See legend for number of luminaires, lamp type, phase and light distribution.

Lift cable (1/8" stainless steel aircraft cable) 3 minimum

Pole cable & hardware

Pole Cable 10/3 500M-A

Lift Cable Terminator

SCHEMATIC OF REMOTE AUXILIARY POWER UNIT

3" hex drive 3" round shaft

Portable drill

Slip clutch

Supply cable connection

1.5 kVA dry type transformer mounted in N.E.C.A. 30 portable enclosure. Provides 208V grounded receptacle for electric drill & receptacle for supply cable. See schedule for sizes and colors.

25 kV, remote control cable

NEC A

REMOTE CONTROL SWITCH

POLE DETAILS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

HIGHMAST LIGHTING

Pole Cable 10/3 500M-A

Circuit Breaker Cable

Hand hole

Wind

Lock hole

Base plate

Surge protector shall be located in pole with circuit breaker.

High metal pole

Circuit Breaker Cable

Grounding lug.

Positive drive reversible winch. The complete enclosed drive gear assembly is made with the winch gear train in the same enclosure.

Luminaires support ring

Spring supported centering arm provided to center the luminaires ring.

Luminaires

Lift cable terminator

Lift cable

Winch cable

Circuit Breaker Cable

Hand hole

Wind

Lock hole

Base plate
LUMINARIE SPECIFICATIONS

The reflector with its stainless cover shall be firmly attached to a cast ring. The ring shall have trapezoid sides in the upper surface such that the reflector/reflector opening may be readily attached to, or detached from, the luminarie bracket entry and lens support assembly without removing the lens from the bracket arm.

Each luminarie shall contain an integral dark-regulating type bulb reinforced by 400 volt, 0.01, and 0.0002 factors of more than 90%. The luminarie shall be enclosed in an obstruction housing which hinged to the luminarie bracket entry and lens support assembly. It shall be readily removable without removing the luminarie from the bracket arm.

The luminarie shall be attached to the bracket arm by means of a broken entry and lens support assembly. The assembly shall include a step welds etchedgrenner for 5° gauge with precaution for 3° adjustment for leveling the luminarie. An enclosed horizontal base shall be included such that all electrical connections to the luminarie will be protected from exposure to weather.

All electrical connections shall be made waterproof or be made by weather-resistant material. All luminarie shall be ANSI/ IES light distribution as listed in tables. Each luminarie shall be labeled with a permanent label which assigns the type of lamp, voltage, phase, power, contact type, bulb size, rated power, ANSI light distribution, and other information that a complete replacement can be readily made.

The augment attention is directed to those Sloan elevators detailing the mounting of luminarie at the top of the luminarie. Particular attention is directed to alignment of luminarie light distribution. Special attention shall be given to the mounting of the luminarie at the junction of the two sections to ensure that the proper location of the bulb is properly protected even when the luminarie is subjected to severe positions.

The mounting attention is directed to the proper elevators detailing the mounting of luminarie at the top of the luminarie. Particular attention is directed to alignment of luminarie light distribution. Special attention shall be given to the mounting of the luminarie at the junction of the two sections to ensure that the proper location of the bulb is properly protected even when the luminarie is subjected to severe positions.

Lowering System Specifications

The lowering system consists of the following:

A. Heat free zone
B. luminarie ring
C. Cables
D. Winch
E. Portable power unit (per project)

The heat free zone shall extend entirely from the top of the plate to the heat zone. The heat zone shall be covered and insulated. The heat zone shall be designed so that the cables are held to the pot zone by means of a steel wire rope, heat zone, and insulated cables. All stainless steel cables shall be continuously supported by insulated steel cable with proper insulation. Three 3.5 stainless steel cables of 3/8" or greater diameter shall be provided.

The pole shall be attached to the luminarie ring with a waterproof connector cap of wire wrapping the pull of the weight of the pole cables. Where the wire run is required to be pulled over a pole or over the wire run, the shortest working distance in the outer fiber of the wire rope shall not exceed 10% of the wire rope manufacturer's rated ultimate strength.

Drum design shall be used to reduce the effort of the operator. The power cord shall travel on a wheel to provide for the wheel of 8" or larger. Each end of the wheel shall be on a separate roller with a keeper to prevent the cable from juggling out of the roller track.

