

Alcott

ASSEMBLE WITH CARE! Pangard II® Polyester Powdercoat is a strong, long-lasting finish. To protect this finish during assembly, place unwrapped powdercoated parts on packaging foam or other non-marring surface. Do not place or slide powdercoated parts on concrete or other hard or textured surface – this will damage the finish causing rust to occur. Use touch-up paint on any gouges in the finish caused by assembly tools.

Landscape Forms is not responsible for site preparation and footings. Footing recommendations are included in these instructions.

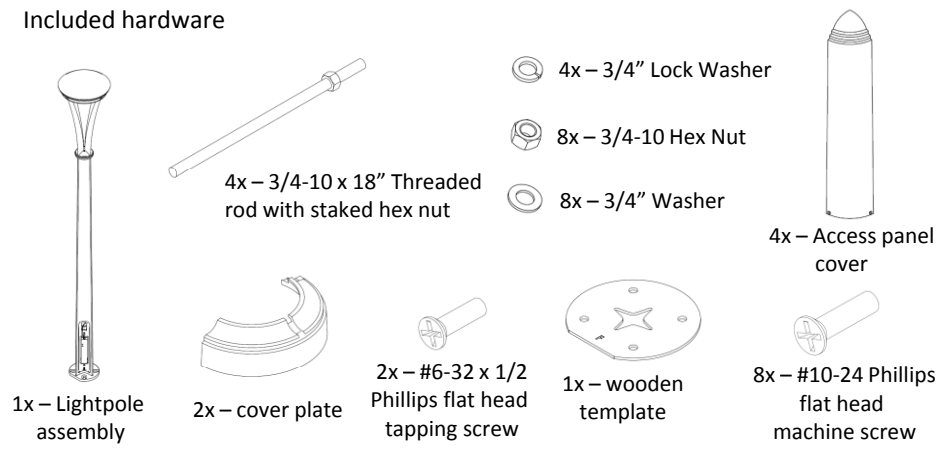
CAUTION! This unit is heavy. To avoid injury or damage to the finish, we recommend using a crane or lift for hoisting the unit onto the anchors.

LIGHTING LAYOUT RECOMMENDATIONS:

Although light pole spacing is the responsibility of others, the following information can be used to determine appropriate spacing:

Alcott distribution is an IES Type 3 or Type 5 pattern and meets or exceeds the IESNA DG-5 standard for Park walkways, Class 1 bikeways, and Residential sidewalks at 80' pole spacing, Intermediate sidewalks at 60' pole spacing, and Commercial sidewalks at 50' pole spacing. This is achieved by meeting maintained horizontal illuminance levels and an average:min uniformity ratio. Alcott, at 50' pole spacing, also meets the "Special Conditions" criteria where increased vertical illuminance levels are needed for safety by improving facial recognition and peripheral detection of movement. Outside of North America, Alcott meets CIE-136-2000 for Residential Parks at 60' pole spacing and City Center or Arcades at 50' pole spacing.

Included hardware



Tools Required

- Safety glasses
- Wrench, 1-1/8" size
- Screwdrivers
- Wiring tools and connectors
- Proper personnel, crane or lift for hoisting unit onto anchors
- Level
- Dimming control, if required

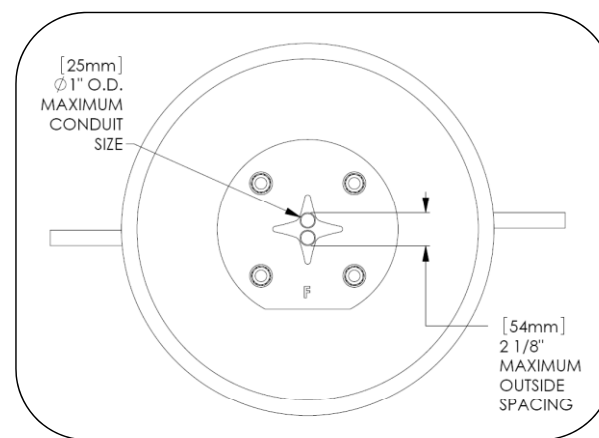
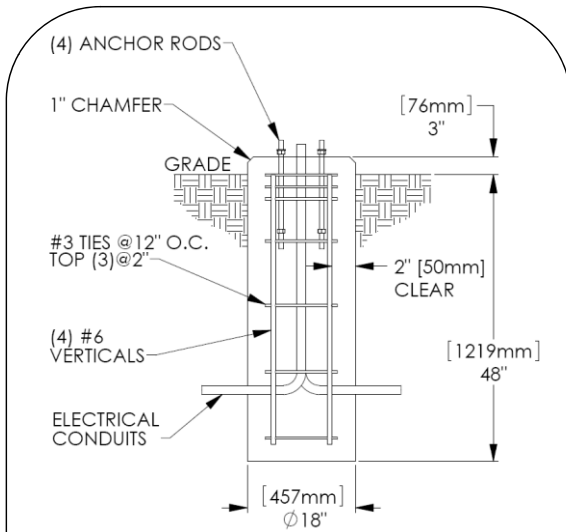


