GENERAL NOTES:
1. ALL DIMENSION IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. THE CONTRACTOR MAY ELECT TO FURNISH A PRECAST BASE IN LIEU OF THE CAST IN PLACE BASE.
3. EXCAVATION SHALL BE PERFORMED USING AN AUGER WITH A DIAMETER NOT GREATER THAN 1000 MILLIMETERS.
4. AFTER THE PRECAST CONCRETE BASE HAS BEEN LEVELLED TO A DEVIATION FROM LEVEL NOT GREATER THAN 3 MILLIMETERS WITHIN THE BASE DIAMETER, THE EXCAVATION SHALL BE BACKFILLED USING A SATURATED CLEAN SAND WITH LESS THAN 5% PASSING THE #200 SIEVE.
5. ANCHOR BOLT SHALL BE HOT BENT AND SHALL MEET THE REQUIREMENTS OF ASTM A-675 GRADE 90 OR ASTM F1554, GRADE 55 NUT SHALL MEET REQUIREMENTS OF ASTM A-563 GRADE A AND ANSI B18.2.2 HEX TYPE.
6. FLAT WASHER SHALL MEET THE REQUIREMENTS OF ANSI B27.2 HEAVY WASHER.
7. LOCK WASHER SHALL MEET THE REQUIREMENT OF ANSI 18.21.1 HEAVY WASHER.
8. ANCHOR BOLTS, NUTS AND WASHER SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ANSI A-153, CLASS C.

ELEVATION VIEW
PRECAST BASE DETAIL

ANCHO BOLT, NUTS AND WASHER
DETAILS

DESIGN REFERENCES:

BASE MATERIALS:
1. CONCRETE CLASS "A" \( f_c = 3,000 \) PSI
   \( f_c = \) UNIT ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AS DETERMINED BY CYLINDER TEST AT THE AGE OF 28 DAYS.
2. REINFORCING STEEL AASHTO M31 (ASTM A615) GRADE 60.

DESIGN DATA:
1. ANGLE OF INTERNAL FRICTION 25°.
2. SOIL DENSITY 120 PCF.

DESIGN LOADS:
1. WIND = 110 MPH.

ALLOWABLE LOADS BASE DESIGN:
1. AXIAL LOAD = 4,516 POUNDS
2. LATERAL LOAD = 2,310 POUNDS
3. MOMENT = 131,310 POUNDS-FOOT

EFFECTIVE DATE: MAY 1998

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

HIGHWAY LIGHTING
ALTERNATE BASES
PRECAST BASE FOR ROUND HIGH MAST
80°-0° AND 100°-0° HIGH

DATE REVISION BY
STD. LS
DWG 17A OF 17