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

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

REVISIONS

- #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
SUNVEST SOLAR INC.
25 NORTH RIVER LANE
GENEVA, IL 60134
SUNVEST.COM
262-527-1200

SV CSG KIRKLAND 1, LLC
OTHER NOTES
DRAWN BY
KEVIN CORCORAN

PROJECT ADDRESS
32988 PEARL ST
KIRKLAND, IL 60146
LAT: 42° 6'26.46"N
LONG: 88°50'22.88"W

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SYSTEM SIZE AC
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INVERTER POWER
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"

REVISIONS
# DESCRIPTION BY DATE
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PROJECT NAME
SV CSG KIRKLAND 1, LLC
DRAWING TITLE
NEAREST AIRPORT DETAIL
SHEET
PV4

DRAWING SHEETS AND CONTENTS NOT TO BE DISTRIBUTED WITHOUT EXPPLICIT WRITTEN CONSENT FROM NEW ENERGY EQUITY LLC.
"DRAWING SCALE ACCURATE WHEN THIS PAGE IS PRINTED ON 24"X36" PAPER."
PLANTING SCHEDULE

TYPE: BLACK HILLS SPRUCE

HEIGHT: 9.5' SPECIFIED IN ZONING ORDINANCE

NUMBER OF ROWS: 1

SPACING: 8' O.C.

1. BLACK HILLS SPRUCE SCREENING

PRUNE OUT MISDIRECTED BRANCHES, PRUNE ONE CENTRAL LEADER.

GUARD AND STAKING AS REQUIRED, FOR ONE (1) YEAR ON ALL DECIDUOUS AND CONIFEROUS TREES. TOP STAKES 6' ABOVE GROUND (MAX.) OR TO FIRST BRANCH BOTTOM OF STAKE 3' (MIN.) BELOW GROUND. STAKING POSTS TO BE 2"X2" STAINED WOOD OR PLANTED STEEL. PLACE 3 POSTS EQUITANDLY AROUND AND OUTSIDE ROOT BALL. SECURE TREE TO POSTS WITH 1/4" LONG POLYPROPYLENE OR POLYETHYLENE, 40 MIL., 1/2" WIDE STRAP.

PLACE MULCH, DEPTH AS SPECIFIED OVER PLANT PITS - DO NOT PILE AGAINST TRUNK.

FORM 3" DEEP WATERING BASIN.

BACKFILL PLANT PIT WITH SPECIFIED BACKFILL SOIL.

SCAFFY SIDES AND BOTTOM OF HOLE.

REFER TO AMERICAN STANDARD FOR NURSERY STOCK FOR MINIMUM BALL SIZE. ROOT FLARE TO BE PLANTED AT OR NEAR FINISHED GROUNDLINE.

SET ROOT BALL ON UNDISTURBED SUBSOIL OR COMPACTED SOIL. MOUND MATCHING TREES NATURAL GROUNDLINE WITH FINISHED SITE GRADE.

2. EVERGREEN PLANTING DETAIL

8' O.C.

3. PLAN VIEW
**SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN**

**TURN RAPID SHUTDOWN TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN ARRAY**

**WARNING DUAL POWER SOURCE SECOND SOURCE IS PV SYSTEM**

**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**

- 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**

**WARNING DUAL POWER SOURCE SECOND SOURCE IS PV SYSTEM**

- 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
EXISTING 3-PHASE UTILITY LINES
NEW INTERCONNECTION POLES
24' x 48' PARKING SPACE
UTILITY TRANSFORMER
EQUIPMENT PAD

INTERCONNECTION PLAN

CONCRETE EQUIPMENT PAD
BILLING METER

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
GROUNDING TRANSFORMER

EQUIPMENT PAD PLAN

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

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**DESIGN CRITERIA**

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- **GROUND SNOW LOAD**: 25 PSF
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**REVISES**

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**EQUIPMENT DOCUMENTS**

- **E4**
SIGNs ARE TO BE 10" WIDE
BY 7" HIGH AND PLACED
EVERY 50' ALONG FENCE