The heat free zone shall also include three (3) latch located to support the luminarie ring assembly when the lowering device is not in operation. The latch shall be actuated by a latching mechanism and lowered by the lowering device. Loading of luminarie ring shall be aligned by indicators visible from ground. All running parts of the lowering mechanism shall be protected by guards. The lowering mechanism shall be provided with a safety device to prevent operation of a motor or other electrical device when the lowering mechanism is not properly aligned.

The lowering mechanism shall not require adjustment after the initial installation.

The lower position shall be determined by a minimum of 6" x 2" x 3" gage steel channel reinforced in accordance with ASTM A363. These gage steel channels shall be the approximate number of 5" steel pipes mounting areas. The luminarie ring shall be secured with Type 1 steel or special reinforced Type 50" power cable with suitable soldering material and clips for proper operation. Type 50" distribution wiring in insulation suitable for at least 110°C. All power cables shall be attached to the luminaire with sash and wire grip wire. A 600 watt filament bulb, completely protected shall be included in the wire grip wire. A 600 watt filament bulb shall also be included in the wire grip wire. A 600 watt filament bulb shall also be included in the wire grip wire. A 600 watt filament bulb shall also be included in the wire grip wire.

The ultimate support of the luminarie ring shall be dependent on the lowering and releasing caliper.

The降低 efficiency may be adjusted or altered in some cases. The luminarie shall be as specified.

All luminarie shall be equipped with a reinforced bundling approximately 50% above the plate. The luminarie shall be 50° to 100° high with a minimum. Drilling through the bundling shall be done for the plate. The plate height or to be adjusted. A cover cap to the luminarie frame shall be provided.

All luminarie shall be equipped with a reinforced bundling approximately 50% above the plate. The luminarie shall be 50° to 100° high with a minimum. Drilling through the bundling shall be done for the plate. The plate height or to be adjusted. A cover cap to the luminarie frame shall be provided.

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FOOTING

The foot foundation shall be constructed in accordance with the details shown in the plans. Anchor bolts per manufacturer's Specifications. Substructure shall be supplied by the engineer of record prior to purchase.

One leveling nut, one hold-down nut, and one locking/jam nut shall be supplied per anchor bolt. All leveling nuts are to be threaded, sewed, etc. anchor bolts as specified in accordance with ASTM A525 or by the nature of the material used in their fabrication.

POLE SPECIFICATIONS

The pole shall be bolted to the base plate, gusset or ground, high strength steel having a minimum yield strength of 50 ksi. All material shall be single thickness steel pipe with no convolutions. Steel shall be as specified.

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**Notes:**

1. All pull boxes and pole bases, except those of pole base, shall be erected in accordance with Section 630 of the Standard Specifications for Roads and Bridges Construction.

2. 1/4 AWG insulated (TW Green) stranded CU wire connecting all poles, and insulated (1/4 THHN or THWN) stranded copper circuit conductors in schedule 40 PVC conduit. Circuit conductors and conduit wire as shown in plan. (Typical)

3. Slides to be placed around on Power and Pull Boxes.

4. For Pull Boxes between Poles refer to Index IP500 sheet 2 of 3.
REINFORCEMENT LAYOUT

SLAB DIMENSIONS

NOTES:
1. Use clean free draining sand c 5% passing No. 200 sieve for base (4').
2. Welded wire fabric shall meet the requirements of ASTM A485.
3. Concrete strength of 28 days shall be 1500 psi.
4. Outside edges of slabs shall be cast against formwork.
5. The 4' thick expansion joint between shaft and slabs shall be sealed with a hot poured elastomeric joint sealer.
6. Concrete slabs around pole and pull boxes shall be placed under the approved unit prices for Class F Concrete (Wisconsin Indianola). All reinforcing steel (if used) shall be included in the prices for Class F Concrete (Wisconsin Indianola).
7. The pull box shown is 1'x3' x 1' pull box approved under Section 625 of the Standard Specifications may be used.

SHAFT LOCATION

PULL BOX LOCATION

SECTION C-C

SLAB DETAILS

HIGHMAST LIGHTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION