ELECTRIC SERVICE INSTALLATION

*Typical overhead service shown. Cut pole off for underground service and treat cut surface with preservative. Consult utility company standards for exact requirements.

- 120/240 V, 1-phase, 3-wire, overhead service.
- Down guy and anchor, as needed.
- Service conductors in rigid steel conduit, sized as required.
- Malleable iron conduit clamps at 6' (1.8 m) intervals.
- Service disconnect switch.
- Conduit hub.
- Feeder conductors in rigid conduit to lighting controller.

ANCHOR ROD DETAIL

- Ground rod.
- Ground line.
- No. 6 bare copper wire.

NAVIGATION OBSTRUCTION
LIGHTING CONTROLLER, 240V

**Engraved name plate.**

- 12 x 9 x 3 (305 x 229 x 76) watertight cover mounted inside door with as-built drawings and schematics.
- Controller enclosure.
- 1/4 (6.4) dia. anchor rod.
- 1 (25) 45° Chamber.
- Concrete foundation.
- Additional wiring window as needed.

Foudnation (Plan)

(Work pad not shown.)

* Size larger as needed.

All dimensions are in inches (millimeters) unless otherwise shown.
Controller enclosure, minimum dimensions: 30H x 44W x 26D = (1500 x 1120 x 660)

Insulated mounting board.

Service conductors sized as required.

Feeder conductors, sized as required.

Neutral bar. Ground rod in ground bar.

Equipment ground bar.

Navigation lighting circuits.

Roadway lighting circuits.

Terminal block sized for conductors as shown on plans.

* Size larger as needed.

Photocell with integral surge arrester for roadway lighting.

Photocell with integral surge arrester for navigation lighting.

HAND-OFF-AUTO selector switch.

100 amp*, electrically held contactor.

60 amp*, electrically held contactor.

15 amp, 1-pole circuit breaker.

20 amp, 2-pole circuit breaker (two spare required but not shown).

20 amp*, single-pole circuit breaker (two shown, quantity as required).

Surge arrester.

GFCI duplex receptacle.

Single-pole, single-throw switch.

Incandescent luminaire, enclosed and gasketted with 100 watt lamp.

Service disconnect switch - 2-pole, 3-wire, 100 amp*, fused at 100 amp*, solid neutral in NEMA 4X enclosure having lockable external handle.

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