

# 220658

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA

FIRST REVISED SHEET NO. 19.0  
CANCELS ORIGINAL SHEET NO. 19.0

**APPLICATION FOR INTERCONNECTION OF  
CUSTOMER-OWNED RENEWABLE  
GENERATION SYSTEMS**

TIER 1 - Ten (10) kW or Less

TIER 2 - Greater than 10 kW and Less Than or Equal to 100 kW

TIER 3 - Greater than 100 kW and Less Than or Equal to Two (2) MW

Note: These customer-owned renewable generation system size limits may be subject to a cumulative enrollment limit on net-metering customers located in the area served by the City of Ocala Electric Utility. Please refer to the Ocala Electric Utility Net-Metering Rate Schedule.

Ocala Electric Utility customers who install customer-owned renewable generation systems (RGS) and desire to interconnect those facilities with the Ocala Electric Utility system are required to complete this application. When the completed application and fees are returned to Ocala Electric Utility, the process of completing the appropriate Tier 1, Tier 2 or Tier 3 Interconnection Agreement can begin. This application and copies of the Interconnection Agreements may be obtained at Ocala Electric Utility, located at 201 SE 3rd Street, Ocala, Florida 34471, or may be requested by email from OEU@ocalafl.org.

**1. Customer Information**

Name: Capris Furniture Industries, Inc.

Mailing Address: 1401 NW 27th Ave

City: Ocala State: FL Zip Code: 34475

Phone Number: 352-302-5744 Alternate Phone Number: 352-629-8889

Email Address: dbeaudet@usa.net Fax Number: 352-629-4048

Ocala Electric Utility Customer Account Number: 591232-161656

**2. RGS Facility Information**

Facility Location: 1401 NW 27th Ave Ocala, FL 34475

Ocala Electric Utility Customer Account Number: 591232-161656

RGS Manufacturer: Canadian Solar

Manufacturer's Address: 1350 Treat Blvd. Suite 500 Walnut Creek, CA 94598

Reference or Model Number: CS3W-450MS

Serial Number: \_\_\_\_\_

(Continued on Sheet No.19.1)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019

### 3. Facility Rating Information

Gross Power Rating: 181 kW ("Gross power rating" means the total manufacturer's AC nameplate generating capacity of an on-site customer-owned renewable generation system that will be interconnected to and operate in parallel with Ocala Electric Utility's distribution facilities. For inverter-based systems, the AC nameplate generating capacity shall be calculated by multiplying the total installed DC nameplate generating capacity by 0.85 in order to account for losses during the conversion from DC to AC.)

Fuel or Energy Source: Solar photovoltaic

Anticipated In- Service Date: 05/31/2022

### 4. Application Fee

The application fee is based on the Gross Power Rating and must be submitted with this application. The non-refundable application fee is \$375 for Tier 2 and \$750 for Tier 3 installations. There is no application fee for Tier 1 installations.

### 5. Interconnection Study Fee

For Tier 3 installations, a deposit in the amount of the estimated costs of the study (to be determined at time of application) must be paid along with this application in addition to the application fee referenced in Article 4 above. This deposit will be applied toward the cost of an interconnection study. The customer will be responsible for the actual costs of the study. Should the actual cost of the study be less than the deposit, the difference will be refunded to the customer. Customer agrees to comply with all interconnection requirements identified in the interconnection study report.

### 6. Required Documentation

Prior to completion of the Interconnection Agreement, the following information must be provided to the Ocala Electric Utility by the customer.

A. Documentation demonstrating that the installation complies with (or most current version at time of inspection approval):

1. IEEE 1547 (2018) Standard for Interconnecting Distributed Resources with Electric Power Systems.
2. IEEE 1547.1 (2005) Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems.
3. UL 1741 (2010) Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources.

(Continued on Sheet No. 19.2)

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 19.1)

FIRST REVISED SHEET NO. 19.2  
CANCELS ORIGINAL SHEET NO. 19.2

B. Documentation that the customer-owned renewable generation has been inspected and approved by local code officials prior to its operation in parallel with the Ocala Electric Utility system to ensure compliance with applicable local codes. OEU will also require proof of commission testing by a qualified 3<sup>rd</sup> party testing company (not affiliated in any way with the manufacturer, vendor or installation contractor), for compliance with all required and applicable codes, standards, and interconnection study requirements, prior to setting of OEU metering equipment.

C. Proof of insurance in the amount of:

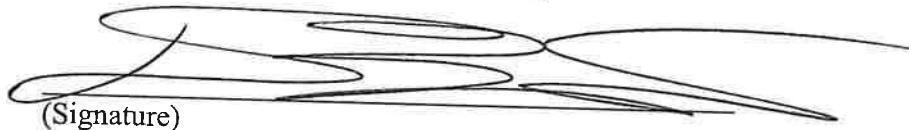
Tier 1 - \$100,000.00

Tier 2 - \$1,000,000.00

Tier 3 - \$2,000,000.00

**Customer**

By: Donald R Beaudet, VP Date: 5/16/22  
(Print Name)

  
(Signature)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019

Ocala Electric Utility  
Ocala, Florida

FIRST REVISED SHEET NO. 23.0  
CANCELS ORIGINAL SHEET NO. 23.0

**Tier 3**  
**Standard Interconnection Agreement**  
**Customer-Owned Renewable Generation System**

This **Agreement** is made and entered into this 29th day of September, 2021, by and between Capris Furniture Industries Inc., (hereinafter called "**Customer**"), located at 1401 NW 27th Ave in Ocala, Florida, and the City of Ocala doing business as Ocala Electric Utility (hereafter called "**OEU**"), a body politic. Customer and OEU shall collectively be called the "**Parties**". The physical location/premise where the interconnection is taking place: 1401 NW 27th Ave Ocala, FL 34475

**WITNESSETH**

**Whereas**, a Tier 3 Renewable Generation System (RGS) is an electric generating system that uses one or more of the following fuels or energy sources: hydrogen, biomass, solar energy, geothermal energy, wind energy, ocean energy, waste heat, or hydroelectric power as defined in Section 377.803, Florida Statutes, rated at more than 100 kilowatts (100 kW) but not greater than 2 megawatts (2 MW) alternating current (AC) power output and is primarily intended to offset part or all of the customer's current electric requirements; and

**Whereas**, OEU operates an electric system serving parts of the City of Ocala and Marion County; and

**Whereas**, Customer has made a written Application to OEU, a copy being attached hereto, to interconnect its RGS with OEU's electrical supply grid at the location identified above; and

