



REVISION ENERGY

Town of Henniker
Planning Board
18 Depot Hill Rd
Henniker, NH 03242

Dear Planning Board,

ReVision Energy has been contracted to design and construct a ground mount solar energy system for the Eisen residence, located at 148 Gould Pond Rd, to offset 100% of the home's electricity demand. We are requesting a Conditional Use Permit from the Board to allow the project for Parcel Lot # 4-328-E, Zone RR, owned by Gerald F and Kathryn Eisen, per the Grantham Zoning Ordinance, **Article IV, 133-20 C Solar Energy Systems**.

Enclosed you will find the Site Plan application, Narrative, Standards of Review and Abandonment or Decommissioning plan as outlined in **Article IV, 133-20, F. Solar Energy System - Conditional Use Permits & G. Abandonment or Decommissioning (Ground Mounted)**

Thank you for your time and consideration,

ReVision Energy Inc
7A Commercial Drive
Brentwood, NH 03833

Enclosures:

- 1) Cover Letter
- 2) Notarized Site Plan Review Application
- 3) Waiver Request - Site Plan Review Regulations
- 4) Narrative
- 5) List and Map of Abutters
- 6) Abutter Mailing Labels (Avery 5160) x3 copies
- 7) Property Assessment Card
- 8) Site Plan
- 9) Equipment Datasheets
- 10) Photographs
- 11) Application Fees



Received By
TOWN OF HENNIKER
OCT 10 2023
Building Planning & Zoning

November 10, 1768

Henniker Planning Board

CASE # _____

SITE PLAN REVIEW APPLICATION

Property Address: 148 Gould Pond Rd

Parcel Lot #: 4-328-E Zoning District: RR

Parcel Lot Size: 23.11A Road Frontage: _____

Type of Application: Change of Use
(Circle Type) Home Business Retail/Service
Conditional Use Permit Multi-Family Residential
Commercial/Industrial Development
Telecommunication

PROPERTY OWNER(s)

Name: Gerald F & Kathryn Eisen
Address: PO Box 114
Henniker, NH 03242
Tel #: _____
Fax #: _____
Email: _____

We, Gerald F. and Kathryn Eisen, authorize ReVision Energy Inc to act on our behalf as the applicant for the Site Plan Review for 148 Gould Pond Rd.

Property Owner Signature _____

State of New Hampshire
County of Merrimack
Signed and sworn before me on September 19th (date)
2023

(Seal)

APPLICANT(s)

Name: ReVision Energy Inc
Address: 7A Commercial Drive
Brentwood, NH 03833
Tel #: 603-583-4360
Fax #: _____
Email: brentwood-ops@revisionenergy.com
Signature: Heather Iworsky

Signature of Notary Public _____

Notary
Matthew Loeb Title
Notary Public, State of New Hampshire
My Commission Expires June 5, 2024
[My Commission expires _____]

If the property owner is not the applicant and/or wishes the applicant to act on their behalf, the property owner **MUST** provide a notarized letter (original) authorizing the applicant to file an application.

Telephone
603-428-3221

Town of Henniker
18 Depot Hill Road, Henniker, NH 03242
www.henniker.org

FAX
603-428-4366

APPLICATION INSTRUCTIONS

DATA TO BE PROVIDED WITH SITE PLAN REVIEW APPLICATION

- Narrative description of proposed development
- Planning Board meeting minutes from Conceptual Consultation, which is optional (Copies may be researched and obtained at Town Hall)
- Copy of the property tax map showing subject parcel and abutting properties (Copies may be researched and obtained at Town Hall)
- Copy of Property assessment card (Copies may be researched and obtained at Town Hall)
- Copies of any ZBA Notices of Decision (Variance or Special Exception) for project
- Planning Board Application Fees
- Abutter Notification List
- Plan Sets
 - Initial Application:
 - Seven 22"x34" copies of the plans for review by Planning, Conservation, Assessing, Highway, Fire, Town Sewer (if applicable) and Town Water (if applicable)
 - Revised Application Deadline:
 - Seven 22"x34" copies of the plans for Planning Board meeting
 - Eleven 11" x 17" copies of the plans for the Planning Board packets
- Copies of any State or Federal permits
- Copies of any deeds or easements
- Copies of Condominium declaration, bylaws, and floor plan (condo conversion)
- All required material as outlined in 203-12 and 203-13, as applicable, in the Town of Henniker Site Plan Review Regulations
- Waiver requests for any of the required material under 203-12 or 203-13 of the Town of Henniker Site Plan Review Regulations. Request must be in writing and explain why conformity to the requirements would pose an unnecessary hardship and how granting the waiver would not be contrary to the spirit and intent of the Regulation.

FEES

Fees **MUST** be paid at the time the application is submitted or the application will not be accepted. Fees can be paid in cash or by check made out to the "Town of Henniker".

Site Plan Application	\$375 application fee; \$500 escrow
Residential	\$100 per dwelling unit
Affordable Residential	\$30 per dwelling unit (as defined by US HUD)
Change of Use	\$190 application fee; \$250 escrow
Telecommunications	\$625 application fee; \$500 escrow
Telecommunications co-location	\$315 application fee; \$500 escrow
Newspaper Notice Fee:	\$125
Abutter Notification Fee:	\$10 per abutter notification address
Recording Fee:	\$30 per plan sheet, \$25 per document, \$25 LCHIP fee per plan set/document

<u>Amount enclosed with application:</u>	
Application Fee	\$ <u>375</u>
Initial Escrow	\$ <u>500</u>
Newspaper Notice	\$ <u>125</u>
Abutters x 8	\$ <u>80</u>
Recording Fee	\$ _____
Total	\$ _____

Gerald F and Kathryn Eisen

148 Gould Pond Rd

Parcel Lot #4-328-E, Zone RR

Waiver Request: Per Article IV General Provisions, Section 130-20 C Solar Energy Systems, F. 3. Standards of Review, the applicant requires a waiver for the requirements of a full site plan review as required F. 2.A. Site Plan Approval Required.

A detailed aerial site plan has been provided to show the array is well within property setbacks and far from abutter and public views. In addition to the site plan, photos have been provided to show the location of the array, property lines and viewpoints from the array location. The information provided should cover the goals of the site plan review without adding an additional hardship of recreating a new site plan to meet all 20 requirements outlined in section E since this is directly related to a small residential solar energy system and not a new development.



REVISION ENERGY

RE: Eisen Solar Ground Mount Conditional Use Permit
Parcel Lot # 4-328-E
148 Gould Pond Rd
Henniker, NH 03242

Project Narrative

Construction of an 18.24kW DC grid tied ground mount solar energy system at 148 Gould Pond Rd (Parcel Lot # 4-328-E). This system is expected to produce 21,548 kWh's of clean electricity annually, offsetting the home electric use by 100% with net metering. 22,690 pounds of CO2 will be offset per year making emissions 102% less than the average New Englanders.

The solar energy system will be installed in the front yard of the 23.11-acre lot, near the main house, at a fixed 35-degree pitch and 180-degree azimuth. 38 solar panels, 2 inverters, ground screw foundations, racking and 140' temporary electrical trench will be installed. The completed array will be 14.5 ft wide by 67 ft long for a 972 square foot structure and will stand 11.5 ft high.

The solar array will follow the terrain of the existing lawn and face towards Gould Pond Rd. Due to the long driveway and forested area to the east and west of the property, the structure will not be visible from the road or nearby abutting properties. The array will be about 1,500 ft from the road, and well within all property setbacks. Additional screening is not necessary. Please see enclosed photos for visual reference.

The panels are coated with anti-glare technology and there will be no lighting or noise from the solar energy system structure. The only equipment that does make noise are the inverters which will be installed inside the garage. See "Common Concerns of Solar Neighbors" for more information on this and glare.

