

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255			35	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

• DIST 8 ITS 2007-1, 2A
• MADISON & ST CLAIR COUNTIES

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

* Length does not include 100 (4)hook

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.

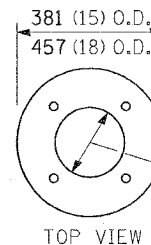
125 (5) I.D. P.V.C. wiring window
Plate to be installed when required.
(See Ring Plate Detail)

Anchor rod shall extend through nut 10 to 25 (3/8 to 1). For barrier or foundations located behind guardrail, use self-locking nut and flat washer. Do not use lock washer. Length above foundation shall be adjusted to accommodate breakaway devices furnished by the contractor for a specific installation.

Use dirt removed from foundation to meet 1.52m (5 ft.) chord fill around foundation top. Grade dirt level with bottom of concrete chamfer.

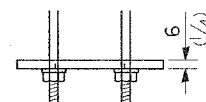
125 (5) I.D. P.V.C. wireway window. Fill with fine aggregate

35 If the required anchor rod length above top of foundation is less than 75 (3), anchor rods may be lowered below 150 (6)



RING PLATE DETAIL

(When rock is encountered and foundation is shallower)



CONCRETE FOUNDATION

Bronze ground clamp

16 mm x 3 m (5/8" x 10') Copperclad grounding electrode. When foundation is set in rock, install ground electrode in cable trench.

See Ring Plate Detail

REVISIONS	
NAME	DATE
BRIDGE OFF DEPTH CALC.	10/07/02

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION

FAI 255
SECTION DIST 8 ITS 2007-1, 2A
MADISON AND ST. CLAIR COUNTIES

DRAWN BY:

PLOT DATE: 12/11/2006

DATE	BY	NO.