Fig.1 – Maximum conduit size

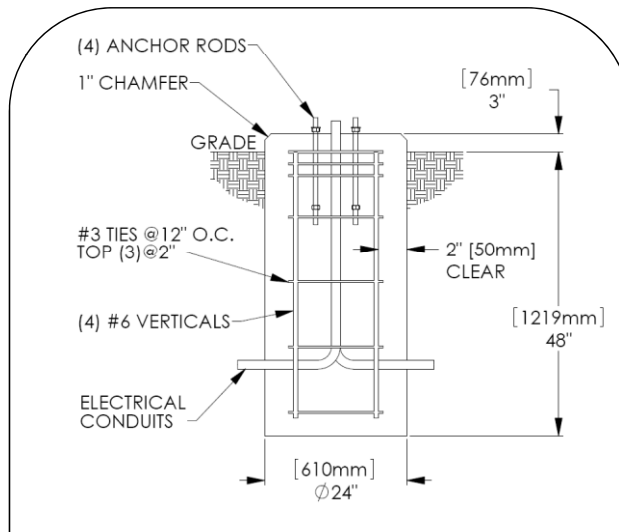


DESIGN DATA:
90 MPH BASIC WIND SPEED
Importance Factor (I_w) 0.87
Exposure (all directions) B

LIMITATIONS:
1. Allowable lateral passive soil pressure used for design of footing, $P = 100$ psf

NOTES:
Concrete strength: $f'c = 3000$ psi
Reinforcing Steel: ASTM A615,
 $F_y = 60,000$ psi
Anchor rods: ASTM F1554 Grade 36,
 $F_y = 36,000$ psi
Design based on a light pole with a maximum projected area of 1125 in²

Fig.2 – Minimum Caisson Footing for 90mph basic wind speed



DESIGN DATA:
120 MPH and 140 MPH BASIC WIND SPEED
Importance Factor (I_w) 0.77
Exposure (all directions) C

LIMITATIONS:
1. Design conditions assumed were medium clay or medium compacted sand. Consult with a geotechnical engineer to determine soil classification.
2. If poor soil conditions exist, depth shall be 6'-0".
3. Allowable lateral passive soil pressure used for design of footing, $P = 200$ psf

NOTES:
Concrete strength: $f'c = 3000$ psi
Reinforcing Steel: ASTM A615, $F_y = 60,000$ psi
Anchor rods: ASTM F1554 Grade 36,
 $F_y = 36,000$ psi
Design based on a light pole with a maximum projected area of 1125 in²

