



City of Overland Park

Public Works Department

Traffic Services Division

Approved Materials List

Table of Contents

[Fiber Optic Approved Materials List](#)

[ITS Approved Materials List](#)

[Pavement Marking Approved Materials List](#)

[Signing Approved Materials List](#)

[Specialty Items Approved Materials List](#)

[Street Lighting Approved Materials List](#)

[Traffic Control Approved Materials List](#)

[Traffic Signal Approved Materials List](#)

NOTE: This document is provided as a benefit to contractors and suppliers who are bidding projects for the City of Overland Park. 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 Overland Park Contract Project Submittal form. The form is available at City Hall by contacting Bruce Wacker at (913) 895-6027. 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 Overland Park 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

[Cables](#)
[Conduit and Couplings](#)
[Ethernet Switches](#)

[Locating Materials](#)
[Encoders](#)
[Service Boxes](#)

[Splice Enclosures](#)
[Termination Drop Cables](#)
[Terminal Servers](#)

Cables

[Back to Fiber Optic System Table of Contents](#)

[Back to Main](#)

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	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	
	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	
	Draka Comteq	ASFLTS1JKT144 – 144 Count ASFLTS1JKT072 – 72 Count ASFLTS1JKT036 – 36 Count ASFLTS1JKT012 – 12 Count ASFLTS1JKT006 – 6 Count	11/17/06	
	Mohawk	M9X509 – 144 Count M9X507 – 72 Count M9X502 – 36 Count M9X511 – 12 Count M9X510 – 6 Count	11/3/05	
	Superior Essex	111443101 – 144 Count 110723101 – 72 Count 110363T01 – 36 Count 110123T01 – 12 Count 110063101 – 6 Count	4/22/05	

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	Single Mode Fiber

Fiber Optic Riser Cable	Manufacturer	Catalog Number	Approval Date	Comments
	Chromatic Technologies	400T12-72-010X – 72 Count	10/21/02	Single Mode Fiber

Fiber Optic Patch Cable	Manufacturer	Catalog Number	Approval Date	Comments
	ICC	ICFOJ3M302	7/15/08	ST-LC connectors, 6' duplex, single mode

#10 AWG System Tracer Wire	Manufacturer	Catalog Number	Approval Date	Comments
	Cerowire Wire & Cable Co., Inc.	UL file # E15119	5/5/03	Stranded copper #10 AWG THHN 600 volt
	Encore Wire LTD	UL file # E123774	8/1/03	
	Essex Group, Inc.	Product Number 070101 UL File # E14656	2/1/01	
CLOSED 9/03	Rome	2020 UL file #13662	5/5/03	
	Senator / Southwire	Red – 22-97-57 Black – 22-97-32 UL file # E23919	5/5/03	
	Service Wire	UL file # E105667	5/7/02	

Category 5 Cable	Manufacturer	Catalog Number	Approval Date	Comments
	Mohawk	M56871 LAN-Trak OSP	11/7/05	4 Pair 24 AWG Outdoor Duct

Conduit and Couplings

[Back to Fiber Optic System Table of Contents](#)

[Back to Main](#)

HDPE Conduit	Manufacturer	Catalog Number	Approval Date	Comments
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Merged with Dura-Line by Audax Group	ARNCO	Perma-Guard 3" – SW 400 300 N033 2" – SW 400 200 N033	8/2/01	2" or 3" Schedule 40 as indicated in plans Orange color Smooth solid wall UV Stabilized
	Carlton	3" – A15C4N1JNNA 2" – A13C4N1JNNA	11/3/04	
Merged with ARNCO by Audax Group	Dura-Line	Smoothwall 3" – 3038-11330-0000000 2" – 2038-11330-0000000	1/11/01	

HDPE Couplings	Manufacturer	Catalog Number	Approval Date	Comments
	Cabletec	AS 3.500 – 3"	8/2/01	2" couplings are a sole source product 3" couplings are multi-source products
	Central Plastics Company	Electrofusion Couplings 3" IPS 575-0043 2" IPS 575-0042	5/5/06	
	Dura-line	E-Loc Couplings 3" – 06-200-3500 Comfit Couplings 2" – 02-130-2375	1/11/01	
	Tyco Electronics / Jackmoon	Moon-Link Transparent Duct Coupling 3" – 30TC350SP	12/23/02	
	P.N.A.	E-LOC 3" – ELOC3006	1/11/01	
	Unitex	Pro-Poly CA Adhesive	1/9/06	

Expansion Couplings	Manufacturer	Catalog Number	Approval Date	Comments
	Cantex	1" – 5144033 1 ½" – 5144035 2" – 5144036 3" – 5144038 4" – 5144040	5/5/03	
	Carlton	1" – E945F 1 ½" – E945H 2" – E945J 3" – E945L 4" – E945N	5/5/03	

Repair Couplings	Manufacturer	Catalog Number	Approval Date	Comments
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	Carlton	Split Duct Coupling 2" – 49011SD-010 2 ½" – 49012SD-010 3" – 49013SD-010 3 ½" – 49014SD-010 4" – 49015SD-010	8/11/06	Used to repair damaged fiber optic conduit when not feasible to remove fiber cable and re-splice
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Ethernet Switches

[Back to Fiber Optic System Table of Contents](#)

[Back to Main](#)

Ethernet Switch	Manufacturer	Catalog Number	Approval Date	Comments
	Cisco Systems, Inc	Catalyst WS-C2955S-12 AC Power Converter PWR-AC-2955 19" Rack Mount Kit STK-RACKMNT-2955 Patch Cables (ST-LC connectors)	5/7/08	Hardened Ethernet Switch w/ DIN Rail Adapter 12 10/100 Ports AC Power Converter 19" Rack Mount Kit Two, 6' Long Duplex Single Mode Fiber patch cables (ST-LC connectors)

Locating Materials

[Back to Fiber Optic System Table of Contents](#)

[Back to Main](#)

Tracer Cable	Manufacturer	Catalog Number	Approval Date	Comments
	Cerro Wire & Cable Co, Inc.	UL file # E15119	5/5/03	Stranded copper THHN/THWN #10 AWG
	Encore Wire LTD	UL file # E123774	8/1/03	
	Essex	Product Number 070061 UL file # E14656	8/21/03	
	Rome Cable Corp	2020 UL file # E13662	5/5/03	
	Senator / Southwire	10-63-85 UL file # E23919	5/5/03	
	Service Wire Co	UL file # E105667	5/7/02	

Ground Rods	Manufacturer	Catalog Number	Approval Date	Comments
	Erico Inc. / Eritech	Cat. No. 611380	2/27/02	½" x 8'-0" long Copper clad steel core UL listed
	ITTBlackburn	Cat. No. 5008	5/5/03	
	Joslyn	Cat. No. J-8328	5/5/03	

Ground Rod Clamp	Manufacturer	Catalog Number	Approval Date	Comments
	Burndy	GRC 12	2/27/02	Hex head set screw

	Erico Inc. / Eritech	Part No. HDC12 – ½” rod Part No. HDC34 – ¾” rod	12/1/05	Copper alloy Long bearing surface UL listed
	ITT Blackburn	Type JAB-12H	5/5/03	

Conduit Markers	Manufacturer	Catalog Number	Approval Date	Comments
	Carsonite	PGPM106604	10/23/01	66” long x 2 ½” min wide Orange in color City provides identification stickers
	J. Miller Industries	JMI-250-066-OR	10/23/01	

Encoders

[Back to Fiber Optic System Table of Contents](#)

[Back to Main](#)

Ethernet Video Encoders	Manufacturer	Catalog Number	Approval Date	Comments
	Verint Nextiva	S1970e-T-XT	7/12/07	

Service Boxes

[Back to Fiber Optic System Table of Contents](#)

[Back to Main](#)

Type I Fiber Optic Service Box	Manufacturer	Catalog Number	Approval Date	Comments
	Armorcast	A6001974TAPCX24 (24”x36”x24”)	7/30/01	Logo to read “Fiber Optics” Cover to be 3” thick Hex head bolts
	Carson Industries	H2436-24 – Box only H2436-P1 – Cover only	6/29/04	
	CDR	SB33-2436-24 – Box only SC30-2436-03 – Cover only SA33-2436-24 – Assembly	8/8/03	
	New Basis	PCB243624A04 – Box only PCC243605A04 – Cover only	2/26/02	
	Quazite	PG2436BA24 – Box only PG2436CA0021 – Cover only	5/05/03	
	Synertech	S2436B24AA – Box only S2436HCB0A04 – Cover / 1002 bolts	12/22/05	

Type II Fiber Optic Service Box	Manufacturer	Catalog Number	Approval Date	Comments
	Armorcast	A6001430TAPCX24 (30”x 48”x 24”)	7/30/01	Logo to read “Fiber Optics” Cover to be 3” thick two-piece underlapping Hex head bolts
	Carson Industries	H3048-24 – Box only H3048-P1 – Cover only	6/29/04	
	CDR	SB33-3048-24W – Box only SC30-3048-23W – Cover only SA33-3048-24W – Assembly	8/8/03	

	New Basis	PCB304824A04 – Box only PCC304815A04 – Cover only	2/26/02	
	Quazite	PG3048BA24 – Box only PG3048CC0046 – Cover only	5/5/03	
	Synertech	S3048B24AA – Box only S3048HCB0A04 – Cover / 1002 bolts	12/22/05	

Splice Enclosures

[Back to Fiber Optic System Table of Contents](#)

[Back to Main](#)

Splice Enclosures	Manufacturer	Catalog Number	Approval Date	Comments
	Corning Cable Systems	SCF-6C – Single end cap SCF-6T – Double end cap	7/26/05	Bell Type Enclosures
	Tyco Electronics Corporation	FOSC 450	10/12/05	
	Windsor Communications	570-22-AD	10/12/05	

Termination Drop Cables

[Back to Fiber Optic System Table of Contents](#)

[Back to Main](#)

Patch ITS Drop Cable	Manufacturer	Catalog Number	Approval Date	Comments
	Fiber Connections, Inc.	Gator Patch 6 Fiber – GM2G006FR-Length 12 Fiber – GP2G012FR-Length	1/10/06	6 or 12-Fiber – Single mode 6 or 12 port rack mount for ST connectors
	Major Custom Cable	Z-Stack 6 Fiber – FCZS6ASTUB 12 Fiber – FCZS12ASTUB	3/23/09	

Terminal Servers

[Back to Fiber Optic System Table of Contents](#)

[Back to Main](#)

Terminal Server	Manufacturer	Catalog Number	Approval Date	Comments
	Comtrol Network Enabling Devices	DeviceMaster RTS 1-Port Part Number 99000-0	9/1/05	Single Port Supply with 6' CAT 5e Network Patch Cable

ITS Approved Materials List

[Cable](#)
[CCTV Cameras](#)
[CCTV Camera Mounting Bracket](#)
[Conduit](#)
[DMS Structures](#)
[Digital Message Signs](#)

Cable

[Back to ITS Table of Contents](#)
[Back to Main](#)

DMS Control Cable	Manufacturer	Catalog Number	Approval Date	Comments
Owned by Belden	Manhattan Wire Products / Belden	M3992 for RS-485 Cable	11/15/05	24 AWG 4 pair communication cable shielded
DMS Power Cable	Manufacturer	Catalog Number	Approval Date	Comments
	Southwire	UL E32071 S	11/15/05	Type USE-2 or RHH or RHW-2 600 Volt

CCTV Cameras

[Back to ITS Table of Contents](#)
[Back to Main](#)

CCTV Camera	Manufacturer	Catalog Number	Approval Date	Comments
	PELCO	SD53CBW-PG-E1 - Spectra III Camera/Housing Model No. IWM24-GY Arm PA402 Round Pole Adapter	7/2/03	Environmental pendant Nema Type 4X Dome High-resolution Color/Black&White PTZ camera 23X optical zoom data port for in-field software upgrades 15" Mounting bracket arm with built-in 24 VAC transformer

CCTV Camera Mounting Brackets

[Back to ITS Table of Contents](#)
[Back to Main](#)

CCTV Camera Mounting Bracket for Signal Pole	Manufacturer	Catalog Number	Approval Date	Comments
	Pelco Products, Inc.	PA402	6/30/03	

Conduit

[Back to ITS Table of Contents](#)
[Back to Main](#)

Flexible Conduit	Manufacturer	Catalog Number	Approval Date	Comments
	Electri-Flex Co.	Liquatite NM-13	11/15/05	1" Flexible Non-Metallic Liquid Tight Conduit

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Digital Message Signs

[Back to ITS Table of Contents](#)

[Back to Main](#)

Digital Message Signs	Manufacturer	Catalog Number	Approval Date	Comments
	Skyline Products, Inc.	VMSLED-L-3-08F-28x110-I	4/26/05	

