SCHEMATIC DIAGRAM
NO SCALE

NEUT — CONTINUED FROM POWER DIAGRAM, TYP.

120V — 20A — DUPLEX RECEPTACLE GFCI TYPE.

120V — 20A — "TSTAT" HEATING TYPE THERMOSTAT. OPENING ON RISING TEMP. — ENCLOSURE HEATER.

120V — 20A — 5 AMP — "TIME SWITCH TS" — ASTRONOMIC TIME SWITCH.

CONTROL POWER CIRCUIT BREAKER.

5 AMP — "LC" "OFF" — "LC" — LIGHTING CONTACTOR COIL

"HAND" — "TIMER" — XOO — "LC" — LIGHTING CONTACTOR.

OOX — TS — "ON" — G — GREEN PUSH-TO-TEST PILOT LIGHT.
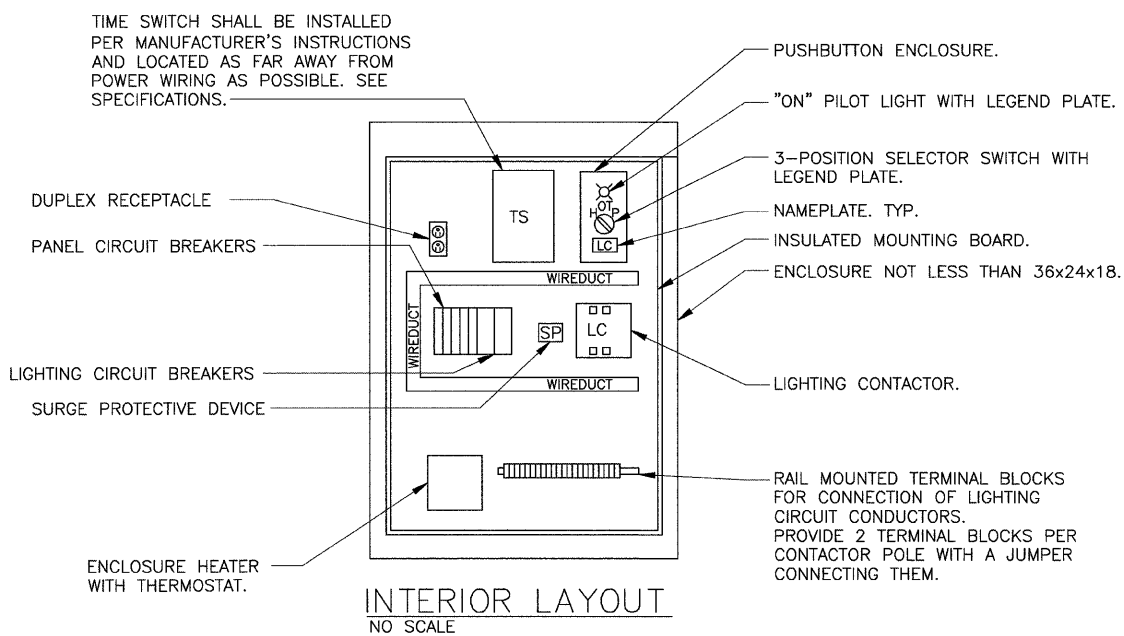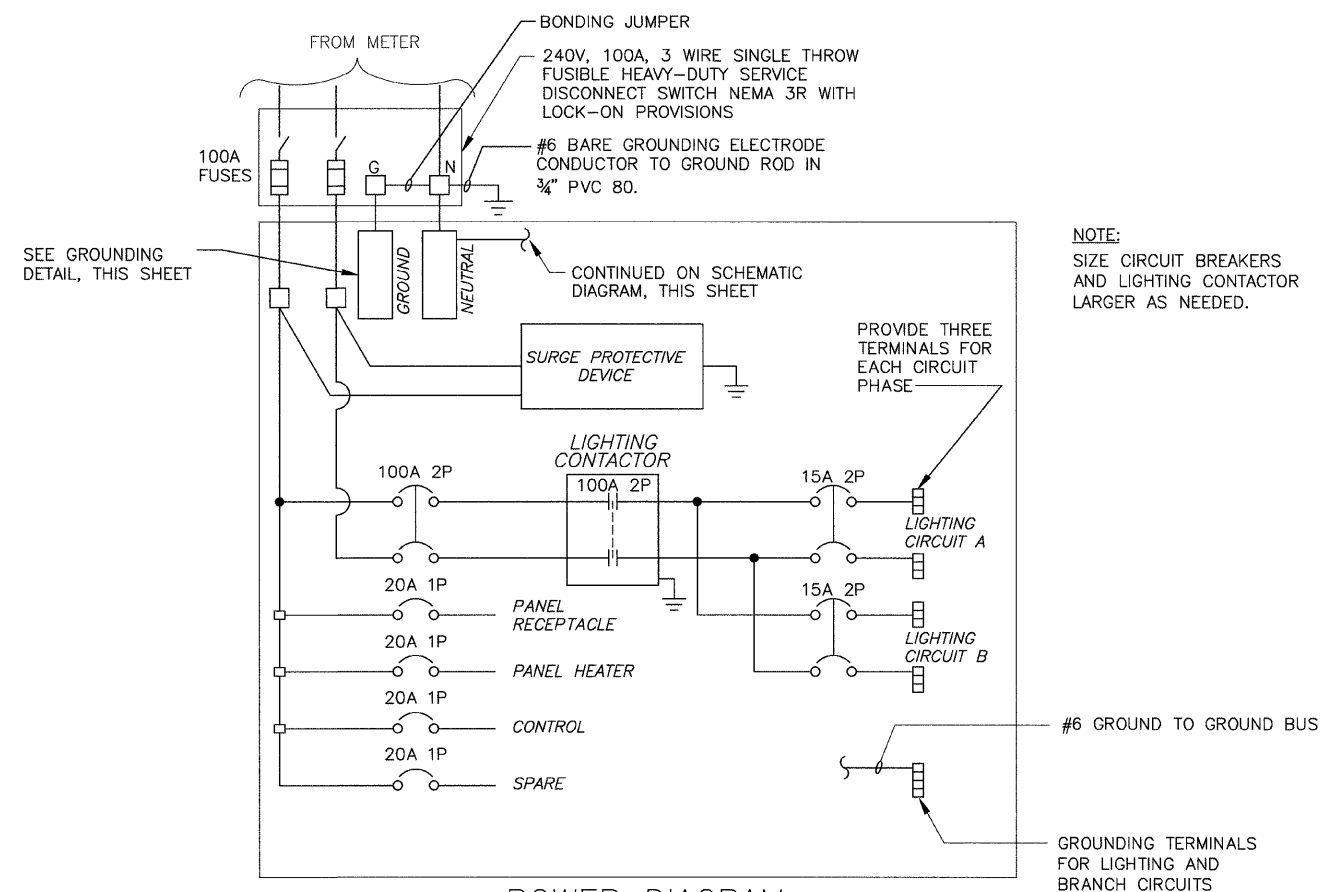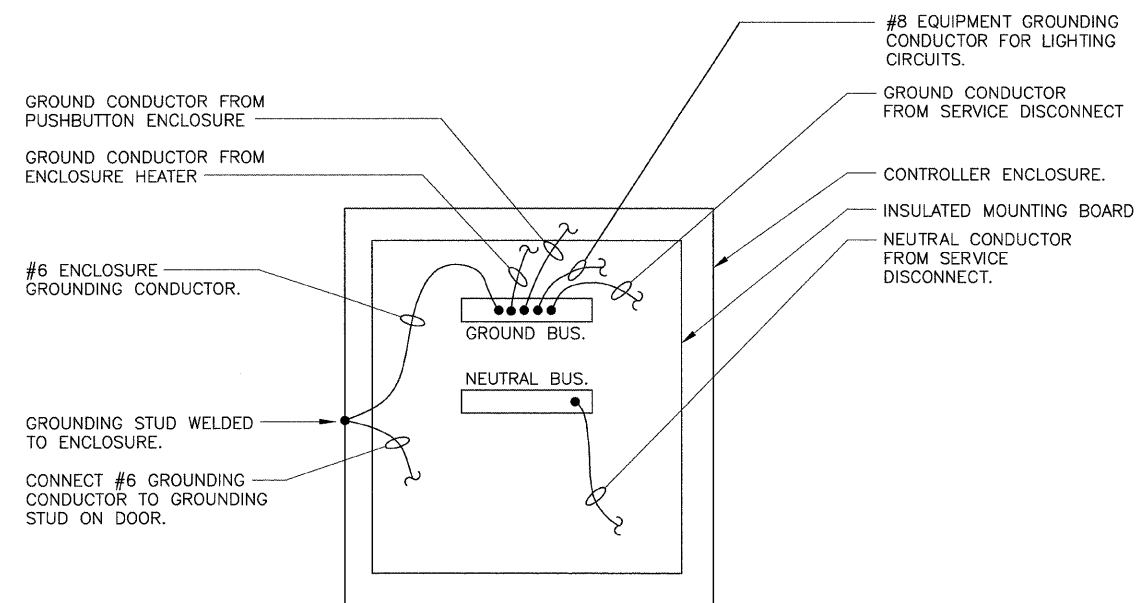
NOTES:

1. PROVIDE ENGRAVED LEGEND PLATES FOR DEVICES WITH WORDING AS INDICATED IN QUOTES.

2. CONTRACTOR SHALL PROGRAM TIMER TO TURN LIGHTS ON AT 15 MINUTES PRIOR TO SUNSET AND OFF AT 10 MINUTES PRIOR TO SUNRISE.

