**SYSTEM SPECIFICATIONS**

- **SYSTEM SIZE DC**: 3.0975 MW
- **SYSTEM SIZE AC**: 2.0000 MW
- **DC/AC RATIO**: 1.549
- **AZIMUTH**: 180°
- **TILT**: ±52°
- **MODULE COUNT**: 5900
- **MODULE TYPE**: JINKO EAGLE 72HM G5B-JKM525M-72HL4-TV
- **MODULE STC RATING**: 525 W
- **INVERTER COUNT**: 16
- **INVERTER TYPE**: SMA SUNNY HIGHPOWER PEAK3 125-US
- **INVERTER POWER**: 125kW
- **RACKING**: TBD
- **MONITORING**: ALSO ENERGY

**REVIZIONS**

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</table>

**CONTACT**

KEVIN CORCORAN
SV CSG KIRKLAND 2, LLC

**PROJECT ADDRESS**

32988 PEARL ST
KIRKLAND, IL 60146

**LAT**: 42° 6'26.46"N  
**LONG**: 88° 50'22.88"W

**SYSTEM CRITERIA**

- **MIN/MAX TEMP.**: -26°C / 33°C
- **WIND SPEED (ASCE 7-10)**: 105 MPH
- **BUILDING CATEGORY**: I
- **EXPOSURE CATEGORY**: C
- **GROUND SNOW LOAD**: 25 PSF
- **BUILDING HEIGHT**: 0'-0"
1. 8’ CHAIN LINK FENCE

2. 8’ CHAIN LINK FENCE GATE

NOTE:
1. THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY AND NOT TO BE USED FOR CONSTRUCTION.
2. DO NOT SCALE DRAWING.
PLANTING SCHEDULE

TYPE: BLACK HILLS SPRUCE

HEIGHT: 9.5' SPECIFIED IN ZONING ORDINANCE

NUMBER OF ROWS: 1

SPACING: 8' O.C.

BLACK HILLS SPRUCE SCREENING

EVERGREEN PLANTING DETAIL

EVERGREEN PLANTING DETAIL

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**WARNING**

Electric shock hazard. Terminals on the line an load sides may be energized in the open position.

**WARNING**

Arc flash and shock hazard. Appropriate PPE required.

**WARNING**

Power source output connection do not relocate this overcurrent device.

**WARNING**

This equipment fed by multiple sources. Total rating of all overcurrent devices excluding main supply overcurrent device shall not exceed ampacity of busbar.

**WARNING**

Turn off photovoltaic ac disconnect prior to working inside panel.

**WARNING**

Max voltage, max circuit current, max rated output current of the charge controller or dc-to-dc converter (if installed).

**CAUTION**

Power to this service is also supplied from the following sources with disconnects located as shown.

**GENERAL NOTES**

1. Detail such as voltage, ampere, etc. for each label shall be included in the "Approved for construction" drawing.
2. Calculated values for arc flash label will be provided in the "Approved for construction" drawing.

**DRAWING SHEETS AND CONTENTS NOT TO BE DISTRIBUTED WITHOUT EXPLICIT WRITTEN CONSENT FROM NEW ENERGY EQUITY LLC.**
GENERAL NOTES:

(1) ALL LABELS MUST COMPLY WITH 2020 NEC 110.21(B):
(2) LABELS AS PROVIDED AND NOTED ON THIS SHEET MEET WARNING, EFFECTIVE WORDING AND COLOR/SYMBOL REQUIREMENTS
(3) LABELS SHALL BE PERMANENTLY AFFIXED TO EQUIPMENT OR WIRING METHOD
(4) LABELS SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. STICKERS OF PROPER DURABILITY AND ADHESION ARE PREFERRED. REFERENCE ANSI Z535.4-2011 FOR GUIDELINES.