The solar energy system will be constructed to meet all applicable codes and an exterior disconnect will be installed near the utility meter at the corner of the home. The system will not endanger public health, safety or welfare. Nor will it diminish property values. Foreclosures, neglected road maintenance, poor environment and economy are the top drivers of diminishing property values. The rural character of the neighborhood will stay intact as this system is not visible to abutters or the public and will only benefit the surrounding area by reducing pollution and strains on the utility grid.



100 feet Abutters List Report

Henniker, NH
September 18, 2023

Subject Property:

Parcel Number: 328-E
CAMA Number: 4-328-E
Property Address: 148 GOULD POND RD Unit E

Mailing Address: EISEN GERALD F EISEN KATHRYN
PO BOX 114
HENNIKER, NH 03242

Abutters:

Parcel Number: 319
CAMA Number: 4-319
Property Address: GOULD HILL RD

Mailing Address: TIMOTHY MCCOMISH REVOCABLE TRU
MCCOMISH TIMOTHY M TRUSTEE
PO BOX 644
HENNIKER, NH 03242

Parcel Number: 320-A
CAMA Number: 4-320-A
Property Address: 254 GOULD POND RD Unit A

Mailing Address: SPITTLE JACOB A
254 GOULD POND ROAD
HENNIKER, NH 03242

Parcel Number: 328-D
CAMA Number: 4-328-D
Property Address: 118 GOULD POND RD Unit D

Mailing Address: TERRENCE N DENNIS REVOCABLE TR
DENNIS TERRENCE TRUSTEE
118 GOULD POND ROAD
HENNIKER, NH 03242

Parcel Number: 320
CAMA Number: 7-320
Property Address: 188 GOULD POND RD

Mailing Address: SLETTEN PHILIP JOSEPH
188 GOULD POND ROAD
HENNIKER, NH 03242

Parcel Number: 321
CAMA Number: 7-321
Property Address: 199 GOULD POND RD

Mailing Address: AYERS SANDOLPH STEPICK SUSAN
199 GOULD POND ROAD
HENNIKER, NH 03242

Parcel Number: 328-X
CAMA Number: 7-328-X
Property Address: 61 GOULD POND RD Unit X

Mailing Address: BELL PATRICE FOSTER THOMAS
61 GOULD POND ROAD
HENNIKER, NH 03242



www.cai-tech.com

Data shown on this report is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this report.