3. ASTRONOMICAL DATA FOR DECATUR, ILLINOIS:
LATITUDE: N 39° 51'
LONGITUDE: W 88° 57'

4. SIZE CIRCUIT BREAKERS AND FUSES LARGER AS NEEDED.

5. PROVIDE PHOTOCELL OVERIDE INPUT TO TIME SWITCH ACCORDING TO MANUFACTURERS INSTRUCTIONS. PROVIDE WIRING FROM POLE A3 PHOTOCELL TO CONTROLLER. SEE SHEET 22.

POWER DIAGRAM
NO SCALE

FROM METER

BONDING JUMPER

240V, 100A, 3 WIRE SINGLE THROW FUSIBLE HEAVY-DUTY SERVICE DISCONNECT SWITCH NEMA 3R WITH LOCK-ON PROVISIONS

100A FUSES

#6 BARE GROUNDING ELECTRODE CONDUCTOR TO GROUND ROD IN ¾" PVC 80.

SEE GROUNDING DETAIL, THIS SHEET

GROUND — NEUTRAL

CONTINUED ON SCHEMATIC DIAGRAM, THIS SHEET

SURGE PROTECTIVE DEVICE

PROVIDE THREE TERMINALS FOR EACH CIRCUIT PHASE

NOTE:
SIZE CIRCUIT BREAKERS AND LIGHTING CONTACTOR LARGER AS NEEDED.

LIGHTING CONTACTOR

100A 2P — 100A 2P — 15A 2P — LIGHTING CIRCUIT A

20A 1P — PANEL RECEPTACLE — 15A 2P — LIGHTING CIRCUIT B

20A 1P — PANEL HEATER

20A 1P — CONTROL — #6 GROUND TO GROUND BUS

20A 1P — SPARE — GROUNDING TERMINALS FOR LIGHTING AND BRANCH CIRCUITS

INTERIOR LAYOUT
NO SCALE

TIME SWITCH SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND LOCATED AS FAR AWAY FROM POWER WIRING AS POSSIBLE. SEE SPECIFICATIONS.

PUSHBUTTON ENCLOSURE.

"ON" PILOT LIGHT WITH LEGEND PLATE.

3-POSITION SELECTOR SWITCH WITH LEGEND PLATE.

NAMEPLATE. TYP.

INSULATED MOUNTING BOARD.

ENCLOSURE NOT LESS THAN 36x24x18.

DUPLEX RECEPTACLE

PANEL CIRCUIT BREAKERS

TS — WIREDUCT — WIREDUCT — SP — LC — WIREDUCT

LIGHTING CIRCUIT BREAKERS

SURGE PROTECTIVE DEVICE

LIGHTING CONTACTOR.

RAIL MOUNTED TERMINAL BLOCKS FOR CONNECTION OF LIGHTING CIRCUIT CONDUCTORS. PROVIDE 2 TERMINAL BLOCKS PER CONTACTOR POLE WITH A JUMPER CONNECTING THEM.

ENCLOSURE HEATER WITH THERMOSTAT.

GROUNDING DETAIL
NO SCALE

GROUND CONDUCTOR FROM PUSHBUTTON ENCLOSURE

GROUND CONDUCTOR FROM ENCLOSURE HEATER

#6 ENCLOSURE GROUNDING CONDUCTOR.

GROUNDING STUD WELDED TO ENCLOSURE.

CONNECT #6 GROUNDING CONDUCTOR TO GROUNDING STUD ON DOOR.

GROUND BUS.

NEUTRAL BUS.

#8 EQUIPMENT GROUNDING CONDUCTOR FOR LIGHTING CIRCUITS.

GROUND CONDUCTOR FROM SERVICE DISCONNECT

CONTROLLER ENCLOSURE.

INSULATED MOUNTING BOARD.

NEUTRAL CONDUCTOR FROM SERVICE DISCONNECT.