

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32, 47-4)K	KENDALL/GRUNDY	243	148
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 66294				

LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	STEEL FOUNDATION		CONCRETE FOUNDATION		
		SHAFT DIAMETER	SHAFT DEPTH	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH *
9.1 m (30')	292 mm (11 1/2")	220 mm (8 5/8")	1.83 m (6'-0")	610mm (24")	1.52 m (5'-0")	1.45 m (4'-9")
9.4 m - 10.7 m (31'-35')	292 mm (11 1/2")	220 mm (8 5/8")	1.83 m (6'-0")	610mm (24")	1.67 m (5'-6")	1.60 m (5'-3")
10.9 m - 12.2 m (36'-40')	381 mm (15")	220 mm (8 5/8")	1.83 m ** (6'-0")	610mm (24")	1.83 m (6'-0")	1.75 m (5'-9")
12.5 m - 13.7 m (41'-45')	381 mm (15")	220 mm (8 5/8")	1.83 m ** (6'-0")	610mm (24")	1.98 m (6'-6")	1.90 m (6'-3")
14.0 m - 15.2 m (46'-50')	381 mm (15")	220 mm (8 5/8")	2.44 m (8'-0")	610mm (24")	2.13m (7'-0")	2.00 m (6'-9")

\* Length does not include 100(4)hook  
 \*\* 220 mm x 2.44 m (8 5/8" x 8'-0") for Twin luminaires

#### Notes:

All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance on steel foundations and notify the engineer if other conditions are encountered.

#### Notes:

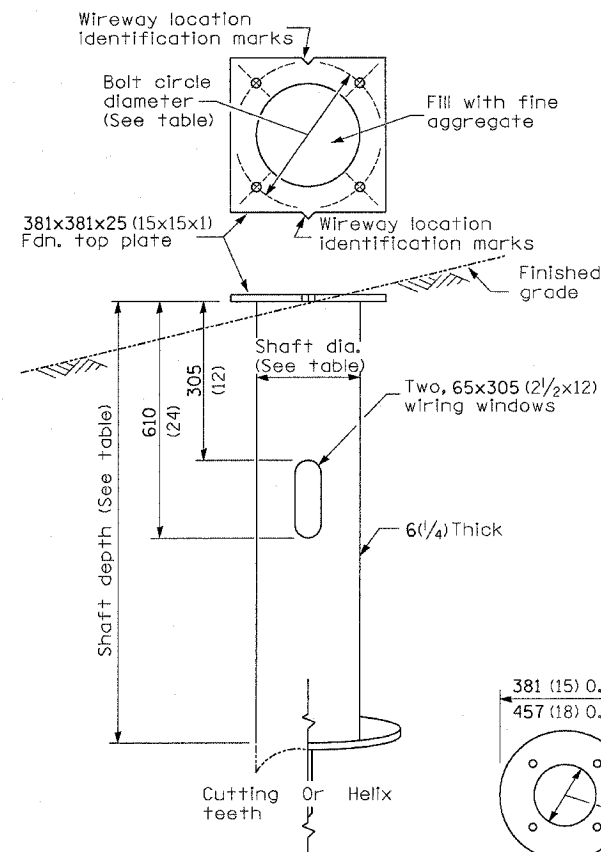
Wireway may be on front, back, or side of foundation as required by the trenching. Place door of transformer base on wireway side to minimize the number of unit duct bends.

Top of schedule 40 PVC 125(5) I.D. PVC wiring window, shall be flush with the top of foundation for drainage.

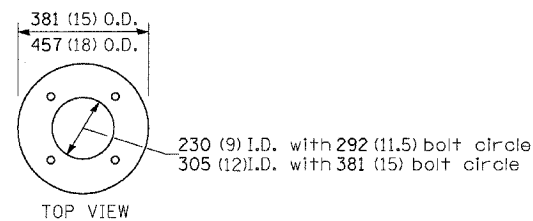
75 (3) Min. concrete cover on all steel

25 (1) Ø Steel anchor rod with 230 (9) of threads. See table for the required bolt circle diameter.