9/18/2023

Page 1 of 1



148 Gould Rd Abutter Map

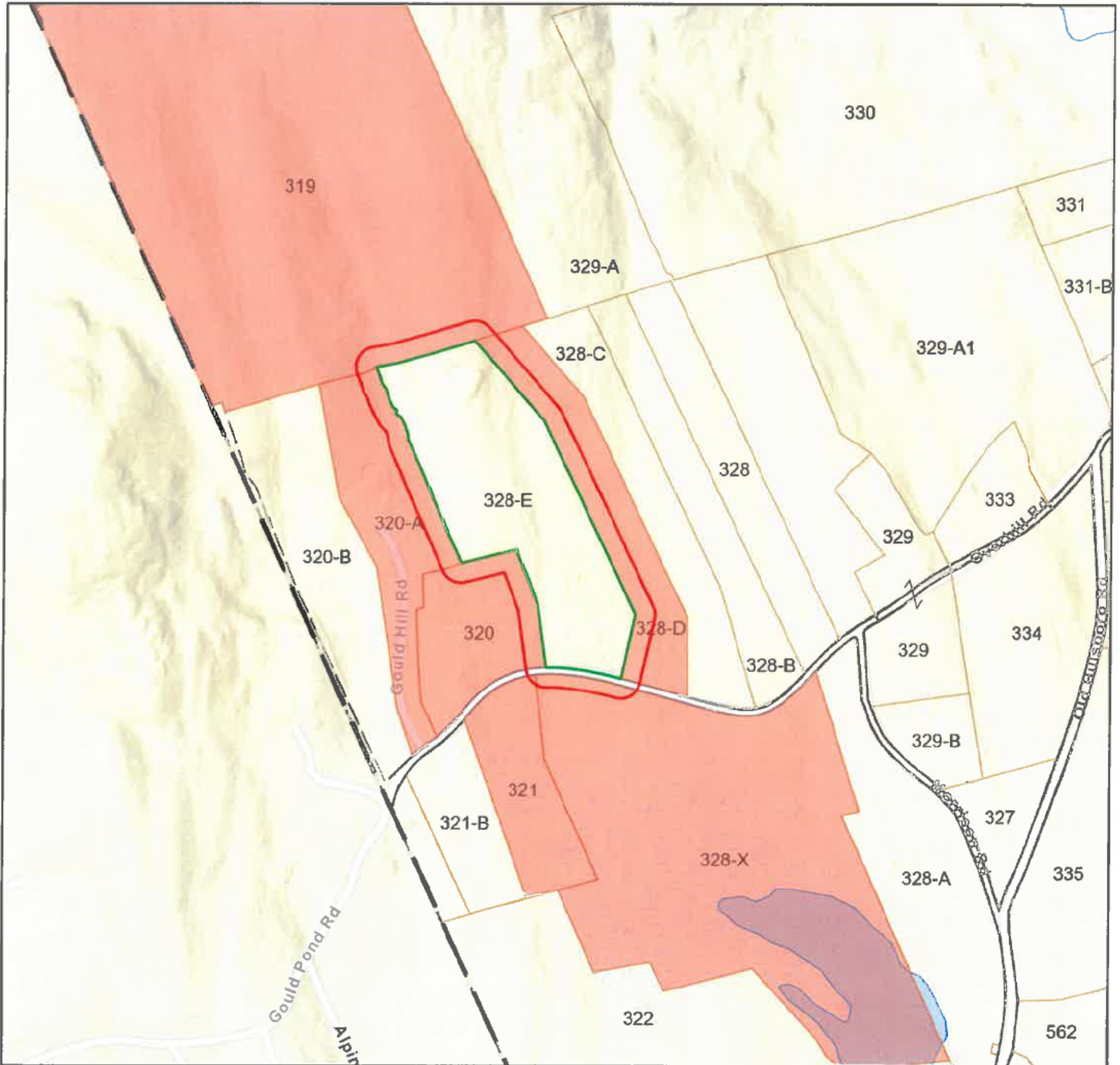
Town of Henniker, NH

1 inch = 752 Feet



www.cai-tech.com


September 18, 2023

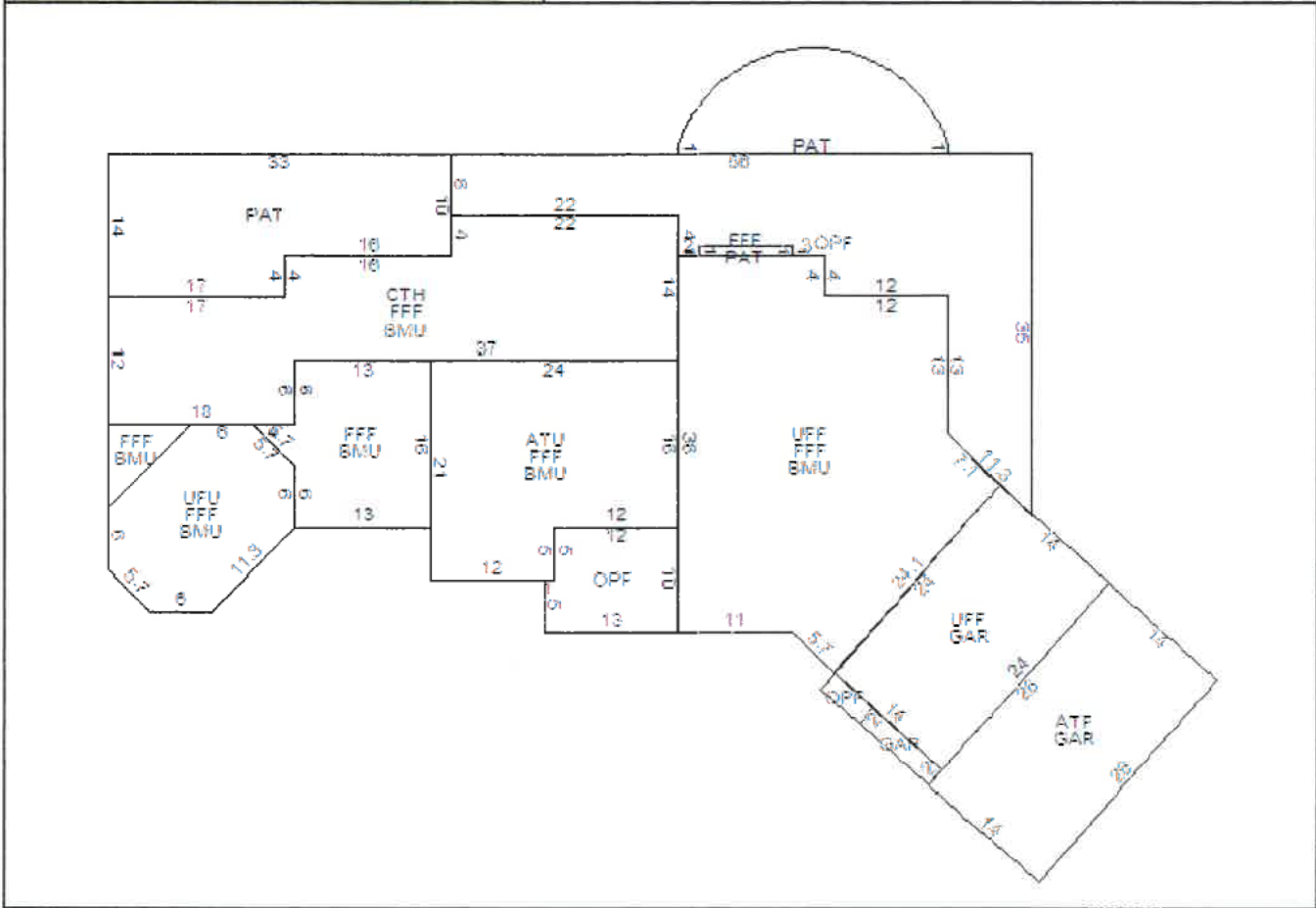


Large Scale	ZLINE	ROW_PVT
CAI Town Line	PL	Water-poly - No Ortho
Parcel - Poly	PL_SURVEY	World Hillshade
PONDS	ROW	
STREAM	ROW_2ND	

The data on this map has been compiled from a variety of sources granted voluntarily by private owners and official sources and is not to be considered legal location of property boundary lines. The Town of Henniker assumes no responsibility for the accuracy of individual parcels.

OWNER INFORMATION		SALES HISTORY					PICTURE								
EISEN GERALD F EISEN KATHRYN PO BOX 114 HENNIKER, NH 03242		Date	Book	Page	Type	Price	Grantor								
		03/24/2004	2635	1117	Q V	88,000	746 CHESTNUT STREET LTD								
		09/29/2003	2575	0393	U V 99	225,000	TOMASKO ROBERT								
		10/04/2001	2301	0989	Q	125,000									
LISTING HISTORY		NOTES													
09/16/22	KCCR	24X40 W/ 2X24 OVERHANG,QUALITY GAR W/INT FINISH,1600' DRIVEWAY													
09/12/22	KCHC	W/ 1G UTL PROTECTED HOMESITE W/ PANORAMIC VIEWS, CAN SEE CELL													
06/27/22	RWPR	TWR; 10-3-2.5, 2 DV FPL, 7X8 HOT TUB,REDBIRCH /GRANITE KITCHEN													
07/31/20	VS14	FIELD REVIEW	07:50% COMPL: IVG OPEN CONCEPT 12: NC PER OWNER 13: REAR PATIOS												
03/22/18	MH13	DESK REVIEW / REMOVE UC	& PORCH NOW HAVE PAVERS NC TO UUS & ABOVE GARAGE NEEDS												
03/06/17	GH98	ASSESSOR REVIEW	FLOOR & PAINT = UC1 14: NVC TO UC FIGURE 8X12 POLY GREENHOUSE												
02/29/16	GH98	ASSESSOR REVIEW	EXEMPT PER 72:12-D; 17: NVC TO UC: 6/22: PU PART PAVED/PAVED												
08/03/15	KL14	FIELD REVIEW	W/PAVERS:												
EXTRA FEATURES VALLATION										MUNICIPAL SOFTWARE BY AVITAR					
Feature Type	Units	Lngh x Width	Size Adj	Rate	Cond	Market Value	Notes								
FIREPLACE 1-STAND	1		100	3,000.00	100	3,000	Year: 2007								
FIREPLACE 1-STAND	1		100	3,000.00	100	3,000	Year: 2007								
HOT TUB	1		100	1,500.00	90	1,350	Year: 2007								
GARAGE-1 STY/ATTIC	960	960 x 1	77	33.00	300	73,181	Year: 2005/FIN/QUAL								
						80,500									
										PARCEL TOTAL TAXABLE VALUE					
Year	Building	Features	Land												
2022	\$ 1,076,900	\$ 80,500	\$ 252,211	Parcel Total: \$ 1,409,611											
2023	\$ 1,076,900	\$ 80,500	\$ 252,212	Parcel Total: \$ 1,409,612											
LAND VALUATION										LAST REVALUATION: 2022					
Zone: RURAL RESIDENTIAL		Minimum Acreage: 5.00		Minimum Frontage: 250		Site: VERY GOOD						Driveway: PART PAVED		Road: GRAVEL/DIRT	
Land Type	Units	Base Rate	NC	Adj	Site	Road	DWay	Topography	Cond	Ad Valorem	SPI	R	Tax Value	Notes	
1F RES	1.260 ac	125,150	E	100	110	95	98	90 -- ROLLING	95	109,600	0	N	109,600	ACC/LONG DW	
UNMNGD OTHER	21.850 ac	x 2,500	X	92				90 -- ROLLING	100	45,200	100	N	1,312		
VIEW		MOUNTAINS, PANORAMIC, TOP75, DISTANT							100	141,300			141,300	SUPERIOR VIEW	
23.110 ac										296,100			252,212		

PICTURE	OWNER	TAXABLE DISTRICTS	BUILDING DETAILS									
	<p>EISEN GERALD F EISEN KATHRYN PO BOX 114 HENNIKER, NH 03242</p>	<table border="1"> <thead> <tr> <th>District</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	District	Percentage			<p>Model: 2.00 STORY MODERN/CON Roof: GABLE OR HIP/ASPHALT Ext: CEDAR/REDWD Int: PLASTERED/DRYWALL Floor: HARD TILE/HARDWOOD Heat: GAS/FA DUCTED</p> <p>Bedrooms: 3 Baths: 3.0 Fixtures: Extra Kitchens: Fireplaces: A/C: Yes 100.00 % Generators: 1</p> <p>Quality: A8 EXC+60</p> <p>Com. Wall:</p> <p>Size Adj: 0.8271 Base Rate: RSA 136.00 Bldg. Rate: 1.7650 Sq. Foot Cost: \$ 240.04</p>					
District	Percentage											
PERMITS												
<table border="1"> <thead> <tr> <th>Date</th> <th>Project Type</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>05/17/06</td> <td>NEW CONSTRUCTION</td> <td></td> </tr> <tr> <td>04/07/05</td> <td>NEW CONSTRUCTION</td> <td></td> </tr> </tbody> </table>	Date	Project Type	Notes	05/17/06	NEW CONSTRUCTION		04/07/05	NEW CONSTRUCTION				
Date	Project Type	Notes										
05/17/06	NEW CONSTRUCTION											
04/07/05	NEW CONSTRUCTION											



BUILDING SUB AREA DETAILS				
ID	Description	Area	Adj.	Effect.
PAT	PATIO	603	0.10	60
CTH	CATHEDRAL	678	0.10	68
FFF	FST FLR FIN	2522	1.00	2522
BMU	BSMNT	2513	0.15	377
ATU	ATTIC	444	0.10	44
OPF	OPEN PORCH	814	0.25	204
UFF	UPPER FLR FIN	1235	1.00	1235
UFU	UPPER FLR	244	0.25	61
GAR	GARAGE ATTCHD	718	0.45	323
ATF	ATTIC FINISHED	364	0.25	91
GLA:	3,848	10,135		4,985

2022 BASE YEAR BUILDING VALUATION	
Market Cost New:	\$ 1,196,599
Year Built:	2007
Condition For Age:	GOOD 10 %
Physical:	
Functional:	
Economic:	
Temporary:	
Total Depreciation:	10 %
Building Value:	\$ 1,076,900

G. Abandonment or Decommissioning (Ground Mounted)

The ground mount solar energy system is warrantied for 25 years and expected to last much longer. When it's time to decommission the system, all material can be safely removed and recycled at participating solar PV facilities.