DMS Structures

[Back to ITS Table of Contents](#)

[Back to Main](#)

DMS Structures	Manufacturer	Catalog Number	Approval Date	Comments
	Steve Johnson Companies	Job Number 7061* *Job number will change with every project #7061 135th St Widening/US 69 NB Ramp #8029 135th St Widening #8045 119th St Corridor #8588 Antioch Road 151st to 167th	10/14/05	

Pavement Marking Approved Materials List

[Cold Plastic
Epoxy Markings](#)

[Glass Beads
Methyl Methacrylate Markings](#)

[Preformed Thermoplastic
Thermoplastic](#)

[Waterborne Paint](#)

Cold Plastic

[Back to Pavement Marking Table of Contents](#)

[Back to Main](#)

Temporary Cold Plastic Markings	Manufacturer	Catalog Number	Approval Date	Comments
	3-M Company	Stamark Intersection Grade Tape A 420 – White SMS-L420-LA – Left Arrow SMS-L420-RA – Right Arrow SMS-L420-SA – Straight Arrow SMS-L420-ON – “ONLY”	5/5/03	

Durable Pre-Formed, Patterned Cold Plastic	Manufacturer	Catalog Number	Approval Date	Comments
	3-M Company	Stamark Intersection Grade Tape A380I ES – White A381I ES - Yellow SMS-L380I ES-LA – Left Arrow SMS-L380I ES-RA – Right Arrow SMS-L380I ES-SA – Straight Arrow SMS-L380I ES-ON – “ONLY”	5/7/08	

Epoxy Markings

[Back to Pavement Marking Table of Contents](#)

[Back to Main](#)

Epoxy Markings	Manufacturer	Catalog Number	Approval Date	Comments
	Poly-Carb, Inc.	MARK-55.2 Part A (White) MARK-55.2 Part A (Yellow) MARK-55.2 Part B	2/6/06	

Glass Beads

[Back to Pavement Marking Table of Contents](#)

[Back to Main](#)

Glass Beads	Manufacturer	Catalog Number	Approval Date	Comments
	Flex-O-Lite			AASHTO M-247-81 Type 1 KS
	Potters Industries	VISIBead	5/5/03	FP96T4 KS

	Swarco Reflex Inc.	Swarco Reflex Glass Beads (Type I KS) Megalux Glass Beads (FP96T4 KS)	2/6/06	
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Methyl Methacrylate Markings

[Back to Pavement Marking Table of Contents](#)

[Back to Main](#)

Methyl Methacrylate Markings	Manufacturer	Catalog Number	Approval Date	Comments
	Ennis Paint	Duraset 1/1P	2/6/06	

Preformed Thermoplastic

[Back to Pavement Marking Table of Contents](#)

[Back to Main](#)

Preformed Thermoplastic Markings	Manufacturer	Catalog Number	Approval Date	Comments
	Ennis Paint	<u>Flame Tape – 90 mil</u> 6” White – R90-06W 12” White – R90-12W 24” White – R90-24W 12” Yellow – R90-12Y Resversible Curve Arrow – RCA-09080W Curved Left Arrow – CAL-09040W Curved Right Arrow – CAR-09040W Comb. Straight/Right Arrow – COMAR 0901275W Reversible Comb. Straight/Curved Arrow – RCOMA-0901275W Straight Arrow – SA-09095W ONLY – OY-908W	6/5/02	

	Flint Trading	<u>PreMark 2020 Flex – 90 mil</u> 6” White – 89432061 12” White – 89431064 24” White – 89430566 12” Yellow – 89431064Y Left Arrow – 89330241L Right Arrow – 89330241R Straight Arrow – 89330240 Comb. Straight/Left Arrow – 89330142L Comb. Straight/Right Arrow – 89330142R ONLY – 89130102	2/6/06	
Purchased by Flint Trading as of 3/1/06	Flint Trading / Formerly Zumar Industries, Inc.	<u>Hot Tape – 90 mil</u> 6” White – 894262 12” White – 894270 24” White – 894286 12” Yellow – 896274 Left Arrow – 894742 Right Arrow – 894746 Straight Arrow – 894898 Comb. Straight/Left Arrow – 894748 Comb. Straight/Right Arrow - 894752 ONLY - 894364	2/6/06	

Thermoplastic

[Back to Pavement Marking Table of Contents](#)

[Back to Main](#)

Thermoplastic Markings	Manufacturer	Catalog Number	Approval Date	Comments
	Ennis Paint	884034 – White 884058 – Yellow 884490 – White 885035 – Yellow	5/5/03	

Waterborne Paint

[Back to Pavement Marking Table of Contents](#)

[Back to Main](#)

Waterborne Paint Markings	Manufacturer	Catalog Number	Approval Date	Comments
	Sherwin Williams		6/15/05	

Last Revised: 4/07/09

Signing Approved Materials List

[Aluminum Sign Blanks](#)

[Illuminated Street Name Signs](#)

[Posts](#)

[Sign Sheeting](#)

[Blank-Out Signs](#)

[Mounting Brackets](#)

[School Zone Flashers](#)

[Cable for Illuminated & Blankout Signs](#)

Aluminum Sign Blanks

[Back to Permanent Signing Table of Contents](#)

[Back to Main](#)

Standard Signs	Manufacturer	Catalog Number	Approval Date	Comments
	Hall Sign			0.080" Thick 5052H38 or 6061-T6 aluminum alloy
	Lyle Sign, Inc.			
	National Sign			
	Newman			
	The Work Zone, Inc.	5052H38 aluminum		
	Vulcan Sign			

Overhead Street Name Signs	Manufacturer	Catalog Number	Approval Date	Comments
	Hall Sign			1.25" Thick 5052H38 or 6061-T6 aluminum alloy
	Lyle Sign, Inc.			
	National Sign			
	Newman			
	The Work Zone, Inc.			
	Vulcan Sign			

Blank-Out Signs

[Back to Permanent Signing Table of Contents](#)

[Back to Main](#)

R10-11 "No Turn on Red" Ball symbol	Manufacturer	Catalog Number	Approval Date	Comments
	M-Systems, Inc.	R10-11	1/12/09	30"x 36" Front Lens: Pebble Text with "Red Ball" symbol

Cable for Illuminated Street Name Signs & Blankout Signs

[Back to Permanent Signing Table of Contents](#)

[Back to Main](#)

Sign Power Cable	Manufacturer	Catalog Number	Approval Date	Comments
	Advanced Digital Cable	8103	10/23/08	1-3c#14 AWG Stranded Copper IMSA 19-1
	Falcon Fine Wire	980314X19-1	11/6/08	

Illuminated Street Name Signs

[Back to Permanent Signing Table of Contents](#)

[Back to Main](#)

Illuminated Street Name Signs	Manufacturer	Catalog Number	Approval Date	Comments
	Southern Manufacturing / Accord Industries	619S-RM-TB: 6' x 19" 819S-RM-TB: 8' x 19" 624S-RM-TB: 6' x 24" 824S-RM-TB: 8' x 24"	10/29/08	120/240-volt self sensing power supply Translucent DG ³ retroreflective sheeting Single sided face, rigid mount top and bottom Clearview Highway 5-W font

Mounting Brackets

[Back to Permanent Signing Table of Contents](#)

[Back to Main](#)

Aluminum Sign Mast Arm Brackets	Manufacturer	Catalog Number	Approval Date	Comments
	Pelco Products, Inc.	AB0142-A-L Astro Sign-Brac	5/18/05	A = Sign Height minus 6" L = Cable Length

Illuminated Street Name Sign Brackets	Manufacturer	Catalog Number	Approval Date	Comments
	Pelco Products, Inc.	AB0125-L Astro Sign-Brac	10/29/08	L = Cable Length

Wing Mounting Brackets	Manufacturer	Catalog Number	Approval Date	Comments
	Hall Signs	16 1/2" - #8 24" - #800	8/3/07	A380 Alloy
	Lyle Signs, Inc.	AL-13	8/3/07	

Round Pole Mounting	Manufacturer	Catalog Number	Approval Date	Comments
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Bracket				
	Band-It	D021	8/3/07	1-Bolt Flared Leg
	Gerrard	ST021	8/3/07	
	It Straps On, Inc.	SB021	8/3/07	
	TAPCO, Inc.	35-8	8/3/07	

Sign Banding	Manufacturer	Catalog Number	Approval Date	Comments
	Band-It	C206	8/3/07	Type 201 Stainless Steel 0.030" Thick ¾" Wide
	Gerrard	ST206	8/3/07	
	It Straps On, Inc.	BA206	8/3/07	
	TAPCO Inc.	497-1	8/3/07	

Banding Buckle	Manufacturer	Catalog Number	Approval Date	Comments
	Band-It	C256	8/3/07	Type 201 Stainless Steel Buckle For 0.030" Thick x ¾" Wide Banding
	Gerrard	ST256	8/3/07	
	It Straps On, Inc.	BU256	8/3/07	
	TAPCO, Inc.	497-2	8/3/07	

Posts

[Back to Permanent Signing Table of Contents](#)

[Back to Main](#)

1 ¾" x 1 ¾" Posts	Manufacturer	Catalog Number	Approval Date	Comments
	Unistrut Distribution Co./ Allied Mechanical Tube Division	Telespar Square Tubular Sign Supports – 16D12P12PG	5/5/03	14 Gauge Pre-punched holes on all sides Galvanized Length varies

2" x 2" Anchor	Manufacturer	Catalog Number	Approval Date	Comments
	Unistrut Distribution Co./ Allied Mechanical Tube Division	Telespar Square Tubular Sign Supports – 20P12A03PG	5/5/03	12 Gauge Pre-punched holes on all sides Galvanized 36" length

2 ¼" x 2 ¼" Sleeves	Manufacturer	Catalog Number	Approval Date	Comments
	Unistrut Distribution Co./ Allied Mechanical Tube Division	Telespar Square Tubular Sign Supports – 22P12APG	5/5/03	12 Gauge Pre-punched holes on all sides Galvanized 18" length

School Zone Flashers

[Back to Permanent Signing Table of Contents](#)

[Back to Main](#)

Time Clock	Manufacturer	Catalog Number	Approval Date	Comments

	RTC Manufacturing, Inc.	CPR III, Central PageR with CPR2102 Programmable Time Switch Model 503602-D	5/5/03	Programmable Time set for 900 MHz Overland Park frequency Includes antenna and CPC Harness
Yellow Ball LED	Manufacturer	Catalog Number	Approval Date	Comments
	GelCore	DR6-YTFB-23B	5/5/03	12-volt power requirement
	TraStar	Duralight JXC-300DCY	8/6/07	
Vehicular Signal Head	Manufacturer	Catalog Number	Approval Date	Comments
	Automatic Signal / Eagle Signal	SA101A1111YBB – 1 Section	5/5/03	
Side-of-Pole Bracket	Manufacturer	Catalog Number	Approval Date	Comments
	Gades Sales	UKS-1452Y / PDM-405	5/5/03	
Solar Panel	Manufacturer	Catalog Number	Approval Date	Comments
	RTC Manufacturing, Inc.	Solar Panel	5/5/03	80 Watt w/ mounting brackets
Solar Flasher Panel	Manufacturer	Catalog Number	Approval Date	Comments
	RTC Manufacturing, Inc.	502598TFA	5/5/03	“L” Panel
Flasher	Manufacturer	Catalog Number	Approval Date	Comments
	RTC Manufacturing, Inc.	DC2F	5/5/03	12-Volt, Solid State, w/ LED indicators DC 2-Circuit Flasher 8-Pin Octal Base
Solar Cabinet	Manufacturer	Catalog Number	Approval Date	Comments
	RTC Manufacturing, Inc.	RTC-503568	5/5/03	
Screw-In Foundation	Manufacturer	Catalog Number	Approval Date	Comments
	JH Botts	JHB660914	5/5/03	Shaft Diameter – 6” Shaft Length – 5’-0” Plate Size – 13” square x 1” Thick Bolt Circle Diameter – 9” to 14”

Round Pedestal Pole	Manufacturer	Catalog Number	Approval Date	Comments
	Gades Sales	15' Pedestal Pole	5/5/03	

Sign Sheeting

[Back to Permanent Signing Table of Contents](#)

[Back to Main](#)

Diamond Grade "Full Cube" Sheeting	Manufacturer	Catalog Number	Approval Date	Comments
	3-M	White: DG ³ Series 4090 Yellow: DG ³ Series 4091 Red: DG ³ Series 4092 Blue: DG ³ Series 4095 Green: DG ³ Series 4097 Fluorescent Yellow: DG ³ Series 4081 Fluorescent Yellow Green: DG ³ Series 4083 Orange: DG ³ Series 4084	6/23/05	Proposed ASTM Type XI For most signs (See City of Overland Park Standard Details) Series 4083 is reserved for School Zone Signing Series 4081 is reserved for special Warning Signs Series 4091 should be used for all Warning Signs unless otherwise specified

