## highmast LIGHTING NOTES:

1. Poles are designed to support the following: A. One (1) cylindrical head assembly with a maximum effective projected area of 6 sf and 340 lbs (Max) Eight (8) cylindrical luminaires with a maximum effective projected are of 1.5 sf and 77 lbs each
2. Shop Drawings: This Index is considered fully detailed, only submit shop drawings for minor modifications
not detailed in the Plans.
3. Higa Mast stuct be wa
A. Poles and Backing Rings:
. Less than $3 / 16^{\prime \prime}:$ ASTM A1011 Grade 50, 55, 60 or 65

B. Steel Plates: ASTM A709 or ASTM A36
B. Steel Caps: ASTM A1011 Grade $50,55,60$, or 65 or ASTM B209
C. Pole Caps ASTM A
D. Weld Metal ETOXX
E. Atainless steel Screws: AISI 316
b. Ants: ASTM A563 Grade A Heavy-Hex (5 per anchor bolt)
C. Plate Washer: ASTM A36 (2 pery anchor bolt)
Nut Covers: ATM B26 (319-)
H. Concrete: Class IV (Drilled Shaft)
4. Fabrication:
A. Welding:
a. Specification Section $460-6.4$ and and ASHTO LRFD Specification for Structural Supports for Highway Signs, Luminaires, and Traffic
B. Poles:
a. Round or 16 -sided (Min.)
a. Round or $16-$ sided Min.
b. Taper pole diameter at 0.14 inches per foot
c. Pole shaft may be up o three sections (usi)
. Pole shaft may be up to three sections (using telescopic field splices)
d. Circumferentially welded pole shafts and laminated pole shafts are not permitted
e. .abricate Pole longitudinal seam welds ( 2 maximum) with 60 percent minimum penetration or fusion
welds except-as totration
i.
i.
se a full
ii. Use full-penetration groove welds on the female end section of telescopic (i.e., slip type) field

Splices for a minimum length of 42 inches.
c. Identification Tag: (Submit details for approval)
a.
a. ""x 4" (Max.) aluminum tag
b. Locate on the inside of the pole and visible from the handhole
c. Secure with $1 / 88^{\prime \prime}$ diameter stainless steel rivets or screws.

Include the following information on the ID Tag

1. Pole Type
2. Pole Height
3. Pole Heitht
4. Manuf acturers' Name
5. Yield Stronth (Fy of Steel)
6. Base Wall Thickness

| D. Except for Anchor Bolts, bolt hole diameters are bolt diameter plus $1 / 16^{\prime \prime}$ and anchor bolts holes are |
| :--- |
| bolt diameter plus |
| $1 / 2$ | bolt diameter plus $1 / 2 /$ (Max) prior to

E. Hot Dip Galvanize after fabrication
5. Coating
A. Galvanize Anchor Bolts, Nuts and Washers: ASTM F2329
B. Hot Dip Galvanize all other steel items including plate
6. Construction: $\begin{aligned} & \text { A. Foundation: }\end{aligned}$
A. Foundation: Specification 455 Drilled Shaft, except that payment is included in the cost of the Structure,
A. After Installation: Place wire screen between top of foundation and bottom of baseplate in accordance with Specification 649-6
7. Wind Speed by County:

Alachur, Baker, Bradford, Calhoun, Clay, Columbia, Dixie, Duval, Gadsden, Gilchrist, Hamilton, Jack son,
Alafter
150 MPH
Bay, Citrus, De Soto, Flagler, Franklin, Glades, Gulf, Hardee, Hendry, Hernando, Highlands, Hillsborough, Holmes, Lake, Levy, Manatee, Marion, Okaloosa, okeechobee, Orange, Osceola,
Rosa, Seminole, St. Johns, Sumter, Volusia, Walton and Washington Counties.

170 MPH
Brevard,
Brevard, Broward, Charlotte, Collier, Escambia, Indian River, Lee, Martin, Miami-Dade, Monroe, Palm Beach
Sarasota and St Lucie Counties.




NOTES:

1. At all pull boxes and pole bases, ends of conduit shall be
sealed in accordance with Specification 630 .
2. Slabs to be placed around all Poles and Pull Boxes.
3. For Pull Boxes between Poles refer to Index 715-001.


## NOTES:

1. Use compacted select material in accordance with Index 120-001
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

Spertical 635 may be used.
5. Slabs to be placed around all Poles and Pull Boxes. In urban areas or where

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6. Concrete for slabs around poles and pull boxes shall be included
7. The expansion joint shall consist of $1 / 2$ " of closed-cell polyethylene foam expansion material. The top $\mathrm{I}_{2}$ of expansion material shall be removed after pouring the slab and sealed with an APL approved Type A sealant meeting th
requirements of Specification 932 .


SLAB DIMENSIONS