The ground screw foundations are 2.5 inches in diameter and extend 6 ft into the earth. These screws can be pulled up and the holes filled with soil to restore the land.

The trench can be dug up, conduit can be removed and backfilled in with soil to restore.

The homeowners will be responsible for notifying the Town of Henniker if they plan to abandon or decommission the solar energy system.



AUTOMATED INSTALLATION

With our fully automated, military grade GPS guided dual anchor driver we are able to drastically reduce project installation times. Our specialized equipment drives two helical anchors (front & rear) in the ground simultaneously, every 45 seconds. The GPS system allows for precision placement and accurate driving depth, taking project quality to the next level.

VERSATILITY AND ADAPTABILITY

As projects progress, module shortages and layout changes can mean substantial and costly re-engineering. The Ready Rack system allows for quick and effortless changes, thanks to it's ability to work with all modules, layouts, terrain, and soil types. Our racking allows you to roll with the punches and sleep easy, knowing you have one of the most versatile racks on the market, without breaking the bank.

READY RACK

The **Ready Rack** racking system has been deployed across the US and used on large utility scale projects and small commercial projects. But, with age comes experience, so we've redesigned and added some features we know you'll love. The hardware design is a simple configuration that allows contractors to install at lightning fast speed with integrated adjustable features for challenging sites. Helical anchors and quick-install bracing make this simple system extremely robust. Carefully engineered, strong, and lightweight cee channels are highly configurable while allowing nearly infinite configurations and reduced part counts. Horizontal strut channel is customized to meet our high standards of strength and longevity and allows you to fill every inch of valuable space.



WHAT MAKES THE **READYRACK** SYSTEM SO SPECIAL?

FULLY CUSTOMIZABLE ROW LENGTHS

How do you fit more content while increasing production and reducing costs? Fill up every inch of space by creating rows as long or as short as you need.

VERSATILE DESIGN

We can design your rack to fit any panel and in any space and configuration. This can all be done on the fly, thanks to highly adaptable components.



REDUCED PANEL SPACING

Every inch saved between panels means more panels will fit in the same area. High density means high profits.



INCREASED ANCHOR SPACING

Longer spans means less parts, faster installation, and more money in your pocket.

HIGH GROUND CLEARANCE

Whether your project needs clearance for snow or room for maintenance, our highly adjustable anchors have got you covered.

Racking Material: High Strength Steel
Corrosion Resistance: G90 Galvanized. Higher coating as required.
Snow Load: 0psf to 35psf (higher load options available)
Wind Load: Up to 150mph
Tilt Angle: Customer Specified (5-30 Degrees)
Anchor Depth: Design based on soil type and frost line. Testing performed by APA
Building Code Compliant: IBC 2012
PE Stamped Drawings: APA drawings can be PE stamped for all 50 states and territories.



INSTALLER FRIENDLY

Sleek and strong, our super cee channel accommodates varying posts heights and spans, tilts, and adjustments in the field, making our rack an installer's dream.

HIGH STRENGTH PARTS

Engineered for the toughest northern winters and the harshest southern hurricanes, our racks will still be standing long after everything else.



419.267.5280 // SALES@APALTERNATIVES.COM



ROCKY SOIL CONDITIONS

APA's ground screws are designed for sites with rock. The forged tip helps lead the screw straight and plumb. The threads of the screw bite and hold firmly into the soil without getting caught on rocks and cobbles. The heavy wall tube and welded connections allow massive amounts of torque and downward pressure to be applied helping the screw to advance into even the toughest soils.

SIMPLE INSTALL

Several types of equipment can be used to install APA's ground screws. Skid loaders or mini excavators with an auger attachment are among the most common installation equipment. Many drilling contractors can use a simple adaptor to drive ground screws without buying new equipment. Most pile driving rigs can be converted to rotary heads with little effort.

GROUND SCREW

Our **Ground Screws** are manufactured for even the most challenging solar sites. Our ground screws use heavy wall tubing for the main shaft of the screw. The tips of the screw are forged, making them extremely hard, this is essential to help it penetrate into or pass by underground obstructions. The threads are welded with a patented automated welding process to provide a consistent and strong weld along the entire length of the thread. Ground screws come with a durable hot dipped galvanized coating that will protect them from corrosion.



WHAT MAKES THE GROUND SCREW FOUNDATION SO CAPABLE?

HARD SOILS

Hard soils are why ground screws were designed. The forged tip and heavy duty steel tube allow for thousands of pounds of downforce and turning torque to be applied to the screw. This amount of torque and downforce allows rocks and cobbles to be pushed out of the way during installation

SOLID ROCK

Ground screws can be installed into solid rock. By utilizing the method of drilling a pilot hole and adding some gravel backfill. The ground screws are securely installed into the pilot hole using the threads of the screw and the gravel backfill then locks them into the solid rock

SANDY SOILS

The granular structure of sand has poor friction value making it hard for driven piles to perform well. However, the shape and threads of a ground screw displace and compact the sand around it when installed. This helps interlock the sand together and provides excellent holding power of the screw threads

HEIGHT ADJUSTMENT

Posts can be adjusted to the perfect height by simply raising or lowering the top post in or out of the screw. To secure the top post, simply tighten the three set screws

SHALLOW INSTALL

The ground screws can be installed as shallow as 30" depending on the soil. This allows for less chances of hitting underground obstructions

Diameter	Overall Length			
2.35"	40"	61"	73"	85"
3.00"	40"	61"	73"	85"
3.50"	40"	61"	73"	85"
4.00"	61"	73"	85"	
4.50"	61"	73"	85"	

Custom sizes are available contact us for more information



SET SCREW OR FLANGE CONNECTION

Ground screws can be manufactured with a set of three screw nuts or a flange welded to the top of the post. The set screws and flange options allow the screws to be used with fixed tilt, tracking and other solar mounting applications



powered by

Q.ANTUM DUO Z

Q.PEAK DUO XL-G10.2 470-495

ENDURING HIGH
PERFORMANCE



BREAKING THE 21% EFFICIENCY BARRIER

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.6%.



LOW ELECTRICITY GENERATION COSTS

Higher yield per surface area, lower BOS costs and up to 80 watts more module power than standard 144 half-cell modules.



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.



EXTREME WEATHER RATING

High-tech aluminum alloy frame, certified for high snow (5400Pa) and wind loads (3000Pa).



A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance warranty².

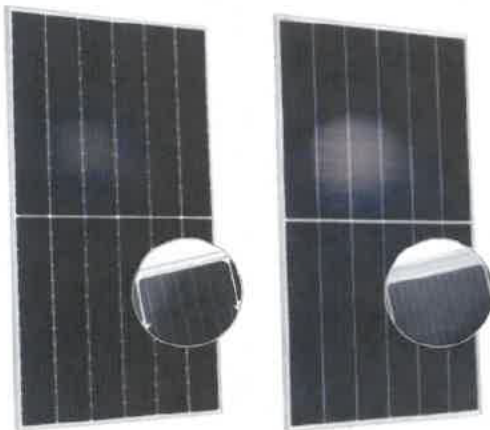


STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative 12-busbar design with Q.ANTUM Technology.