Engineer Grade Sheeting	Manufacturer	Catalog Number	Approval Date	Comments
	Avery Dennison	White: T-1500 Yellow: T-1501 Red: T-1508 Blue: T-1505 Green: T-1507 Brown: T-1509		ASTM Type I Engineer Grade Pressure Sensitive For the following signs only: <ul style="list-style-type: none"> • R5-2 • R7-1 thru R7-203 • R8-1 thru R8-7 • R10-4b
	3-M	White: EG Series 3290i Yellow: EG Series 3271i Red: EG Series 3272i Blue: EG Series 3275i Green: EG Series 3277i Brown: EG Series 3279i		

Electronic Cuttable Film	Manufacturer	Catalog Number	Approval Date	Comments
	Avery Dennison	Yellow: OL-2001 Red: OL-2008 Orange: OL-2004 Blue: OL-2005 Green: OL-2007		

	3-M	Yellow: EC Series 1170 Red: EC Series 1172 Orange: EC Series 1174 Blue: EC Series 1175 Green: EC Series 1177 Brown: EC Series 1179 Black: EC Series 1178		
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Specialty Item Approved Materials List

[Light Fixtures](#)

[Light Poles](#)

Light Fixtures

[Back to Specialty Item Table of Contents](#)

[Back to Main](#)

Antioch & I-435 Bridge Decorative Fixture	Manufacturer	Catalog Number	Approval Date	Comments
	Bega	8189P-Blk-120 w/ GE 12870 Fluorescent lamp	7/21/04	120 Volt, Black, Fluorescent lamp
110th Street & Lamar Roundabout Decorative Fixture	Manufacturer	Catalog Number	Approval Date	Comments
	Gardco Lighting	Gullwing #G18-1-2XL-400-MH-240- BLP	4/26/02	Type II Distribution, 400W MH, Black
110th & Lamar Roundabout Landscape Fixture	Manufacturer	Catalog Number	Approval Date	Comments
	Hydrel	4710A-175M-120-SP-ISSDLA-BZ	4/26/02	175W MH, Bronze
Antioch & I-435 Bicycle Tunnel Light Fixture; Indian Creek Bicycle Trail under I-435	Manufacturer	Catalog Number	Approval Date	Comments
Photometric Curve LTL16011	Holophane	W4-100HP-24-S-Z-F2	9/2/08	100W HPS, Dark Bronze, Type IV Distribution
133rd & Lamar, Vineyards and Mills Farm Roundabouts	Manufacturer	Catalog Number	Approval Date	Comments
Photometric curve PRM3-H2-150HPS.IES	Architectural Area Lighting	PRMSH3150HPS-Mogul-240MT- BLK-06A-1814 Sleeve	8/28/06	Promenade – Black Mogul base lamp and reflector system

Community Center (Downtown) Parking Lot Fixture	Manufacturer	Catalog Number	Approval Date	Comments
	Wide Lite / Genlyte Company	Optra Area Luminaire Symmetric Distribution: OPP-250-S-QV-SR-SA Asymmetric Distribution: OPP-250-A-QV-SR-SA	3/16/06	250W MH Segmented reflector with vertical lamp Multi-tap ballast Satin Aluminum finish Arm mount to round pole

95th St & Nall Ave	Manufacturer	Catalog Number	Approval Date	Comments
	KIM Lighting	1A/LET26SCH3/400HPS240/OP-HUNTER GREEN/HA33L-TM1/HF2/HAF2	1/26/09	400W HPS, 240V Top Mounted, Curved Arm, Type III Distribution Tenon Mount Ribbon Arm

Light Poles

[Back to Specialty Item Table of Contents](#)

[Back to Main](#)

110th Street & Roundabout Square Pole	Manufacturer	Catalog Number	Approval Date	Comments
	Gardco Lighting	#SSS 30-5-11-BLP	4/26/02	5" square, straight, steel - Black

Community Center (Downtown) Parking Lot Pole	Manufacturer	Catalog Number	Approval Date	Comments
	KW Industries	RSP18-4.0-11-NA-DM10-BC	3/21/06	Round Steel Satin Aluminum finish Arm mount option

Street Lighting Approved Materials List

[Breakaway Pole Devices](#)

[Conduit and Fittings](#)

[Connector Kits, Fuse Holders and Fuses](#)

[Control Centers](#)

[Electrical Cable](#)

[Grounding Equipment](#)

[Junction and Service Boxes](#)

[Lamps](#)

[Luminaires](#)

[Photocell](#)

[Poles](#)

[Screw-In Foundations](#)

[System Monitoring Devices](#)

Breakaway Pole Devices

[Back to Street Lighting Table of Contents](#)

[Back to Main](#)

Break-away Couplings and Bases	Manufacturer	Catalog Number	Approval Date	Comments
	Precision Form, Inc.	PFI-200-1A Breakaway Couplings	5/5/03	
	Akron Foundries, Inc. / Hapco	AASHTO No. TB6-9"-10 1/2" to 12 1/2" Bolt Circle Dwg # A79402 - 4/4/98 AASHTO No. TB5-9"-14 1/2" to 15 1/4" Bolt Circle Dwg # A79236 - 1/4/00	8/15/03	
	Akron Foundries, Inc. / Valmont	CS-300 - Up to 12" Bolt Circle AASHTO No. TB6-9 Dwg # KS-90 - 5/14/03 CS-370 - 14 1/2" to 15" Bolt Circle AASHTO No. TB5-9 Dwg # KS-91 w/ Rev 1	6/20/03	

Conduit and Fittings

[Back to Street Lighting Table of Contents](#)

[Back to Main](#)

PVC Conduit	Manufacturer	Catalog Number	Approval Date	Comments
	Cantex	1" - A52BA12 2" - A52CA12	5/5/03	Schedule 40 PVC
	Carlton	1" - 49008 2" - 49011	5/5/03	
	Certain Teed	1" - 27213 1 1/2" - 27413 2" - 27513 3" - 27713 4" - 27913	5/5/03	

	IPEX / PW Eagle	1" – 032410 – 10' or 032411 – 20' 2" – 032420 – 10' or 032421 – 20' 3" – 032430 – 10' or 032431 – 20' 4" – 032440 – 10' or 032441 – 20'	12/22/05	
	Rocky Mountain Colby Pipe	2" – 502010U – 10' or 502020U – 20' 3" – 503010U – 10' or 503020U – 20' 4" – 504010U – 10' or 504020U – 20'	4/7/09	

PVC Fittings	Manufacturer	Catalog Number	Approval Date	Comments
	Cantex	Standard Couplings: 1" – 6141625 2" – 6141628 90° Elbows: (Plain End / Belled End) 1" – 5133825 / 5233825 2" – 5133828 / 5233828 45° Elbows: (Plain End / Belled End) 1" – 5133765 / 5233765 2" – 5133768 / 5233768 30° Elbows: (Plain End / Belled End) 1" – 5133745 / 5233745 2" – 5133748 / 5233748	5/5/03	Schedule 40 PVC
	Carlton	Standard Couplings: 1" – E940F 2" – E940J 90° Elbows: (Plain End / Belled End) 1" – UA9AF / UA9AFB 2" – UA9AJ / UA9AJB 45° Elbows: (Plain End / Belled End) 1" – UA7AF / UA7AFB 2" – UA7AJ / UA7AJB 30° Elbows: (Plain End / Belled End) 1" – UA6AF / UA6AFB 2" – UA6AJ / UA6AJB	5/5/03	

	IPEX / PW Eagle	<p>Standard Couplings: 1" – EC20 / 077003 2" – EC35 / 077006 3" – EC45 / 077008 4" – EC55 / 077010</p> <p>90° Elbows: (Plain End / Belled End) 1" – 068582 / 068422 2" – 068585 / 068425 3" – 068587 / 068427 4" – 068589 / 068429</p> <p>45° Elbows: (Plain End / Belled End) 1" – 068602 / 068563 2" – 068605 / 068566 3" – 068607 / 068568 4" – 068609 / 068570</p> <p>30° Elbows: (Plain End / Belled End) 1" – 068622 / EE2030 2" – 068625 / EE3530 3" – 068627 / EE4530 4" – 068629 / EE5530</p>	12/22/05	
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HDPE Conduit	Manufacturer	Catalog Number	Approval Date	Comments
Merged with Dura-Line by Audax Group	ARNCO	Perma-Guard SW 400 200 N088	8/2/01	2" Schedule 40 Gray color
	Carlton	2" – A13C4NIENNA	11/3/04	Smooth solid wall
Merged with ARNCO by Audax Group	Dura-line	Smoothwall 2038-11990-000000	1/11/01	UV Stabilized

HDPE Couplings	Manufacturer	Catalog Number	Approval Date	Comments
	Cabletec	AS 3.500 – 3"	8/2/01	The 2" coupling is a sole source item. The 3" coupling is a multi-source item.
	Central Plastics Company	Electrofusion Couplings 2" IPS 575-0042	5/5/06	
	Dura-line	E-Loc Couplings 3" – 06-200-3500	1/11/01	
		Comfit Couplings 2" – 02-130-2375	1/11/01	

	Tyco Electronics / Jackmoon	Moon-Link Transparent Duct Coupling 3" – 30TC350SP 4" – 40TC450SP	12/23/02	
	P.N.A.	E-Loc Couplings 3" – ELOC3006	1/11/01	
	Unitex	Pro-Poly CA Adhesive	1/9/06	

Connector Kits, Fuse Holders and Fuses

[Back to Street Lighting Table of Contents](#)

[Back to Main](#)

Multi-tap Connectors	Manufacturer	Catalog Number	Approval Date	Comments
	Connector MFG.Co.	CMC SLK-112 I	1/11/01	6061-T6 aluminum Provide rubber boot cover – black plastisol
	Fargo Mfg. Company, Inc subsidiary of Hubbell Inc.	Fargo GO-32	5/5/03	
	Polaris	SLCS4A-4P	9/21/07	Coated w/ allen head screw – does not need rubber boot

Un-Fused Fuse Holders	Manufacturer	Catalog Number	Approval Date	Comments
Ideal Industries purchased Buchanan	Ideal Industries / Buchanan / Elastimold	Style 20 U Breakaway	5/5/03	Single pole in-line non-fused 600 volt, 30 amp Copper #10 AWG conductor size

Fused Fuse Holders	Manufacturer	Catalog Number	Approval Date	Comments
Ideal purchased Buchanan	Ideal Industries / Buchanan / Elastimold	Style 65 U Breakaway	5/5/03	Single pole in-line fused 600 volt, 8 amp Copper #10 AWG conductor size

Fuses	Manufacturer	Catalog Number	Approval Date	Comments
	Bussmann Circuit Protection, Worldwide	Buss Type KTK8	5/5/03	600 volt, 8 amp
	Ferraz Shawmut	ATM-8	1/25/02	
	Littelfuse	KLK-8	7/31/01	

Splice Kits	Manufacturer	Catalog Number	Approval Date	Comments
	Burndy	Split-Bolt Connectors KS20 - #8 STR to #4 STR KS22 - #6 STR to #3 STR KS23 - #6 STR to #2 STR KS25 - #4 STR to #1/0 STR Copper Compression Tees YST4C4 - #4 STR to #4 STR	5/5/03	
	NSI Industries Polaris Blue	ISW-4 - #4 two-port in-line splice ITW-4 - #4 two port IPLW4-3 - #4 three port IPLW4-3 - #4 four port	9/11/07	Waterproof / submersible

Control Centers

[Back to Street Lighting Table of Contents](#)

[Back to Main](#)

Control Centers	Manufacturer	Catalog Number	Approval Date	Comments
	Myers Electric Products, Inc.	MEUG16A-M100-OPK (4 Circuit) MET2-VLM-LTS (1 Circuit)	5/5/03	
	Pacific Utility Products	USP16-M2100-112C-AL-OPK (4 Circuit) USP2-M100-106-AL-OPK (1 Circuit)	4/19/99	

Electrical Cable

[Back to Street Lighting Table of Contents](#)

[Back to Main](#)

Ground Wire	Manufacturer	Catalog Number	Approval Date	Comments
	Cerro Wire & Cable Co, Inc.	Product Number 050-2200 or 050-2215	5/5/03	Soft Drawn Bare Solid Copper #6 AWG
	Encore Wire LTD	Bare No. 6 AWG	8/1/03	
	Essex Electrical Products	Product Number 060062C	8/21/03	
CLOSED 9/03	Rome Cable Corp	Spec 1105	5/5/03	
	Senator / Southwire	Bare No. 6 AWG	5/5/03	
	Service Wire Co	Bare No. 6 AWG	5/7/02	