**Whereas**, the City of Ocala and the Florida Municipal Power Agency (hereinafter called "FMPA") have entered into the All-Requirements Power Supply Contract pursuant to which the City of Ocala has agreed to purchase and receive, and FMPA has agreed to sell and supply OEU with all energy and capacity necessary to operate OEU's electric system, which limits OEU's ability to directly purchase excess energy from customer-owned renewable generation; and

**Whereas**, in order to promote the development of small customer-owned renewable generation by permitting OEU to allow its customers to interconnect with OEU's electric system and to allow OEU customers to offset their electric consumption with customer-owned renewable generation, FMPA, in accordance with the terms and conditions of this agreement, has agreed to purchase excess customer-owned generation from OEU customers interconnected to OEU's electric system; and

**Whereas**, OEU desires to provide interconnection of a RGS under conditions which will insure the safety of OEU customers and employees, reliability and integrity of its distribution system;

**NOW, THEREFORE**, for and in consideration of the mutual covenants and agreements herein set forth, the parties hereto covenant and agree as follows:

(Continued on Sheet No. 23.1)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019



1. The Customer shall be required to enter into a Tri-Party Net Metering Purchase Power Agreement with FMPA and OEU.
2. "Gross power rating" (GPR) means the total manufacturer's AC nameplate generating capacity of an on-site customer-owned renewable generation system that will be interconnected to and operate in parallel with OEU distribution facilities. For inverter-based systems, the GPR shall be calculated by multiplying the total installed DC nameplate generating capacity by 0.85 in order to account for losses during the conversion from DC to AC.
3. This agreement is strictly limited to cover a Tier 3 RGS as defined above. It is the Customer's responsibility to notify OUS of any change to the GPR of the RGS by submitting a new application for interconnection specifying the modifications at least 30 days prior to making the modifications. In no case should modifications to the RGS be made such that the GPR increases above the 2 megawatt (2 MW) limit.
4. The RGS GPR must not exceed 90 percent (90%) of the Customer's OEU calculated distribution service rating at the Customer's location (including shared electric facilities). If the GPR does exceed the 90 percent (90%) limit, the Customer shall be responsible to pay the cost of upgrades to the distribution facilities required to accommodate the GPR capacity and ensure the 90 percent (90%) threshold is not breached. OEU will not allow a RGS GPR greater than required to offset the customer's annual kWh energy consumption (based on customer's historical consumption data or by means of estimated usage of similar type of service as determined by OEU).
5. The Customer shall be required to pay a non-refundable application fee of \$750 for the review and processing of the application. In addition to the application fee, the Customer shall pay a deposit in the amount of the estimated costs of the study (to be determined at time of application, based on study estimated costs), to be applied toward the cost of an Interconnection Study. The Customer shall be responsible for the actual cost of the study. Should the actual cost of the study be less than the deposit amount, the difference shall be refunded to the Customer. Customer agrees to comply with all interconnection requirements identified in the interconnection study report.
6. The Customer shall fully comply with OEU's Rules and Regulations and Electric Service Specifications as those documents may be amended or revised by OEU from time to time.
7. The Customer certifies that its installation, its operation and its maintenance shall be in compliance with the following standards (or most current version at time of inspection approval):
  - a. IEEE-1547 (2018) Standard for Interconnecting Distributed Resources with Electric Power System;
  - b. IEEE-1547.1 (2005) Standard Conformance Test Procedures for Equipment Interconnection Distributed Resources with Electric Power Systems;

(Continued on Sheet No. 23.2)

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Electric Utility Director

Effective: October 1, 2019

- c. UL-1741 (2010) Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources.
  - d. The National Electric Code, state and/or local building codes, mechanical codes and/or electrical codes;
  - e. The manufacturer's installation, operation and maintenance instructions.
8. The Customer is not precluded from contracting for the lease, operation or maintenance of the RGS with a third party. Such lease may not provide terms or conditions that provide for any payments under the agreement to any way indicate or reflect the purchase of energy produced by the RGS. Customer shall not enter into any lease agreement that results in the retail purchase of electricity; or the retail sale of electricity from the customer-owned renewable generation. Notwithstanding this restriction, in the event that Customer is determined to have engaged in the retail purchase of electricity from a party other than OEU, then Customer shall be in breach of this Agreement and may be subject to the jurisdiction of the Florida Public Service Commission and to fines/penalties.
9. The Customer shall provide a copy of the manufacturer's installation, operation and maintenance instructions to OEU. If the RGS is leased to the Customer by a third party, or if the operation or maintenance of the RGS is to be performed by a third party, the lease and/or maintenance agreements and any pertinent documents related to these agreements shall be provided to OEU.
10. Prior to commencing parallel operation with OEU's electric system, Customer shall have the RGS inspected and approved by the appropriate code authorities having jurisdiction. Customer shall provide a copy of this inspection and approval to OEU. OEU will require proof of system commission testing by a qualified 3<sup>rd</sup> party testing company (not affiliated in any way with the manufacturer, vendor or installation contractor), for compliance with all required and applicable codes, standards, and requirements identified in the interconnection study, prior to setting of OEU metering equipment.
11. The Customer agrees to permit OEU, if it should so choose, to inspect the RGS and its component equipment and the documents necessary to ensure compliance with this Agreement both before and after the RGS goes into service and to witness the initial testing of the RGS equipment and protective apparatus. OEU will provide Customer with as much notice as reasonably possible, either in writing, email, facsimile or by phone as to when OEU may conduct inspections and or document review. Upon reasonable notice, or at any time without notice in the event of an emergency or hazardous condition, Customer agrees to provide OEU access to the Customer's premises for any purpose in connection with the performance of the obligations required by this Agreement or, if necessary, to meet OEU's legal obligation to provide service to its customers. At least ten (10) business days prior to initially placing the customer-owned renewable generation system in service, Customer shall provide written notification to OEU advising OEU of the date and time at which Customer intends to place the system in service, and OEU shall have the right to have personnel present on the in-service date in order to ensure compliance with the requirements of this Agreement.