¹ APT test conditions according to IEC / TS 62804-1:2015, method A (-1500V, 96h)

² See data sheet on rear for further information.



6 BUSBAR
CELL TECHNOLOGY

12 BUSBAR
CELL TECHNOLOGY

THE IDEAL SOLUTION FOR:



Ground-mounted
solar power plants

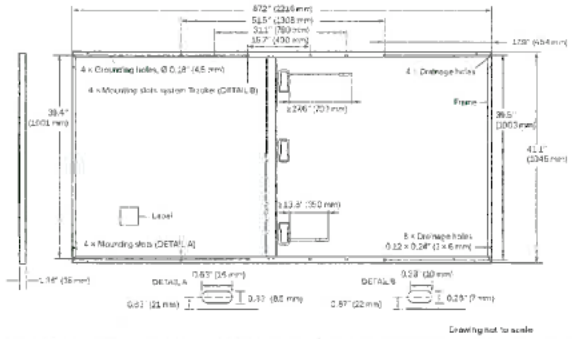
Engineered in Germany

Q CELLS

MECHANICAL SPECIFICATION

Format	87.2in x 41.1in x 1.38in (including frame) (2216mm x 1045mm x 35mm)
Weight	58.4 lbs (26.5kg)
Front Cover	0.13in (3.2mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Anodized aluminum
Cell	6 x 26 monocrystalline Q-ANTUM solar half cells
Junction Box	2.09-3.98in x 1.26-2.36in x 0.59-0.71in (53-101mm x 32-60mm x 15-18mm), IP67, with bypass diodes
Cellsa	4mm ² Solar cable; (+) ≥ 27.6in (700mm), (-) ≥ 13.8in (350mm)*
Connector	Stäubli MC4, Stäubli MC4-Evo2, Hanwha Q CELLS HQC4; IP68

*Long cables (+) ≥ 57.1in (1450mm), (-) ≥ 57.1in (1450mm) for landscape installation are available upon request.

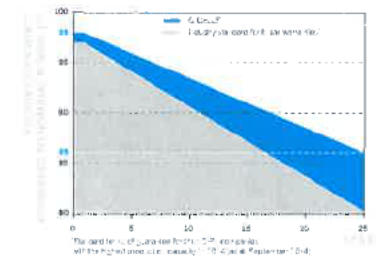


ELECTRICAL CHARACTERISTICS

POWER CLASS		470	475	480	485	490	495	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC (POWER TOLERANCE +5W / -0W)								
Maximum	Power at MPP	P_{MPP} [W]	470	475	480	485	490	495
	Short Circuit Current	I_{SC} [A]	11.21	11.24	11.26	11.29	11.31	11.34
	Open Circuit Voltage ¹	V_{OC} [V]	53.64	53.58	53.81	53.64	53.88	53.71
	Current at MPP	I_{MPP} [A]	10.62	10.66	10.71	10.76	10.81	10.86
	Voltage at MPP	V_{MPP} [V]	44.27	44.54	44.81	45.07	45.33	45.59
	Efficiency ¹	η [%]	≥ 20.3	≥ 20.5	≥ 20.7	≥ 20.9	≥ 21.2	≥ 21.4
	MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT ²							
Minimum	Power at MPP	P_{MPP} [W]	352.6	356.4	360.1	363.9	367.6	371.4
	Short Circuit Current	I_{SC} [A]	9.03	9.05	9.07	9.09	9.12	9.14
	Open Circuit Voltage	V_{OC} [V]	50.49	50.53	50.56	50.59	50.62	50.65
	Current at MPP	I_{MPP} [A]	8.34	8.39	8.43	8.47	8.52	8.56
	Voltage at MPP	V_{MPP} [V]	42.26	42.49	42.72	42.94	43.17	43.39

¹Measurement tolerances $P_{MPP} \pm 3\%$, I_{SC} , $V_{OC} \pm 5\%$ at STC: 1000W/m², 25 ± 2°C, AM 1.5 according to IEC 60904-3 • *800W/m², NMOT, spectrum AM 1.5

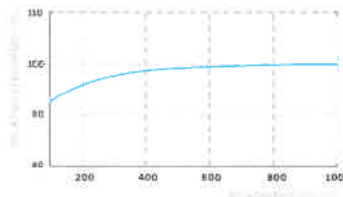
Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000W/m²)

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{SC}	α [%/K]	+0.04	Temperature Coefficient of V_{OC}	β [%/K]	-0.27
Temperature Coefficient of P_{MPP}	γ [%/K]	-0.34	Nominal Module Operating Temperature	NMOT [°F]	109 ± 5.4 (43 ± 3°C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V_{SYS}	[V]	1500 (IEC)/1500 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating (based on ANSI/UL 61730)	TYPE 1
Max. Design Load, Fresh/Pull ¹	[lbs/ft ²]	75 (3600 Pa)/42 (2000 Pa)	Permitted Module Temperature on Continuous Duty	-40°F up to +185°F (-40°C up to +85°C)
Max. Tensile Load, Fresh/Pull ¹	[lbs/ft ²]	113 (5400 Pa)/63 (3000 Pa)		

¹See Installation Manual

QUALIFICATIONS AND CERTIFICATES

UL 61730, CE-compliant,
IEC 61215:2016
IEC 61730:2016
U.S. Patent No. 9,893,215
(solar cells);



PACKAGING INFORMATION



Horizontal packaging	89.4in	43.3in	47.6in	1809lbs	22	20	29
Vertical packaging	2270mm	1100mm	1210mm	821kg	pallets	pallets	modules

Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

Hanwha Q CELLS America Inc.

400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.us

Single Phase Inverter with HD-Wave Technology

for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US /
SE7600H-US / SE10000H-US / SE11400H-US



Optimized installation with HD-Wave technology

- / Specifically designed to work with power optimizers
- / Record-breaking 99% weighted efficiency
- / Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- / Fixed voltage inverter for longer strings
- / Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020 per article 690.11 and 690.12
- / UL1741 SA certified, for CPUC Rule 21 grid compliance
- / Small, lightweight, and easy to install both outdoors or indoors
- / Built-in module-level monitoring
- / Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)

/ Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/
SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
APPLICABLE TO INVERTERS WITH PART NUMBER	SEXXXH-XXXXBXX4							

OUTPUT

Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
AC Output Voltage Min.-Nom.-Max. (211 - 240 - 264)	✓	✓	✓	✓	✓	✓	✓	Vac
AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229)	-	✓	-	✓	-	-	✓	Vac
AC Frequency (Nominal)	59.3 - 60 - 60.5 ⁽¹⁾							Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	A
Power Factor	1, Adjustable - 0.85 to 0.85							
GFDI Threshold	1							A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes							

INPUT

Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W
Maximum DC Power @208V	-	5100	-	7750	-	-	15500	W
Transformer-less, Ungrounded	Yes							
Maximum Input Voltage	480							Vdc
Nominal DC Input Voltage	380			400				Vdc
Maximum Input Current @240V ⁽²⁾	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Maximum Input Current @208V ⁽²⁾	-	9	-	13.5	-	-	27	Adc
Max. Input Short Circuit Current	45							Adc
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600k Ω Sensitivity							
Maximum Inverter Efficiency	99	99.2						%
CEC Weighted Efficiency	99						99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption	< 2.5							W

(1) For other regional settings please contact SolarEdge support

(2) A higher current source may be used; the inverter will limit its input current to the values stated

/ Single Phase Inverter with HD-Wave Technology

for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/
SE7600H-US / SE10000H-US / SE11400H-US