Distribution Cable	Manufacturer	Catalog Number	Approval Date	Comments
Member of The Marmon Group of Companies	Aetna Insulated Wire Co.	UL file # E63541	2/21/05	No. 4 AWG USE Copper Black insulation

Member of The Marmon Group of Companies	Cerro Wire & Cable Co, Inc.	UL file # E11098	5/5/03	
	Encore Wire LTD	UL file # E174428	8/1/03	
	Essex Electrical Products	Product Number 0800410 UL file # E11134	2/1/01	
	Kris Tech Wire Co, Inc.	0407-RHW/USE-BK UL file # E207249	11/24/03	
CLOSED 9/03	Rome Cable Corp	2150 UL file # E11732	5/5/03	
	Senator / Southwire Co	11-32-72 UL file # E32071	5/5/03	
	Service Wire Co	UL file # E105667	5/7/02	

Pole Cable	Manufacturer	Catalog Number	Approval Date	Comments
	Cerro Wire & Cable Co, Inc.	Product Code Number 112-3801 UL file # E15119	5/5/03	Stranded copper THHN/THWN #10 AWG Color Coded Red and Black
	Encore Wire LTD	UL file # E123774	8/1/03	
	Essex Electrical Products	Product Number 070101 UL file # E14656	2/1/01	
CLOSED 9/03	Rome Cable Corp	2020 UL file # E13662	5/5/03	
	Senator / Southwire Co	Red – 22-97-57 Black – 22-97-32 UL file # E23919	5/5/03	

Grounding Equipment

[Back to Street Lighting Table of Contents](#)

[Back to Main](#)

Ground Rod	Manufacturer	Catalog Number	Approval Date	Comments
	Erico Inc. / Eritech	Cat. No. 611300 – ½” x 10’ Cat. No. 613400 – ¾” x 10’	2/27/02	½” x 10’-0” long Copper clad steel core UL listed
	ITTBlackburn	Cat. No. 5010	5/5/03	
	Joslyn	Cat No. J-8330	5/5/03	
	Knight	GRC 1210	5/5/03	

Ground Rod Clamp	Manufacturer	Catalog Number	Approval Date	Comments
	Burndy	GRC 12 – ½” GRC34 – ¾”	2/27/02	Hex head set screw Copper alloy Long bearing surface UL listed
	Erico Inc. / Eritech	Part No. HDC12 – ½” Part No. HDC34 – ¾”	12/1/05	
	ITT Blackburn	Type JAB-12H	5/5/03	

Junction and Service Boxes

[Back to Street Lighting Table of Contents](#)

[Back to Main](#)

Type I Junction Box	Manufacturer	Catalog Number	Approval Date	Comments
	Armorcast	A6001423TA (12" x 12" x 12")	1/11/01	Logo to read "Street Lighting" Cover to be ¾" thick (CDR is 1 ½" thick) Straight wall No mouseholes 3/8" – 16 NC hex head bolts and washers
	CDR	SB33-1212-12 – Box only SC30-1212-02 – Cover only SA33-1212-12 – Assembly	5/19/95	
	Carson Industires	HLW1212-12 – Box only HLW1212-P0 – Cover only	6/29/04	
	New Basis	PCB121212A04 – Box only PCC121212A04 – Cover only PCA121212A4009 – Assembly	2/26/02	
	Quazite	PC1212BA12 – Box only PC1212CA0029 – Cover only	5/5/03	
	Synertech	S1212B12FA – Box only S1212HFA0A11 – Cover / 1003 bolts	12/22/05	
	Whately Inc.	WPBA-121212-N-S – Box only WPCA-121201-DH-EB – Cover only	1/11/01	

Type II Junction Box	Manufacturer	Catalog Number	Approval Date	Comments
	Armorcast	A6001429TA (11"x18"x12")	7/30/01	Logo to read "Street Lighting" Cover to be 1 ¾" to 2" thick Straight wall No mouseholes 3/8" – 16 NC hex head bolts and washers
	Carson Industires	H1118-12 – Box only H1118-P1 – Cover only	6/29/04	
	CDR	SB33-1118-12 – Box only SC30-1118-02 – Cover only SA33-1118-12 – Assembly	5/19/95	
	New Basis	PCB111812A04 – Box only PCC111812A04 – Cover only PCA111812A866 – Assembly	2/26/02	
	Quazite	PG1118BA12 – Box only PG1118CA0029 – Cover only	5/5/03	
	Synertech	S1118B12AA – Box only S1118HBB0A11 – Cover / 1001 bolts	12/22/05	

Lamps

[Back to Street Lighting Table of Contents](#)

[Back to Main](#)

High Pressure Sodium	Manufacturer	Catalog Number	Approval Date	Comments
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	General Electric	Lucalox – HPS lamps 100 W – LU100 – 44037 150 W – LU150/55/CP – 44043 250 W – LU250 – 44047 400 W – LU400 – 44054	5/5/03	Clear lamp Mogul base
	Sylvania	Lumalux PLUS/ECO – HPS lamps 100 W – LU100/PLUS/ECO – 67559 150 W – LU150/55/PLUS/ECO – 67494 250 W – LU250/PLUS/ECO – 67572 400 W – LU400/PLUS/ECO – 67312	3/26/08	

Luminaires

[Back to Street Lighting Table of Contents](#)

[Back to Main](#)

Cobra-Head Luminaire	Manufacturer	Catalog Number	Approval Date	Comments
Photometric Curves 150:AE7361-70fg3.ies 250 & 400: AEL12963.ies	American Electric Lighting – Acuity Brands	31515SCAMT2R3FGM2NRHPAR8663 – 150W HPS	4/28/05	2-Bolt slip fitter connection for 150 W fixtures 4-Bolt slip fitter connection large housing for 250 W and 400 W fixtures Multi-Tap Ballast Plug-In “Protected” starter Aluminum wildlife guard NO PHOTOCCELL
		32525SCAMT2R3FGNRHPAR8037 – 250W HPS	4/15/05	
32540SCAMT2R3FGNRHPAR8037 – 400W HPS				
Photometric Curves 150: OVF15S2D 250: OVF25S3D 400: OVF40S3D	Cooper	OVF15SWV3D-U1114 – 150W HPS OVF25SWV3D-U1112 – 250W HPS OVF40SWV3D-U1113 – 400W HPS	2/7/05	
Photometric Curves 150: GE7285.ies 250 & 400: GE1002.ies	General Electric	M2AC15S0A1GMC31347 – 150W HPS MDCA25S0A12FMC31 – 250W HPS MDCA40S0A12FMC31 – 400W HPS	5/5/03	
150 & 250: HP03116.ies 400: HP03065.ies	Hubbell	RMCD15S38031125F0M53-150W RMCD25S38031125F0M53-250W RLCD40S38031125F0M53-400 W	5/5/03	

Highway Luminaire	Manufacturer	Catalog Number	Approval Date	Comments
Photometric Curve 400W: 452580.ies	General Electric	RPFT40S0A1GLN4GR – 400W HPS	5/5/03	

Residential Post Top	Manufacturer	Catalog Number	Approval Date	Comments
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Photometric Curves 100 & 150 W Type 3: MPB1S33G.ies 100 W Type 5: MPB1S55G.ies	Cooper Lighting	MPB10SWV33U0040 – 100W Type 3 MPB10SWV55U0041 – 100W Type 5 MPB15SWV33U0042 – 150W Type 3	10/18/04	Multi-Tap Ballast
Photometric Curves 100 & 150 W: 42737	Holophane	PTU-10DHP-MT-B-P3-B-PS – 100 W PTU-15DHP-MT-B-P3-B-PS – 150 W	2/14/03	
Photometric Curves mpb15s3a – Type 3 mpb15sa – Type 5	Sentry	SLH-100HPS-240MT-BLAF –Type 3 SLH-150HPS-240MT-BLAF –Type 3 SLH-100HPS-240MT-BLSF –Type 5	5/5/03	

Ornamental Post Top	Manufacturer	Catalog Number	Approval Date	Comments
Ltl05889.ies	Sentry	SGO-150HPS-240MT-V-Q-BK- Type3 With Acorn/No finial	5/5/03	

Photocell

[Back to Street Lighting Table of Contents](#)

[Back to Main](#)

System Photocell	Manufacturer	Catalog Number	Approval Date	Comments
	American Lighting Research	ALR-SST-PV-IES	5/5/03	120Volt

Poles

[Back to Street Lighting Table of Contents](#)

[Back to Main](#)

Aluminum Poles 30' Mounting Heights	Manufacturer	Catalog Number	Approval Date	Comments

	Hapco	<p>30' Poles: Dwg # B84165-001 – Type OP301 w/single 6' arm – 10/04 Rev 1 Dwg # B84165-002 – Type OP301 w/single 8' arm – 10/04 Rev 1 Dwg # B79636-001 – Type OP302 w/single 12' arm – 10/04 Rev 2 Dwg # B84165-003 – Type OP303 w/twin single member 8' arms – 10/04 Rev 1 Dwg # B79636-005 – w/twin 8' truss arms – 10/04 Rev 2 Identification Label: Dwg # B84166 9-3-03</p>	11/1/04	<p>J-hook at top of pole Handhole cover keeper chain attached to bottom of handhole opening or Hinged handhole option Grounding screw shaft installed parallel to pole shaft at back side of pole. Labeled with manufacturer identification tag. 0.188" Wall Thickness Cable hook at top of pole</p>
	Valmont	<p>30' Poles: Dwg # KS-71 – Type OP301 w/Rev 2 Dwg # KS-72 – Type OP302 w/Rev 2 Dwg # KS-73 – Type OP303 w/Rev 2 Handholes: Dwg # KS-86 – Type OP301 w/Rev 2 Dwg # KS-86 – Type OP302 w/Rev 2 Dwg # KS-87 – Type OP303 Identification Label: Dwg # KS-89 and KS-89A</p>	9/13/05	

Aluminum Poles 40' Mounting Heights	Manufacturer	Catalog Number	Approval Date	Comments
	Hapco	40' Poles: Dwg # 84165-004 – Type OP401 w/single 6' arm – 10/04 Rev 1 Dwg # 84165-005 – Type OP401 w/single 8' arm – 10/04 Rev 1 Dwg # B79636-002 – Type OP402 w/single 10' arm – 10/04 Rev 2 Dwg # B79636-003 – Type OP402 w/single 12' arm – 10/04 Rev 2 Dwg # B79636-004 – Type OP402 w/single 15' arm – 10/04 Rev 2 Dwg # 80061-001 Type OP403 w/twin 12' & 8' arms – 10/04 Rev 3 Dwg # 80061-002 Type OP403 w/twin 12' arms – 10/04 Rev 3 Dwg # 80061-003 Type OP403 w/twin 15' arms – 10/04 Rev 3 Dwg # 80061-004 Type OP403 w/twin 10' arms – 10/04 Rev 3 Identification Label: Dwg # B84166 9-3-03	11/1/04	J-hook at top of pole Handhole cover keeper chain attached to bottom of handhole opening or Hinged handhole option Grounding screw shaft installed parallel to pole shaft at back side of pole. Labeled with manufacturer identification tag. 0.219" Wall Thickness Cable hook at top of pole
	Valmont	40' Poles: Dwg # KS-74 – Type OP401w/Rev 2 Dwg # KS-75 – Type OP402 w/Rev 3 Dwg # KS-76 – Type OP403 w/Rev 3 Handholes: Dwg # KS-87 – Type OP401 w/Rev 2 Dwg # KS-87 – Type OP402 w/Rev 2 Dwg # KS-88 – Type OP403 w/Rev 1 Identification Label: Dwg # KS-89 & KS-89A	9/13/05	

Aluminum Street Light Bracket Arms	Manufacturer	Catalog Number	Approval Date	Comments
	Hapco	Information Contained on Pole Drawings.	9/3/03 9/3/03	Supply end cap on lower truss member. Labeled with identification tag.
	Valmont	Arms: Dwg # KS-77 – 6’ Single – 5/14/03 Dwg # KS-78 – 8’ Single – 5/14/03 Dwg # KS-79 – 8’ Truss – 5/14/03 Dwg # KS-80 – 10’ Truss – 5/14/03 Dwg # KS-81 – 12’ Truss – 5/14/03 Dwg # KS-82 – 15’ Truss – 5/14/03 Arm Attachment: Dwg # KS-83 – Single w/Rev 1 Dwg # KS-84 – Truss w/Rev 1	11/29/04	

Aluminum Poles 14’ Mounting Heights	Manufacturer	Catalog Number	Approval Date	Comments
	Hapco	Dwg # A66338 w/Rev # 10 – 4/08	4/23/08	Handhole cover keeper chain attached to bottom of handhole opening. Handhole should be smooth and free of burs. Grounding screw shaft installed parallel to pole shaft at back side of pole. Labeled with manufacturer identification tag. 0.156” Wall Thickness Cable hook at the top of the pole
	Valmont	Dwg # KS-70 – Type OP14 w/Rev 5 Dwg # KS-85 – Handhole w/Rev 1 Dwg # KS-89 – ID Detail	4/23/08	

Decorative Poles	Manufacturer	Catalog Number	Approval Date	Comments
	Hapco	B72321 w/Rev # 3 – 6/98	5/5/03	

Screw-In Pole Foundations

[Back to Street Lighting Table of Contents](#)

[Back to Main](#)

Screw-in Foundations	Manufacturer	Catalog Number	Approval Date	Comments
	AB Chance	T112-0363 – 14’ post top – R T112-0363-1701 – SP1 for decorative pole T112-0748 – 30’ single or twin – T1 T112-02930101 – 40’ single – F1 T112-02940101 – 40’ twin – F2	2/20/06	Manufacturer and foundation identification stenciled on base plate with ¼” to ½” lettering.

