u>	RTC Manufacturing	CPR Pager Programmable Time Switch	CPR 2102 R	Approved 2-20-2013 - Part # Updated 7-27-2015	
SP	<u>Pole Mount Confirmation Light</u>	Pelco	Confirmation Light Assembly with Globe	SM-0284-CL-PNC	Approved 2-20-2013	For 4" Pole Mounted Confirmation Lights (6' Cable Required)



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		Pelco	Mounting Hub 1-1/2" NPS, 4-1/2" OD Pole	SE-0384-PNC	Approved 2-20-2013	For 4" Pole Mounted Confirmation Lights
SP	<u>Pole Mount Confirmation Light Bulbs</u>	The LED Light	12V LED Light Bulb	MR-PL-DC 12 Volt DC	Approved 12-4-2013	5000 K Daylight White, 12 Volt, 4 Watt
SP	<u>Signal Head Mount</u>	Pelco	Astro-Brac Stellar Clamp Kit Cable Mount	AS-3009-62-PNC	Approved 2-20-2013	Mounting Signal Heads to a 4" Pole
SP	<u>Bases</u>	Pelco	Octagonal Base Assembly Aluminum	PB-5349-GL-PNC	Approved 2-20-2013	For All 4" Poles
SP	<u>Pedestal Poles</u>	Pelco	4" Schedule 40 Spun Aluminum	PB-5100-13'-PNC	Approved 2-20-2013	For School Signal Flasher Poles
SP	<u>Pole & Base Collars</u>	Pelco	4" Pole & Base Collar	PB-5326-PNC	Approved 2-20-2013	For All 4" Poles
SP	<u>School Sign Mounting Hardware</u>	Pelco	U-Bolt Sign Clamp Assembly	SH-0206-4-PNC	Approved 2-20-2013	For 4" Pole Mounted Signs
SP	<u>Pedestal Pole Caps</u>	Pelco	4" Dome Type Aluminum	PB-5402-PNC	Approved 2-20-2013	For All 4" Poles, Drill Cap for Antenna Mount
School Flashers 120 Volt Equipment						
SP	<u>Flasher Cabinet and Equipment</u>	RTC Manufacturing	AC Powered Flasher Assembly	502507T Panel	Approved 2-20-2013	Cabinet Furnished with Wood Pole Banding Mount
	<u>School Zone Flasher Pole Setup- AC</u>	RTC Manufacturing	CPR Antenna 15' Minimum	503525A	Revised 12-4-2013	
		RTC Manufacturing	Guardian Series Guard, Guard1, Guard2, Guard	Guardian Series School Clock Guard 1, Guard 2, Guard AC	Approved 01-16-2020	Guardian Series Guard, Guard1, Guard2, GuardAC1
		Pelco	U-Bolt Sign Clamp Assembly	SH-0206-4-PNC	Approved 2-20-2013	For Cabinet Installation on a 4" Aluminum Pole
		Pelco	Mounting Hub 1-1/2"	SE-0384-PNC	Approved 2-20-2013	For Attaching 1-1/2 LB Fitting to a 4" Aluminum Pole
		Pelco	All Thread Nipple 1-1/2" Aluminum	SE-0309-02.13-PNC	Approved 2-20-2013	For Attaching 1-1/2 LB Fitting to a 4" Aluminum Pole
	<u>School Zone Flasher Pole Setup- AC</u>	Carmanah	Solar Powered/AC School zone Flashing Beacon	R829-G	approved 01-16-2020	
School Flashers Solar Equipment						
SP	<u>Flasher Cabinet and Equipment</u>	RTC Manufacturing	Solar Powered Flasher Assembly	502598SW	Approved 2-20-2013	Cabinet Furnished with 2 - 4" Pole Mounts
		RTC Manufacturing	CPR Antenna 900 MHz Minimum 18'	503525A	Approved 2-20-2013	
		RTC Manufacturing	Antenna Bracket	500335E	Approved 2-20-2013	
		RTC Manufacturing	Battery Hook-Up Kit	501242	Approved 2-20-2013	
	<u>School Zone Flasher Pole Setup- SOLAR</u>	RTC Manufacturing	Guardian Series Guard, Guard1, Guard2, Guard	Guardian Series School Clock Guard 1, Guard 2, Guard AC	Approved 01-16-2020	Guardian Series Guard, Guard1, Guard2, GuardAC1
	<u>School Zone Flasher Pole Setup - SOAR</u>	Carmanah	Solar Powered/AC School zone Flashing Beacon	R829-G	approved 01-16-2020	
		Deka Gel Solar	Photovoltaic Battery 12V 97Ah C/20	8G30H	Approved 2-20-2013	
SP	<u>Solar Panel and Equipment</u>	Industrial Solar	40 Watt, 17.2 Volt, 2.32 Amps	Industrial Solar #IS-40J (RTC#503405CE)	Approved 2-20-2013	
		RTC Manufacturing	Solar Panel Wiring Kit	5045805A	Approved 2-20-2013	
		RTC Manufacturing	4" Top of Pole Solar Panel Mount			
School Clock Timer Controllers						
	<u>School Clock Timer</u>	RTC Manufacturing	AP22 Timer Switch	AP22 Time Switch	Approved 01-16-2020	School clock timer unit
SP	<u>12 Volt Vehicle Ball Indications</u>	Leotek	IL3 Series RED	TSL-12R-LX-IL3-B1	Approved 2-20-2013	12 Volt Solar Locations Only
		Leotek	IL3 Series YELLOW	TSL-12Y-LX-IL3-B1	Approved 2-20-2013	12 Volt Solar Locations Only
Sign Flashing Beacons						
629	<u>Flashing Beacons</u>	Carmanah	24-Hour Solar Beacon	R247-E Series	Approved 1-27-2016	
629	<u>Flashing Beacon</u>	Carmanah Traffic	RRFB Flashing Beacon	SC315-G	Approved 7-16-2020	Rectangular Rapid Flashing Beacon