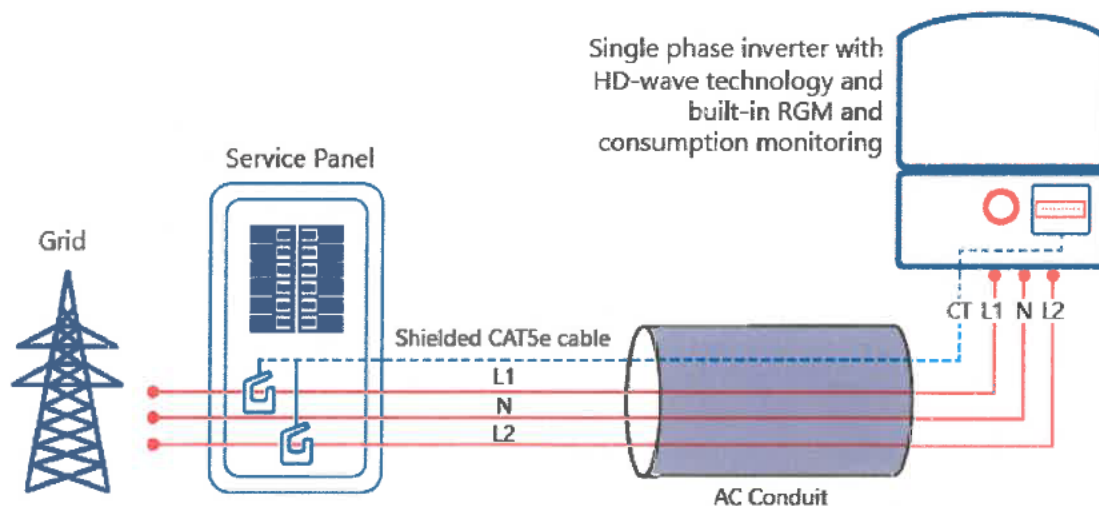
MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US
ADDITIONAL FEATURES							
Supported Communication Interfaces	RS485, Ethernet, ZigBee (optional), Cellular (optional)						
Revenue Grade Metering, ANSI C 12.20	Optional ⁽³⁾						
Consumption metering	Optional ⁽³⁾						
Inverter Commissioning	With the SetApp mobile application using Built-in Wi-Fi Access Point for Local Connection						
Rapid Shutdown - NEC 2014, NEC 2017 and NEC 2020, 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect						
STANDARD COMPLIANCE							
Safety	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07						
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)						
Emissions	FCC Part 15 Class B						
INSTALLATION SPECIFICATIONS							
AC Output Conduit Size / AWG Range	1" Maximum / 14-6 AWG				1" Maximum / 14-4 AWG		
DC Input Conduit Size / # of Strings / AWG Range	1" Maximum / 1-2 strings / 14-6 AWG				1" Maximum / 1-3 strings / 14-6 AWG		
Dimensions with Safety Switch (HxWxD)	17.7 x 14.6 x 6.8 / 450 x 370 x 174				21.3 x 14.6 x 7.3 / 540 x 370 x 185		
Weight with Safety Switch	22 / 10	25.1 / 11.4	26.2 / 11.9	38.8 / 17.6			
Noise	< 25				< 50		
Cooling	Natural Convection						
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽⁴⁾						
Protection Rating	NEMA 4X (Inverter with Safety Switch)						

(3) Inverter with Revenue Grade Meter P/N: SExxxxH-US000BNC4; Inverter with Revenue Grade Production and Consumption Meter P/N: SExxxxH-US000BN14. For consumption metering, current transformers should be ordered separately: SEACT0750-200NA-20 or SEACT0750-400NA-20, 20 units per box

(4) Full power up to at least 50°C / 122°F; for power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf>

How to Enable Consumption Monitoring

By simply wiring current transformers through the inverter's existing AC conduits and connecting them to the service panel, homeowners will gain full insight into their household energy usage helping them to avoid high electricity bills



PROJECT SUMMARY:

MODULE TYPE	(38) Q CELLS Q.PEAK DUO XL-G10.3/BFG 480 STC
INVERTER	(2) SE7600H-US
OPTIMIZER	(38) SOLAREEDGE P505
STORAGE SYSTEM	N/A
ARRAY PITCH	35°
ARRAY AZIMUTH	180°
RACKING	APA READY RACK

DESIGN CRITERIA:

OCCUPANCY	RESIDENTIAL
DESIGN WIND LOAD	104 MPH
RISK CATEGORY	I
GROUND SNOW LOAD	76 PSF
EXPOSURE CATEGORY	B
ROOF HEIGHT	
ROOF COMPOSITION	
RAFTER	
RAFTER SPACING	

EQUIPMENT LOCATIONS:

- INTERIOR:**
 MAIN LOAD CENTER
 PV AC COMBINER PANEL
 PV AC DISCONNECTS
 (2) SOLAR INVERTERS
- EXTERIOR:**
 UTILITY METER
 ELECTRICAL TROUGH
 PV AC DISCONNECT (RSID)
- AT ARRAY:**
 IMO PV DC DISCONNECT



REVISION ENERGY

7 COMMERCIAL DRIVE
 BRENTWOOD, NH 03833
 (603)-679-1777

CLIENT:

GERALD F. EISEN AND
 KATHRYN EISEN
 148 GOULD POND RD
 HENNIKER NH, 03242

SYSTEM TYPE:

18.24KW DC GRID TIED
 SOLAR PHOTOVOLTAIC
 SYSTEM

FOR CONSTRUCTION

DESIGNED BY: MCF
 PRINT SIZE: 11" x 17"
 SCALE: NA
 DATE: 9/12/2023

DWG TITLE

SITE PLAN

DWG NUMBER

E100

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 CODE, AND LOCAL GOVERNMENTAL
 AUTHORITIES.

PROJECT SUMMARY:

THE PROJECT SCOPE INCLUDES THE DESIGN, SPECIFICATION, PROCUREMENT, INSTALLATION AND COMMISSIONING OF A COMPLETE, TURN-KEY, GRID-TIED PHOTOVOLTAIC ELECTRIC SYSTEM.

MODULE TYPE	(38) Q CELLS Q PEAK DUO XL-G10.3/BFG 480 STC
INVERTER	(2) SE7600H-US
OPTIMIZER	(38) SOLAREEDGE P505
STORAGE SYSTEM	N/A
ARRAY PITCH	35°
ARRAY AZIMUTH	180°
RACKING	APA READY RACK

AUTHORITIES HAVING JURISDICTION:

BUILDING AUTHORITY	HENNIKER NH
ELECTRICAL AUTHORITY	HENNIKER NH
ZONING/PLANNING AUTHORITY	HENNIKER NH
ELECTRICAL UTILITY	EVERSOURCE

DESIGN CRITERIA:

OCCUPANCY	RESIDENTIAL
DESIGN WIND LOAD	104 MPH
RISK CATEGORY	I
GROUND SNOW LOAD	76 PSF
EXPOSURE CATEGORY	B
ROOF HEIGHT	
ROOF COMPOSITION	
RAFTER	
RAFTER SPACING	

SHEET LIST:

G001	TITLE SHEET
E100	SITE PLAN
E101	PLOT PLAN
S300	GROUND MOUNT LAYOUT
E400	ONE-LINE DIAGRAM
A200	SAFETY PLAN
E700	STICKER MAP

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH LOCAL AND STATE ORDINANCES AND BUILDING CODES.
2. ELECTRICAL INSTALLATION SHALL COMPLY WITH STATE AND LOCALLY ADOPTED ELECTRICAL CODE.
3. ROOFTOP PENETRATIONS SHALL BE SEALED.
4. ALL EQUIPMENT SHALL BE LISTED AND TESTED BY A RECOGNIZED LABORATORY.
5. MODULE CONNECTORS MUST BE MATCHING BRAND AND TYPE OR BE A UL LISTED ASSEMBLY.
6. SYSTEM SHALL CONFORM TO RAPID SHUTDOWN REQUIREMENTS PER NEC 690.
7. CONDUIT RUNS BETWEEN SUB-ARRAYS, COMBINERS, AND DISCONNECTS SHALL BE INSTALLED IN THE MOST DIRECT ROUTE POSSIBLE.
8. ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MAINTAIN CLEARANCES REQUIRED BY NEC 110.
9. EQUIPMENT SHALL BE LABELED PER NEC 2020 REQUIREMENTS.
10. ENSURE INVERTER IS SET TO ISO-NE STANDARDS.



