

# Typical Arrangement of Instrument Transformer in Switchgear Cubicle

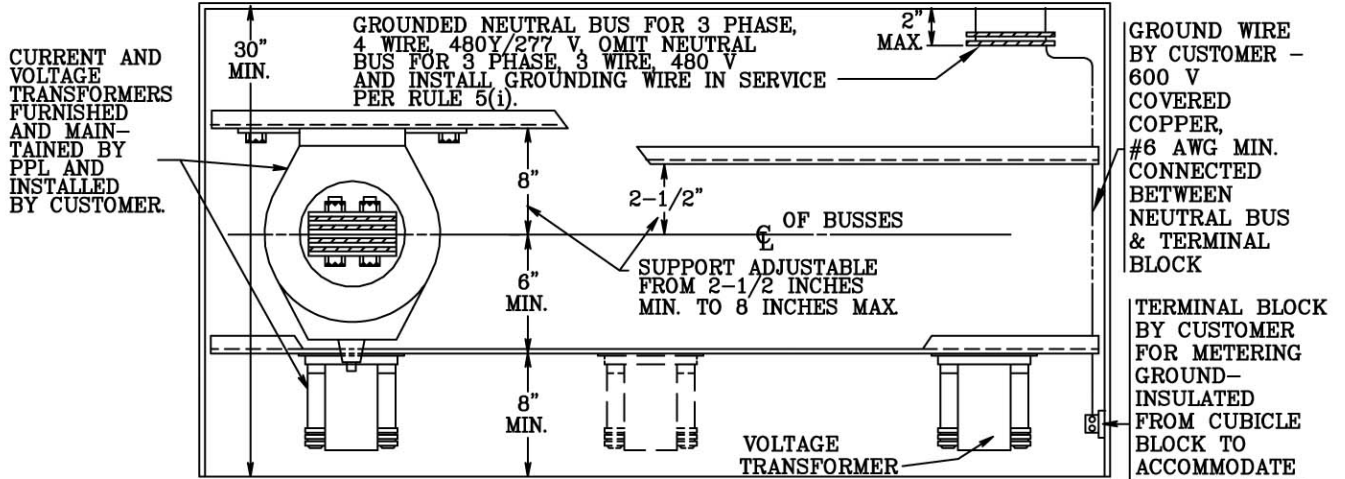
3 Phase, 3 Wire, 480 V or  
3 Phase, 4 Wire, 480Y/277 V

SKETCH #23

SHEET 23

SKETCH #23

SHEET 23



400 TO 4000 A  
CURRENT TRANSFORMER

FULLY  
INSULATED  
BARRIER

CUSTOMER  
FURNISHES  
4 INCH  
WIDE BUS  
FILLERS.

FULLY  
INSULATED  
BARRIER

MINIMUM CLEAR  
VERTICAL DISTANCE  
BETWEEN BUSHINGS OF INCOMING  
SERVICE LATERAL CONDUITS TO  
LINE SIDE TERMINALS IS:  
SERVICE UP TO 6 SETS - 36"  
CONDUCTORS UP TO 12 SETS - 48"

FRONT VIEW THROUGH ACCESS OPENING  
WHEN FLAT OF BUS FACES OPENING.  
3 PHASE, 4 WIRE - 3 C.T.'S REQUIRED  
3 PHASE, 3 WIRE - 2 C.T.'S REQUIRED  
1 C.T. SHOWN

\*REFERENCE CRS 6-19-100; SKETCH 50

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GROUND WIRE  
BY CUSTOMER -  
600 V  
COVERED  
COPPER,  
#6 AWG MIN.  
CONNECTED  
BETWEEN  
NEUTRAL BUS  
& TERMINAL  
BLOCK

TERMINAL BLOCK  
BY CUSTOMER  
FOR METERING  
GROUND-  
INSULATED  
FROM CUBICLE  
BLOCK TO  
ACCOMMODATE  
2-#6 & 5-#10  
STRAINED  
COPPER  
CONDUCTORS

PROVIDE 1/4  
INCH BY 20  
TAPPED  
HOLE AND  
SCREW FOR  
METER  
WIRING  
CONNECTION.

BUS MAY BE  
ROTATED 90°  
IF REQUIRED.

**RULES FOR ELECTRIC METER AND SERVICE  
INSTALLATIONS**  
**PPL ELECTRIC UTILITIES  
CORPORATION**

**Rules:** 5, 15

**Date:** 11/02/04 **Engr:** RGR