LC-1 CONTROL INSTALLATION
(TOP VIEW)

- SLOTTED VENT IN UNDERSIDE OF COVER OVERHANG
- PHOTOCELL
- 12" x 9" x 1" POCKET FOR DRAWINGS
- ENGRAVED NAMEPLATE
- LIGHTING
- ALUMINUM CABINET, INSIDE DIMENSIONS NOT LESS THAN 50" x 36" x 17" WITH WEATHER RESISTANT LOCK
- 36" x 30" x 1/2" INSTALLATION MOUNTING BOARD
- INSULATING BUSHING
- DOOR VENTS
- GROUND AND NEUTRAL BARS
- ANCHOR BOLTS 5/8" x 18" HOT-DIPPED GALVANIZED, THREADED AND HOOKED
- 1" x 45° BEVEL
- FINISHED GRADE
- 24"
- 36"
- CONCRETE BASE CLASS SI
- EXOTHERMIC WELD CONNECTION
- CONCRETE FOUNDATION 38" x 19" x 36"
- 5/8" x 10'-0" GROUND ROD
- #6 AWG BARE COPPER GROUND WIRE IN 3#4"C. SCHED. 40 PVC
- 38"

LC-1 FOUNDATION
(TOP VIEW)

- LIGHTING CIRCUIT CONDUITS 1"C. - SCHEDULE 40 PVC (3)
- 2"C. SERVICE CONDUIT - SCHEDULE 40 PVC
- 19"
- 36"
- CONCRETE PAD 38" x 36" x 8" TO BE PLACED IN FRONT OF CONTROL CABINET
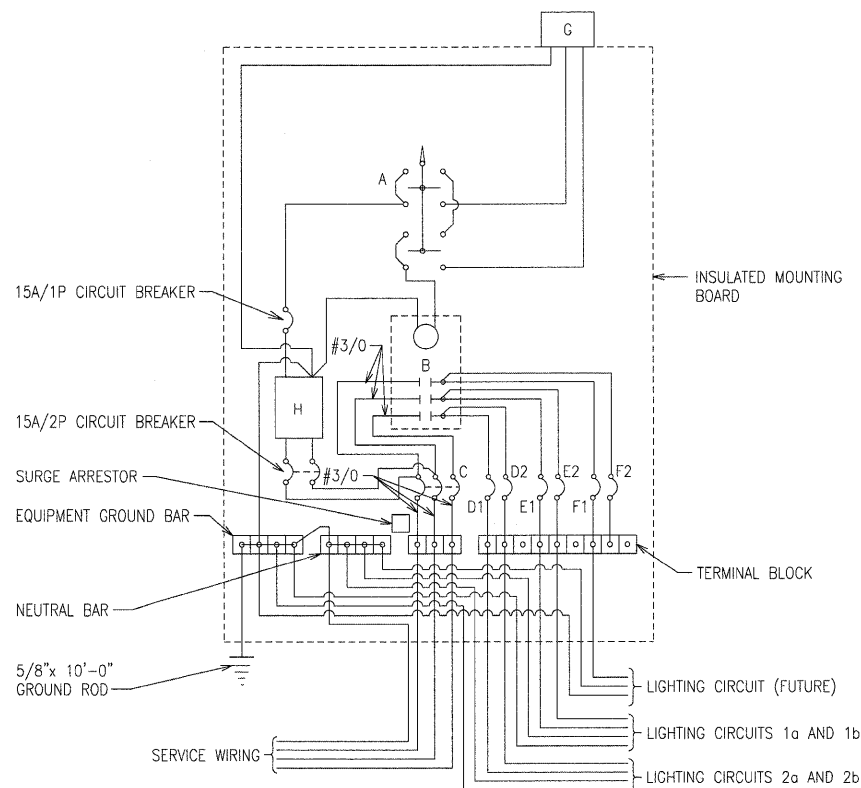- 38"

ANCHOR ROD DETAIL
NOT TO SCALE

- 2"
- 18"
- 3"