7 COMMERCIAL DRIVE
BRENTWOOD, NH 03833
(603)-679-1777

CLIENT:

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FOR CONSTRUCTION

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PRINT SIZE: 11" x 17"
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DATE: 9/12/2023

TITLE SHEET

DWG NUMBER
G001

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A U T H O R I T I E S .



LOT 4-328-E
23.IIA
ZONE: RR
PROPERTY LINE SETBACKS:
FRONT 30', SIDE AND REAR 15'

HOUSE

GROUND ARRAY

PROPERTY LINE

325 ft

Google Earth



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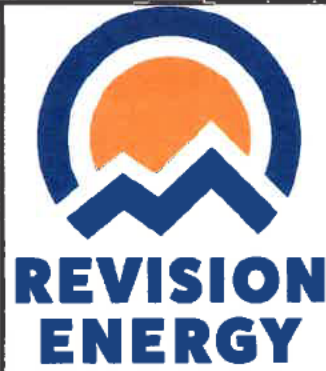
DWG TITLE

PLOT PLAN

DWG NUMBER

E100

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A U T H O R I T I E S .

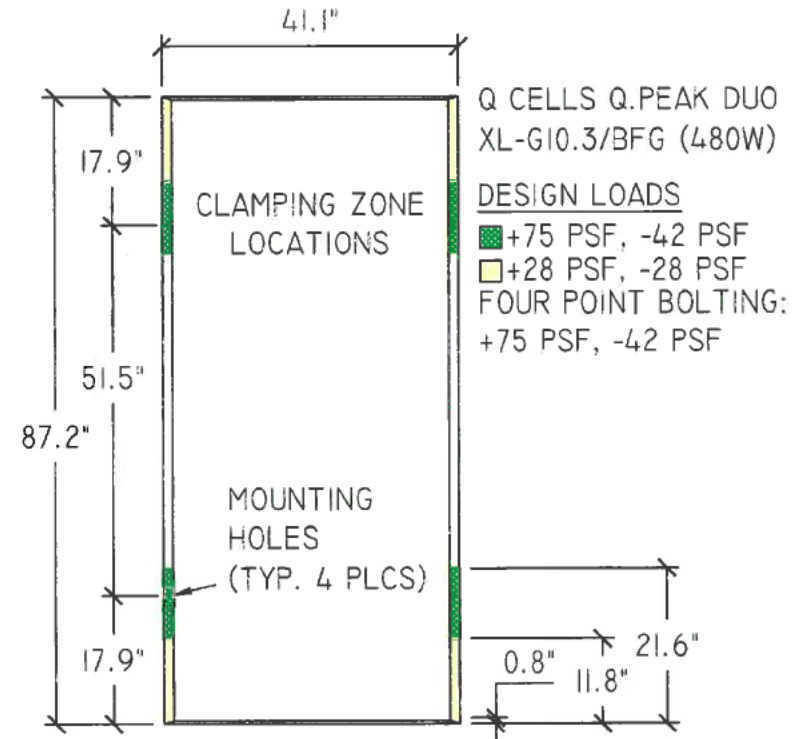
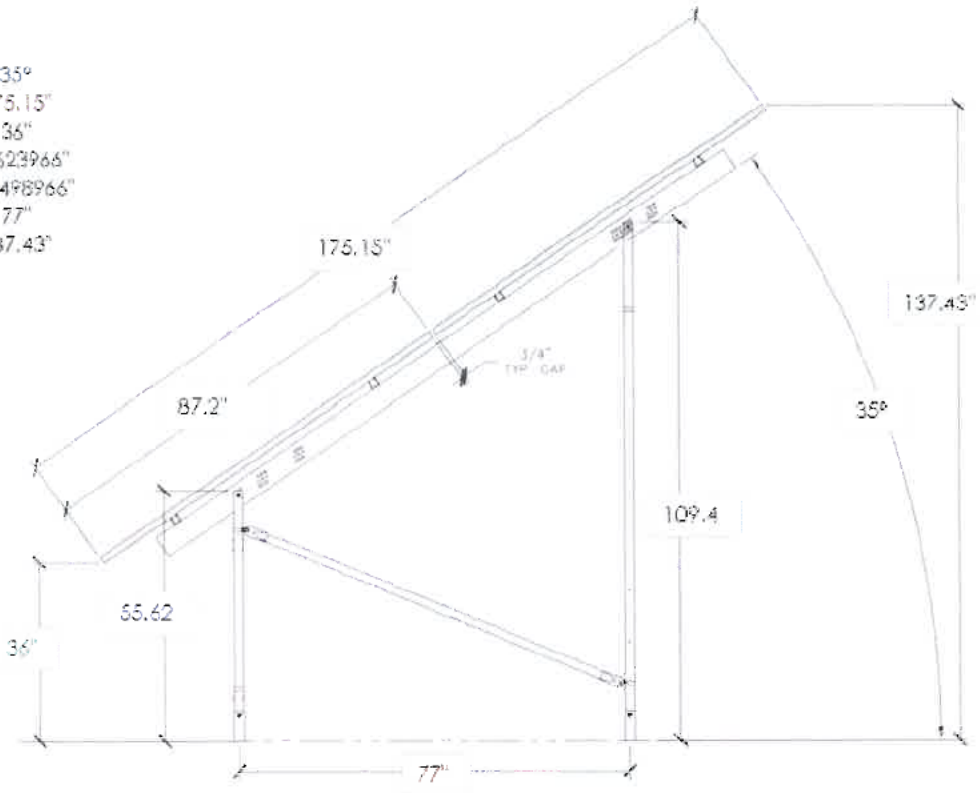


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 BRENTWOOD, NH 03833
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CLIENT:
 GERALD F. EISEN AND
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 148 GOULD POND RD
 HENNIKER NH, 03242

SYSTEM TYPE:
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 SOLAR PHOTOVOLTAIC
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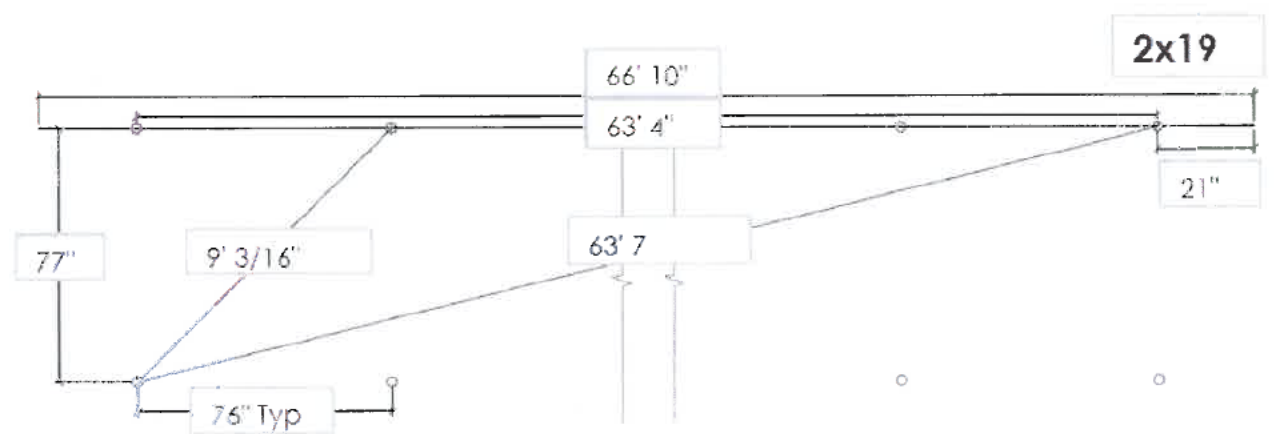
Array Side Profile
 Array Tilt 35°
 Table Height 175.15"
 Front Lip Height 36"
 Front Post Exposure 55.623966"
 Rear Post Exposure 109.498966"
 North-South Span 77"
 Approx. Array Height 137.43"



