## highmast Lighting notes:

 55, 60, or
ksi yield).
b. Steel Plates: ASTM A709 Grade 36 or ASTM A36
c. Weld Metal: E70xX
d. Anchor Bolts: ASTM F 1554 Grade 55 with ASTM A563, Grade A heavy-hex nuts and
plate washer.
e. Handhole: ASTM A709 Grade 36 or ASTM A36 Frame with ASTM A36 cover.
f. Caps: ASTM A1011 Grade $50,55,60$ or 65 or ASTM B209.
g. Nut Covers: ASTM B26 (319-F)
h. Stainless Steel Screws: AISI Type 316
2. Reinforcing steel: ASTM A615, Grade 60.
3. Concrete: Class IV (Drilled Shaft) with a minimum 4,000 psi compressive strength at
4. Welding: American Welding Society Structural Welding Code (Steel) ANSI/AWS DI. 1
5. Galvanization:
a. Nuts, Bolts, Washers and Threaded Bars/Studs: ASTM F2329.
b. Other items (Including Pole): ASTM A123
6. Hole diameters for anchor bolts: not greater than the bolt diameter p/us $1 / 2$ ".

Poles: Tapered with the diameter changing at a rate of 0.14 inch per foot with a welded pole shaft poutt splices and maximum on taminated two longitudinal seam welds. Shatts are not permitted Welded pole shatt butt splices and laminnted pole shafts are not permitted.
Longitudinal seam weld swithin 6 inches of pole to base must be complete $p$ welds. Longitudinal seam welds at telescoopic field to base must be complete penetration
wells for the splice length plus 6 inches.
8. One hundred percent of full-penetration groove welds and a random 25 percent of
partial penetration groove welds shall be inspected. Full-penetration groove weld partial penetration grove welds shall be inspected. Full-penetration groove
inspection shall be performed by nondestructive methods of radiography or
int
-
9. Furnish each pole with a $2^{\prime \prime} \times 4^{\prime \prime}$ (Max.) aluminum identification tag. Submit details for approval. Secure to pole with 0.12 . 4" stainless steel rivets or screws. Locate
identification tag on the inside of pole and visible from handhole. Include the identification tag on the inside of poole and visisbe from handhole. Include the
following information: Financial Project ID. Pole Mounting Height, Manufacturer's Name, Fy of following information: Financial
Steel, and Base Wall Thickness.
10. Verify CSL access tubes will not interfere with anchor bolt installation before
excavating the shaft. When CSL access tube locations contlict with anchor bolt excavating the shaft. CL hen CSL access cube ocations cos along the anchor
locations, move the CSL access tube location $\pm$ two inches locations, move the cSL access tube location two inches atong the inner
circumference of the reifnorcing cage. Notify the Engineer before excavating the
shaft it the CSL access tube locations cannot be moved out of conflict with anchor bolt shaft if t
locations.

## DESIGN CRITERIA

1. Designed in accordance with the FDOT Structures Manual.
2. Poles are designed to support the following:
area of 6 SF (Cd=1) and 340 lbs (Max) )
(8) cylindrical luminaires with a maximum effective projected area
of $3.0 S F(d=0.5)$ and 71 los. each
3. Foundation design based upon the following soil criteria:

Only in cases where the Designer considers the soil types at the Only in cases wher the Desioner considers the soil types at the
specificic site location to be of lesser strength properties should an
 be utilized as needed to verify the assumed soil properties, and at
relatively uniform sites, a sing boring or sound ing may cover several
foundations. Furthermore, boring in the sarea that were performed for foundations. Furthermore, borings in the area that were performed for
other purposes may be used to confirm the assumed soil properties.
4. Foundation applies only to slopes of $1: 4$ or flatter. Provide a minimum
$24^{4 \prime}$ shaft projection on the high side.
5. Poles are designed for 6 mil galvanization thickness.

| $\begin{array}{\|c\|} \hline \text { LAST } \\ \text { REVISION } \\ \text { O1/O1/12 } \end{array}$ | 匂DESCRIPTION: |  | FDOT DESIGN STANDARDS $2013$ | HIGHMMAS T LIGHTING |
| :---: | :---: | :---: | :---: | :---: |




POLE FOUNDATION




NOTES:

1. Use compacted select material in accordance with Index 505 .
2. Concrete shall be Class NS with a minimum strength at 28 days of $f^{\prime} c=2.5 \mathrm{ksi}$
3. Outside edge of slab shall be cast against formwork.
4. The pull box shown is $13^{\prime \prime} \times 24^{\prime \prime}$, others approved under
Section 635 of the Standard Specifications may be used.
5. Slabs to be placed around all Poles and Pull Boxes. In urban areas or where
space is limited slab dimensions may be adjusted as shown in the plans.
6. Concrete for slabs around poles and pull boxes shall be included
in the price of pole or pull box.
7. The expansion joint shall consist of $1 / / 2$ of closed-cell polyethelene foam exparing the slab and sealed with a QPL approved Type A sealant meeting the
pourn
reaur pouring the slab and sealed
requirements of Section 932 .


SLAB DIMENSIONS