Fig.3 – Minimum Caisson Footing for 120mph and 140mph basic wind speed

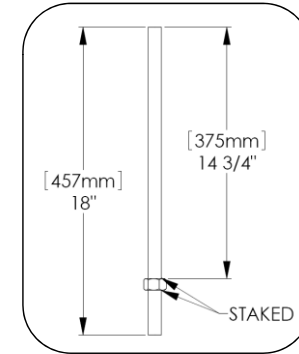


Fig. 4 - Anchor rod detail

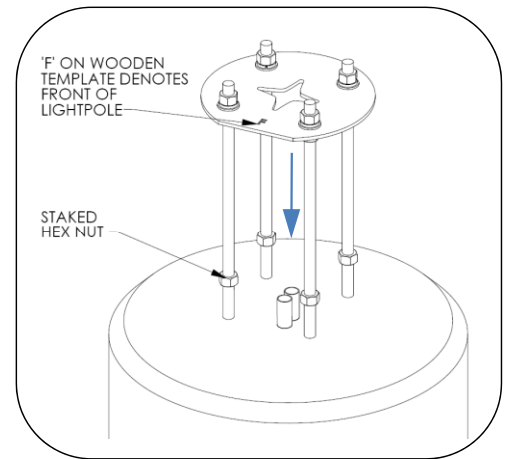


Fig. 5 – Install anchors

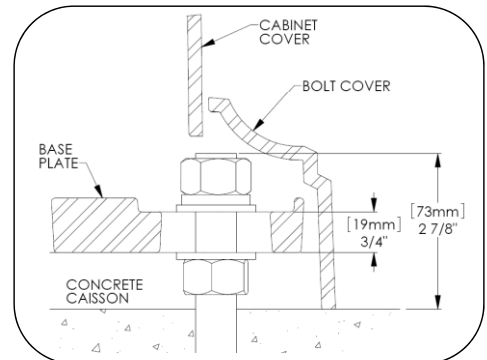


Fig. 6 – Proper installed anchor height

INSTALLATION PROCEDURE FOR LIGHT POLE:

1. Prepare footing as required by local codes.
2. Install staked anchor bolts, hex nuts, washers and wooden template as shown in Fig 5. Level template in all directions.
3. After footing has properly cured, remove wooden template. Do not remove lower hex nuts or washers.
4. Lift the pole into position over the installed anchor bolts as shown in Fig. 6. Ensure that the base plate is resting on all four washers.
5. Install washer, lock washer and hex nut as shown in Fig. 7.
6. Plumb and level the pole and tighten all anchors.

INSTALLATION PROCEDURE FOR CABINET COVER:

1. Set cabinet cover in position, flush to surface and above the light cabinet housing.
2. Slide cabinet cover down so that alignment feature (see Fig. 8a) is inside the notch of the light cabinet housing and align the screw holes.
3. Install two screws as noted in Fig. 8.
4. Repeat for remaining three cabinet covers.

INSTALLATION PROCEDURE FOR COVER PLATE:

1. Slide two cover plate halves together around the lightpole, aligning notches in cover plate with the side extrusions of the pole.
2. Install tapping screw as noted in Fig. 9, two places.
3. Cover plate assembly should rest on grade or base plate.