(Continued on Sheet No. 23.3)

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Electric Utility Director

Effective: October 1, 2019

12. The Customer's RGS must have an appropriately sized grid-tie inverter system that includes applicable protective systems. Customer certifies that the RGS equipment includes a utility-interactive inverter or interconnection system equipment that ceases to ~~interconnect~~ with the OEU system upon a loss of OEU power. The inverter shall be considered ~~certified~~ for interconnected operation if it has been submitted by a manufacturer to a nationally recognized testing laboratory (NRTL) to comply with UL 1741. The NRTL shall be approved by the Occupational Safety & Health Administration (OSHA). If an interconnection study is deemed necessary by OEU, further design review, testing or additional equipment (as identified in any such study) may be required by OEU.

13. If Customer adds another RGS which (i) utilizes the same utility-interactive inverter for both systems; or (ii) utilizes a separate utility-interactive inverter for each system, then Customer shall provide OEU with sixty (60) days advance written notice of the addition.

14. The Customer shall not energize the OEU system when OEU's system is deenergized. The Customer shall cease to energize the OEU system during a faulted condition on the OEU system and/or upon any notice from OEU that the deenergizing of Customer' RGS' equipment is necessary. The Customer shall cease to energize the OEU system prior to automatic or non-automatic reclosing of OEU's protective devices. There shall be no intentional islanding, as described in IEEE 1547, between the Customer's and OEU' systems.

15. The Customer is responsible for the protection of its generation equipment, inverters, protection devices, and other system components from damage from the normal and abnormal operations that occur on OEU's electric system in delivering and restoring system power. Customer agrees that any damage to any of its property, including, without limitation, all components and related accessories of its RGS system, due to the normal or abnormal operation of OEU's electric system, is at Customer's sole risk and expense. Customer is also responsible for ensuring that the customer-owned renewable generation equipment is inspected, maintained, and tested regularly in accordance with the manufacturer's instructions to ensure that it is operating correctly and safely.

16. The Customer must install, at their expense, a manual disconnect switch of the visible load break type to provide a separation point between the AC power output of the customer-owned renewable generation system and any Customer wiring connected to OEU's electric system such that back feed from the customer-owned renewable generation system to OEU's electric system cannot occur when the switch is in the open position. The manual disconnect switch shall be mounted separate from the meter socket on an exterior surface adjacent to the meter. The switch shall be readily accessible to OEU and capable of being locked in the open position with an OEU's padlock. When locked and tagged in the open position by OEU, this switch will be under the control of OEU.

(Continued on Sheet No. 23.4)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019

17. Subject to an approved inspection, including installation of acceptable disconnect switch, this Agreement shall be executed by OEU within thirty (30) calendar days of receipt of a completed application. Customer must execute this Agreement and return it to OEU at least thirty (30) calendar days prior to beginning parallel operations with OEU's electric system, subject to the requirements of Sections 18 and 19, below, and within one (1) year after OEU executes this Agreement.

18. Once OEU has received Customer's written documentation that the requirements of this Agreement have been met, all agreements and documentation have been received and the correct operation of the manual switch has been demonstrated to an OEU representative, OEU will, within fifteen (15) business days, send written notice that parallel operation of the RGS may commence.

19. OEU requires the Customer to maintain general liability insurance for personal injury and property damage in the amount of not less than two million dollars (\$2,000,000.00).

20. OEU will furnish, install, own and maintain metering equipment capable of measuring the flow of kilowatt-hours (kWh) of energy. The Customer's service associated with the RGS will be metered to measure the energy delivered by OEU to Customer, and also measure the energy delivered by Customer to OEU. Customer agrees to provide safe and reasonable access to the premises for installation, maintenance and reading of the metering and related equipment. The Customer shall not be responsible for the cost of the installation and maintenance of the metering equipment necessary to measure the energy delivered by the Customer to OEU.

21. The Customer shall be solely responsible for all legal and financial obligations arising from the design, construction, installation, operation, maintenance and ownership of the RGS.

22. The Customer must obtain all permits, inspections and approvals required by applicable jurisdictions with respect to the generating system and must use a licensed, bonded and insured contractor to design and install the generating system. The Customer agrees to provide OEU with a copy of the Local Building Code Official inspection and certification of installation. The certification shall reflect that the local code official has inspected and certified that the installation was permitted, has been approved, and has met all electrical and mechanical qualifications.

23. In no event shall any statement, representation, or lack thereof, either express or implied, by OEU, relieve the Customer of exclusive responsibility for the Customer's system. Specifically, any OEU inspection of the RGS shall not be construed as confirming or endorsing the system design or its operating or maintenance procedures or as a warranty or guarantee as to the safety, reliability, or durability of the RGS. OEU's inspection, acceptance, or its failure to inspect shall not be deemed an endorsement of any RGS equipment or procedure. Further, as set forth in Sections 15 and 26 of this Agreement, Customer shall remain solely responsible for any and all losses, claims, damages and/or expenses related in any way to the operation or misoperation of its RGS equipment.

(Continued on Sheet No. 23.5)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019

24. Notwithstanding any other provision of this Interconnection Agreement, OEU, at its sole and absolute discretion, may isolate the Customer's system from the distribution grid by whatever means necessary, without prior notice to the Customer. To the extent practical, however, prior notice shall be given. The system will be reconnected as soon as practical once the conditions causing the disconnection cease to exist. OEU shall have no obligation to compensate the Customer for any loss of energy during any and all periods when Customer's RGS is operating at reduced capacity or is disconnected from OEU's electrical distribution system pursuant to this Interconnection Agreement. Typical conditions which may require the disconnection of the Customer's system include, but are not limited to, the following:

- a. OEU utility system emergencies, forced outages, uncontrollable forces or compliance with prudent electric utility practice.
- b. When necessary to investigate, inspect, construct, install, maintain, repair, replace or remove any OEU equipment, any part of OEU's electrical distribution system or Customer's generating system.
- c. Hazardous conditions existing on OEU's utility system due to the operation of the Customer's generation or protective equipment as determined by OEU.
- d. Adverse electrical effects (such as power quality problems) on the electrical equipment of OEU's other electric consumers caused by the Customer's generation as determined by OEU.
- e. When Customer is in breach of any of its obligations under this Interconnection Agreement or any other applicable policies and procedures of OEU.
- f. When the Customer fails to make any payments due to OEU by the due date thereof.

25. Upon termination of services pursuant to this Agreement, OEU shall open and padlock the manual disconnect switch and remove any additional metering equipment related to this Agreement. At the Customer's expense, within thirty (30) working days following the termination, the Customer shall permanently isolate the RGS and any associated equipment from OEU's electric supply system, notify OEU that the isolation is complete, and coordinate with OEU for return of OEU's lock.

