

4.3.7 Electrical Details

ELECTRICAL DETAILS		
MMCD Standard Detail Drawing		Saanich Supplemental Specification
E1.1	Concrete Base Index	
E1.2	Type A and B Sonotube Concrete Bases	Not generally used by Public Works.
E1.3	Type C, C1, C2 & C3 Trapezoidal Shape Concrete Bases	Public Works usually uses a poured in place base.
E1.4	Type C, C1, C2 & C3 Trapezoidal Shape Concrete Bases	Public Works usually uses a poured in place base.
E1.5	Type C4 & C5 Spread Footing Shape Concrete Bases	Not generally used by Public Works.
E1.6	Type C4 & C5 Spread Footing Shape Concrete Bases	Not generally used by Public Works.
E1.7	Type C4 & C5 Spread Footing Shape Concrete Bases	Not generally used by Public Works.
E1.8	Type E2 Trapezoidal Shape Concrete Base	Public Works usually uses a poured in place base.
E1.9	Type E2 Trapezoidal Shape Concrete Base	Public Works usually uses a poured in place base.
E1.10	Types F1, L1, & S1 Spread Footing Shape Concrete Bases	Not generally used by Public Works.
E1.11	Types F1, L1, & S1 Spread Footing Shape Concrete Bases	Not generally used by Public Works.
E1.12	Types F1, L1, & S1 Spread Footing Shape Concrete Bases	Not generally used by Public Works.
E1.13	Types F2, L2, & S2 Trapezoidal Shape Concrete Bases	Not generally used by Public Works.
E1.14	Types F2, L2, & S2 Trapezoidal Shape Concrete Bases	Not generally used by Public Works.
E1.15	1" dia Anchor Bolts	Public Works uses bolts with a hooked end instead of a plate and nuts
E1.16	Anchor Bolt Cage for Type 6, 7, & S Poles	Public Works welds rebar ties to bolts to keep shape during installation.

E1.17	Anchor Bolt Cage for Type L Poles	Not generally used by Public Works.
E1.18	Concrete Base for Post Mounted Flasher Luminaire (Precast)	Not generally used by Public Works.
E1.19	Pole Base Installation Details	
E1.20	Pole Base Installation Details	
E2.1	Type M (Nema Cabinet) Concrete Controller Base	Public Works pours the bases in place.
E2.2	Type P (Nema Cabinet) Concrete Controller Base	Not generally used by Public Works.
E2.3	Model 170 Controller Base	Not generally used by Public Works.
E2.4	Controller Installation (Type P and M Cabinets)	Not generally used by Public Works.
E2.5	Controller Installation (Model 170 Cabinets)	Not generally used by Public Works.
E2.6	Type F Controller Pedestal	Not generally used by Public Works.
E2.7	Type F Controller Pedestal	Not generally used by Public Works.
E3.1	Round Plastic Junction Boxes	Not generally used by Public Works.
E3.2	Type 37 and 66 Concrete Junction Boxes	
E3.3	Large Concrete Junction Boxes	Not generally used by Public Works.
E3.4	Large Concrete Junction Boxes	Not generally used by Public Works.
E3.5	Concrete Vault	Not generally used by Public Works.
E3.6	Concrete Vault	Not generally used by Public Works.
E4.1	Inderground Conduit in Paved Area	
E4.2	Inderground Conduit in Non - paved Area	
E5.1	Luminaire Pole (Type 2 Shaft)	For single light, use continuous shaft with no flange.
E5.2	Luminaire Pole (Type 2 Shaft)	
E5.3	Signal Pole (Type 1 Shaft)	
E5.4	Signal Pole (Type 1 Shaft)	
E5.5	Signal Pole (Type 3 Shaft)	

E5.6	Signal Pole (Type 3 Shaft)	
E5.7	Signal Pole (Type 6 Shaft)	
E5.8	Signal Pole (Type 6 Shaft)	
E5.9	Signal Pole (Type 7 Shaft)	
E5.10	Signal Pole (Type 7 Shaft)	
E5.11	Signal Pole (Type S Shaft)	Not generally used by Public Works.
E5.12	Signal Pole (Type S Shaft)	Not generally used by Public Works.
E5.13	Signal Pole (Type S Shaft)	Not generally used by Public Works.
E5.14	Signal Pole (Type L Shaft)	Not generally used by Public Works.
E5.15	Signal Pole (Type L Shaft)	Not generally used by Public Works.
E5.16	Signal Pole (Type L Shaft)	Not generally used by Public Works.
E5.17	Signal Pole (Type 4,4A & 5 Shaft)	
E5.18	Signal Pole (Type 4,4A & 5 Shaft)	
E5.19	Post Top Luminaire Poles	Use a 5.5 meter pole.
E5.20	Post Top Luminaire Poles	
E5.21	Service Base	Not generally used by Public Works.
E5.22	Pole Accessories	
E6.1	Post Top Signal Head Mounting	
E6.2	Side of Pole Signal Head Mounting (Method 1)	Not generally used by Public Works.
E6.3	Side of Pole Signal Head Mounting (Method 2)	
E6.4	Side of Pole Signal Head Mounting (Method 3)	
E6.5	Overhead Signal Head Mounting (Spring Cushion End Hanger Method)	
E6.6	Overhead Signal Head Mounting (Spring Cushion Mid Hanger Method)	
E6.7	Overhead Signal Head Mounting (Plumbizer Method)	

