CLEVIS WITH INSULATOR CLEVIS WITH SERVICE CABLE _ **INSULATOR** (SEE NOTES 2 & 4) POWER CABLE POWER CABLE SIGNAL CABLE DRIP LOOP 6" (150 mm) SIGNAL CABLE (TYPICAL) POWER CABLE CARINET MOUNTING **HEIGHT** HEIGHT LESS THAN 36" (900mm) 30" ±3" (760mm ±75mm CONDUIT RISER 36" (900mm) AND OVER 23" ±3" (580mm ±75mm CONDUIT, SIZED AS REQUIRED AND WEATHER HEAD (SEE NOTE 3) (WHEN REQUIRED FOR OVERHEAD POWER CONDUIT RISER AND FEED TO CONTROLLER) WEATHERHEAD (SIZE AS SPECIFIED) CONDUIT ATTACHMENT CONDUIT ATTACHMENT CONDUIT ATTACHMENT -(SEE NOTE 8) METER BASE METER BASE CONNECTORS METER BASE-(TYPICAL) (SEE NOTE 7) (SEE NOTE 3) CONTROLLER POLE MOUNTING ASSEMBLY DISCONNECT SWITCH ENCLOSURE CABINET DISCONNECT SWITCH HEIGHT **ENCLOSURE** 1/2" (38 mm) LB TYPE FITTING INTO CONTROLLER POLE OR I1/2" (38 mm) CONDUIT AND CABINET FITTINGS INTO THE BOTTOM OF THE CONTROLLER CABINET 5'-0" (I.5 m) ± 3"(75 mm) GROUND WIRE 36"(0.9 m) SEE NOTE 7 2 1/2" (64 mm) LB TYPE FITTING MOUNTING GROUNDING LUG HEIGHT MIN. (SEE NOTE II) 3/4" (19 mm) CONDUIT FOR GROUND WIRE CONDUIT FOR UNDERGROUND SIGNAL CABLES WHEN SPECIFIED 9" (230 mm) WORK PAD 3/4" (19 mm) EMT 3/4" (19 mm) CONDUIT FOR GROUND WIRE (OR UNDERGROUND POWER (SEE NOTE IO) GROUND LINE GROUND LINE FEED TO CONTROLLER) 4 (100 mm) SEE NOTE 13 POWER SERVICE AND CONTROLLER POWER SERVICE POWER SERVICE AND CONTROLLER **MOUNTING ON WOOD POLES** MOUNTING ON NEW STEEL POLES

(SEE NOTE 6)

NOTES

- I. All conduit fitting entries for controllers and power service equipment in proposed steelpoles shall be
- 2. Service cable attachment on wood poles shall be by a 5/8" (16 mm) thru-bolt and clevis; on steelpoles by
- 3. If both the meter and disconnect switch are not required on a steelpole, the power cable shall enter the controller through a conduit riser, external to the pole.
- 4. The service cable and cable splices to the power cable for the incoming power supply shall be installed by the power supplying agency unless otherwise specified. The pole attachment hardware shall be furnished and installed by the Contractor.
- 5. Orientation of the cabinet, meter and disconnect switch enclosure shall be arranged to minimize exposure to the street side and also minimize encroachment on sidewalks, unless otherwise shown on
- 6. Power and controller service added to existing steel poles shall be similar to that shown for the wood pole with the exception of the attachment hardware.
- 7. The top of the meter base shall not exceed 6' (1.8 m) above the ground. The mounting height of the LB type fitting may be decreased in order to accomodate a larger meter base.
- 8. Conduit attachment shall be by means of two hole conduit straps with a maximum spacing of 5 feet (1.5 m). Minimum fastener requirements are as follows: wood poles- $\frac{1}{4}$ "x 3" (6.4 mm x 76 mm) long lag screws, # 14 X 3*(76 mm) long round head screws, or 20d spikes: steelpoles- 1/4" (6.4 mm) screws, self tapping or with drilled and tapped hole.
- 9. Conduit connections at the top and bottom of the disconnect switch enclosure and meter base shall be watertight and shall use the hubs listed on the enclosure and meter base U.L. labels, Conduit shall be bent to allow the conduit to enter straight into the enclosure or meter base, and to provide space for the weatherhead when the riser is pulled tight against
- $_{\mbox{\scriptsize 10.}}$ A 48"x 48"x 4" (1.2 m x 0.9 m x100 mm) work pad shall be located below each pole mounted controller cabinet unless located in an otherwise paved area. In level areas, the top of the pad shall be I (25 mm) above the ground line. In steeply sloped areas, the pad's location shall be adjusted to provide access and drainage while complying with the required controller cabinet mounting height.
- II. The horizontal orientation of the handhole relative to the conduit for the controller shall be as required by the plans except they shall not be closer than 90°. Install LB fitting before erecting pole.
- 12. When conduit risers are required to be attached to utility company wood poles, and the utility company's policy requires non-metallic conduit, the conduit risers shall conform with Nema standards publication No. TC-2 for PVC conduit type EPC-40.
- 13. $\frac{1}{2}$ " (13 mm) preformed joint filler as per ODOT CMS 705.03 shallbe used between foundations and adjacent paved areas.