SPECIFIC LABEL NOTES:
A. 2020 NEC 690.13(D)
B. 2020 NEC 110.16
C. 2020 NEC 705.12(B)(1)(b)
D. 2020 NEC 110.27(C)
E. 2020 NEC 110.27(C)
F. 2020 NEC 690.53
G. XCEL REQUIREMENT
H. XCEL REQUIREMENT
I. LABEL REMOVED
J. XCEL REQUIREMENT
K. 2020 NEC 690.54
L. 2020 NEC 690.55
M. LABEL FOR ACCUMULATION PANEL
N. 2020 NEC 690.31(F)
O. 2020 NEC 690.56(C)
P. 2020 NEC 690.13(B)
Q. 2020 NEC 690.13(B)
R. 2020 NEC 690.54
S. 2020 NEC 690.54
T. 2020 NEC 690.13(B)
U. LABEL FOR POINT OF INTERCONNECTION
V. 2020 NEC 705.10 SYSTEM PLACARD
W. 2020 NEC 690.56(C)(1)
X. 2020 NEC 690.59

EQUIPMENT LABELS:

- ACCUMULATION PANELS, COMBINER BOXES, PULL BOXES, ENCLOSURES: A, B, E, M
- DC CONDUIT: N
- RAPID SHUTDOWN: O, W
- ENERGY STORAGE: L
- INVERTERS: K
- MONITORING EQUIPMENT: G
- METERS: H, J, X
- DC DISCONNECT: A, F, Q
- POINT OF INTERCONNECTION: A, C, D, U, V, E

WARNING DUAL POWER SOURCE
SECOND SOURCE IS PV SYSTEM
EXISTING 3-PHASE UTILITY LINES
NEW INTERCONNECTION POLES
24' x 48' PARKING SPACE
15' NEW ACCESS ROAD ~100'
SEPARATE ARRAY EQUIPMENT PAD
UTILITY TRANSFORMER

SECTION 1: AC COMBINER PANEL
SECTION 2: OWNER CT CABINET
SECTION 3: PV AC DISCONNECT
SECTION 4: UTILITY PV AC DISCONNECT AND BRANCH BREAKERS

TELEMETRY AND AUX. LOAD EQUIPMENT
BILLING METER

CONCRETE EQUIPMENT PAD
EQUIPMENT PAD
GROUNNING TRANSFORMER

INTERCONNECTION PLAN
EQUIPMENT PAD PLAN

REVISIONS
# DESCRIPTION BY DATE
1 EXTENDED ACCESS ROAD RSS 2/13/2018
2 AC SIZE CHANGED KHC 4/5/2018
3 CO-LOCATION UPDATE KHC 4/17/2018
4 SUP UPDATE KHC 8/20/2018
5 UPDATE KHC 1/11/2019
6 INVERTER/SINGLE LINE UPDATE IR 9/17/2019
7 TRACKERS SPC 3/18/2020
8 IL REFILE ELD 8/30/2021
9 JINKO525 & SUP UPDATE AE 2/16/2022

SYSTEM SPECIFICATIONS
SYSTEM SIZE DC 3.0975 MW
SYSTEM SIZE AC 2.0000 MW
DC/AC RATIO 1.549
AZIMUTH 180
TILT +/- 52°
MODULE COUNT 5900
MODULE TYPE JINKO EAGLE 72HM G5B-JKM525M-72HL4-TV
MODULE STC RATING 525 W
INVERTER COUNT 16
INVERTER TYPE SMA SUNNY HIGHPOWER PEAK3 125kW
RACKING TBD
MONITORING ALSO ENERGY

DESIGN CRITERIA
MIN/MAX TEMP. -26°C / 33°C
WIND SPEED (ASCE 7-10) 105 MPH
BUILDING CATEGORY I
EXPOSURE CATEGORY C
GROUND SNOW LOAD 25 PSF
BUILDING HEIGHT 0'-0"

NEW ENERGY EQUITY, LLC
2530 RIVA ROAD, SUITE 200
ANNAPOLIS, MD 21041
NEWENERGYEQUITY.COM
443-267-5012

DESIGNER
KEVIN CORCORAN
PROJECT NAME
SV CSG KIRKLAND 2, LLC
DRAWING TITLE
SWITCHGEAR DETAIL
SCALE NTS
SHEET E3
### System Specifications

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### Design Criteria

- **Min/MAX Temp.**
  - Min: -26°C
  - Max: 33°C

- **Wind Speed (ASCE 7-10)**
  - 105 MPH

- **Building Category**
  - I

- **Exposure Category**
  - C

- **Ground Snow Load**
  - 25 PSF

- **Building Height**
  - 0'-0" (0 meters)

### Revisions

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SIGNS ARE TO BE 10" WIDE BY 7" HIGH AND PLACED EVERY 50' ALONG FENCE