SANGAMON 425 289 STA. TO STA.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

(84-9) RS-6: (G)Z \*

STEEL FOUNDATION CONCRETE FOUNDATION LIGHT POLE | BOLT CIRCLE SHAFT ANCHOR ROD TOP PLATE (min) MOUNTING HEIGHT DIAMETER DIAMETER DEPTH DIAMETER DEPTH LENGTH 1  $\leq$  9.1 m 220 1.83 m  $300 \times 300 \times 25$ 610 1.52 m 1.45 m (30') (85/3)(6') $12 \times 12 \times 1$ (5'-0'')(4'-9'')220 (8<sup>5</sup>/<sub>8</sub>) 300 x 300 x 25 9.4 m - 10.7 m 292 1.83 m 610 1.67 m 1.60 m (31'-35') (6') (5'-6'')381 220 1.83 m  $375 \times 375 \times 31$ 10.9 m - 12.2 m 762 1.83 m 1.75 m (6') ② (36'-40') (15) ③  $15 \times 15 \times 1 \frac{1}{4}$ (6'-0'')220 (8<sup>5</sup>/<sub>8</sub>) 375 × 375 × 31 15 × 15 × 1 1/4 12.5 m - 13.7 m 381 1.83 m 762 1.98 m 1.90 m (15) ③ 2 (41′-45′) (6′) (6'-6'')(6'-3'')14.0 m - 15.2 m 381 220  $|375 \times 375 \times 31|$ 2.44 m 2.13m 2.00 m (15) ③ (46'-50')  $(8\frac{5}{4})$ (8') (6'-9'')

Wireway location identification

marks shall be notched in side of plate or stamped on top.

① Length does not include 100(4)hook

Bolt circle

(See table)

diameter-

610

~::T/T/

② 220 mm x 2.44 m  $(8\frac{5}{8}"\times 8'-0")$  for Twin luminaires

shaft dia.

(See table)

③ Bolt circle diam, shall be **430** (17) when a TB3-17 transformer base is used

Fill with fine

aggregate

Finished

Two,  $65 \times 305 (2^{1}/_{2} \times 12)$ 

arade

wiring windows

 $6(\frac{1}{4})$  Thick min.

380 (15) O.D.

450 (18) O.D.

**508** (20) O.D.

TOP VIEW

RING PLATE DETAIL

(When rock is encountered

and foundation is shallower)

180° apart

610 (24) min. dia. with **292**(11.5) bolt circle 762(30)min. dia. with **381** (15) or **432** (17) bolt circle

Length above foundation

installation.

with bottom of concrete 125 (5) I.D. P.V.C.

4 If the required anchor rod length

above top of foundation is less than 75 (3), anchor rods may be lowered

Use dirt removed from

fill around foundation

below 150 (6).

230 (9) I.D. with 292 (11.5) bolt circle

305(12)I.D. with 381 (15) bolt circle 356(14)I.D. with 432(17) bolt circle

top. Grade dirt level

foundation to meet

1.52m (5 ft.)chord

chamfer.

shall be adjusted to accomodate

610

(9)

4

electrode. When foundation is set in rock, install ground electrode in cable trench.

Cast bronze clamp

16 mm x 3 m ( $\frac{5}{8}$ "× 10") Copperclad grounding

wireway window.

Fill with fine aggregate

breakaway devices furnished by

the contractor for a specific

125 (5) I.D. P.V.C. wiring window Plate to be installed when required (See ring plate detail)

(15)

#6 Bare

copper

wire

See Ring

Plate Detail

381

75 (3) Min. concrete cover on all steel

Anchor rod 25 (1) diameter with 230 (9) threads. Anchor rod shall extend through nut 25 (1). For barrier or foundation behind guardrail, use self-locking nut and flat washer. Do not use lock washer.

19  $(\frac{3}{4})$  Chamfer Finished grade

## PROJECT SPECIFIC NOTE

Pole Foundation Setback:

of 6.1 m (20') from edge of pavement.

For vertical mount luminaires, setback shall be a

Poles shall be located 1.5 m (5') behind guardrail or other

protective barriers, or as directed by the Engineer.

minimum of 9 m (30') from edge of pavement.

USE SPECIAL MICROSILICA MIX DESIGN FOR CONCRETE FOUNDATIONS INSTALLED IN CCB.

Pole Setback

For horizontal mounted luminaires, setback shall be a minimum

Notes:

- 1) 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.
- 2) Top of schedule 40 125 (5) I.D. PVC wiring window, shall be flush with the top of foundation for drainage.
- 3) 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.
- 4) Anchor rod shall be increased to 31 ( $1\frac{1}{4}$ ) diameter for 15.24 (50') mounting height or above.
- 5) TB3-17 transformer base is not to be used on metal foundation

CONCRETE FOUNDATION

S

All dimensions are in millimeters (inches) unless otherwise shown.

Cutting

teeth

0r

STEEL FOUNDATION

Helix &

pilot point

**REVISIONS** 10/7/02 Bridge Office depth calc.

ILLINOIS DEPARTMENT OF TRANSPORTATION LIGHTING DETAILS -7 LIGHT POLE FOUNDATION LGT007.836 (84-9) RS-6; (G)Z SANGAMON COUNTY, ILLINOIS SCALE: VERT. DRAWN BY