	Dixie	D-1202-0029-A – R OP14 Series D-1202-0465-A – T1 OP301/302/303 Series D-1202-0031-A – F1 OP401/402 Series D-1202-0032-A – F2 OP403 Series	10/17/03	
	JH Botts, Inc.	Dwg # JHBOPK-1 w/Rev A	8/20/03	
	Pelco	SK-1094-1 Rev C – R SK-1109-1 Rev B – T1 SK-1108-1 Rev B – F1 SK-1095-1 Rev E – F2	7/19/06	

System Monitoring Devices

[Back to Street Lighting Table of Contents](#)

[Back to Main](#)

Communication / System Monitoring Devices	Manufacturer	Catalog Number	Approval Date	Comments
		None Approved at this time		

Traffic Control Approved Materials List

[Arrow Panels](#)
[Barricades](#)
[Channelizing Devices](#)

[Inertial Barrier Systems](#)
[Sign Sheeting](#)
[Temporary Marking](#)

[Warning Lights](#)

Arrow Panels

[Back to Construction Traffic Control Table of Contents](#)

[Back to Main](#)

Arrow Panels	Manufacturer	Catalog Number	Approval Date	Comments
	National Signal	Sunup Solar Arrow Panel	3/14/05	
	Wanco, Inc.	WTSP75-LSAC	3/14/05	

Barricades

[Back to Construction Traffic Control Table of Contents](#)

[Back to Main](#)

Type I Barricades	Manufacturer	Catalog Number	Approval Date	Comments
	TrafFix Devices, Inc.	WZ-46 Federal Acceptance Number		

Type II Barricades	Manufacturer	Catalog Number	Approval Date	Comments

Type III Barricades	Manufacturer	Catalog Number	Approval Date	Comments
	Davidson Traffic Control Products	T3B Barricade – Type 9 Prismatic HI (VIP DG)		High Intensity Sheeting

	TraFFix Devices, Inc.	5004-HI1 – 4’ Single Sided 5004-HI2 – 4’ Double Sided 5006-HI1 – 6’ Single Sided 5006-HI2 – 6’ Double Sided 5008-HI1 – 8’ Single Sided 5008-HI2 – 8’ Double Sided 5012-HI1 – 12’ Single Sided 5012-HI2 – 12’ Double Sided		

Channelizing Devices

[Back to Construction Traffic Control Table of Contents](#)

[Back to Main](#)

Conical Delineator / Trim Line Cone	Manufacturer	Catalog Number	Approval Date	Comments
	Lakeside Plastics, Inc.	The Diverter		42” Tall 2 – 6” Fluorescent Orange Prismatic Bands 2 – 6” White High Intensity Bands 16 lbs Recycled Rubber Base
	TraFFix Devices, Inc.	Grabber Cone 42266-CRU-16DGDG		

Inertial Barrier Systems

[Back to Construction Traffic Control Table of Contents](#)

[Back to Main](#)

Sand Barrels	Manufacturer	Catalog Number	Approval Date	Comments
	Energy Absorption Systems, Inc.	Energite III		

Sign Sheeting

[Back to Construction Traffic Control Table of Contents](#)

[Back to Main](#)

Sign Sheeting	Manufacturer	Catalog Number	Approval Date	Comments
	Avery Dennison	Fluorescent Orange – W-7514 High Intensity White – T-6500		Prismatic Type Sheeting
	3M	High Intensity White – 3930		

Temporary Markings

[Back to Construction Traffic Control Table of Contents](#)

[Back to Main](#)

Waterbase Paint	Manufacturer	Catalog Number	Approval Date	Comments
	Ennis Paint	EP Series Fast Dry		

Type I Removable Tape	Manufacturer	Catalog Number	Approval Date	Comments
	Swarco Industries	Director 2		

Type II Non-Removable Tape	Manufacturer	Catalog Number	Approval Date	Comments
	Swarco Industries	Visa Line		

Warning Lights

[Back to Construction Traffic Control Table of Contents](#)

[Back to Main](#)

Warning Lights	Manufacturer	Catalog Number	Approval Date	Comments
	Empco-Lite	Model 499L3 Type B / 747A LED Type A / 100 LED Model 212 B-Lite		

Traffic Signal Approved Materials List

[Backplates](#)
[Cable](#)
[Conduit and Fittings](#)
[Controller Cabinet](#)
[Detection Systems](#)

[Grounding Equipment](#)
[Junction and Service Boxes](#)
[LED Units](#)
[Loop Sealants](#)
[Miscellaneous Controller Equipment](#)

[Mounting Brackets](#)
[Poles](#)
[Power Backup Systems](#)
[RWIS Equipment](#)
[Secondary Service Pedestals](#)

[Signal Heads](#)
[Wire Connectors](#)

Backplates

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

Backplates (Vehicular)	Manufacturer	Catalog Number	Approval Date	Comments
	Gades Sales / Neodesha Plastics	BP481PO – 1 section BP483PO – 3 section BP484PO – 4 section BP485PO – 5 section	5/5/03	0.125" thick 12" Signal Head Sections
	Mid American Signal	MI-1003-L2 – 3 section for Econolite MI-1003-N – 3 section for McCain	5/5/03	
	Pelco Products, Inc.	BK-1001-L3 – 1 section for Econolite BK-1003-L3 – 3 section for Econolite BK-1004-L3 – 4 section for Econolite BK-1005-L3 – 5 section for Econolite BK-1001-N – 1 section for McCain BK-1003-N – 3 section for McCain BK-1004-N – 4 section for McCain BK-1005-N – 5 section for McCain	5/5/03	

Cable

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

Video Detection Power Cable	Manufacturer	Catalog Number	Approval Date	Comments
Econolite Exclusive	Isotec	X339313-00 (for Econolite Systems)	4/25/08	
Iteris Exclusive	Isotec	X531787-00 (for Iteris Systems) – Includes power cable and communication cable in one jacket	4/29/03	

CCTV Camera & Video Detection Communication Cable	Manufacturer	Catalog Number	Approval Date	Comments
	Belden	8281F 75 Ohm (for CCTV Cameras)	2/1/01	
	Belden	9556 UL File No. E34972 – 6 Pair (for Econolite Autoscope Systems) – No power cable required with this cable	5/20/03	
	Isotec	X531787-00 (for Iteris Systems) – Includes power cable and communication cable in one jacket	4/29/03	
	Tappan Wire & Cable, Inc.	1860AT6M/B9556/PLTC UL File No. E57497 – 6 Pair (for Econolite Autoscope Systems) – No power cable required with this cable	7/13/04	

CCTV Camera Pan-Tilt-Zoom Cable	Manufacturer	Catalog Number	Approval Date	Comments
	Belden	9843	6/17/03	

CCTV Camera Power, CNG Monitoring, RWIS Power Cable	Manufacturer	Catalog Number	Approval Date	Comments
	Falcon Fine Wire	980314X19-1-00	4/24/08	1-3c#14 IMSA 19-1
	Southwire	#14 AWG stranded copper	7/15/08	

CNG Monitoring Cable 3-1c #14 AWG	Manufacturer	Catalog Number	Approval Date	Comments
	Cerro Wire & Cable Co, Inc.			
	Encore Wire LTD			
	Essex Electrical Products			
	Service Wire Co			

CNG Power Cable 3-1c #2 AWG	Manufacturer	Catalog Number	Approval Date	Comments
	Cerro Wire & Cable Co, Inc.			Bare copper soft drawn solid copper #2 AWG
	Encore Wire LTD			
	Essex Electrical Products			
	Southwire	#2 AWG stranded copper	7/15/08	
	Service Wire Co			

Induction Loop Cable 1c #14	Manufacturer	Catalog Number	Approval Date	Comments
	Belden	580206	6/17/03	IMSA Type 51-5 Tube Loop Detector Cable PVC/nylon Insulated cable PVC Tube 600 Volt
CLOSED	BSCC	931401	5/5/03	
Supplier	Clifford of Vermont	1C14B19LOOP	5/5/03	
	Falcon Fine Wire	14-1 IMSA 51-5	4/20/01	
	James Monroe Wire and Cable Corporation	IMSA 51-5	9/1/99	
	Kris-Tech	1419-THHN-TUBE-PVC-BLACK	2/1/01	
CLOSED 9/03	Rome Cable Corp	IMSA 51-5 Spec 3250	5/5/03	

Multi-conductor 7c#14 and 2c #14	Manufacturer	Catalog Number	Approval Date	Comments
	Advanced Digital Cable / Clifford of Vermont	7c – 7C14B7I19-1 2c – 2C14B7I19-1	5/5/03	IMSA 19-1 600 Volt Stranded Copper #14 AWG
	Belden	7c – 601205 2c – 601457	2/1/01	
CLOSED	BSCC	7c – 911407 2c – 911402	5/5/03	
	Falcon Fine Wire	7c – 980714X19-1-00 2c – 980214X19-1-00	5/23/05	
Don't manufacture cable anymore	James Monroe Wire and Cable Corporation	7c – IMSA 19-1 2c – IMSA 19-1	9/1/99	

CLOSED 9/03	Rome Cable Corp	7c – IMSA 19-1 Spec 3185 2c – IMSA 19-1 Spec 3185	5/5/03	
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Micro loop Home Run	Manufacturer	Catalog Number	Approval Date	Comments
	3M	Model Canoga 30003	5/20/03	

Non-Invasive Micro loop Home Run Cable	Manufacturer	Catalog Number	Approval Date	Comments
Global Traffic Technologies bought out 3M	Global Traffic Technologies / 3M	Model Canoga 30003	2/18/08	

Opticom Detector Pre-emption Cable	Manufacturer	Catalog Number	Approval Date	Comments
Global Traffic Technologies bought out 3M	Belden	580461 – Model 138	11/7/05	
	3M	Model 138	3/24/08	

Radar Detector Cable	Manufacturer	Catalog Number	Approval Date	Comments
	Orion Wire / Wavetronix	COMBO-2207-2002-PVCGY / WX-SS-H702 Line Code “E113422 5/C 22G-2/C 22-2C 20G C(UL) US CMG 105C”	4/24/08	22 AWG (5) orange, brown, gray, violet & yellow w/ drain wire 20 AWG (2) blue & white w/ drain wire 20 AWG (2) red & black w/ drain wire

RWIS RS-485 Data Cable	Manufacturer	Catalog Number	Approval Date	Comments
	Belden	89842	3/4/09	24 AWG (2 pair) w/ drain wire

Shielded Detector Lead-in 2c #14	Manufacturer	Catalog Number	Approval Date	Comments
	Belden	601765	2/1/01	IMSA Type 50-2 Loop Lead-in Cable Polyethylene Insulated 600 Volt Stranded Copper #14 AWG
CLOSED	BSCC	941402	5/5/03	
This is actually a Belden Cable	Clifford of Vermont	1P14T19I50-2	5/5/03	
	Falcon Fine Wire	14-2 IMSA 50-2	5/5/06	
	General Cable	C2550	5/5/03	

	James Monroe Wire and Cable Corporation	IMSA 50-2	9/1/99	
CLOSED 9/03	Rome Cable Corp	IMSA 50-2 Spec 3220	5/5/03	

#10 AWG System Ground Wire and Tracer Wire	Manufacturer	Catalog Number	Approval Date	Comments
	Cerowire Wire & Cable Co., Inc.	UL file # E15119	5/5/03	Stranded copper #10 AWG THHN 600 volt Tracer wire shall have Red insulation Ground wire shall have Green insulation
	Encore Wire LTD	UL file # E123774	8/1/03	
	Essex Group, Inc.	Product Number 070101 UL File # E14656	2/1/01	
CLOSED 9/03	Rome	2020 UL file #13662	5/5/03	
	Senator / Southwire	22-97-57 UL file # E23919	5/5/03	
	Service Wire	UL file # E105667	5/7/02	