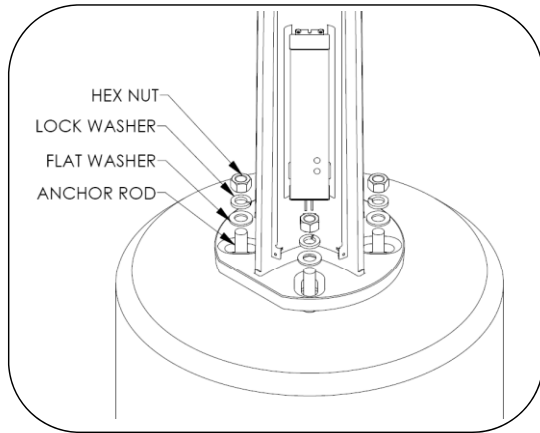


Fig.7 – Install pole and anchors

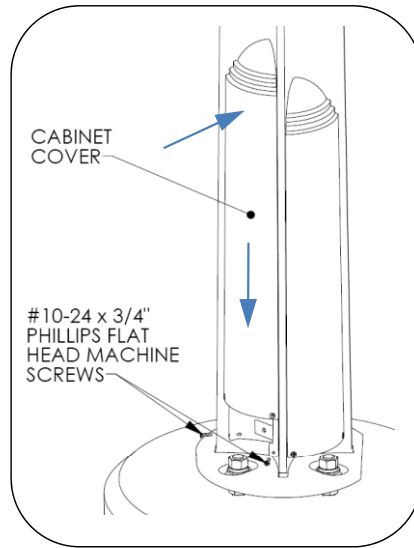


Fig.8 – Install cabinet cover

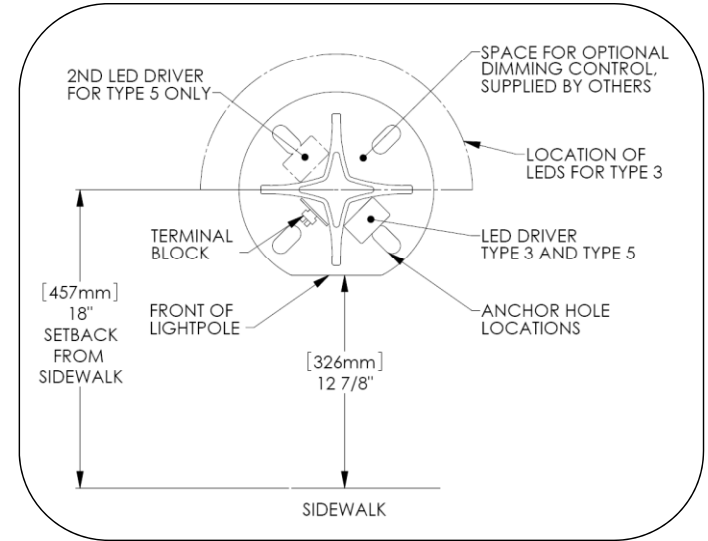


Fig.10 – Section view of cabinet components

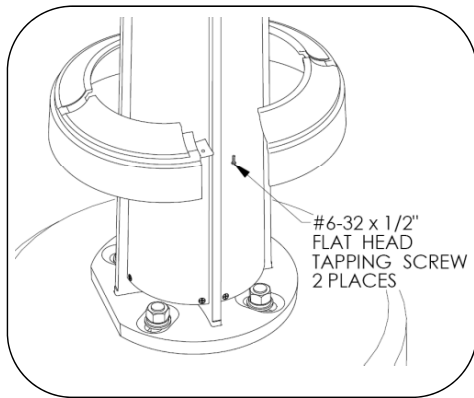


Fig.9 – Install cover plate

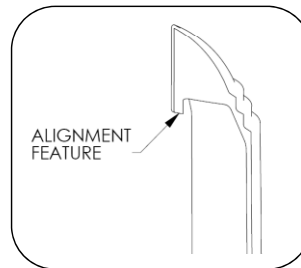


Fig.8a– Cabinet cover detail

PROCEDURE FOR WIRING ALCOTT:

The Alcott pedestrian light is assembled at the factory. The light cartridge is mounted into the head of the pole and will not need to be removed during installation. The LED cartridge is wired to the driver (located in the cabinet at the bottom of the pole) at the factory. Use of LED drivers other than the supplied unit is not recommended.

The following schematics are to be used to connect the unit to line voltage. It is the responsibility of the installer to make sure that all connections are made in accordance with the NEC and local building codes. Connection hardware not included.

Line-in wires should be connected to the terminal block as shown. Dimming control wires are connected to terminal block. Optional dimming control and terminal block connection wires are not included.