19 (3/4) - 45° Bevel  
 Finished grade

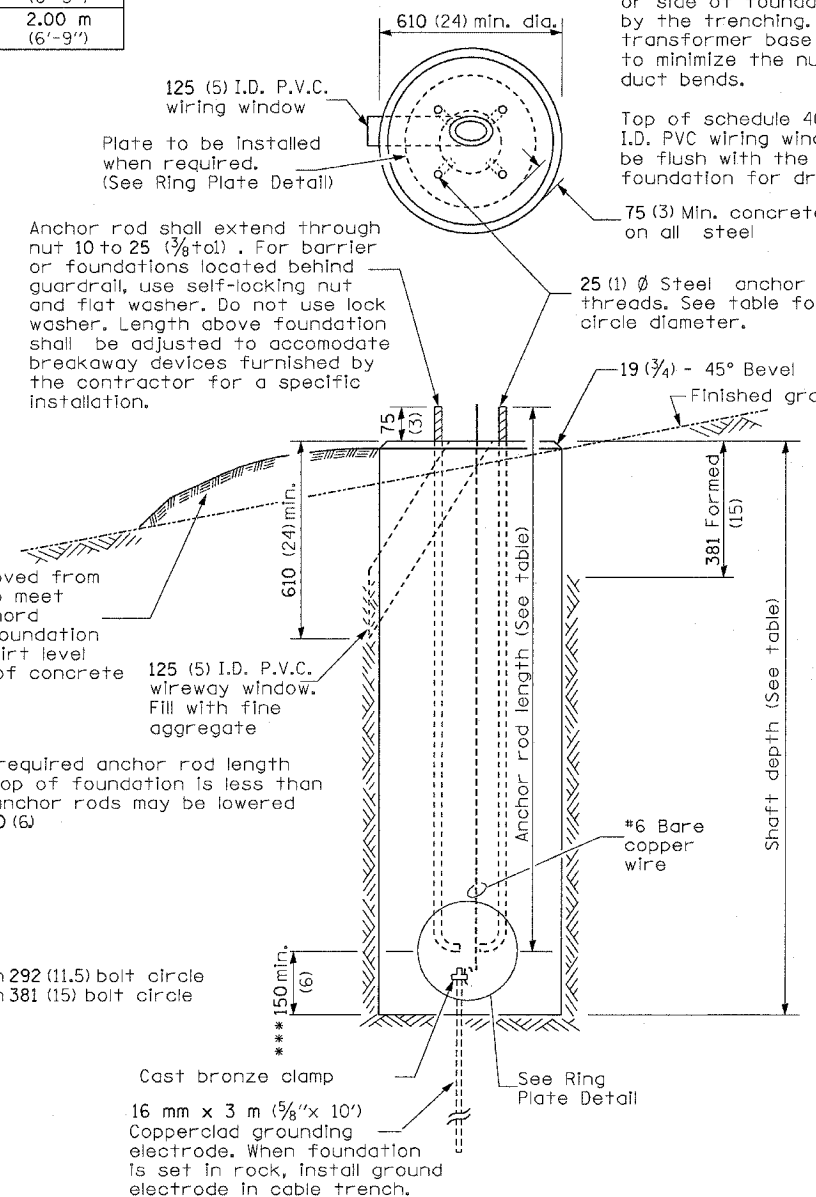


#### STEEL FOUNDATION

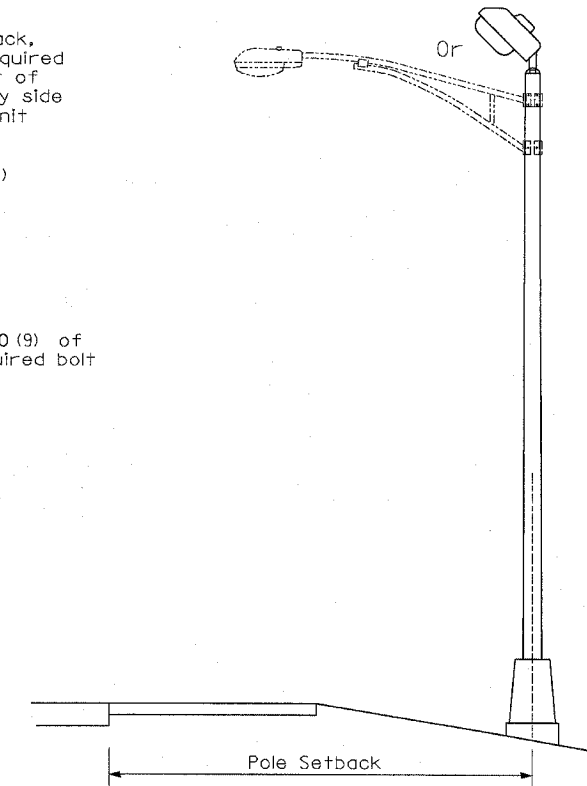


#### RING PLATE DETAIL

(When rock is encountered and foundation is shallower)



#### CONCRETE FOUNDATION



#### Pole Foundation Setback:

For horizontal mounted luminaires, setback shall be a minimum of 6.1 m (20') from edge of pavement.

For vertical mount luminaires, setback shall be a minimum of 9 m (30') from edge of pavement. Poles shall be located 1.5 m (5') behind guardrail or other protective barriers, or as directed by the Engineer.

#### LIGHT POLE FOUNDATION

REVISIONS	
NAME	DATE
Bridge Office	10/7/02
depth calc.	

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FAI ROUTE 80 (I-80 AT MINOOKA INTERCHANGE)

LIGHTING STANDARDS  
 LIGHT POLE FOUNDATION

SCALE: NONE  
 DATE: 12/9/2005

DRAWN BY: KGP/MAE  
 CHECKED BY: MAE/PKG

LGT007-836



REVISED  $\Delta$  ADDED SHEET PER ADDENDUM 4-11-06