#6 AWG Equipment Ground Wire	Manufacturer	Catalog Number	Approval Date	Comments
	Cerro Wire & Cable Co, Inc.	Product Number 050-2200 or 050-2215	5/5/03	Bare copper soft drawn solid copper #6 AWG
	Encore Wire LTD	Bare No. 6 AWG	8/1/03	
	Essex Electrical Products	Product Number 060062C	8/21/03	
CLOSED 9/03	Rome Cable Corp	Spec 1105	5/5/03	
	Senator / Southwire	Bare No. 6 AWG	5/5/03	
	Service Wire Co	Bare No. 6 AWG	5/7/02	

Conduit and Fittings

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

HDPE Conduit	Manufacturer	Catalog Number	Approval Date	Comments
Merged with Dura-Line by Audax Group	ARNCO	Perma-Guard 1" – SW 400 100 N029 1 ½" – SW 400 150 N029 2" – SW 400 200 N029 3" – SW 400 300 N029 4" – SW 400 400 N029	3/31/03	Schedule 40 HDPE Red with longitudinal white stripes (3 min) Smooth solid wall UV Stabilized

	Carlton	1" – A5C4N1K3MA 1 ½" – A9C4N1K3MA 2" – A13C4N1K3MA 3" – A15C4N1K3MA 4" – A16C4N1K3MA	11/3/04	
Merged with ARNCO by Audax Group	Dura-Line	Smoothwall 1" – 1038-11280-0000000 1 ½" – 1538-11280-0000000 2" – 2038-11280-0000000 3" – 3038-11280-0000000 4" – 3538-11280-0000000	1/11/01	

HDPE Couplings	Manufacturer	Catalog Number	Approval Date	Comments
	ARNCO	IA 551-150U – 1 ½" IA 551-200U – 2"	7/31/01	
	Cabletec	AS 2.375 – 2" AS 3.500 – 3"	8/2/01	
	Central Plastics Company	Electrofusion Couplings 1 ½" IPS 575-0105 2" IPS 575-0042 3" IPS 575-0043 4" IPS 575-0044	5/5/06	
	Dura-Line	E-Loc Couplings 1 ½" – 06-200-1900 2" – 06-200-2375 3" – 06-200-3500 4" – 06-200-4500 Comfit Couplings 1 ½" – 02-130-1900 2" – 02-130-2375 3" – 02-130-3600 4" – 02-130-4600	1/11/01 1/11/01	
	ETCO Specialty Products, Inc.	E-Loc Couplings EL-131 – 1" EL-190 – 1 ½" EL-237 – 2" EL-350 – 3" EL-400 – 4"	1/11/01	

	Tyco Electronics / Jack Moon	Moon-Link Transparent Duct Coupling 1" – 10TC132SP 1 ½" – 15TC190SP 2" – 20TC238SP 3" – 30TC350SP 4" – 40TC450SP or 40TC435SP	12/23/02	
	P.N.A.	1" – ELOC1006 1 ½" – ELOC1506 2" – ELOC2006 3" – ELOC3006 4" – ELOC4006	1/11/01	
	Unitex	Pro-Poly CA Adhesive	1/9/06	

PVC Conduit	Manufacturer	Catalog Number	Approval Date	Comments
	Cantex	1" – A52BA12 1 ½" – A52BE12 2" – A52CA12 3" – A52DA12 4" – A52EA12	5/5/03	Schedule 40
	Carlton	1" – 49008 1 ½" – 49010 2" – 49011 3" – 49013 4" – 49015	5/5/03	
	Certain Teed	1" – 27213 1 ½" – 27413 2" – 27513 3" – 27713 4" – 27913	5/5/03	
	IPEX / PW Eagle	1" – 032410 – 10' or 032411 – 20' 2" – 032420 – 10' or 032421 – 20' 3" – 032430 – 10' or 032431 – 20' 4" – 032440 – 10' or 032441 – 20'	12/22/05	
	Rocky Mountain Colby Pipe	2" – 502010U – 10' or 502020U – 20' 3" – 503010U – 10' or 503020U – 20' 4" – 504010U – 10' or 504020U – 20'	4/7/09	

PVC Fittings	Manufacturer	Catalog Number	Approval Date	Comments
	Cantex	Standard Couplings: 1" – 6141625 1 ½" – 6141627 2" – 6141628 3" – 6141630 4" – 6141632 90° Elbows: (Plan End / Belled End) 1" – 5133825 / 5233825 1 ½" – 5133827 / 5233827 2" – 5133828 / 5233828 3" – 5133830 / 5233830 4" – 5133832 / 5233832 45° Elbows: (Plain End / Belled End) 1" – 5133765 / 5233765 1 ½" – 5133767 / 5233767 2" – 5133768 / 5233768 3" – 5133770 / 5233770 4" – 5133772 / 5233772 30° Elbows: (Plain End / Belled End) 1" – 5133745 / 5233745 1 ½" – 5133747 / 5233747 2" – 5133748 / 5233748 3" – 5133750 / 5233750 4" – 5133775 / 5233776	5/5/03	

	<p>Carlton</p>	<p>Standard Couplings: 1" – E940F 1 ½" – E940H 2" – E940J 3" – E940L 4" – E940N 90° Elbows: (Plan End / Belled End) 1" – UA9AF / UA9AFB 1 ½" – UA9AH / UA9AHB 2" – UA9AJ / UA9AJB 3" – UA9AL / UA9ALB 4" – UA9AN / UA9ANB 45° Elbows: (Plain End / Belled End) 1" – UA7AF / UA7AFB 1 ½" – UA7AH / UA7AHB 2" – UA7AJ / UA7AJB 3" – UA7AL / UA7ALB 4" – UA7AN / UA7ANB 30° Elbows: (Plain End / Belled End) 1" – UA6AF / UA6AFB 1 ½" – UA6AH / UA6AHB 2" – UA6AJ / UA6AJB 3" – UA6AL / UA6ALB 4" – UA6AN / UA6ANB</p>	<p>5/5/03</p>	
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	IPEX / PW Eagle	<p>Standard Couplings:</p> <p>1" – EC20 / 077003</p> <p>2" – EC35 / 077006</p> <p>3" – EC45 / 077008</p> <p>4" – EC55 / 077010</p> <p>90° Elbows: (Plain End / Belled End)</p> <p>1" – 068582 / 068422</p> <p>2" – 068585 / 068425</p> <p>3" – 068587 / 068427</p> <p>4" – 068589 / 068429</p> <p>45° Elbows: (Plain End / Belled End)</p> <p>1" – 068602 / 068563</p> <p>2" – 068605 / 068566</p> <p>3" – 068607 / 068568</p> <p>4" – 068609 / 068570</p> <p>30° Elbows: (Plain End / Belled End)</p> <p>1" – 068622 / EE2030</p> <p>2" – 068625 / EE3530</p> <p>3" – 068627 / EE4530</p> <p>4" – 068629 / EE5530</p>	12/22/05	
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RMC Conduit	Manufacturer	Catalog Number	Approval Date	Comments
	Allied Tube & Conduit	<p>1" – 278895</p> <p>1 ½" – 278911</p> <p>2" – 278929</p> <p>3" – 278945</p> <p>4" – 278960</p>	5/5/03	Galvanized Rigid Conduit Used only for extension of existing RMC conduit
	Sawhill Tubular Division	<p>Steelduct</p> <p>1" – 662535-19345-1</p> <p>1 ½" – 662535-19347-5</p> <p>2" – 662535-19349-9</p> <p>3" – 662535-19351-2</p> <p>4" – 662535-19353-6</p>	4/11/00	
	Western Tube & Conduit Corp	<p>1" – WTR3</p> <p>1 ½" – WTR5</p> <p>2" – WTR6</p> <p>3" – WTR8</p> <p>4" – WTR91</p>	5/5/03	

	Wheatland Tube	1" – 05440 1 ½" – 05442 2" – 05443 3" – 05445 4" – 05447	5/5/03	
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RMC Fittings	Manufacturer	Catalog Number	Approval Date	Comments
	Conduit Pipe Products	Coupling Part Numbers 1 ½" – 00135 2" – 00136 3" – 00138 4" – 00140 90° Elbow Part Numbers 1 ½" – 00165 2" – 00166 3" – 00168 4" – 00170 45° Elbow Part Numbers 1 ½" – 00185 2" – 00186 3" – 00188 4" – 00190	5/5/03	Galvanized Rigid Conduit fittings Used only for extension of existing RMC conduit
	Picoma Industries	Couplings, 90° Elbow and 45° Elbow in sizes: 1 ½", 2", 3", 4"	5/5/03	
	Sawhill Tubular Division	Steelduct (Right and Left Threaded) Coupling Part Numbers 4"x4" – 20997 90° Elbow Part Numbers 3" – 21276 4" – 21279 45° Elbow Part Numbers 3" – 21271 4" – 21273	4/10/01 4/11/00	

	Shamrock Conduit Products	<p>Coupling Part Numbers</p> <p>1 ½" – 9001</p> <p>2" – 0319</p> <p>3" – 0321</p> <p>4" – 0323</p> <p>90° Elbow Part Numbers</p> <p>1 ½" – 7746</p> <p>2" – 7747</p> <p>3" – 7749</p> <p>4" – 7751</p> <p>45° Elbow Part Numbers</p> <p>1 ½" – 7654</p> <p>2" – 7655</p> <p>3" – 7657</p> <p>4" – 7659</p>	5/5/03	
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RMC Bushings	Manufacturer	Catalog Number	Approval Date	Comments
	Arlington Industries	<p>1 ½" – 454</p> <p>2" – 455</p> <p>3" – 457</p> <p>4" – 459</p>	1/11/02	Copper lug with insulated throat constructed of malleable iron. Threaded type
	Bridgeport	<p>1 ½" – 385</p> <p>2" – 386</p> <p>3" – 388</p> <p>4" – 390</p>	5/5/03	
	Lazy-lug	<p>1" – GLL-3C-B</p> <p>1 ½" – GLL-5C-B</p> <p>2" – GLL-6C-B</p> <p>3" – GLL-8C-B</p> <p>4" – GLL-10C-B</p>	5/5/03	
	OZ-Gedney	<p>1" – IBC-100L-4AC</p> <p>1 ½" – IBC-150L-4AC</p> <p>2" – IBC-200L-4AC</p> <p>3" – IBC-300L-4AC</p> <p>4" – IBC-400L-4AC</p>	7/2/03	
	Regal Manufacturing	<p>1 ½" – 8225</p> <p>2" – 8226</p> <p>3" – 8228</p> <p>4" – 8230</p>	5/5/03	

	Steel City / Thomas & Betts	1 ½" – BG-805 2" – BG-806 3" – BG-808 4" – BH-810	5/5/03	
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Bridge Expansion Couplings	Manufacturer	Catalog Number	Approval Date	Comments
	Cantex	1" – 5144033 1 ½" – 5144035 2" – 5144036 3" – 5144038 4" – 5144040	5/5/03	
	Carlton	1" – E945F 1 ½" – E945H 2" – E945J 3" – E945L 4" – E945N	5/5/03	

Controller Cabinet

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

Pole Mount Traffic Signal Cabinet	Manufacturer	Catalog Number	Approval Date	Comments
	IDC / US Traffic Corp.	Model 336A – 2 doors Model 303 – 1 door	5/5/03 5/5/03	
	Phillips Sisson Ind.	Model 336 – 2 doors	5/5/03	
336A Cut Sheet 303/8 Cut Sheet	Safetran	Model 336A – 2 doors Model 303/8 – 1 door	5/5/03 5/5/03	

Pad Mount Traffic Signal Cabinet	Manufacturer	Catalog Number	Approval Date	Comments
	Phillips Sisson Ind.	Model 332	5/5/03	
	Safetran	Model 332-OPKS	5/5/03	

Double Pad Mount Traffic Signal Cabinet	Manufacturer	Catalog Number	Approval Date	Comments
	Safetran	Model 332D	6/7/06	

Pad Mount DMS Sign Cabinet	Manufacturer	Catalog Number	Approval Date	Comments

Grounding Equipment

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

Ground Rod	Manufacturer	Catalog Number	Approval Date	Comments
	Erico Inc. / Eritech	½” x 8’-0” Cat. No. 611380 ½” x 10’-0” Cat. No. 611300	2/27/02	½” x 10’-0” long at poles and controller cabinet ½” x 8’-0” long at service boxes Copper clad steel core UL listed
	ITTBlackburn	½” x 8’-0” Cat. No. 5008 ½” x 10’-0” Cat No. 5010	5/5/03	
	Josyln	½” x 8’-0” Cat. No. J-8328 ½” x 10’-0” Cat No. J-8330	5/5/03	
	Knight	½” x 8’-0” Cat. No. ½” x 10’-0” Cat No. GRC 1210	5/5/03	