A   SELECTOR SWITCH - HAND/OFF/AUTO
B   3 POLE, 200 AMP CONTACTOR, ELEC. OPER., ELEC. HELD
C   3 POLE, 200 AMP SERVICE DISCONNECT
D,E,F   1 POLE, 20 AMP CIRCUIT BREAKERS
G   PHOTOCELL WITH INTEGRAL SURGE ARRESTOR
H   CONTROL TRANSFORMER 480-120V, 1KVA

- INSULATED MOUNTING BOARD
- 15A/1P CIRCUIT BREAKER
- 15A/2P CIRCUIT BREAKER
- SURGE ARRESTOR
- EQUIPMENT GROUND BAR
- TERMINAL BLOCK
- NEUTRAL BAR
- 5/8"x 10'-0" GROUND ROD
- LIGHTING CIRCUIT (FUTURE)
- LIGHTING CIRCUITS 1a AND 1b
- SERVICE WIRING
- LIGHTING CIRCUITS 2a AND 2b
- #3/0

480Y/277V LC-1 SERVICE WIRING DIAGRAM
NOT TO SCALE

LOCATE CONTROL INSTALLATION ADJACENT TO R.O.W. LINE WITH A MINIMUM DISTANCE OF 30' FROM THE EDGE OF PAVEMENT. EXACT LOCATION SHALL BE CONFIRMED BY THE ENGINEER.

THE UNDERGROUND SERVICE ENTRANCE WIRING SHALL NOT EXCEED 150'. TOTAL UNDERGROUND SERVICE BETWEEN THE CONTROL INSTALLATION AND PRIMARY TRANSFORMER SHALL NOT EXCEED 250'.

CONTROLLER CABINET

RATING - THE ENCLOSURE SHALL MEET OR EXCEED THE REQUIREMENTS OF A NEMA 3R AND SHALL BE U.L. LISTED.

MATERIAL - CABINET AND DOOR SHALL BE CONSTRUCTED FROM 5052 H32 SHEET ALUMINUM ALLOY WITH A THICKNESS OF 0.125". ALL WELDS SHALL BE HELIARC AND SHALL BE NEATLY FORMED AND FREE OF CRACKS, BLOW HOLES, AND OTHER DEFECTS.

CABINET FEATURES - TOP SLOPES ½" TO THE REAR, WITH ⅛" x 1" VENT SLOTS UNDER FRONT OVERHANG.

DOOR AND HARDWARE - THE CABINET DOOR SHALL BE HINGED ON THE RIGHT SIDE WHEN FACING THE FRONT OF THE CABINET AND HAVE A CELLULAR NEOPRENE GASKET WHICH IS WEATHER TIGHT. THE DOOR SHALL BE EQUIPPED WITH A TWO POSITION DOOR STOP, ONE AT 90 DEGREES AND ONE AT 120 DEGREES. HINGE SHALL BE 2" OPEN AND CONTINUOUS 14 GAUGE STAINLESS STEEL WITH A ¼" DIA. PIN AND CAPPED AT THE TOP TO RENDER IT TAMPER PROOF. THE HINGE SHALL BE SECURED WITH 1/4-20 STAINLESS STEEL CARRIAGE BOLTS AND ESNA LOCK NUTS. THE LATCHING MECHANISM SHALL BE A THREE POINT DRAW ROLLER TYPE WHICH SECURES THE DOOR AT THE TOP, CENTER, AND BOTTOM. LOCKING RODS SHALL BE ¼" x ¾" ALUMINUM TURNED EDGEWISE WITH 1" NYLON ROLLERS AND THE CENTER CATCH SHALL BE STAINLESS STEEL. THE DOOR HANDLE SHALL BE ¾" DIA. STAINLESS STEEL AND HAVE A PADLOCK HASP. THE DOOR SHALL CONTAIN AN ALL BRASS CORBIN LOCK WITH TWO KEYS.

EQUIPMENT HANDLING - THE CABINET SHALL BE EQUIPPED WITH TWO ADJUSTABLE "C" MOUNTING CHANNELS WELDED TO EACH SIDE WALL AND THE BACK WALL ALLOWING FULL ADJUSTMENT OF SHELVES OR PANELS.

CABINET FINISH - THE OUTSIDE SURFACE OF THE CABINET SHALL HAVE A SMOOTH, UNIFORM, NATURAL ALUMINUM FINISH.