26. To the fullest extent permitted by law and in return for adequate, separate consideration, Customer shall indemnify, defend and hold harmless OEU, any and all of their members of its governing bodies, and its officers, agents, and employees for, from and against any and all claims, demands, suits, costs of defense, attorneys' fees, witness fees of any type, losses, damages, expenses, and liabilities, whether direct, indirect or consequential, related to, arising from, or in any way connected with:

- a. Customer's design, construction, installation, inspection, maintenance, testing or operation of Customer's generating system or equipment used in connection with this Interconnection Agreement, irrespective of any fault on the part of OEU.

(Continued on Sheet No. 23.6)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019



- b. The interconnection of Customer's generating system with, and delivery of energy from the generating system to, OEU's electrical distribution system, irrespective of any fault on the part of OEU.
- c. The performance or nonperformance of Customer's obligations under this Interconnection Agreement or the obligations of any and all of the members of Customer's governing bodies and its officers, contractors (and any subcontractor or material supplier thereof), agents and employees.

Customer's obligations under this Section shall survive the termination of this Interconnection Agreement.

27. Customer shall not have the right to assign its benefits or obligations under this Agreement without OEU's prior written consent and such consent shall not be unreasonably withheld. If there is a change in ownership of the RGS, Customer shall provide written notice to OEU at least thirty (30) days prior to the change in ownership. The new owner will be required to assume, in writing, the Customer's rights and duties under this Agreement, or execute a new Standard Interconnection Agreement. The new owner shall not be permitted to net meter or begin parallel operations until the new owner assumes this Agreement or executes a new Agreement.

28. This Agreement supersedes all previous agreements and representations either written or verbal heretofore made between OEU and Customer with respect to matters herein contained. This Agreement, when duly executed, constitutes the only Agreement between parties hereto relative to the matters herein described. This Agreement shall continue in effect from year to year until either party gives sixty (60) days notice of its intent to terminate this Agreement.

29. This Agreement shall be governed by and construed and enforced in accordance with the laws, rules and regulations of the State of Florida and OEU's Tariff as it may be modified, changed, or amended from time to time, including any amendments modification or changes to OEU's Net Metering Service Rate Schedule, the schedule applicable to this Agreement. The Customer and OEU agree that any action, suit, or proceeding arising out of or relating to this Interconnection Agreement shall be initiated and prosecuted in the state court of competent jurisdiction located in Marion County, Florida, and OEU and the Customer irrevocably submit to the jurisdiction and venue of such court. To the fullest extent permitted by law, each Party hereby irrevocably waives any and all rights to a trial by jury and covenants and agrees that it will not request a trial by jury with respect to any legal proceeding arising out of or relating to this Interconnection Agreement.

None of the provisions of this Interconnection Agreement shall be considered waived by either Party except when such waiver is given in writing. No waiver by either Party of any one or more defaults in the performance of the provisions of this Interconnection Agreement shall operate or be construed as a waiver of any other existing or future default or defaults. If any one or more of

(Continued on Sheet No. 23.7)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019



the provisions of this Interconnection Agreement or the applicability of any provision to a specific situation is held invalid or unenforceable, the provision shall be modified to the minimum extent necessary to make it or its application valid and enforceable, and the validity and enforceability of all other provisions of this Interconnection Agreement and all other applications of such provisions shall not be affected by any such invalidity or unenforceability. This Interconnection Agreement does not govern the terms and conditions for the delivery of power and energy to non generating retail customers of OEU's electrical distribution system.

30. This Agreement incorporates by reference the terms of the tariff filed with the Florida Public Service Commission by OEU, including OEU's Net Metering Service Rate Schedule, and associated technical terms and abbreviations, general rules and regulations and standard electric service requirements (as may be applicable) are incorporated by reference, as amended from time to time. To the extent of any conflict between this Agreement and such tariff, the tariff shall control.

31. OEU and Customer recognize that the Florida Statutes and/or the Florida Public Service Commission Rules, including those directly addressing the subject of this Agreement, may be amended from time to time. In the event that such statutes and/or rules are amended that affect the terms and conditions of this Agreement, OEU and Customer agree to supersede and replace this Agreement with a new Interconnection Agreement which complies with the amended statutes/rules.

32. Customer acknowledges that its provision of electricity to OEU hereunder is on a first-offered first-accepted basis and subject to diminution and/or rejection in the event the total amount of electricity delivered to OEU pursuant to the OEU's Net Metering Service Rate Schedule (as filed with the Florida Public Service Commission), from all participating OEU customers, exceeds 2.5 percent (2.5%) of the aggregate customer peak demand on OEU's electric system.

33. This Agreement is solely for the benefit of OEU and Customer and no right nor any cause of action shall accrue upon or by reason, to or for the benefit of any third party not a formal party to this Agreement. Nothing in this Agreement, expressed or implied, is intended or shall be construed to confer upon any person or corporation other than OEU or Customer, any right, remedy, or claim under or by reason of this Agreement or any of the provisions or conditions of this Agreement; and, all provisions, representations, covenants, and conditions contained in this Agreement shall inure to the sole benefit of and be binding upon OEU and Customer and their respective representatives, successors, and assigns. Further, no term or condition contained in this Agreement shall be construed in any way as a waiver by OEU of the sovereign immunity applicable to OEU as established by Florida Statutes, 768.28.

(Continued on Sheet No. 23.8)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019

Ocala Electric Utility  
Ocala, Florida  
(Continued from Sheet No. 23.7)

FIRST REVISED SHEET NO. 23.8  
CANCELS ORIGINAL SHEET NO. 23.8

IN WITNESS WHEREOF, Customer and OEU have executed this Agreement the day and year first above written.

City of Ocala Utility Services:

By: Ken Whitehead

Title: Asst. City Manager

Date: 07 / 17 / 2022

Customer:

By: Donald R. Benselet, Jr.  
Capris Furniture Industries, Inc.  
(Print Name)

[Signature]  
(Signature)

Date: 11/1/21

City of Ocala Electric Utility Account Number:

591232-161656

Approved as to form and legality:

Robert W. Batsel, Jr.  
Robert W. Batsel, Jr.  
Assistant City Attorney

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019

### Tri-Party Net-Metering Power Purchase Agreement

This Tri-Party Net-Metering Power Purchase Agreement (this "Agreement") is entered into this 29th day of September, 2021, by and between the Florida Municipal Power Agency, a governmental joint action agency created and existing under the laws of the State of Florida (hereinafter "FMPA"), the City of Ocala doing business as Ocala Electric Utility, a body politic (hereinafter "OEU"), and Capris Furniture ~~Inc.~~ LLC, a retail electric customer of OEU (hereinafter "Customer").

