SIGN LIGHTING INSTALLATION

Roadway lighting included in contract:
The power for the sign lighting shall be provided from
the roadway lighting circuit. The lighting plans shall
indicate the sign location and a pull box location for
connection to the sign lights. The lighting contractor
shall install pull box and loop of lighting circuit
conductors in the pull box for connection by the
signing contractor.
The signing contractor shall furnish and install
luminaires. Nema 3R enclosure, 30 amp breaker,
conductors, ground rods, pull boxes and service point
equipment. The signing plans shall indicate the location
of the service point equipment and circuit runs.
The signing contractor shall provide all electrical
equipment necessary for connection of the sign lights.

Roadway lighting not included in contract:
The signing plans shall include pay item numbers
to furnish and install conduit, conductors, ground
rods, pull boxes and service point equipment.
The signing plans shall indicate the location
of the service point equipment and circuit runs.
The signing contractor shall provide all electrical
equipment necessary for connection of the sign lights.

PLACEMENT OF SIGN LIGHTS
1. Luminaires that recommend their fixture be tilted shall be mounted on a bracket
   which provides the recommended tilt.
2. Luminaires shall be spaced and arm lengths are shown on guide sign worksheet.
3. Guide sign worksheet indicates sign luminaire used for basis of design. The
   contractor may propose a different luminaire by submitting photometric
   calculations for each lighted sign for review.
NOTES

1. Dimension to be established by type and make of luminaire to be purchased and used on the project.

2. The center lines of both flange plates and the luminaire support arm are to be set parallel to the roadway before the set screw is seated.

3. All steel pipe shall meet the strength requirements of ASTM Specification A335 Grade "A" or Grade "B". Steel plate shall meet the requirements of ASTM A568. Nuts and washers shall meet the requirements of ASTM A307.

4. All items shall be hot dip galvanized after fabrication in accordance with the requirements of Specification Section 962.

5. Luminaire support arm shall be free to rotate in a clockwise or counter clockwise direction. When service or maintenance is required for sign face or vertical face of truss.

6. All pipe dimensions are NPS.

7. The SK3.25A0.01 Zee vertical hanger option cannot be used when installing sign lighting.

**PLATE A**

**SECTION AA**

- 3" Pipe
- 2½" Pipe
- 2½" Pipe

**SECTION BB**

- 6" x 2½" x 16° ± 15'
- Drill & Tap For 1½" Ø Bolt On 2½" Bolt Circles (2 Holes Req'd.)
- Wall Plate And Elastic Nut
- Ø Bolt On 2½" Softened Fasteners

**DETAIL "A"**

- 2½" Sch. 40 Steel Pipe
- 3½" NPS Schedule 40 Pipe
- 2½" Pipe Coupling
- 2½" Sch. 40 Steel Pipe
- 2½" Tee

**PLATE "A"**

- 2½" Threaded Nipple
- 2½" Sch. 40 Steel Pipe
- 2½" Pipe Coupling
- 2½" Pipe

**HANGER 1 6X4.69**

- Top Truss Chord
- Chord O.D. + 6" (Min.)
- Bottom Truss Chord
- Chord O.D. + 6" (Min.)

- 3½" NPS Schedule 40 Pipe (Min.)
- See Enlarged Detail "A" Of Pipe Support For Luminaire
- 3½" NPS Schedule 40 Pipe (Min.)
- See Enlarged Detail "A" Of Pipe Support For Luminaire

- Varies 4 to 6'
- Drill & Tap For 2½" Ø Bolt Circles (2 Holes Req'd.)

**WIND BEAM**

- Typical Zee 342.69x2.33
- Wind Beam

**PICTURE CAP**

- Ø U-Bolts With Lock Washers And Elastic Nuts (2 Bolts Req'd.)
- Top Horizontal Pipe (3½" NPS Schedule 40 Pipe)

**PLATE "A"**

- Plate "A"
- 2½" Sch. 40 Steel Pipe
- 2½" Sch. 40 Steel Pipe

**PLATE "A"**

- 2½" Sch. 40 Steel Pipe
- 2½" Sch. 40 Steel Pipe

**BOLT CIRCLES**

- Ø Bolt Circles
- Ø Bolt On 2½" Softened Fasteners

**NOTES**

- 2½" to 1½" Reducing Coupling
- 2½" to 1½" Reducing Coupling

**REFERENCE**

- FDOT 2014 DESIGN STANDARDS
- EXTERNAL LIGHTING FOR SIGNS

**INDEX NO.**

- 17505

**SHEET NO.**

- 2 of 2