SERVICE POINT

TYPE 1

Class 5 wood pole

Provide cable drip loop
(min. 1'-0" dia.)

Weatherhead

Photocell

See Detail C

2" dia. rigid galvanized steel conduit
to protect #10 copper conductors.

3/4" dia. rigid galvanized steel conduit
to protect #10 copper conductors.

Multiple relay switch
See Typical Cabinet Wiring Type 1 on Standard Drawing E 807-LTSP-03.

2" dia. rigid galv. steel conduit
to protect 4-1/4 No.4 copper conductors and ground wire.

Ground rod

2" dia. galvanized steel
cable riser grounding bushing cable-duct.

#6 bare copper grounding wire from ground rod up riser to weatherhead or switch box.

1/2" x 6'-0" copper welding rod

TYPICAL ENTRY INTO RISER
(POLE AND STRUCTURE)

DETAIL B

Photo cell

Conduit

Conduitet

DETAIL C

INDIANA DEPARTMENT OF TRANSPORTATION
LIGHT SERVICE POINT DETAILS
SEPTEMBER 1999
STANDARD DRAWING NO.E 807-LTSP-01
DETAILED ENGINEERING DATE

/s/ Anthony L. Drennan 11-15-99
DESIGN ENGINEER

/s/ Parviz Zendi 11-15-99
CHIEF DESIGN ENGINEER

SIGNATURES
Provide cable drip loop (min. 1'-0 dia.)

Photocell
See Detail C

2" rigid galv. conduit with USE-THHN copper conductors, 2 #1/0
copper and 1 #1/0 neutral copper only.

3/4" rigid galvanized steel
conduit to protect #10 copper conductors.

Provide insulating section at cabinet.
If aluminum to steel, waterproof.

Multiple relay switch and circuit
breaker cabinet, 2'-0 x 2'-0 x 8" min.

Contractor to install one circuit
per 2" galv. rigid conduit and
identify circuit. (4 circuits maximum)

Contractor to install 1/2" x 8'-0
copperweld ground rod. Ground rod to
be connected to cabinet at the
suitable grounding lug with No. 8 solid
bare copper wire. Connect ground wire
to ground rod by means of suitable
clamp.

Notes:
1. See Standard Drawing E 807-LTSP-01
for Detail B.
1-Pole 240 V ac 7500 A interrupting capacity magnetic branch breakers 1 Ga. lugs

#4 copper typ. 

Neutral / ground bus 

Ground wire 

240/480 V ac or 120/240 V ac supply. 

2' conduit 

120/240 V ac load 

4 - 1/C #4 copper 

GENERAL NOTES 
To Photo Control: 
240 V ac required for 240/480 V ac supply. 
120 V ac required for 120/240 V ac supply.
2' galvanized riser conduit
#1/0 Line side conductors
#1/0 cu. neutral
Supply line from transformer 240/480 V ac
Hub locknut & grounding bushing
2-Pole 100 A 480 V ac 16000 A interrupting capacity thermal–magnetic main breaker 1/0 ga. range lugs
6 Position neutral bar for 14–4 ga.
6 position ground bar for 14–4 ga.
#6 copper to ground bar (Detail B)
#4 copper typ.
4 circuits maximum per enclosure

TYPICAL CABINET WIRING,
TYPE II