#### Section 1. Recitals

1.01. OEU and Customer have executed OEU's Standard Interconnection Agreement for a Customer-Owned Renewable Generation System (RGS) pursuant to which OEU has agreed to permit interconnection of Customer's renewable generation to OEU's electric system at Customer's presently-metered location, and Customer has agreed to deliver excess electric energy generated by Customer's Renewable Generation System to OEU's electric distribution system;

1.02. The City of Ocala and FMPA have entered into the All-Requirements Power Supply Contract, dated as of May 1, 1986, (hereinafter the "ARP Contract") pursuant to which the City of Ocala has agreed to purchase and receive, and FMPA has agreed to sell and supply OEU with all energy and capacity necessary to operate the OEU electric system, which limits OEU's ability to directly purchase excess energy from customer-owned renewable generation.

1.03. In order to promote the development of small customer-owned renewable generation by permitting OEU to allow its customers to interconnect with OEU's electric system and to allow OEU's electric customers to offset their electric consumption with customer-owned renewable generation, FMPA, in accordance with the terms and conditions of this agreement, has agreed to purchase excess customer-owned generation from OEU's electric customers interconnected to OEU's electric system.

NOW THEREFORE, for and in consideration of the mutual covenants and agreements set forth herein, the Parties covenant and agree as follows:

#### Section 2. Interconnection

2.01. Customer shall not begin parallel operations with the OEU electric distribution system until Customer has executed OEU's electric Standard Interconnection Agreement for Small Customer-Owned Renewable Generation and is in compliance with all terms and conditions

OEU requires that the customer install and operate the RGS in accordance with all applicable safety codes and standards. OEU shall establish and enforce terms and conditions of operation and disconnection of all interconnected customer-owned renewable generation as it relates to the effect of the RGS on OEU's electric distribution system.

(Continued on Sheet No. 20.1)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019

### **Section 3. Metering**

3.01 In accordance with the OEU's Standard Interconnection Agreement for Customer-Owned Renewable Generation, OEU shall install metering equipment at the point of delivery capable of recording two separate kWh meter readings: (1) the flow of electricity from OEU to the Customer (Delivered), and (2) the flow of excess electricity from the Customer to OEU. OEU shall take meter readings on the same cycle as the otherwise applicable rate schedule.

### **Section 4. Purchase of Excess Customer-Owned Renewable Generation**

4.01. Customer-owned renewable generation shall be first used for Customer's own load and shall offset Customer's demand for OEU's electricity. All electric power and energy delivered by OEU to Customer shall be received and paid for by Customer to OEU (Received) pursuant to the terms, conditions and rates of the OEU otherwise applicable rate schedule.

4.02. Excess customer-owned renewable generation shall be delivered to the OEU Electric distribution system. For purposes of this Agreement, the term "excess customer-owned renewable generation" means any kWh of electrical energy produced by the customer-owned renewable generation system that is not consumed by Customer and is delivered to the OEU electric distribution system. FMPA agrees to purchase and receive, and Customer agrees to sell and deliver, all excess customer-owned renewable generation at the energy rate established by FMPA, which shall be calculated in accordance with Schedule A. Excess customer-owned renewable generation shall be purchased in the form of a credit on Customer's monthly energy consumption bill from OEU.

4.03. In the event that a given monthly credit for excess customer-owned renewable generation exceeds the total billed amount for Customer's consumption in any corresponding month, then the excess credit shall be applied to the subsequent month's bill. Excess energy credits produced pursuant to the preceding sentence shall accumulate and be used to offset Customer's energy consumption bill for a period of not more than twelve (12) months. At the end of each calendar year, any unused excess energy credits shall be paid by OEU to the Customer in accordance with the OEU Electric Net-Metering Service Rate Schedule.

(Continued on Sheet No. 20.2)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019

4.04. FMPA and OEU shall not be required to purchase or receive excess customer-owned renewable generation, and may require Customer to interrupt or reduce production of customer-owned renewable generation, (a) when necessary in order to construct, install, maintain, repair, replace, remove, investigate, or inspect any OEU equipment or part of OEU's system; or (b) if either FMPA or OEU determine, in their sole judgment, that curtailment, interruption, or reduction is necessary because of emergencies, forced outages, force majeure, or compliance with any applicable electric code or standard.

4.05. Customer acknowledges that its provision of electricity to OEU hereunder is on a first-offered, first-accepted basis and subject to diminution and/or rejection in the event the total amount of electricity delivered to OEU pursuant to the Net-Metering Service Rate Schedule (as filed with the Florida Public Service Commission), from all participating OEU customers, exceeds two and one-half percent (2.5%) of the aggregate customer peak demand on the OEU electric system.

#### **Section 5. Renewable Energy Credits**

5.01. Customer shall offer FMPA a first right of refusal before selling or granting to any third party the right to the Green Attributes associated with its customer-owned renewable generation that is interconnected to OEU electric distribution system. The term "Green Attributes" shall include any and all credits, certificates, benefits, environmental attributes, emissions reductions, offsets, and allowances, however entitled, attributable to the generation of electricity from the customer-owned-renewable generation and its displacement of conventional energy generation.

5.02. Any additional meter(s) installed to measure total renewable electricity generated by the Customer for the purposes of measuring Green Attributes, including and renewable energy certificates (or similarly titled credits for renewable energy generated), shall be installed at the expense of the Customer, unless determined otherwise during negotiations for the sale of the Customer's credits to FMPA.

#### **Section 6. Term and Termination**

6.01. This Agreement shall become effective upon execution by all Parties, and shall remain in effect thereafter on a month-to-month basis until terminated by any Party upon thirty (30) days written notice to all other Parties.

6.02. This Agreement shall terminate immediately and without notice upon: (a) termination of the electric distribution service by OEU or (b) failure by Customer to comply with any of the terms and conditions of this Agreement or OEU's Standard Interconnection Agreement for Customer-Owned Renewable Generation.

(Continued on Sheet No. 20.3)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019

## Section 7. Miscellaneous Provisions

7.01. Assignment. It is understood and agreed that no party may transfer, sell, mortgage, pledge, hypothecate, convey, designate, or otherwise assign this Agreement, or any interest herein or any rights or obligations hereunder, in whole or in part, either voluntarily or by operation of law, (including, without limitation, by merger, consolidation, or otherwise), without the express written consent of the other parties (and any such attempt shall be void), which consent shall not be unreasonably withheld. Subject to the foregoing, this Agreement shall inure to the benefit of and be binding upon the parties and their respective successors and permitted assigns.