E6.8	Overhead Signal Head Mounting (Plumbizer Method)	
E6.9	Overhead Signal Head Mounting (Adjustable Bracket Method)	
E6.10	Overhead Signal Head Mounting On Pole Arm (Ball Hanger Method)	Not used by Public Works.
E6.11	Overhead Signal Head Mounting On Span Wire (Ball Hanger Method)	Not used by Public Works.
E6.12	Audible signals	Mount audible signal on top of signal head.
E7.1	Pedestrian Pushbutton with Separate Sign	
E7.2	Pedestrian Pushbutton with Integral Sign	
E7.3	Pedestrian Pushbutton Post	
E8.1	Underground Dip Service	
E8.2	Service Panel in Service Base (Mounting Details)	Do not use.
E8.3	Service Panel in Service Base (Mounting Details)	Do not use.
E8.4	60A Streetlight and 100A Streetlight/Traffic Signal Service Panel in Service Base	Do not use.
E8.5	60A (120/240V) Street Lighting Service Panel in Service Base (Wiring Diagram)	Do not use.
E8.6	100A (120/240V) Traffic Signal/ Street Lighting Service Panel in Service Base (Wiring Diagram)	Do not use.
E8.7	100A Traffic Signal/ Street Lighting Service Panel on Pole (Mounting Details)	Public Works uses simple weatherproof pole mounted boxes.
E8.8	100A Traffic Signal/ Street Lighting Service Panel on Pole (Mounting Details)	Public Works uses simple weatherproof pole mounted boxes.

E8.9	100A (120/240V) Traffic Signal/ Street Lighting Service Panel (Wiring Diagram)	Public Works uses simple weatherproof pole mounted boxes.
E8.10	Service Ground Plate Installation Detail	
E8.11	Luminaire Wiring in Pole Handhole	
E8.12	Signal Cable Wiring in Pole Handhole	
E8.13	Signal Cable Colour Code Sample (Ontario Spec Method)	
E8.14	Minimum Clearances to Overhead Powerlines	
E8.15	Pole Mounted Receptacle	
E8.16	Telephone Demarcation Enclosure Mounting Details on Controller or Pole	Not generally used by Public Works.
E8.17	Telephone Conduit on Utility Pole	Not generally used by Public Works.
E8.18	Conduit Tie-in to Telephone Vault, Manhole or Junction Box	
E9.1	Typical Detector Loop types	
E9.2	Detector Loops	
E9.3	Detector Loops	
E9.4	Detector Loop to Shielded Cable Splices	
E9.5	Detector Loop Procedures and Rules	
E9.6	Detector Loop Procedures and Rules	
E9.7	Typical Layout for Diamond and Round Traffic Signal Detector Loops	
E9.8	Pre-formed Diamond Detector Loop Installation Details	
E9.9	Pre-formed Diamond Detector Loop Installation Details	

E9.10	Pre-formed Diamond Detector Loop Installation Details	
E10.1	Flasher Luminaire and Signs on Perforated Steel Tubing	Not generally used by Public Works.
E10.2	Flasher Luminaire and Signs on Perforated Steel Tubing	Not generally used by Public Works.
E10.3	Flasher Luminaire and Signs on Steel Pole	Not generally used by Public Works.
E10.4	Flasher Luminaire and Signs on Steel Pole	Not generally used by Public Works.
E11.1	Overhead Extruded Aluminum Advance Warning Sign Assembly Details	Not generally used by Public Works.
E11.2	Overhead Extruded Aluminum Advance Warning Sign Installation Details	Not generally used by Public Works.
E11.3	Overhead Extruded Aluminum Advance Warning Sign Installation Details	Not generally used by Public Works.
E11.4	Overhead Extruded Aluminum Sign Installation Details	Not generally used by Public Works.
E11.5	Overhead Extruded Aluminum Sign Installation Details	Not generally used by Public Works.
E11.6	Overhead Extruded Aluminum Sign Assembly Details	Not generally used by Public Works.
E11.7	Overhead Extruded Aluminum Sign Assembly Details	Not generally used by Public Works.
E11.8	Overhead Extruded Aluminum Sign Assembly Details	Not generally used by Public Works.
E11.9	Overhead Extruded Aluminum Sign Luminaire Installation Details	Not generally used by Public Works.
E11.10	Junction Box Installation Details on Sign Arms	Not generally used by Public Works.