



## **Ross County Solar**

### **Exhibit F**

### **Lighting Plan**

**Case No. 20-1380-EL-BGN**

## Contents

1.	Introduction .....	2
2.	Construction Lighting.....	2
2.1.	Equipment .....	2
2.2.	Active Work Sites .....	2
2.3.	Security Lighting .....	2
3.	Lighting During Facility Operations.....	3
3.1.	Facility Entrances .....	3
3.2.	Substation .....	4
3.3.	Inverters .....	4
3.4.	O&M Building .....	4
4.	Complaint Resolution .....	4

## 1. Introduction

Ross County Solar, LLC (Ross County Solar) proposes to construct an up to 120 MW solar array (the Facility) in Ross County, Ohio. Ross County Solar seeks to be a good neighbor to nearby residences through the careful consideration, placement, and location of Facility lighting. To ensure that nuisance lighting is mitigated for nearby neighbors and area traffic, Ross County Solar has developed the following lighting plan. Ross County Solar has developed a separate screening plan that will further reduce visibility of the Facility for nearby residents.

## 2. Construction Lighting

Lighting during Facility construction is anticipated to be minimal. Construction will occur between the hours of 7:00 a.m. and 7:00 p.m. or until dusk when sunset occurs after 7:00 p.m. Limited construction that does not contribute to excess noise at sensitive receptors may occur outside of these hours. As most construction operations are limited to these hours, construction lighting will only be necessary near dawn and dusk, as well as for limited nighttime construction activities. Types of construction lighting needed during these limited low-light conditions are identified below:

### 2.1. Equipment

Equipment with buckets such as backhoes or excavators will have illumination adequate to light the equipments' operating reach. Non-rotational equipment will typically illuminate 50 feet in front and behind and 5 feet to each side of the equipment. Equipment will be affixed with standard headlights as well as flood lights. Equipment will regularly be checked to ensure that lighting remains in good operational condition. All pieces of equipment will have illuminated controls for safe operations.

### 2.2. Active Work Sites

Active work sites are defined as any location where construction equipment is operating, workers are active, or both. Active work sites will utilize portable and equipment mounted lights to safely illuminate the entire work area. Headlights will not be the sole means of illumination.

As work progresses, portable lighting will be moved and adjusted to illuminate the active work site. When practicable, both equipment lighting and portable lighting will be oriented to face away from roadways or nearby residences. When practicable, portable lighting will be faced downward and perpendicular to adjacent roads to decrease impacts to traffic.

### 2.3. Security Lighting

Lighting is necessary near Facility equipment to ensure security of construction equipment and materials. The contractor will implement security lighting near temporary trailers or near equipment and laydown yards. This lighting will consist of floodlights. Motion activated strobe lighting may also be utilized for added security. When practicable, lighting will be oriented away from nearby residences or toward the Facility interior.

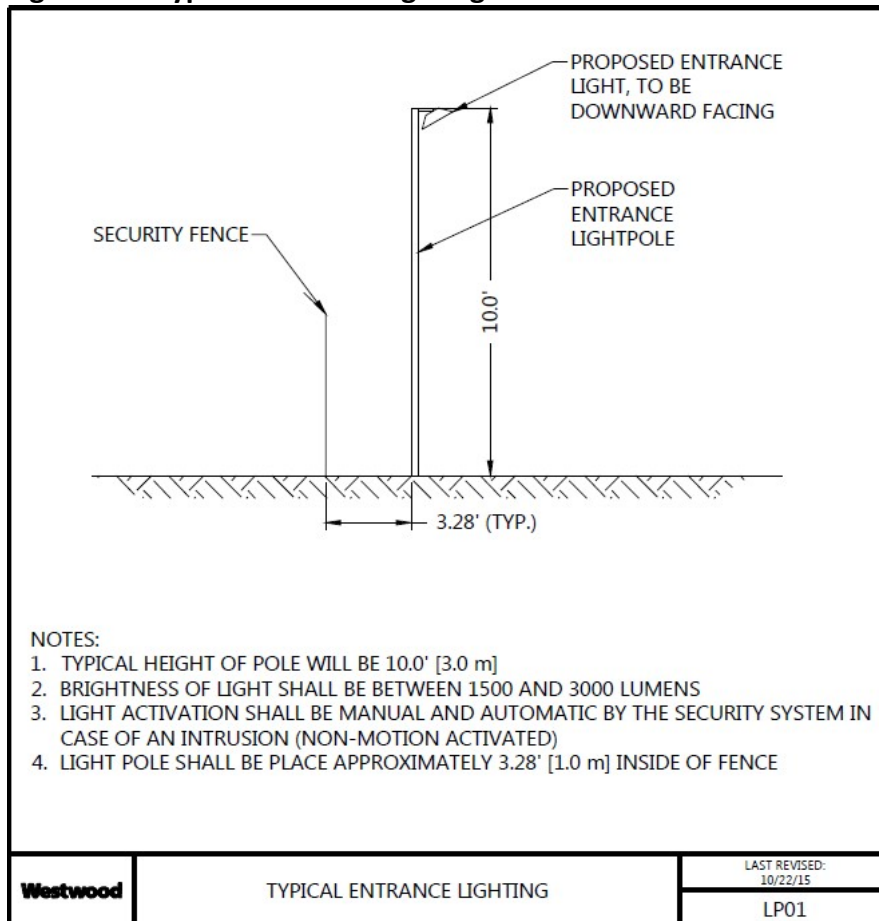
### 3. Lighting During Facility Operations

Lighting necessary for the regular operation of the Facility is limited. Some lighting is necessary for safety and security and for efficient Facility operations. Lighting will be located at the Facility entrances, inverters, O&M building, and substation, as outlined below. The preliminary Facility layout identifies the anticipated location of these features. A Final Site Plan, to be developed prior to construction, will provide the exact placement of these features. While the location of these features is subject to refinement, characteristics of the lighting described below will remain.

#### 3.1. Facility Entrances

For safety and security, the Facility will have lighting at each entrance, directly inside of the fenced and gated boundary. Lighting will be down lit, typical pole height will be ten feet, and lighting will be switch and motion activated. Figure 3-1 describes anticipated Facility lighting at the entrances.

**Figure 3-1. Typical Entrance Lighting**



### 3.2. Substation

Lighting will be installed around the substation for safety and security during operation. Lighting at the substation will be operational throughout nighttime hours. Lighting at the substation will be downlit to avoid adverse impacts to traffic or nearby residences. Additional lighting will be installed only as necessary to meet national and state code requirements.

### 3.3. Inverters

For safety and security, and efficient operation, the Facility will have lighting at each inverter location. Lighting will be mounted above the inverter on a mast of no greater than 10 feet in height. Lighting will be downlit and will be motion and switch activated.

### 3.4. O&M Building

For safety and security, and efficient operation, the Facility will have lighting at the O&M building. Lighting will be located near the O&M building door. It will be both shielded and downlit, and switch as well as motion activated.

## 4. Complaint Resolution

Ross County Solar is committed to addressing landowner concerns regarding lighting during Facility construction and operations. Per the complaint resolution program developed for the Facility, Ross County Solar will have a hotline, website, and form available to address public questions and concerns. Ross County Solar is willing to work with the public to address their concerns related to Facility lighting during construction and operation.

**This foregoing document was electronically filed with the Public Utilities**

**Commission of Ohio Docketing Information System on**

**10/30/2020 3:49:07 PM**

**in**

**Case No(s). 20-1380-EL-BGN**

Summary: Application Application Exhibit F electronically filed by Mr. Michael J. Settineri on behalf of Ross County Solar, LLC