7.02 Amendment. It is understood and agreed that FMPA and OEU reserve the right, on no less than an annual basis, to change any of the terms and conditions, including pricing, in this Agreement on sixty (60) days advance written notice. FMPA and OEU may make such changes on an immediate basis in the event any applicable law, rule, regulation or court order requires them. In such event, FMPA and OEU will give Customer as much notice as reasonably possible under the circumstances.

7.03. Indemnification. To the fullest extent permitted by laws and regulations, and in return for adequate, separate consideration, Customer shall defend, indemnify, and hold harmless FMPA and OEU, their officers, directors, agents, guests, invitees, and employees from and against all claims, damages, losses to persons or property, whether direct, indirect, or consequential (including but not limited to fees and charges of attorneys, and other professionals and court and arbitration costs) arising out of, resulting from, occasioned by, or otherwise caused by the operation or misoperation of the customer-owned renewable generation, or the acts or omissions of any other person or organization directly or indirectly employed by the Customer to install, furnish, repair, replace or maintain the customer-owned renewable generation system, or anyone for whose acts any of them may be liable.

7.04. Governing Law. The validity and interpretation of this Agreement and the rights and obligations of the parties shall be governed and construed in accordance with the laws of the State of Florida without regard for any conflicts of law provisions that might cause the law of other jurisdictions to apply. All controversies, claims, or disputes arising out of or related to this Agreement or any agreement, instrument, or document contemplated hereby, shall be brought exclusively in the County or Circuit Court for Marion County, Florida, or the United States District Court sitting in Marion County, Florida, as appropriate.

(Continued on Sheet No. 20.4)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019



OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 20.3)

FIRST REVISED SHEET NO. 20.4  
CANCELS ORIGINAL SHEET NO. 20.4

7.05. Enforcement of Agreement. In the event that either party is required to enforce this Agreement by court proceedings or otherwise, the prevailing party shall be entitled to recover all fees and costs incurred, including reasonable attorney's fees and costs for trial, alternative dispute resolution, and/or appellate proceedings.

7.06. Severability. To the extent any provision of this Agreement is prohibited by or invalid under applicable law, such provision shall be ineffective to the extent of such prohibition or invalidity, without invalidating the remainder of such provision or the remaining provisions of this Agreement.

7.07. Third Party Beneficiaries and Sovereign Immunity. This Agreement is solely for the benefit of FMPA, OEU, and Customer and no right nor shall any cause of action accrue upon or by reason, to or for the benefit of any third party not a formal party to this Agreement. Nothing in this Agreement, expressed or implied, is intended or shall be construed to confer upon any person or corporation other than FMPA, OEU, or Customer, any right, remedy, or claim under or by reason of this Agreement or any of the provisions or conditions of this Agreement; and, all provisions, representations, covenants, and conditions contained in this Agreement shall inure to the sole benefit of and be binding upon FMPA, OEU, and Customer and their respective representatives, successors, and assigns. Further, no term or condition contained in this Agreement shall be construed in any way as a waiver by either FMPA or OEU of the sovereign immunity applicable to either or both of them as established by Florida Statutes, 768.28.

(Continued on Sheet No. 20.5)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019

OCALA ELECTRIC UTILITY  
OCALA, FLORIDA  
(Continued from Sheet No. 20.4)

FIRST REVISED SHEET NO. 20.5  
CANCELS ORIGINAL SHEET NO. 20.5

IN WITNESS WHEREOF, Customer and OEU have executed this Agreement the day and year first above written.

City of Ocala Electric Utility

By: Ken Whitehead

Title: Asst. City Manager

Date: 07 / 17 / 2022

Florida Municipal Power Agency

By: [Signature]

Title: Bus Dev and Sys Ops Director

Date: 07 / 17 / 2022

Customer Donald R. Brawley, VP

By: Capital Furniture Industries Inc Date: 11/1/21

(Print Name)

[Signature]

(Signature)

Customer's City of Ocala Electric Utility Account Number: 591232-161656

Approved as to form and legality:

Robert W. Batsel, Jr.

Robert W. Batsel, Jr.  
Assistant City Attorney

(Continued on Sheet No. 20.6)

Issued by: Michael Poucher, P.E.  
Electric Utility Director

Effective: October 1, 2019

**Tri-Party Net-Metering Power Purchase Agreement  
Schedule A**

**I. All-Requirements Project Calculation of Excess Customer-Owned Renewable Generation Credit**

- a) FMPA shall pay OEU for the excess kWh energy delivered by customer-owned renewable generation to OEU's electric system. Every month, OEU shall determine the total kWh of customer-owned renewable generation that is delivered to OEU's electric system, and shall send the information to FMPA as soon as it becomes available, but no later than the second working day of every month. FMPA will then provide a monthly payment to OEU in the form of a credit on the ARP power bill for the excess energy delivered to the distribution grid. The ARP Renewable Generation Credit will be calculated as follows:

**ARP Renewable Generation Credit = Quarterly Energy Rate \* Monthly kWh of excess customer-owned renewable generation**

**Quarterly Energy Rate = 3 month average of ARP energy rate. FMPA will update the Quarterly Energy Rate every April 1, July 1, October 1 and January 1.**

- b) As part of the monthly bill adjustment, FMPA will also increase OEU's kWh billing amount by the same kWh amount as the customer-owned renewable generation purchased by FMPA. This adjustment is necessary because excess customer generation that flows onto OEU's electric system has been purchased by FMPA, but will remain on OEU's electric system and be used by OEU to meet its other customers' electric needs. As a result, OEU's monthly ARP bill will be adjusted accordingly to reflect FMPA's subsequent sale of this energy to OEU.

**II. Payment for Unused Excess Energy Credits**

- a) Monthly excess energy credits shall accumulate and be used to offset the Customer's following month energy consumption bill for a period of not more than twelve (12) months.
- b) At the end of each calendar year, OEU shall pay the Customer for any unused excess energy credits in accordance with the OEU Electric Net-Metering Service Rate Schedule.

