

IV - TECHNICAL SPECIFICATIONS

BID NO. LED STREET NAME SIGN LAMPS

Name of Firm

INTENT:

These specifications provide a minimum standard for Light Emitting Diode (LED) illuminated street name sign tube lamps. Each 8-ft LED tube lamp shall be replacing an 8-ft fluorescent tube. The illuminated street name sign tube lamps offered shall be new and unused.

These specifications shall be construed as minimum requirements. Should the manufacturer's current published data or specifications exceed these, as determined and approved by the Owner, they shall be considered as minimum specifications and be furnished by the Bidder.

BIDDERS MUST RETURN THE ORIGINAL OR A PHOTOCOPY OF THIS FORM AND MAKE AN ENTRY FOR EACH SPECIFICATION IN THE SPACE PROVIDED OPPOSITE THE SPECIFICATIONS, INDICATING ANY VARIANCES IN THE SPECIFICATION. IF THERE IS NOT ENOUGH SPACE, ATTACH AN ADDITIONAL SHEET OF PAPER.

SPECIFICATION NO. 1 – PHOTOMETRIC:		YES	NO	IF NO, SPECIFY
1.1	Street name sign lamp shall have a normal Correlated Color Temperature (CCT) of 4000°K to 5000°K.			
1.2	Street name sign lamp shall have a Coloring Rendering Index (CRI) ≥ 80.			
1.3	Street name sign lamp shall be Bi-directional (dual side's illumination) and have ≥170° light distribution per side.			
SPECIFICATION NO. 2 – ELECTRICAL:		YES	NO	IF NO, SPECIFY
2.1	Street name sign lamp shall have a power factor ≥ 0.92.			
2.2	Street name sign lamp shall have a nominal operating voltage of 120 volts at 50-60 HZ.			
2.3	Street name sign lamp shall have a total power consumption of 40 watts maximum per lamp connector/receptacle.			
2.4	Street name sign lamp shall be certified by a nationally recognized testing laboratory.			
SPECIFICATION NO. 3 – LED TUBE LAMP:		YES	NO	IF NO, SPECIFY
3.1	Street name sign lamp shall have an operating temperature range from -10°F to 120°F (-23°C to 49°C).			
3.2	Street name sign lamp must fit into a single pin T-12 fluorescent lamp receptacle for an 8-ft illuminated street name sign enclosure.			
3.3	Street name sign lamp shall have a Fa8 lamp single-pin contacts.			
3.4	Street name sign lamp lens shall be polycarbonate.			
3.5	Street name sign lamp must operate at 77°F (25°C) for a minimum of 50,000 hours before the LED light output has decreased to 70% of initial output (L70).			
3.6	Street name sign lamp shall have internally built-in drivers. No external drivers are accepted.			
3.7	Street name sign lamp shall have light output of minimum 2,500 lumens per lamp.			

SPECIFICATION NO. 4 – WARRANTY:	YES	NO	IF NO, SPECIFY
A warranty must be provided for the replacement or repair of the street name sign lamp due to any electrical failure (including light source and power supplies/drivers) for a minimum of five (5) years after final acceptance of the materials. Contractor shall provide all warranty documents to Clark County Public Works Traffic Management Divisions at time of product delivery. Documents shall contain project name, bid number of the project, manufacturer, brand, model, and quantity of tube lamps delivered.			