



## **CITY OF MANSFIELD ELECTRIC AND STREET LIGHT DESIGN AND INSTALLATION GUIDELINES / OCTOBER 2021**

### **GENERAL**

- Designers should contact City of Mansfield staff prior to designing or bidding project. Contact the appropriate Engineering staff member for information regarding the location of water, sanitary sewer and storm sewer lines. The design process should include the submittal of plans to the City of Mansfield.
- Non-emergency installations require a Right-of-Way Permit (no cost). Plans must be submitted on all projects.
- Wet utilities will be field located by the City's Field Operations Department. Contractors need to notify the City's Field Operations Department per normal standards for locates.
- Minimum trench compaction standard of 95% Standard Proctor is required. Compaction testing may be required by City of Mansfield if Contractor is suspected of failure to meet performance standards.

### **RESIDENTIAL**

#### Electric Lines

Typically installed at front of lot. May also be installed in the right-of-way on the opposite side of the street from the water line.

#### Oncor Street Lights

- 25-foot galvanized tapered steel poles with cobra heads
  - 11' American decorative poles with Acorn luminaires
- Alternate Oncor poles and luminaires may be permitted in specific circumstances
- All bulbs to be 100 Watt, 4,000k LED.

#### UCS Street Lights

- 12' Cooper-Washington Antique pole and light
- All bulbs to be 100 Watt, 4,000k LED.

#### Median Lighting

Developers are responsible for providing median lighting on divided thoroughfares within their developments. See thoroughfare lighting section for standards. Electric lines

for median lighting should be installed 2-foot inside the future back of curb of the inside lane.

*Cobras*

- Locate one luminaire at all intersections, near midpoints of all long curves and at end of cul-de-sacs longer than 150 feet. Maximum spacing of 500 feet. Luminaires on curves should be placed on the outside of curve.
- Installed on or at property line.
- Avoid conflicts with curb ramps and future sidewalks. The developer will be required to construct barrier-free access ramps by the paving contractor. All thoroughfares will have 5-foot wide walks in the standard location of 1-foot off the right-of-way line.
- Distance between back of curb and property line varies.

Cul-de-sacs	9.5 feet between B/C and PL
50 foot R.O.W. (29' pavement B/B)	10.5 feet between B/C and PL
60 foot R.O.W. (37' pavement B/B)	11.5 feet between B/C and PL
- All bulbs to be 100 Watt, 4,000k LED.

*Decorative*

- Locate one luminaire at all intersections, near midpoints of all long curves and at end of cul-de-sacs longer than 100 feet. Maximum spacing of 200 feet. Luminaires on curves should be placed on the outside of curve.
- Installed 1.5 to 2.5 feet behind curb.
- Avoid conflicts with barrier-free ramps and future sidewalks. If sidewalks will be installed, the developer will be required to construct barrier-free access ramps by the paving contractor.
- All bulbs to be 100 Watt, 4,000k LED.

**THOROUGHFARES**

*90 foot R.O.W. (4-lane divided) and 120 foot R.O.W. (6-lane divided)*

- Street lights to be 30-foot, round, tapered, galvanized steel poles, anchor base with double cobra heads placed in medians.
- Spacing to be approximately 200 feet. Left turn lanes and intersections must be well lit.
- All feeds and lighting lines to be underground.
- Overhead power lines preferably on one side of street only. Please contact City if installation on both sides is deemed necessary.
- All bulbs to be 140 Watt, 4,000k LED.

*70 foot R.O.W. (4-lane and 3-lane undivided)*

- Cobra heads may be used on existing or relocated pole lines. Contact City to discuss lighting at time of utility relocation design.
- Locate one luminaire at all intersections and near midpoints of all long curves. Maximum spacing of 150 feet, alternate sides of street at property line.

- Overhead power lines preferably on one side of street only. Please contact City if installation on both sides is deemed necessary.
- All bulbs to be 140 Watt, 4,000k LED.

#### **DOWNTOWN**

- Street lights to be 12' Aluminum Washington Lamp Post, Spring City Electrical Mfg. Co.
- Reading LED Luminaire
- All bulbs to be 125 Watt, 4,000k LED.
- Spacing to be approximately 100 feet.

#### **THE RESERVE PLANNED DEVELOPMENT**

- Kim Lighting Brand
- Era Luminaire
- Post Top Swept Cast Arm
- Stepped Aluminum Smooth Pole. Height - Parkway – 12', Roadway Median – 25'
- Heritage Standard Base Cover
- Spacing to be approximately 100 feet in Parkway, 180 feet in Roadway Median