(29.20130, -82.16745)

## VICINITY MAP

**Owner:**  
Capris Furniture Industries, Inc.  
1401 NW 27th Ave  
Ocala, FL 34475

**TEL:**  
352-629-8889

**General Contractor:**

SEM Power  
4466 Eagle Falls Place  
Tampa, FL 33619

Engineer:  
Castillo Engineering Services LLC  
620 N. Wymore Road, Suite 250,  
Maitland, FL 32751  
TEL: (407) 289-2575  
Ermocrates E. Castillo  
License#: NY PE 095344

Sheet #	Sheet Description	Rev./Issue	Date
D-001	TITLE SHEET	1/01/2002	5/1/2002
D-002	GENERAL NOTES	1/01/2002	5/1/2002
D-003	PROJECT PLAN	1/01/2002	5/1/2002
D-004	SINGLE LINE DIAGRAM	1/01/2002	5/1/2002
D-005	SCHEMATIC	1/01/2002	5/1/2002
D-006	DETAILED WIRING	1/01/2002	5/1/2002
D-007	AC & DC SYSTEM VALUES	1/01/2002	5/1/2002
D-008	OVERALL DETAILED WIRING PLAN	1/01/2002	5/1/2002
D-009	CONCATENATION PLAN	1/01/2002	5/1/2002
D-010	CONCATENATION PLAN	1/01/2002	5/1/2002
D-011	ELEVATION PLAN	1/01/2002	5/1/2002
D-012	ELEVATION PLAN	1/01/2002	5/1/2002
D-013	GROUNDING DETAIL SHEET 1	1/01/2002	5/1/2002
D-014	GROUNDING DETAIL SHEET 2	1/01/2002	5/1/2002
D-015	GROUNDING DETAIL SHEET 3	1/01/2002	5/1/2002
D-016	GROUNDING DETAIL SHEET 4	1/01/2002	5/1/2002
D-017	MULTI-CONDUCTOR DETAIL SHEET 1	1/01/2002	5/1/2002
D-018	MULTI-CONDUCTOR DETAIL SHEET 2	1/01/2002	5/1/2002
D-019	MULTI-CONDUCTOR DETAIL SHEET 3	1/01/2002	5/1/2002
D-020	MULTI-CONDUCTOR DETAIL SHEET 4	1/01/2002	5/1/2002
D-021	MULTI-CONDUCTOR DETAIL SHEET 5	1/01/2002	5/1/2002
D-022	MULTI-CONDUCTOR DETAIL SHEET 6	1/01/2002	5/1/2002
D-023	MULTI-CONDUCTOR DETAIL SHEET 7	1/01/2002	5/1/2002
D-024	MULTI-CONDUCTOR DETAIL SHEET 8	1/01/2002	5/1/2002
D-025	MULTI-CONDUCTOR DETAIL SHEET 9	1/01/2002	5/1/2002
D-026	MULTI-CONDUCTOR DETAIL SHEET 10	1/01/2002	5/1/2002
D-027	MULTI-CONDUCTOR DETAIL SHEET 11	1/01/2002	5/1/2002
D-028	MULTI-CONDUCTOR DETAIL SHEET 12	1/01/2002	5/1/2002
D-029	MULTI-CONDUCTOR DETAIL SHEET 13	1/01/2002	5/1/2002
D-030	MULTI-CONDUCTOR DETAIL SHEET 14	1/01/2002	5/1/2002
D-031	MULTI-CONDUCTOR DETAIL SHEET 15	1/01/2002	5/1/2002
D-032	MULTI-CONDUCTOR DETAIL SHEET 16	1/01/2002	5/1/2002
D-033	MULTI-CONDUCTOR DETAIL SHEET 17	1/01/2002	5/1/2002
D-034	MULTI-CONDUCTOR DETAIL SHEET 18	1/01/2002	5/1/2002
D-035	MULTI-CONDUCTOR DETAIL SHEET 19	1/01/2002	5/1/2002
D-036	MULTI-CONDUCTOR DETAIL SHEET 20	1/01/2002	5/1/2002
D-037	MULTI-CONDUCTOR DETAIL SHEET 21	1/01/2002	5/1/2002
D-038	MULTI-CONDUCTOR DETAIL SHEET 22	1/01/2002	5/1/2002
D-039	MULTI-CONDUCTOR DETAIL SHEET 23	1/01/2002	5/1/2002
D-040	MULTI-CONDUCTOR DETAIL SHEET 24	1/01/2002	5/1/2002
D-041	MULTI-CONDUCTOR DETAIL SHEET 25	1/01/2002	5/1/2002
D-042	MULTI-CONDUCTOR DETAIL SHEET 26	1/01/2002	5/1/2002
D-043	MULTI-CONDUCTOR DETAIL SHEET 27	1/01/2002	5/1/2002
D-044	MULTI-CONDUCTOR DETAIL SHEET 28	1/01/2002	5/1/2002
D-045	MULTI-CONDUCTOR DETAIL SHEET 29	1/01/2002	5/1/2002
D-046	MULTI-CONDUCTOR DETAIL SHEET 30	1/01/2002	5/1/2002
D-047	MULTI-CONDUCTOR DETAIL SHEET 31	1/01/2002	5/1/2002
D-048	MULTI-CONDUCTOR DETAIL SHEET 32	1/01/2002	5/1/2002
D-049	MULTI-CONDUCTOR DETAIL SHEET 33	1/01/2002	5/1/2002
D-050	MULTI-CONDUCTOR DETAIL SHEET 34	1/01/2002	5/1/2002
D-051	MULTI-CONDUCTOR DETAIL SHEET 35	1/01/2002	5/1/2002
D-052	MULTI-CONDUCTOR DETAIL SHEET 36	1/01/2002	5/1/2002
D-053	MULTI-CONDUCTOR DETAIL SHEET 37	1/01/2002	5/1/2002
D-054	MULTI-CONDUCTOR DETAIL SHEET 38	1/01/2002	5/1/2002
D-055	MULTI-CONDUCTOR DETAIL SHEET 39	1/01/2002	5/1/2002
D-056	MULTI-CONDUCTOR DETAIL SHEET 40	1/01/2002	5/1/2002
D-057	MULTI-CONDUCTOR DETAIL SHEET 41	1/01/2002	5/1/2002
D-058	MULTI-CONDUCTOR DETAIL SHEET 42	1/01/2002	5/1/2002
D-059	MULTI-CONDUCTOR DETAIL SHEET 43	1/01/2002	5/1/2002
D-060	MULTI-CONDUCTOR DETAIL SHEET 44	1/01/2002	5/1/2002
D-061	MULTI-CONDUCTOR DETAIL SHEET 45	1/01/2002	5/1/2002
D-062	MULTI-CONDUCTOR DETAIL SHEET 46	1/01/2002	5/1/2002
D-063	MULTI-CONDUCTOR DETAIL SHEET 47	1/01/2002	5/1/2002
D-064	MULTI-CONDUCTOR DETAIL SHEET 48	1/01/2002	5/1/2002
D-065	MULTI-CONDUCTOR DETAIL SHEET 49	1/01/2002	5/1/2002
D-066	MULTI-CONDUCTOR DETAIL SHEET 50	1/01/2002	5/1/2002
D-067	MULTI-CONDUCTOR DETAIL SHEET 51	1/01/2002	5/1/2002
D-068	MULTI-CONDUCTOR DETAIL SHEET 52	1/01/2002	5/1/2002
D-069	MULTI-CONDUCTOR DETAIL SHEET 53	1/01/2002	5/1/2002
D-070	MULTI-CONDUCTOR DETAIL SHEET 54	1/01/20	



