

Douglas County Traffic Approved Product List 10-13-2023

	Approved Products
Pedestrian Push Button Pole	Schedule 80 Aluminum, 4.5 inch diameter, .337 inch thick, powder coated black or equivalent. Length sufficient to house APS pushbutton and R10-3 sign with 3 to 4 inches of pole extending above sign and pushbutton height of 42 inches.
Pedestal Pole	Base may either be a Pelco aluminum base or Frey base as noted in Douglas County Standard Signal Details Schedule 80 Aluminum, 4.5 inch diameter, .337 inch thick, powder coated black or equivalent, 16 ft in length, Pelco aluminum base as noted in Douglas County Standard Signal Details
APS Pushbutton System	APS Pushbuttons (Polara In2) ICCU-C2 rack mount card, APS Pushbuttons (Polara In2) iN2-ICB-C interconnect board, APS Pushbuttons (Polara In2) iN2-C4-Cable-C4 cable harness, iN2-150WPS-C power supply, Polara iNSPA4x2 Adapter
APS Pedestrian Lead In Wire	IMSA 50-2 spec., #14 AWG Stranded wire
Ped Pushbutton Extension Brackets (yellow)	Campbell Company Universal Extension brackets (short/medium/long) or approved equal
Vehicle Detection	Econolite EVO Radar Detection, Wavetronix Stop Bar and Advance Detection, Video Detection - As noted in plan set
Emergency Vehicle Preemption Equipment	Opticom Infrared system Model 764 Phase Selector card, Opticom Infrared system Model 711 Detector or approved equal
Emergency Vehicle Preemption Equipment communication wire	GTT Opticom 138 Detector Cable or approved equal.
PTZ Camera Equipment	Axis PTZ (Q6075-E & Q6010-E) multidirectional camera setup or approved equal
UPS Equipment	Clary 1250LX, Clary SNMP/HTTP adapter communication port, Clary Bypass Switch, Clary generator plug and cable or approved equal
UPS Batteries	Clary Outpost RT Batteries 12V 55 Ah or approved equal
Ethernet switch	EX78934X-OVB Ethernet switch, EPOW-54-240/24-60 Hardened Power Supply, KR-BK78-0040 Rack Mount Kit, SFPGIS10M/20M Optics DDM, EG97244-4VCR Hub Switch
Radio Receiver/Transmitter	Encom E-Lite 450 INT/EXT/Dual
12"Ø Signal Housing, polycarbonate - black	McCain or approved equal Per Douglas County Appendix F Specifications
Pedestrian Signal housing 16" Ø Polycarbonate - Black, vantage visor	McCain or approved equal Per Douglas County Appendix F Specifications
Traffic Signal visor, tunnel, polycarbonate -black	McCain or approved equal Per Douglas County Appendix F Specifications
LED Arrow indications 12"Ø	Dialight, omni directional, uniform appearance LED arrows, tinted. ITE compliant, 5 yr warranty or approved equal
LED Ball indications 12"Ø	Dialight, uniform appearance, LED traffic signal modules, tinted. ITE compliant. 5 yr warranty or approved equal
LED PED indication -Countdown 16"x18"	Dialight, uniform appearance, LED, ITE compliant or approved equal.
Snow Mitigation Devices (Typically 6 or 7 Applications on SB approach only)	Zitek Meltsmart Heated LED Indications or Snow Proof Signals LLC mitigation devices
Backplates - louvered with 2" retro-reflective border	McCain or approved equal Per Douglas County Appendix F Specifications
Mast arm signal head mounting hardware	Astro Brac or approved equal
Side of pole signal head mounting bracket	Traffic Signal Controls supplied hardware or approved equal
ground rod	Galvan 5/8" Copper/Brn 8 foot UL Listed/10 Mil copper ground wire or approved equal
ground rod hardware	Galvan SRC Ground Rod Clamp or approved equal
2" and 3" electrical conduit trenched	Schedule 80 Rigid PVC Pipe UL Listed
2" and 3" electrical conduit bored	Duraline schedule 80 black pipe with red stripe for electrical line, orange pipe for communication, UL Listed or approved equal
2" & 3" conduit elbow	Schedule 80 Rigid PVC Pipe, 18" radius or approved equal
PVC to Bore Pipe coupling device	Duraline Shur Lock II or approved equal
Signal wiring	IMSA 19-1 3,5 and 25 Strand
Tracer wire	#14 AWG fully annealed single strand copper or copper clad steel wire with orange HDPE sheath
Luminaire wiring 12/2	Wire must be UL listed UF/B 12-2 plus ground specs
Pull box, type 1	Quazite Tier 22 - 17"x30"x24", UL Listed, with embossed "Traffic" or approved equal
Pull box, type II	Quazite Tier 22 - 24"x36"x24", 2 piece lid, UL Listed, with embossed "Traffic" or approved equal
Type III, vault	Quazite Tier 22 - 30"x48"x24" , 2 piece lid,UL Listed, with embossed "Traffic" or approved equal
Polyester Mule tape, 1/2", 1250 Lb pull strength	Bullline or approved equal meeting Douglas County Appendix F specs
Meter Pedestal	Milbank U5701-O-5T9, Milbank C3PA - A Size or approved equal
Luminaire LED	GE Evolve ERL1 Series LED's
Luminaire solar photocell	Ripley Longlife II Twist Lock Electronic Photocell or approved equal
Sign panels (class 1)	Per Douglas County Appendix G specifications
Sign mounting hardware	Pelco Astro Sign Brac Galaxy formed tube cable mount or approved equal
Street name sign	Per Douglas County Appendix G specifications
Street Name sign mounting hardware	Pelco Astro Sign Brac Galaxy cable mount or approved equal
72 strand fiber optic cable	Corning Loose Tube, Gel Free, Single Jacket, Single Mode, Armored or Non-Armored Cable as specified on plans or approved equal
Fiber Splice Enclosure	Preferred Line Products Coyote Dome Closure 6.5" x 22" Dome for Buffer Tube (Loose Tube) or approved equal
36 count splice tray	6.5"x22" Coyote Dome Closure Splice Tray or approved equal
Backbone to Backbone Patch Panel	OCC Splice Drawer with Splice Cassettes 12 port SC or approved equal
Fiber lateral (12 port gator patch Low Loss)	Fiber Connections 12 Port Gator Patch Low Loss or approved equal
Cabinet base (332D or 350I/ATCC-P)	Hubbell PH50804021B6T cabinet base or approved equal
Thermoplastic markings	Per Douglas County Appendix G specifications
Traffic roadway paint	Per Douglas County Appendix G specifications
Caisson Concrete Mix Design	Per Douglas County Appendix F specifications
Commander ATC Controller	Per Douglas County Appendix F specifications
Cabinet & all plug in devies	Per Douglas County Appendix F specifications
I/O Relay Module (For Door Alarm)	Axis Input/Output relay module A9161 or approved equal
Traffic Signal Poles and Mast Arms	Per Douglas County Standard Signal Details