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RRFBs						
SP	<u>Rectangular Rapid Flashing Beacons</u>	Carmanah	Solar Beacon with and without PB Activation	R920 Series	Approved 1-27-2016	
629	<u>Rectangular Rapid Flashing Beacons</u>	TAPCO	Solar Beacon, PB Activation	RRFB	Approved 1/20/2021	Must use a long life battery similar to Sealed Lead Acid (SLA). The control and battery box must be mounted high on the pole.
LIGHTING						
Highway Lighting						
621	<u>Transformer Bases</u>	Pelco	Breakaway Transformer Base	TB1-17 Aluminum	Approved 1-27-2016	
621	<u>Transformer Base Bonding Connection</u>	Bussman	Terminal Lug	LUG1-2, 2-Pole #6-300MCM CU/AL	Approved 1-27-2016	
621	<u>Transformer Base Wire Connectors</u>		Split-Bolts	#10/250MCM CU/AL	Approved 1-27-2016	
621	<u>Transformer Base Crimp Style Connectors</u>		Butt-Splice	#4 CU/AL	Approved 1-27-2016	
SPECIAL	<u>Transformer Base Theft Deterrent System</u>	Pelco	Copper Safe System	All sizes doors and wire clamps	Approved 7-27-2016	
621	<u>Lighting Controller Parts</u>	Intermatic Intermatic Square D Cutler Hammer Bussman Hoffman General Electric	Photocells Photocell Base Industrial Controller Transformer Definite Purpose Contactor, 60 Amp Fuse Holder Fuses NEMA Type 3R Enclosure Fused Disconnect	LC4536C K122 9070T50D1 FL 60 3-Pole C25FN360A H60030-2PR FRS-R-50 & 60-Amp 600-Volt A18R186NK 600-Volt 60-Amp 3-Pole 3-Wire TH3362R	Approved 1-27-2016 Approved 1-27-2016 Approved 1-27-2016 Approved 1-27-2016 Approved 2-20-2013 Updated 1-27-2016 Approved 1-27-2016 Approved 1-27-2016 Approved 1-27-2016	
621	<u>Fixtures - HPS</u>	General Electric General Electric Holophane Holophane	Cobra Head - 200W, 480V HPS Cobra Head - 400W, 480V HPS Mongoose - 250W, 480V, HPS Mongoose - 400W, 480V, HPS	GEM2RR20S5A1GMS2 GEM4AR40S5A1GMS31 G250HP48LCHGP G400HP48LNCHBP	Approved 2-20-2013 Approved 2-20-2013 Approved 2-20-2013 Approved 1-27-2016	Low Tilt Clear Drop Glass Low Tilt Clear Drop Glass
621	<u>Fixtures - LED</u>	Holophane Holophane Holophane Holophane Cooper Streetworks	Cobra Head Mongoose High-Mast Replacement Fixtures Underpass Replacement Fixtures Underpass Luminaire	Autobahn LED Series Mongoose LED Series 12-LED, HMLED 12 5K AH H M PCL4 P7 Tunnel Pass LED Series GAW Galleon Wall Light	Approved 1-27-2016 Approved 1-27-2016 Approved 1-27-2016 Approved 1-27-2016 Approved 07/14/2021	
621	<u>Lamps - HPS</u>	Phillips Phillips Sylvania	200W HPS 400W HPS 250W HPS	Clear C200S66/ALTO Clear C400S51/ALTO Clear LU250/ECO	Approved 2-20-2013 Updated 1-27-2016 Approved 2-20-2013 Updated 1-27-2016 Approved 2-20-2013 Updated 1-27-2016	
621	<u>Lamps - Metal Halide</u>	Phillips	1000W MH	Clear 41522-4	Approved 2-20-2013	
621	<u>Receptacles</u>	Holophane	7-pin receptacle	P7	Approved 1-27-2016	
621	<u>Fuse Parts</u>	Buss Buss	5A, 10A, 15A, 20A, & 30A In-line fuses In-line fuse holder Y-Connectors	KTK Fuses BUSS HEB - JJB BUSS HEB - JW - RYC Fuseholders	Approved 1-27-2016 Approved 1-27-2016 Approved 1-27-2016	
Luminaire Lighting						
621	<u>Luminaire lighting</u>	COOPER StreetWorks	NVN NAVION	NVN-NF-06-E-8-AP-4N7-ALJS25-AP	Approved 1/20/2021	sstrworks-nvn-navion-spec-H8-39L



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621	<u>Luminaire lighting</u>	COOPER StreetWorks	NVN NAVION	NVN-NF-4B-740-U-SL2	Approved 1/20/2021	strworks-nvn-navion-spec-H7-154W
621	<u>Luminaire lighting</u>	COOPER StreetWorks	VERD-M	VERDM04EU8T4N710KAP-LLPC	Approved 1/20/2021	strworks-verdeon-m-spec-H6
621	<u>Luminaire lighting</u>	COOPER StreetWorks	VERD-M	VERDGC02DUT44N710KAP-LLPC	Approved 1/20/2021	strworks-verdeon-m-spec-H5