Ground Rod Clamp	Manufacturer	Catalog Number	Approval Date	Comments
	Burndy	GRC 12	2/27/02	Hex head set screw
	Erico Inc. / Eritech	HDC12 – ½” rod HDC34 – ¾” rod	12/1/05	Copper alloy Long bearing surface
	ITT Blackburn	Type JAB-12H	5/5/03	UL listed

Junction and Service Boxes

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

Type I Junction Box	Manufacturer	Catalog Number	Approval Date	Comments
	Armorcast	A6001423TA (12” x 12” x 12”)	1/11/01	Logo to read “Traffic Signal” Cover to be ¾” min thick Straight wall No mouseholes 3/8” – 16 NC hex head bolts and washers
	Carson Industries	HLW1212-12 – Box only HLW1212-P0 – Cover only	6/29/04	
	CDR	SB33-1212-12 – Box only SC30-1212-02 – Cover only SA33-1212-12 – Assembly	5/19/95	
	New Basis	PCB121212A04 – Box only PCC121215A04 – Cover only	8/8/03	
	Quazite	PC1212BA12 – Box only PC1212CA0046 – Cover only	5/5/03	
	Whately Inc.	WPBA-121212-N-S – Box only WPCA-121201-DG-EB – Cover only	1/11/01	
	Synertech	S1212B12FA – Box only S1212HGA0A13 – Cover / 1003 bolts	12/22/05	

Type II Junction Box	Manufacturer	Catalog Number	Approval Date	Comments
	Armorcast	A6001429TA (11”x18”x12”)	7/30/01	Logo to read “Traffic Signal”
	Carson Industries	H1118-12 – Box only H1118-P1 – Cover only	6/29/04	Cover to be 1 ¾” to 2” thick Straight wall

	Safetran	Model 334-OPKS	5/5/03	
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Detection Systems[Back to Traffic Signal Table of Contents](#)[Back to Main](#)

Microloop Probes	Manufacturer	Catalog Number	Approval Date	Comments
Global Traffic Technologies bought out 3M	Global Traffic Technologies / 3M / Canoga	Model 701 w/40004 Micro loop Cable	2/18/08	

Non-Invasive Vehicle Detectors Probes	Manufacturer	Catalog Number	Approval Date	Comments
Global Traffic Technologies bought out 3M	Global Traffic Technologies / 3M	Model 702 Probes and Carriers Model 702 Installation Kit Canoga C800 Interface Scotchcast 3832 Splice Kit	2/18/08	

Pedestrian Pushbuttons ADA Audible	Manufacturer	Catalog Number	Approval Date	Comments
	Polara	Navigator APS 9"x12" frame – N49BN0-Y (std pole) 5"x7" frame – N45BN0-Y (ped pole)	1./27/04	Red LED indicator Audible locator Auto volume adjustment for ambient noise levels Audible message capability (Recorded by City) 4-Wire system Yellow housing

Pedestrian Pushbuttons	Manufacturer	Catalog Number	Approval Date	Comments
	Campbell Co	4EVR 120 – Yellow	5/2/06	Yellow body
	Polara Engineering, Inc.	Push Button Assembly – BDLM2-Y Pole Mount Adaptor – BDPM-Y	2/18/05	Momentary LED Flash with simultaneous sound

Pre-empt Detectors	Manufacturer	Catalog Number	Approval Date	Comments
Global Traffic Technologies bought out 3M	Global Traffic Technologies / 3M	Model 721	2/218/08	Two Direction Single Channel

Pre-formed Loop Detectors	Manufacturer	Catalog Number	Approval Date	Comments

	Never-Fail Loop Systems	Model A – in or under asphalt Model C – in concrete or bridge decks Model F – in sawed grooves in asphalt	6/6/00	
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Radar Detectors	Manufacturer	Catalog Number	Approval Date	Comments
	Wavetronix	Model 200 SmartSensor Advance Unit Click! 200 Surge Protection Module Click!304 Communication Data Converter Click! 174 (4-Channel) Contact Closure WX-SS-H701-60 cable harness	6/7/06	Includes wiring harness 332/336 input file compatible The Click! 174 has two additional channels for contact closures to pick up the OPTCS loops

Vehicle Detectors	Manufacturer	Catalog Number	Approval Date	Comments
Global Traffic Technologies bought out 3M	Global Traffic Technologies / 3M / Canoga	Model C922 – Two Channel Model C924 – Four Channel	2/18/08	
Quixote Traffic Corp purchased US Traffic	IDC / US Traffic Corp. / Quixote Traffic Corp	Model 222 – Two Channel Model 224CA – Four Channel	2/18/05	
	Reno	Model C-1000 Series – Two Channel Model E-1000 Series – Four Channel	2/18/05	

Video Detection Systems	Manufacturer	Catalog Number	Approval Date	Comments
	Econolite Solo Terra	ASOLOTERRA1S – Image Sensor ATIP1 – Interface Panel ATAPE – Access Point ASTCBL12 – Interface Cable Kit 33457G57-C4 – Green/Red Interface Panel		Easy-Lock Harting Connector On-Board Ethernet Port
	Econolite Terra Rack Vision Used for Maintenance Replacements Only	AIS4HCRZOOMU0S – AIS Image Sensor AIPx – Camera Interface Panel ARVTERRA1E – Processor Card ASTCBL02 – Interface Cable Kit 33457G57-C4 Green/Red Interface Panel		Easy-Lock Harting Connector x = number of cameras to be connected to the interface panel (1 to 6) On-Board Ethernet Port

	CDR	SB33-1118-12 – Box only SC30-1118-02 – Cover only SA-33-1118-12 – Assembly	5/19/95	No mouseholes 3/8” – 16 NC hex head bolts and washers
	New Basis	PCB111812A04 – Box only PCC111815A04 – Cover only	8/8/03	
	Quazite	PG1118BA12 – Box only PG1118CA0046 – Cover only	5/5/03	
	Synertech	S1118B12AA – box only S1118HBB0A13 – cover / 1001 bolts	12/22/05	

Type III Junction Box	Manufacturer	Catalog Number	Approval Date	Comments
	Armorcast	A6001640TAPCX12 A6001640TAPCX18 (17” x 30” x 30”) (Stacked Units)	9/16/03	Logo to read “Traffic Signal” Cover to be 1 ¾” to 2” thick Straight wall No mouseholes 3/8” – 16 NC hex head bolts and washers Depth of box shall be 30” minimum. May be attained by stacking with no additional payment.
	Carson Industries	H1730-12 – 12” Deep Box only H1730-18 – 18” Deep Box only H1730-P1 – Cover only	6/29/04	
	CDR	SB33-1730-30 – Box only SC30-1730-02 – Cover only SA-33-1730-30 – Assembly	8/8/03	
	New Basis	PCB173012A04 – 12” Deep Box only PCB173018A04 – 18” Deep Box only PCC173015A04 – Cover only	8/8/03	
	Quazite	PG1730BA30 – Box only PG1730CA0046 – Cover only	5/5/03	
	Synertech	S1730B30AA – box only S1730HBB0A13 – cover / 1001 bolts	12/22/05	

Round Service Box	Manufacturer	Catalog Number	Approval Date	Comments
	Armorcast	A6000182TX36 – Box only A6000181T – Cover only A600018TAX36 – Box and Cover	8/7/03	SPECIAL USE ONLY Logo to read “Traffic Signal” Cover to be 1” thick min.
	CDR	SB10-2700-36 – Box only SC10-2700-02 – Cover only	5/5/03	
	Quazite	LR2732BA36 – Box only PR2700CA0046 – Cover only	5/5/03	

Type I Service Box	Manufacturer	Catalog Number	Approval Date	Comments
	Armorcast	A6001974TAPCX24 (24” x 36”x 24”)	8/7/03	Logo to read “Traffic Signal”

	Carson Industries	H2436-24 – Box only H2436-P1 – Cover only	6/29/04	Cover to be 3” thick Straight wall No mouseholes 3/8” – 16 NC hex head bolts and washers
	CDR	SB33-2436-24 – Box only SC30-2436-03 – Cover only SA33-2436-24 – Assembly	8/8/03	
	New Basis	PCB243624A04 – Box only PCC243615A04 – Cover only	2/26/02	
	Quazite	PG2436BA24 – Box only PG2436CA0046 – Cover only	5/5/03	
	Synertech	S2436B24AA – box only S2436HCP0A13 – cover / 1002 bolts	12/22/05	

Type II Service Box	Manufacturer	Catalog Number	Approval Date	Comments
	Armorcast	A6001430TAPCX24 (30” x 48”x 24”)	8/7/03	Logo to read “Traffic Signal” Cover to be 3” thick two-piece underlapping Straight wall No mouseholes 3/8” – 16 NC hex head bolts and washers
	Carson Industries	H3048-24 – Box only H3048-P1 – Cover only	6/29/04	
	CDR	SB33-3048-24W – Box only SC30-3048-23W – Cover only SA33-3048-24W – Assembly	8/8/03	
	New Basis	PCB304824A04 – Box only PCC304815A14 – Cover only	2/26/02	
	Quazite	PG3048BA24 – Box only PG3048CC0046 – Cover only	5/5/03	
	Synertech	S3048B24AA – box only S3048HCB0A13 – cover / 1002 bolts	12/22/05	

LED Units

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

Red Ball LED	Manufacturer	Catalog Number	Approval Date	Comments
	DiaLight	DuraLED 433-1210-003	5/5/03	Tinted or clear lens is acceptable Incandescent look
	GELcore	DR6-RTFB-17A	9/19/02	
	TraStar	Duralight JXC-300HFR	8/6/07	

Yellow Ball LED	Manufacturer	Catalog Number	Approval Date	Comments
	DiaLight	DuraLED 433-3230-001	5/5/03	Tinted or clear lens is acceptable Incandescent look
	GELcore	DR6-YTFB-17A	9/19/02	
	TraStar	Duralight JXC-300HFY	8/6/07	

Green Ball LED	Manufacturer	Catalog Number	Approval Date	Comments
	DiaLight	DuraLED 433-2220-001A	5/5/03	Tinted or clear lens is acceptable Incandescent look
	GELcore	DR6-GTFB-17A	9/19/02	

	TraStar	Duralight JXC-300HFG	8/6/07	
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Pedestrian LED	Manufacturer	Catalog Number	Approval Date	Comments
	DiaLight	430-6472-001	5/5/03	Orange Hand/White Man
	GELcore	PS7-CFL1-01A (LED look)	9/19/02	Filled/Overlay Style
	TraStar	Duralight JXM400-VIHMIL	8/6/07	Incandescent look

Countdown Pedestrian LED	Manufacturer	Catalog Number	Approval Date	Comments
	DiaLight	430-6479-001	2/16/06	Orange Hand/White Man Incandescent look
	GELcore	PS7-CFF1-26A	2/16/06	Filled/Overlay Style
	TraStar	Duralight JXM-400VIEIL	8/6/07	9" Numerals

Red LED Arrow	Manufacturer	Catalog Number	Approval Date	Comments
	DiaLight	430-1315-001	5/5/03	Tinted or clear lens is acceptable
	GELcore	DR6-RTAAN-17A	9/19/02	Incandescent look
	TraStar	Duralight JXJ300-07R	8/6/07	

Yellow LED Arrow	Manufacturer	Catalog Number	Approval Date	Comments
	DiaLight	430-3335-001	5/5/03	Tinted or clear lens is acceptable
	GELcore	DR6-YTAAN-17A	9/19/02	Incandescent look
	TraStar	Duralight JXJ300-07Y	8/6/07	

Green LED Arrow	Manufacturer	Catalog Number	Approval Date	Comments
	DiaLight	430-2375-001	5/5/03	Tinted or clear lens is acceptable
	GELcore	DR6-GTAAN-17A	9/19/02	Incandescent look
	TraStar	Duralight JXJ300-07G	8/6/07	

Bi-Modal Green/Yellow LED Arrow	Manufacturer	Catalog Number	Approval Date	Comments
	DiaLight	430-6370-001	5/5/03	Clear Lens, pixilated arrow
	GELcore	DR6-ECA6-21A	9/19/02	
	TraStar	Duralight JXJ300-VIYGA	8/6/07	

Loop Sealants

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

Loop Sealants	Manufacturer	Catalog Number	Approval Date	Comments
	3M	Black 5000	5/5/03	Crafco sealant may only be used on loops sawed into the final surface of the pavement.
	Bondo Traffic	E-709 or E-709-CP	5/5/03	
	Chemque	Q-Seal 290S Grey or Black	10/23/03	

