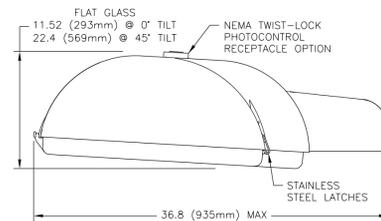


QUANTITY TAKEOFF

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY
500-3101	CLASS A CONCRETE	CY	5
511-1000	BAR REINF STEEL	LB	700
681-4110	LIGHTING STANDARD, 30 FT MH, POST TOP	EA	41
681-6346	POST TOP LUMINAIRE, TP3, 250W, HPS	EA	41
682-6120	CONDUIT, RIGID, 2 IN	LF	50
682-6218	CONDUIT, NONMETL, TP 2, 3/4 IN	LF	410
682-6222	CONDUIT, NONMETL, TP 2, 2 IN	LF	8,000
	WEATHERPROOF METAL FLEX CONDUIT, 2 IN	LF	2
682-9021	ELECTRICAL JUNCTION BOX, CONC GROUND MOUNTED (11x18x18)	EA	7
	WALL MOUNT BOX (4x12x12 NEMA 4X)	EA	41
682-9020	ELECTRICAL JUNCTION BOX, SURFACE, (18x18x6)	EA	1
682-9010	SVC POLE RISER	EA	2
682-1408	CABLE, TP XHHW, AWG NO 2	LF	18,400
682-1405	CABLE, TP XHHW, AWG NO 8	LF	12,000
682-1404	CABLE, TP XHHW, AWG NO 10	LF	1,600
	RELOCATED TYPE E POLE/FIXTURE	EA	4
	REMOVAL OF TYPE E POLE/FIXTURE	EA	5



FEATURES

Die cast aluminum housing with electrocoat primer and powder coat paint standard. Concealed continuous door gasket seals entire fixture against dirt, dust and insects. Tool-less entry. Multiple photometric configurations and distributions (flat, sag and prismatic). Tenon mounting w/ full range of adjustability from 0 to 45 degrees. Dark Sky Friendly when using flat glass and horizontal mounting. Distribution shall be type II narrow roadway prismatic glass.

Mechanical Construction:
The housing, door and fitter shall be die cast aluminum. They shall undergo a six stage cleaning and pretreatment process and overcoated with an electrostatically applied 2 to 4 mil coat of TGIC polyester powder paint cured at 425°. The finish shall withstand a 160 inch-pound impact measured with a standard Gardner impact tester. It shall have passed a 1000 hour salt spray test as specified by ASTM B-117. It shall exhibit no cracking or loss of adhesion from a 180° bend over a 1/8" mandrel diameter per ASTM D522. All external hardware shall be corrosion resistant. Housing access shall not require tools. The fitter shall be built in and accommodate a standard 2 inch tenon or arm. Units can be tilted between 0° and 18° or 27° and 45°. Electrical connection shall be inside the fitter assembly and not require fixture entry. A terminal block located inside the fitter shall be provided if specified.

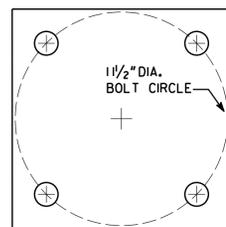
Quick Disconnect Electrical Assembly:
The fixture door shall contain all ballast components and be hinged for fast tool-free removal and replacement. Complete replacement shall take less than 60 seconds.

Ballast:
Shall be copper wound, high power factor type as specified. It shall reliably start the lamp in ambient temperatures to minus 40°F. The plug-in HPS starter shall be totally encapsulated with a material that electrically and thermally insulates all components from lamp and ballast heat. A protected starter, if specified, shall sense an inoperative lamp and shut down automatically to prevent continuous pulsing and thermal damage to itself and the ballast secondary winding. The Mongoose luminaire is UL/CUL listed for 40° ambient.

Optical and Socket Assembly:
The reflector shall consist of high purity (#3002 alloy) aluminum of minimum 0.08" thick sheet. Flat lens shall be 1/8" fully tempered glass. The reflector and lens optical assembly shall be designed to provide the IESNA pattern specified. The socket shall be pulse rated, nickel-plated and lamp grip porcelain enclosed. It shall prevent undue lamp vibration and withdrawal.

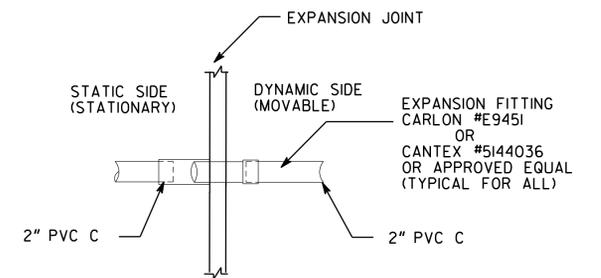
ANSI Lamp Label:
A self-adhesive label shall be provided which identifies the lamp type and size. It shall meet ANSI C-136 standards.

Warranty:
The electrical assembly shall be fully warranted for a period of 6 years and the housing for a period of 2 years from the date of manufacture.



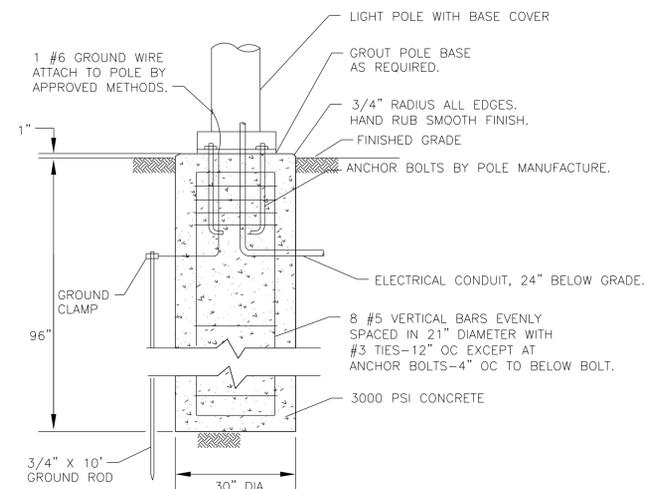
1 FIXTURE A DETAIL

25-017 SCALE: NTS



3 EXPANSION FITTING DETAIL

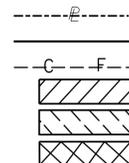
25-017 SCALE: NTS



2 POLE FOUNDATION DETAIL

25-017 SCALE: NTS

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS



HL Heath & Lineback Engineers
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AS-BUILT

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

LIGHTING PLAN
DETAILS & QUANTITY TAKEOFF
S. R. 400/ 1-85
CONNECTOR RAMPS

DRAWING No.
25-017