A
 N.T.S. MODULE ELEVATION

B
 N.T.S. MODULE CLAMPING ZONES

Standard Row
 Table Size 2x19
 Cantilever 21"
 Max Cantilever 32"
 Span 76" Typ
 Max Span 80"
 Row Length 66' 10"
 Total Post Distance 63' 4"
 First Post Diag. 9' 3/16"
 Last Post Diag. 63' 7 14/16"



C
 N.T.S. RACKING LAYOUT

FOR CONSTRUCTION
 DESIGNED BY: MCF
 PRINT SIZE: 11" x 17"
 SCALE: NA
 DATE: 9/12/2023
 DWG TITLE: GROUND MOUNT LAYOUT
 DWG NUMBER: S300

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MODULE SPECIFICATIONS		
Q CELLS Q.PEAK DUO XL-G10.3/BFG 480 STC QTY 38		
STC RATING	480	W
V _{HP}	45.33	V
I _{MP}	10.59	A
V _{OC}	53.59	V
I _{SC}	11.12	A
TEMP COEFF. V _{OC}	-0.27	%/°C

MODULE-LEVEL DC OPTIMIZER SPECIFICATIONS		
SOLAREGE P505 QTY 38		
NOMINAL DC RATING (WATTS)	505	W
MAX OUTPUT CURRENT I _{DC}	15	A

GRID TIED INVERTER SPECIFICATIONS		
SE7600H-US QTY 2		
NOMINAL AC RATING (WATTS)	7600	W
NOMINAL V _{AC}	240	V
MAX I _{AC}	32	A
CEC EFFICIENCY	99	%

STICKER CALCULATIONS		
MAXIMUM DC VOLTAGE	480	V
MAXIMUM DC CIRCUIT CURRENT	15	A
RATED AC OUTPUT CURRENT	64	A

MONITORING		
HOME ROUTER		

DESIGN NOTES:

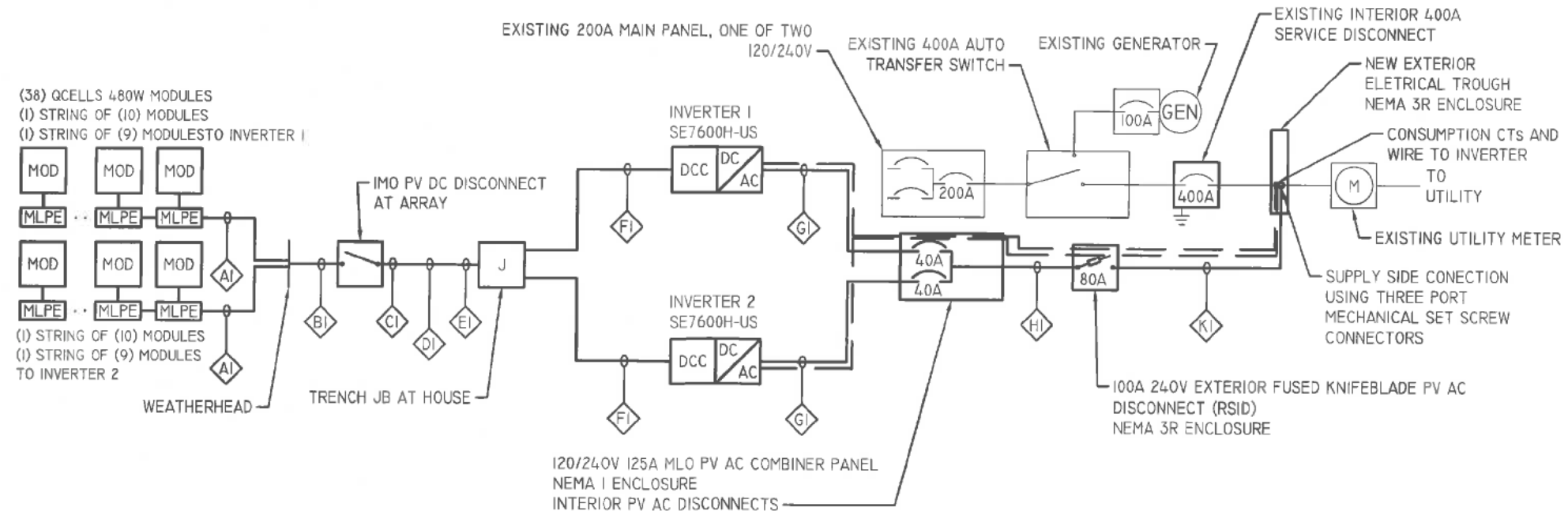
- ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE.
- SYSTEM VOLTAGE DROP SHALL NOT EXCEED 5% BASED ON ASHRAE EXTREME MIN FOR THE SPECIFIED LOCATION.
- LOWEST EXPECTED AMBIENT TEMPERATURE IS BASED ON ASHRAE EXTREME MIN FOR THE SPECIFIED LOCATION.
- AVERAGE HIGH TEMPERATURE IS BASED ON ASHRAE 2% AVG. FOR THE SPECIFIED LOCATION.

LINE TYPES:

— EXISTING
 — NEW

WIRING SCHEDULE							
TAG	FROM / TO	CONDUCTORS	WIRE TYPE	LENGTH (FT)	AS BUILT LENGTH (FT)	VOLTAGE DROP	CONDUIT / CONDUIT FILL
AI	PV ARRAY / WEATHERHEAD (TYPICAL OF 2)	L:(4) #10 G:(1) #6	PV WIRE 1000V CU	40		0.36%	
BI	WEATHERHEAD / IMO PV DC DISCONNECT	L:(8) #10 G:(1) #6	PV WIRE 1000V CU	10		0.09%	1-1/2" SCH 80 PVC 32%
CI	IMO PV DC DISCONNECT / TRENCH	L:(8) #10 G:(1) #10	THWN-2 600V CU	10		0.09%	2" SCH 80 PVC 7%
DI	TRENCH	L:(8) #10 G:(1) #10	THWN-2 600V CU	140		1.32%	2" SCH 40 PVC 6%
EI	TRENCH / TRENCH JUNCTION BOX	L:(8) #10 G:(1) #10	THWN-2 600V CU	10		0.09%	2" SCH 80 PVC 7%
FI	TRENCH JUNCTION BOX / INVERTER (TYPICAL OF TWO)	L:(4) #10 G:(1) #10	THWN-2 600V CU	15		0.14%	3/4" EMT 20%
GI	INVERTER / PV AC COMBINER PANEL (TYPICAL OF 2)	L:(2) #8 N:(1) #10 G:(1) #10	THWN-2 600V CU	5		0.10%	1" EMT 13%
HI	PV AC COMBINER PANEL / EXTERIOR PV AC DISCONNECT	L:(2) #4 N:(1) #8 G:(1) #8	THWN-2 600V CU	10		0.17%	1-1/4" EMT 16%
KI	EXTERIOR PV AC DISCONNECT / SUPPLY-SIDE INTERCONNECTION	L:(2) #4 N:(1) #6	THWN-2 600V CU	5		0.08%	1-1/4" EMT 15%

SYMBOLS:



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 SYSTEM

FOR CONSTRUCTION

DESIGNED BY: MCF

PRINT SIZE: 11" x 17"

SCALE: NA

DATE: 9/12/2023

DWG TITLE

ONE LINE DIAGRAM

DWG NUMBER

E400

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18.24KW DC GRID TIED
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SYSTEM

FOR CONSTRUCTION

MCF

9/12/2023

SAFETY PLAN

A200

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148 Gould Pond Rd, Henniker, NH 03242 - Eisen Residence