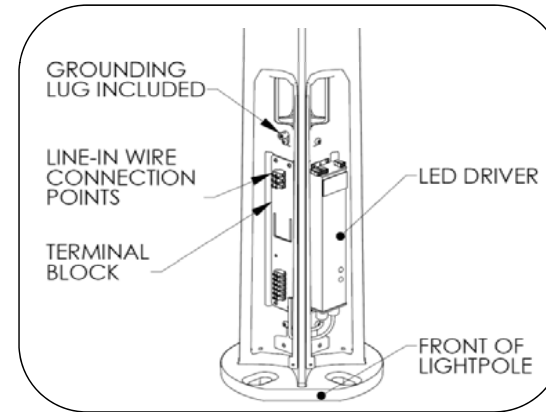


Fig.11 – Access panel removed

***Use only "CLASS 2" power supply**

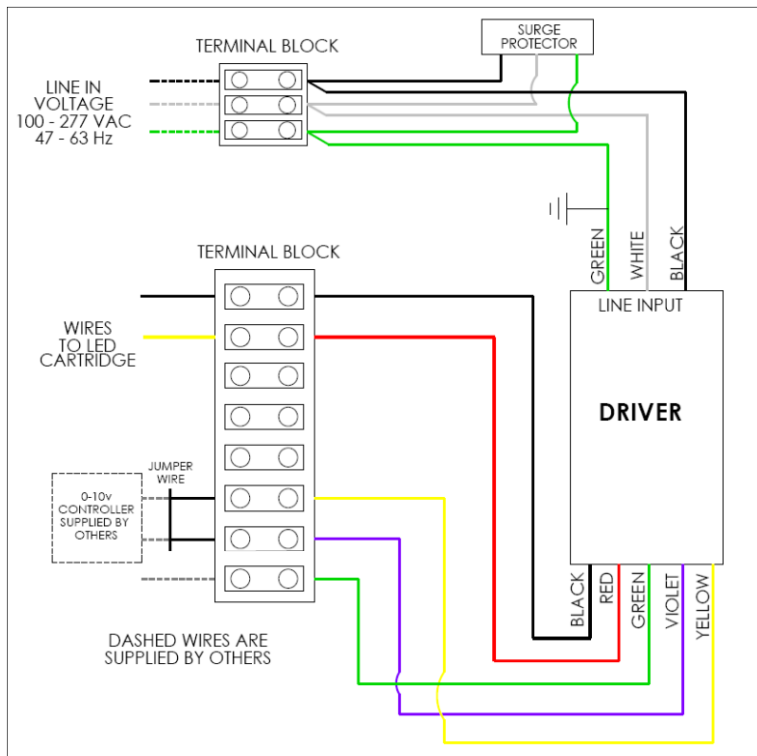


Fig.12– Alcott wiring schematic – Type 3

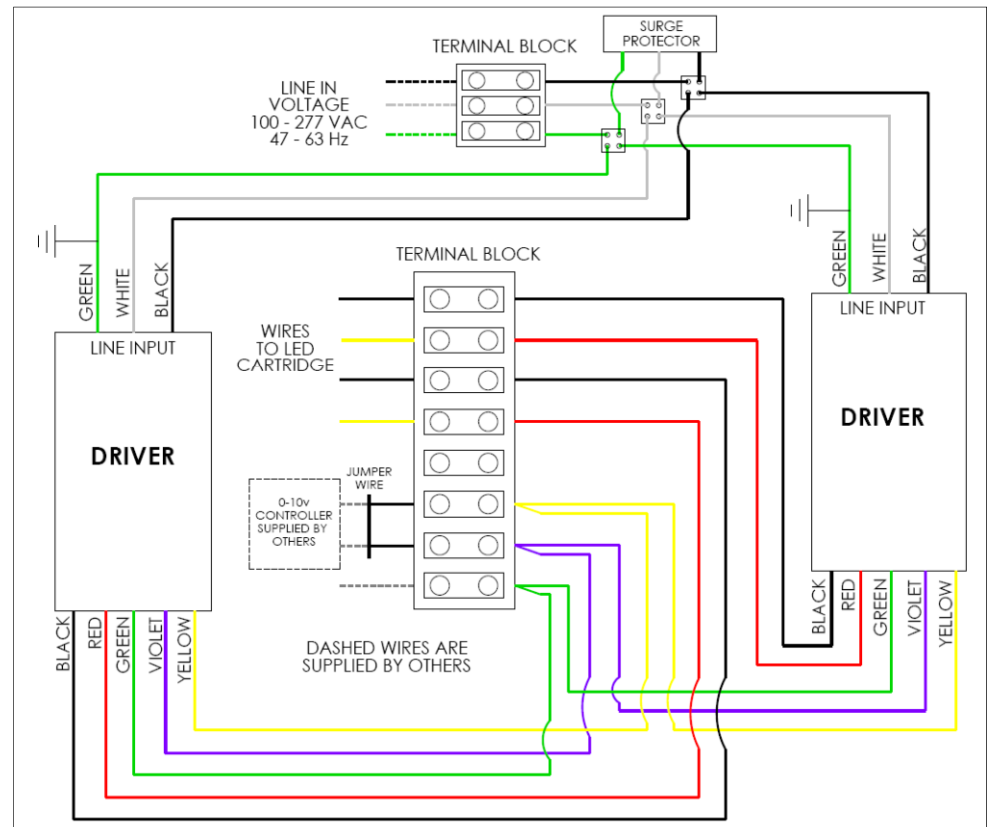


Fig.13– Alcott wiring schematic – Type 5