	Crafco Inc	RoadSaver 221, Part No. 34221	5/5/03	
	Ruscoe Highway Products	PS-2000 – Comes in Gray or Black	7/10/00	

Miscellaneous Controller Equipment

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

170 Controller	Manufacturer	Catalog Number	Approval Date	Comments
Quixote Traffic Corp purchased US Traffic	IDC / US Traffic Corp / Quixote Traffic Corp	170E	5/5/03	
	Safetran	170E	5/5/03	

2070 Controller	Manufacturer	Catalog Number	Approval Date	Comments
	Econolite Control Products, Inc.	Model ATC2070L	7/15/05	2070 Lite Modules: <ul style="list-style-type: none"> • 1 – 3B front panel • 1 – 2A field panel • 1 – 4A power supply • 1 – 7A serial communications module • 1 – 1B CPU module Meets CalTrans Transportation Electrical Equipment Specifications August 2002 as revised October 27, 2003 Software shall be provided with the controller

Conflict Monitor	Manufacturer	Catalog Number	Approval Date	Comments
	EDI / Eberle Design, Inc.	2018 KCLip	2/19/09	Datakey programming and Ethernet port

Surge Protector	Manufacturer	Catalog Number	Approval Date	Comments
	EDCO	SHA-1210	5/5/03	

Flasher Unit	Manufacturer	Catalog Number	Approval Date	Comments
	EDI / Eberle Design, Inc.	EDI 204	5/5/03	Model 204

	TSC / Traffic Sensor Corp	TSC 204	5/5/03	
	GDI / General Devices & Instruments	FL204	5/5/03	
	PDC / Power Distribution Control	SSF-88	5/5/03	
	Reno A&E	FL-200	11/3/05	

Switchpack / Load Switch	Manufacturer	Catalog Number	Approval Date	Comments
	EDI / Eberle Design, Inc.	EDI 200	5/5/03	Model 200
	GDI / General Devices & Instruments	LS200	5/5/03	
Quixote Traffic Corp purchased US Traffic	IDC / US Traffic Corp / Quixote Traffic Corp	200	5/5/03	
	PDC / Power Distribution Control	SSS-88	5/5/03	
	Reno A&E	LS-200	11/3/05	
	TSC / Traffic Sensor Corp	TSC200	5/5/03	

Flash Transfer Relay	Manufacturer	Catalog Number	Approval Date	Comments
	CII Technologies / MidTex	MidTex 136-62T3A1	5/5/03	Model 430
	Magnecraft	W21ACPX-2	5/5/03	
	Reno A&E	TR-200	11/3/05	

DC Isolator	Manufacturer	Catalog Number	Approval Date	Comments
	GDI / General Devices & Instruments	DIM242	5/5/03	Model 242

	PDC / Power Distribution Control	DCI-82 Model 242	5/5/03	
	TSC / Traffic Sensor Corp	TSC 242	5/5/03	

AC Isolator	Manufacturer	Catalog Number	Approval Date	Comments
	TSC / Traffic Sensor Corp	TSC 252	5/5/03	Model 252
	GDI / General Devices & Instruments	ACIM252	5/5/03	
	PDC / Power Distribution Control	ACI-88 Model 252	5/5/03	

Power Distribution Surge Protection Unit	Manufacturer	Catalog Number	Approval Date	Comments
	Atlantic Scientific	35326 (CPS-1215RMS)	10/28/08	Room for 8 transformer spaced outlets (minimum) 15 amp breaker Rack mounted NEMA 5-15
	Geist Manufacturing, Inc.	SPX084-10	11/4/05	

Video Surge Protection Unit	Manufacturer	Catalog Number	Approval Date	Comments
	EDCO	CX06BNCY	8/8/01	Note: Not required for the Ecololite Autoscope System.

Pre-empt Phase Selectors	Manufacturer	Catalog Number	Approval Date	Comments
Global Traffic Technologies bought out 3M	Global Traffic Technologies	Model 752 – Two Channel Model 754 – Four Channel	3/28/08	

Internal Telephone Modems	Manufacturer	Catalog Number	Approval Date	Comments
	GDI / General Devices & Instruments	Model 2400	5/5/03	

External Telephone Modems	Manufacturer	Catalog Number	Approval Date	Comments
	Econolite	34975G10	4/28/03	
	GDI / General Devices & Instruments	Model 2400SA	5/5/03	

Mounting Brackets

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

Detector Camera Mounting Bracket for Luminaire Arm	Manufacturer	Catalog Number	Approval Date	Comments
	Iteris	Vantage I-Bracket	10/4/02	For Iteris Systems Only
	Pelco Products, Inc.	SH-0502-10 w/ SE-4049 SH-0509-10 w/SE4049 Econolite	10/4/02	Narrow hub plate substituted for SE-4071 universal hub plate
	PELCO	EM-1109 EM-2200	10/31/05	The EM-1109 is for mounting on top of the luminaire arm The Em-2200 is a J-hook designed to mount below the luminaire arm

Detector Camera Mounting Bracket Side of Pole Mount	Manufacturer	Catalog Number	Approval Date	Comments
	Pelco	EM-2000	10/31/05	

Detector Camera Mounting Bracket for Mast Arm	Manufacturer	Catalog Number	Approval Date	Comments
	Pelco Products, Inc.	AstroBrac AS-0175-5-62	10/4/02	

Radar Detector Mounting Bracket for Mast Arm	Manufacturer	Catalog Number	Approval Date	Comments
	Pelco Products, Inc.	AstroBrac AB-0164-L-84	6/8/06	With 4-hole mounting and PVC enclosure for surge protection module

Mast Arm Signal Head Bracket	Manufacturer	Catalog Number	Approval Date	Comments

	Pelco Products, Inc.	Astro Brac AB-0125-1-L (1-Section) Astro Brac AB-0125-3-L (3-Section) Astro Brac AB-0125-4-L (4-Section)	5/5/03	Cable mount bracket assembly
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Side Mount Signal Head Bracket	Manufacturer	Catalog Number	Approval Date	Comments
	Auto/Eagle	UKS-1452Y	5/5/03	Yellow polycarbonate
	Component Products, Inc.	TSP880-Y	5/5/03	
	Gades	UKS1452Y / PDM-405	5/5/03	

Pedestrian Head Bracket	Manufacturer	Catalog Number	Approval Date	Comments
	McCain Traffic Supply	Clamshell Quickmount II	5/5/03	

Mini Pre-empt Detector Bracket	Manufacturer	Catalog Number	Approval Date	Comments
	Pelco Products, Inc.	Astro Brac AB-0163-L	12/29/04	Cable mount

Poles

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

Galvanized Steel Signal Poles	Manufacturer	Catalog Number	Approval Date	Comments
	Union Metal	50915-B12 (Y1 through Y77) Rev RO	Pending	Shall meet 2001 AASHTO Criteria 90 mph wind speed and 50 year recurrence interval 11.2 mph natural wind gusts Fatigue category 2 Taper at least 0.14"/ft Not designed for periodic galloping Not designed for truck induced gusts
	Valmont	DB00797 Rev B dated 5/14/07	5/16/07	

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	5/5/03	Set screws required in base collar

	Gades Sales	Pole Cap PC4.5 9' Pedestal Pole, PB5100-9 13' Pedestal Pole, PB5100-13 14' Pedestal Pole, PB5100-14	5/5/03	
	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	5/5/03	

Power Backup Systems

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

CNG Generators	Manufacturer	Catalog Number	Approval Date	Comments
	Alpha Technologies	AlphaGen CE-3x2-50-48 NG with Cold Weather Starting Kit With PCC-3x Polymer Concrete Pre-Cast Pad DO NOT PROVIDE WITH TRANSFORMER AND FUSE	6/17/03	48V DC output voltage 96 amp max DC output current 14 HP single OHV engine 13.8 – 14.4 VDC Ignition Charger Voltage 3 amp max Ignition Charger Current 3900 RPM variable speed 90 CuFt/hr Natural Gas, 1000 BTU/CuFt 0.5 – 2 PSI Gas Inlet Pressure Cooling air mix with exhaust prior to leaving @ 520 CFM, Exhaust @ 115 CFM

UPS Systems	Manufacturer	Catalog Number	Approval Date	Comments
	Myers	Powerback PBM-2000 - With Myers Powerback Communication Cables – 002267	6/17/03	2000 VA Output Power 100 – 130 VAC Output Voltage 60 Hz Input Frequency 30 A Current 15 A Circuit Breaker 48 VDC Battery String Voltage Communication Cables Supply Terminal Server – See Fiber Optic Equipment

Battery Management Systems	Manufacturer	Catalog Number	Approval Date	Comments
	Alpha Technologies	AlphaGuard Charge Management Technology AG-CMT-4	11/23/04	Battery Equalizer System 48 VDC Battery String Voltage Charge Management Technology module

Power Transfer Switches	Manufacturer	Catalog Number	Approval Date	Comments
	Gen/Tran Corporation	TS300230PL	10/5/05	Double Pole 30 Amp manual transfer switch Aluminum housing and #2 key Pilot light indicator

RWIS Equipment

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

RWIS Equipment	Manufacturer	Catalog Number	Approval Date	Comments
	High Sierra Electronics	Road Surface Condition Sensor – Model 5433-01 RWIS Sensor Control Unit – Model 5433-02 Mini RWIS RPU – Model 5470-01	4/3/09	The RPU includes: 1-Unit 19”x 8” Rack Enclosure Hammond RM1U1908VBK RWIS RS 485 Surge Protector – EDCO COHP-015 RWIS DC Power Suppressor – EDCO OPX-015

Secondary Service Pedestals

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

Aluminum Electrical Service Enclosure	Manufacturer	Catalog Number	Approval Date	Comments
	Myers Custom Products, Inc.	MEA-IIVLM-TS	11/24/03	0.125” Aluminum, 30 amp breaker Corbin #2 lock on door Extra meter socket supplied No photocell or lighting relays Reliance Controls Corp (30 A, 4-prong) External Generator Receptacle
	Pacific Utility Products	USP2-OPK	9/12/02	

Battery Backup / Electrical Service Enclosure	Manufacturer	Catalog Number	Approval Date	Comments
	Myers Custom Products, Inc.	Cabinet – MET2-PB-M030-AC-EMI Drawing No. F518506	8/23/05	0.125” aluminum External generator receptacle Manual transfer switch behind police door Reliance Controls Corp (30A, 4-prong) External Generator Receptacle For use with external portable generator 20Amp breaker for CCTV Camera Disconnect

Battery Backup to CNG Electrical Service Enclosure	Manufacturer	Catalog Number	Approval Date	Comments

Last Revised: 4/07/09

	Myers Custom Products, Inc.	Cabinet – MET2-PB-M030-DC-EMI Drawing No. F518507	8/23/05	0.125" aluminum For use with permanent CNG generator and gas service line 20Amp breaker for CCTV Camera Disconnect
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Signal Heads

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

Vehicular Signal Heads	Manufacturer	Catalog Number	Approval Date	Comments
	Automatic Signal / Eagle Signal	SA103A1111YBB for 3 Section SA104A1111YBB for 4 Section SA101A1111YBB for 1 Section	5/5/03	Yellow Polycarbonate Body Black Polycarbonate Doors and Visors Visors to be Tunnel Type LED retrofit 12" Sections
	Econolite Control Products, Inc.	TP31VJC2POH0 for 3 Section TP41VJC2POH0 for 4 Section TP11VJC2POH0 for 1 Section	5/9/03	
	Indicator Controls Corp		6/4/01	
	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	5/5/05	
Quixote Traffic Corp purchased US Traffic	Peek Traffic / Quixote Traffic Corp	PSS83S003FO for 3 Section PSS84S004FO for 4 Section	5/5/03	

Pedestrian Signal Heads	Manufacturer	Catalog Number	Approval Date	Comments
	McCain Traffic Supply	Series 1000: PSXX6D-P	12/30/04	Yellow Body Black Polycarbonate Doors / No Visors

Wire Connectors

[Back to Traffic Signal Table of Contents](#)

[Back to Main](#)

Wire Connectors for Loop Lead-In	Manufacturer	Catalog Number	Approval Date	Comments
	King Innovation/Dryconn	KB – Aqua/Blue Waterproof Connector 62310 – Card of 3 62325 – Bag of 15 62335 – Bag of 50 62340 – 250	10/14/03	Wire Range: Min. #14 / Max. #6 Copper Silicone Sealant Filled Watertight/raintight

Wire Connectors for Multi-Conductor	Manufacturer	Catalog Number	Approval Date	Comments

Signal Cable				
	King Innovation/Dryconn	King 6 Blue Waterproof Connector 10600 – Card of 2 10666 – Bag of 10	10/14/03	Wire Range: Min. #22 / Max. #8 Copper Silicone Sealant Filled Direct Burial