CONSTRUCTION NOTES:

1. INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE L.E.D. MEETING SECTION 700 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

2. UTILIZE THE FOLLOWING TEXT ATTRIBUTES IN DESCENDING ORDER OF PREFERENCE:
   - 10-INCH UPPER CASE WITH 8-INCH LOWER CASE, TYPE EM FONT
   - 10-INCH UPPER CASE WITH 8-INCH LOWER CASE, TYPE E FONT
   - 8-INCH UPPER CASE WITH 6-INCH LOWER CASE, TYPE EM FONT
   - 8-INCH UPPER CASE WITH 6-INCH LOWER CASE, TYPE E FONT

   THE STREET TYPE SHALL BE HALF HEIGHT, RAISED.

3. INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE 24" HEIGHT FOR A SINGLE STREET NAME AND 30" FOR A DOUBLE STREET NAME. INTERNALLY ILLUMINATED STREET NAME SIGN WIDTH SHALL BE IN 1 FOOT INCREMENTS TO A MAXIMUM OF 10 FEET.

4. INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE CANTILEVER MOUNTED AT SPAN WIRE SIGNALIZED INTERSECTIONS.

5. SWING MOUNT INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE DOUBLE SIDED (2-WAY).

6. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL.

7. INTERNALLY ILLUMINATED SIGNS SHALL INCLUDE TERMINAL COMPARTMENT FOR TERMINATION OF SIGNAL CABLE IN THE SIGN ASSEMBLY.

8. TWO BRACKETS SHALL BE FURNISHED FOR EACH STREET NAME SIGN WITH A WIDTH EQUAL TO OR GREATER THAN 48 INCHES.

9. SIGN BRACKET SHALL BE MANUFACTURED BY PELCO PRODUCTS INC., OR APPROVED EQUIVALENT.

10. INTERNALLY ILLUMINATED STREET NAME SIGNAGE SHALL BE DESIGNED USING A WHITE MESSAGE ON A GREEN BACKGROUND WITH A 1 INCH WHITE BORDER, THE LEGEND, AND BORDER SHALL BE DIAMOND GRADE REFLECTIVE FILM. THE BACKGROUND SHALL BE ENGINEERED GRADE REFLECTIVE FILM.

11. INTERNAL ACCESS TO SIGN ASSEMBLY SHALL BE PROVIDED BY A SWING DOWN DOOR SIGN FACE.

12. INTERNALLY ILLUMINATED STREET NAME SIGN SHALL BE MANUFACTURED BY TRANSPORTATION CONTROL SYSTEMS, INC. OR APPROVED EQUIVALENT.
CONSTRUCTION NOTES:

1. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL.

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TYPICAL MAST ARM SWING MOUNT STREET NAME SIGN DETAIL

STREET NAME SIGN DETAIL

P/L

STAINLESS STEEL CABLES

PELCO PRODUCTS INC. OR EQUIVALENT.

STAINLESS STEEL BOLTS, NUTS, & LOCK WASHERS.

MAST ARM

STREET NAME SIGN.
1. The Contractor shall verify the pole and dimensions required for installation of the Sign Bracket Arm and mounting angle before manufacturing Sign Bracket Arm.

2. Work this sheet with Sign Bracket Arm - Sign Panel Details sheet for additional installation details.

3. DESIGN WIND SPEED = 150 MPH
   Design Loads from the center of the vertical pipe are as follows:
   - Horizontal Moment = 9329 FT LBS
   - Vertical Moment = 2753 FT LBS
   - Horizontal Shear = 1696 LBS
   - Vertical Shear = 319 LBS

4. The Contractor may propose an alternative Sign Bracket Arm design at no additional cost to the Collier County. The Contractor's alternative shall be designed in accordance with the latest edition of the FDOT Plans Preparation Manual and AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals.

5. If an alternate design is proposed the Contractor shall submit design calculations and shop drawings signed and sealed by a Professional Engineer Registered in the State of Florida.

6. All Structural Steel except for Structural Tubing shall conform to ASTM A572 Grade 50. Structural Tubing shall conform to ASTM A53 Grade B. All bracket plates shall be hot bent.

7. All Bolts shall be High Strength A325 Bolts and shall receive Electrodeposited Coating in accordance with ASTM B633.

8. The Complete Sign Bracket Arm Assembly shall be hot-dipped Galvanized in accordance with ASTM A123.

9. WELDING: All welding shall be in accordance with American Welding Society Structural Welding Code (Steel), AWS/D1.1 (current edition). Required weld material is E70XX. Nondestructive testing is not required.

10. Field Welding shall not be permitted.

11. Cantilever shall be painted the same color as the mast arm, monotube, or steel strain poles.

12. Cantilever shall be manufactured by Highway Systems, Inc. or approved equivalent.
1. The Contractor shall verify the pole and dimensions required for installation of the Sign Bracket Arm and mounting angle before manufacturing Sign Bracket Arm.

2. Work this sheet with Sign Bracket Arm – Sign Panel Details sheet for additional installation details.

3. **DESIGN WIND SPEED = 130 MPH**
   - Design Loads from the center of the vertical pipe are as follows:
     - Horizontal Moment = 9229 FT LBS
     - Vertical Moment = 2753 FT LBS
     - Horizontal Shear = 1896 LBS
     - Vertical Shear = 319 LBS

4. The Contractor may propose an alternative Sign Bracket Arm design at no additional cost to the Collier County. The Contractor’s alternative shall be designed in accordance with the latest edition of the FDOT Plans Preparation Manual and AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals.

5. The Contractor shall verify the pole and dimensions required for installation of the Sign Bracket Arm and mounting angle before manufacturing Sign Bracket Arm.

6. All Structural Steel except for Structural Tubing shall conform to ASTM A572 Grade 50. Structural Tubing shall conform to ASTM A53 Grade B. All bracket plates shall be hot bent.

7. The Complete Sign Bracket Arm Assembly shall be hot-dipped Galvanized in accordance with ASTM A5.33.

8. All Bolts shall be High Strength A325 Bolts and shall receive Electrodeposited Coating in accordance with ASTM A5.33.

9. WELDING: All Welding shall be in accordance with American Welding Society Structural Welding Code (Steel) AWS/A4.4.0.0.5 (current edition). Required weld material is E7014. Nondestructive testing is not required.

10. Field Welding shall not be permitted.

11. Cantilever shall be painted the same color as the mast arm, monobase, or steel strain poles.

12. Cantilever shall be manufactured by Highway Systems, Inc. or approved equivalent.
ILLUMINATED STREET NAME SIGN

PLAN VIEW
Concrete Strain Pole Shown - Round Steel Pole Similar

ELEVATION VIEW
Concrete Strain Pole Shown - Round Steel Pole Similar

For Internally Illuminated Signs
Power service attachment shall be located on the edge of the Sign Panel adjacent to the pole.

Hanging Hardware shall allow for free swinging sign.

Edge of Sign Panel shall be aligned with the pole cap.

Sign Panel shall be level after installation.

COLLIER COUNTY
GROWTH MANAGEMENT DIVISION
ILLUMINATED STREET NAME SIGN
INSTALLATION DETAILS