Meter socket (if required) -

Transformer by

power company

Primary cable by

Ground rod

Plan

120 x 240 Volt single phase electric service

Electric Utility Company

Elevation

Ground rod %"x10"

No. I/O bare copper wire 6' below ground,1' from pad.

Transformer and Feed Point Cabinet Pad Mounted

Feed Point Cabinet Pad Mounted

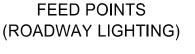
120 x 240 Volt

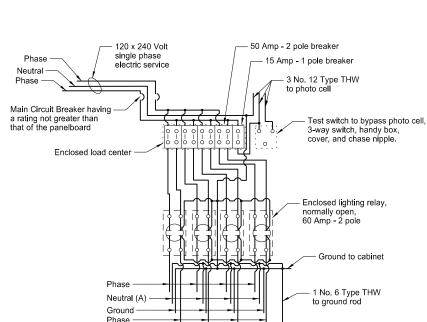
single phase

see notes 2 and 7

FEED POINTS







Feed Point Type IV

Provide Type I feed point similar to Type IV, except with one electrical circuit, one 50 Amp - 2 pole breakers, and one lighting relay, normally open.

Circuit 3

Provide Type II feed point similar to Type IV, except with two electrical circuit, two 50 Amp - 2 pole breakers, and two lighting relays, normally open.

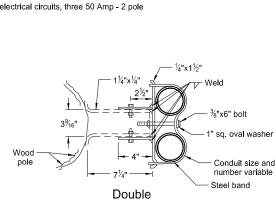
Provide Type III feed point similar to Type IV, except with three electrical circuits, three 50 Amp - 2 pole breakers, and three lighting relays, normally open.

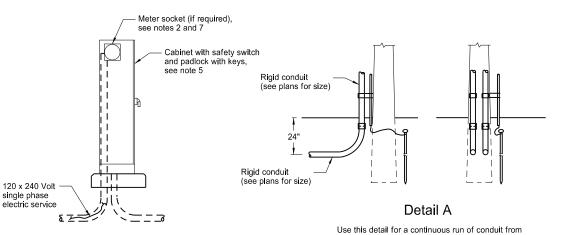
(A) Install when festoon circuit is required.

the feed point to the first light standard.

Circui

Circuit 2





- Photo cell, see notes 1 and 7

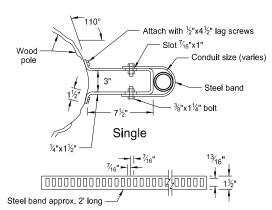
Cabinet with safety switch and padlock with keys,

> Photo Cell Mounting Detail

Ground rod

Grounding grid, see note 6

Elevation



Omission of conduit standoff brackets allowed when not required by local utility company.

Wood pole, see note 4 Meter socket (if required), 1¼" Conduit Photo cell lens, Photo cell lens Cabinet with safety switch P-1000 Unistrut or Cooper and padlock with keys, B-Line B22 with end caps see note 3 ½" galvanized machine bolt through pole 6'-0" Rigid conduit 2" dia. - ½" dia. conduit unless otherwise

- Service connection by Electric Utility Company

Electric service 120 x 240 Volt,

single phase, 1½" conduit

12" min.

Service entrance head -

Conduit stand-off

12" Class 43 aggregate

Plastic bushing

brackets (if required)

D-770-2

Feed Point Pole Mounted

1 No. 6 Type THW

Ground rod \(\frac{1}{2} \)"x10'

- Photo Cell: Furnish and install the photoelectric cell. Face photo lens north.
- Meter Socket: Install meter socket and trim if the meter is required by local Utility Company. Meter furnished and installed by Utility Company.
- Pole Mounted Cabinet: Provide cabinet with lock drip shield, factory installed steel backing, stainless steel hardware, and side hinge door. Shop coat cabinet with one coat of primer and two coats of exterior gray enamel.

Provide 30" high x 24" wide x 8" deep Type I and II feed points. Provide 30" high x 42" wide x 10" deep or 36" high x 36" wide x 10" deep Type III and IV feed points.

- Wood Pole: Provide minimum 20' Class VII full length penta pressure treated wood pole (if required, see layout sheets)
- Pad Mounted Cabinet: Provide 56" high x 26" wide x 14" deep weatherproof cabinet. Minimum 12 gauge steel or aluminum with provisions for padlock.
- Grounding Grid: Provide grounding grid with a maximum ground resistance of 25 ohms, using one or more $^{5}l_{8}$ "x10" copperweld ground rods in parallel or series at two corners. Provide a minimum distance between ground unit assemblies of 6'0".
- Meter Location: Do not mount the meter (if required) on the same side of the cabinet

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION		AK J. HOR
10-8-13		
REVISIONS		
DATE	CHANGE	PROFESSIONAL PE-4683 12/06/24 PH DAY
07-08-14 10-17-17 08-28-19 11-01-24	Revised note 3, Updated to active voice, New Design Engineer PE Stamp. Revised note 5.	

Conduit Standoff Bracket