

December 10, 2025

Kane County Government Center
719 S Batavia Ave
Building A, 4th Floor
Geneva, IL 60134

**Re: Special Use Permit Application
Douglas Family Farm Butterfly Garden and Solar Farm LLC
Structural Engineer's Certificate**

To Whom it May Concern,

Kimley-Horn and Associates, Inc., serves as the engineering consultant for SunCode. SunCode is seeking a Special Use Permit to build a commercial solar energy facility in Kane County, Illinois. The Project, Douglas Family Farm Butterfly Garden and Solar Farm LLC, is sited south of Jericho Road. Douglas Family Farm Butterfly Garden and Solar Farm LLC is a proposed 5.0 MWAC commercial solar energy facility.

As required by the local ordinance, a structural engineer registered in the State of Illinois must certify that the soils and subsurface conditions at the site can support the apparatus, given local soil, subsurface and climate conditions. We are writing today to state that it is our professional opinion that the soil conditions at the site are satisfactory for development and construction of a typical ground-mount solar facility. The soils fall into the NRCS unified soil classifications of 67A, 103A, 152A, 171A, 171B, 198A, 330A, 356A, 512B, 512C2, 618E, 656B, 656C2, 656D2, 662B, 663B, 969E2, and W which are mostly comprised of silty clay loam and silt loam.

The foundations at a solar facility are most often driven steel piles and concrete slabs. The piles are used to support the solar racking and solar modules, and the slabs are used to support larger equipment such as inverters, transformers and other electrical equipment as required. The foundations will be designed per a site-specific geotechnical report that contains foundation requirements. For weaker soils, the piles are often larger and driven deeper than for strong soils. The slabs will be designed to avoid settlement and often require subgrade preparation such as replacement of soils near the surface, placing structural fill/gravel, and compaction. The subgrade recommendations will also be provided in the final geotechnical report.

Kimley-Horn has provided engineering on over 1,500 solar projects across the country. Our experience from these projects suggests that the soils at the proposed solar site are satisfactory for construction of a solar facility. The final details of the foundations will be determined after the geotechnical investigation and after final engineering design.

If you have any questions based on the notes above, please let us know.

Sincerely,

Kimley-Horn and Associates, Inc.

David Franklin, IL SE
Structural Engineer
David.Franklin@kimley-horn.com

