

---

June 8, 2023

City of Lee's Summit  
220 SE Green  
Lee's Summit, MO 64063

**Re: Proposed LED Sign for Our Lady of Presentation Catholic Church**

Watchfire signs offers zoning friendly software to comply with local codes. Upon request the software can be preset to match the brightness, hold time, and transition settings mandated by those codes. The proposed LED sign for Our Lady of Presentation Catholic Church, to be located at 150 NW Murray Rd, will be configured for instantaneous changes between frames (no special effects) and hold times not less than 8 seconds. The LED sign software allows for programming content with out white back grounds choosing a "black" background as default.

A NIT is a measure of luminance and normally used to express the brightness of LEDs. Although no direct conversion, the brightness of LED signs is often expressed in foot-candles, a measurement of illuminance. The proposed LED sign will be configured not to exceed 0.3 foot-candles above existing ambient light levels at night at the specified distance once that distance has been determined.

**Brightness Controls**

- Watchfire LED display software uses what is referred to as a software photocell and relies on zip code location of the sign to determine the longitude and latitude. The sign is appropriately dimmed or brightened based around seasonally adjusted sunrise and sunset times.
- An actual one hundred step photocell is available to control brightness. When present the photocell takes priority over the software photocell. The photocell responds to actual light conditions.

Thank you,

**Ray Digby**

Office 800-637-2645, ext 3006  
email [ray.digby@watchfire.com](mailto:ray.digby@watchfire.com)