LIGHTING CONTROLLER, 480V

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.)

- Size larger as needed.
- When cold sequencing is required, provide a meter disconnect switch as directed by Utility Company.

FOUNDATION (PLAN)

LIGHTING CONTROLLER

ANCHOR ROD DETAIL

All dimensions are in inches (millimeters) unless otherwise shown.
**CONTROL SCHEMATIC**

1. Photocell with integral surge arrester for roadway lighting.
2. Photocell with integral surge arrester for obstruction warning lighting.
3. HAND-OFF-AUTO selector switch.
4. Transformer - 1 KVA*, 480V primary, 120/240V secondary, single phase, 60 Hz.
5. 15 amp, 2-pole circuit breaker.
6. 20 amp*, single-pole circuit breaker (two shown, quantity as required).
7. Surge arrester.
8. Photocell with integral surge arrester for roadway lighting.
10. Photocell with integral surge arrester for roadway lighting.
11. Photocell with integral surge arrester for roadway lighting.
12. Photocell with integral surge arrester for roadway lighting.
13. Photocell with integral surge arrester for roadway lighting.
14. Photocell with integral surge arrester for roadway lighting.
15. Photocell with integral surge arrester for roadway lighting.

**Sizing and Details**

1. Controller enclosure, minimum dimensions: 59H x 44W x 26D (1500 x 1120 x 660)
2. Insulated mounting board.
3. Service conductors, sized as required.
4. Feeder conductors, sized as required.
5. Neutral bar in access well.
6. Equipment ground bar.
8. Obstruction warning lighting circuits.
9. Ground rod in ground bar.
10. Terminal block sized for conductors as shown on plans.

**Additional Information**

- **HAND-OFF-AUTO** selector switch.
- **20 amp*, single-pole circuit breaker** (two shown, quantity as required).
- **60 amp*, electrically held contactor**
- **100 amp*, electrically held contactor**
- **15 amp, 1-pole circuit breaker**
- **20 amp, 2-pole circuit breaker** (two shown, quantity as required).
- **Service disconnect switch - 2-pole, 3-wire, 100 amp*, fused at 100 amp*, solid neutral in NEMA 4X enclosure having lockable external handle**
- **60 amp*, 2-pole circuit breaker**
- **30 amp*, 2-pole circuit breaker**
- **15 amp, 2-pole circuit breaker**
- **30 amp*, 2-pole circuit breaker**
- **Transformer - 1 KVA*, 480V primary, 120/240V secondary, single phase, 60 Hz**
- **Standard 826006-03**

**Obstruction Warning Lighting Controller, 480V**

** Illinois Department of Transportation**
**January 1, 2022**
**APPROVED**
**January 1, 2022**
**ENGINEER OF DESIGN AND ENVIRONMENT**
**ISSUED**
**1-1-12**
**PASSED**
**ELECTRICAL AND MECHANICAL UNIT CHIEF**

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* Size larger as needed.