SHEET SIZE  
ANSI B  
24" X 36"

Signature will soon

1401 NW 27TH AVENUE  
OCALA, FL 34475

TITLE SHEET

ANSI B  
SHEET SIZE

SHEET NUMBER  
G-001

**CASTILLO ENGINEERING  
SERVICES, LLC**

620 N. WINDHILL ROAD  
SUITE 250  
MARTLAND FL 32751

TEL: (952) 289-2579  
EMERGENCY: CAS/ALO - 911

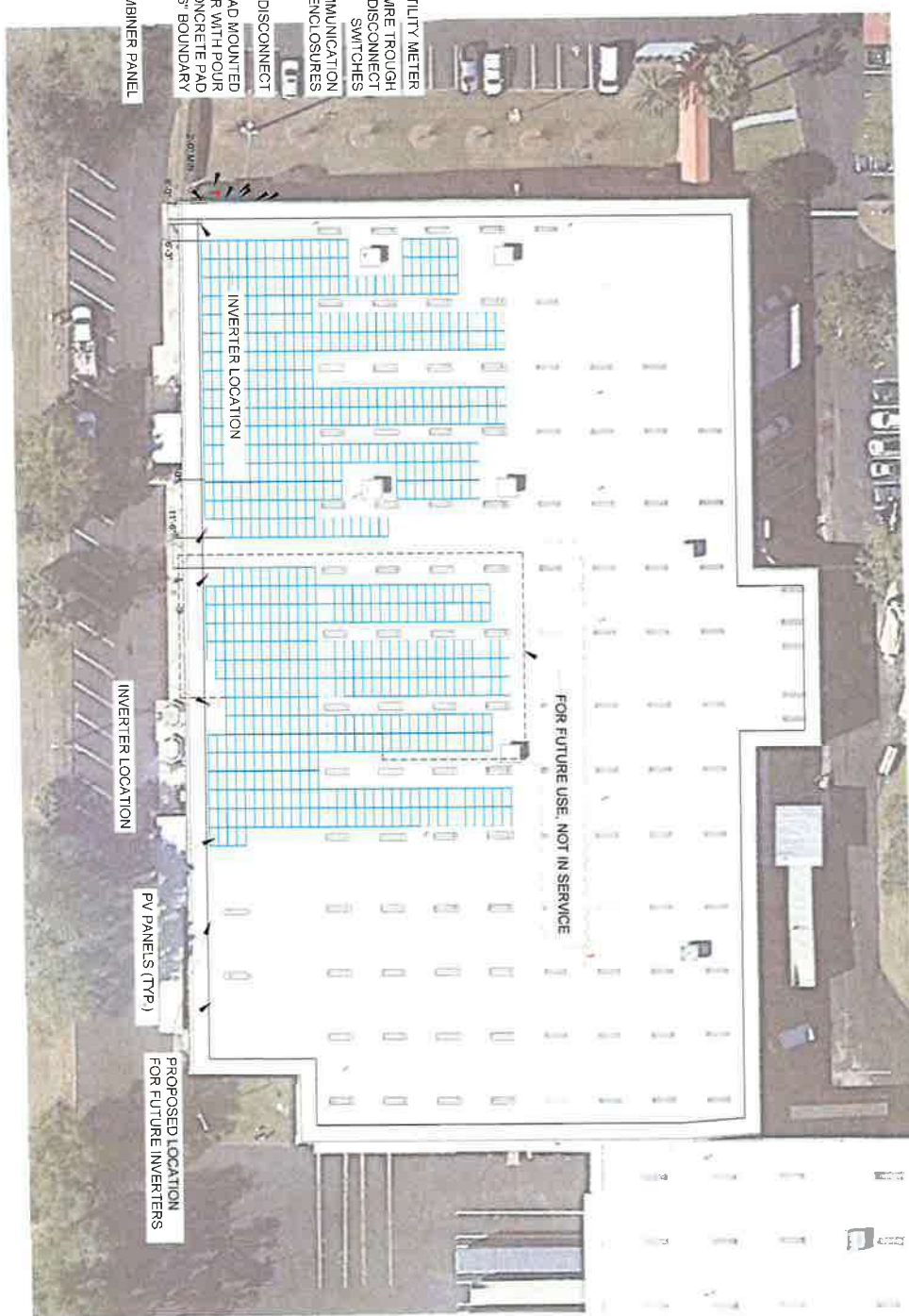
**CASTILLO ENGINEERING  
SERVICES, LLC**

DESCRIPTION	DATE	RE
-------------	------	----

UTILITY REVISIONS.	DATE	BY
IF P	10/09/2021	0

**PROJECT INSTALLER**





SYSTEM INFORMATION	
MODULE	CANADIAN SOLAR
WARRANTY PERIOD	25 YEARS
WARRANTY TYPE	PRORATED
MODULE QUANTITY	811720
WARRANTY PERIOD	25 YEARS
WARRANTY TYPE	PRORATED
WARRANTY PERIOD	25 YEARS
WARRANTY TYPE	PRORATED
WARRANTY PERIOD	25 YEARS
WARRANTY TYPE	PRORATED

SHEET SIZE	ANSI B
	24" X 36"
SHEET NUMBER	E-001

SHEET NAME	PV SITE PLAN
PROJECT NAME	CAPRIS FURNITURE
	1401 NW 27TH AVENUE
	OCALA, FL 34475



DESCRIPTION	DATE	REV
UTILITY	5/11/2022	1
REVISIONS		
PROJECT INSTALLER		

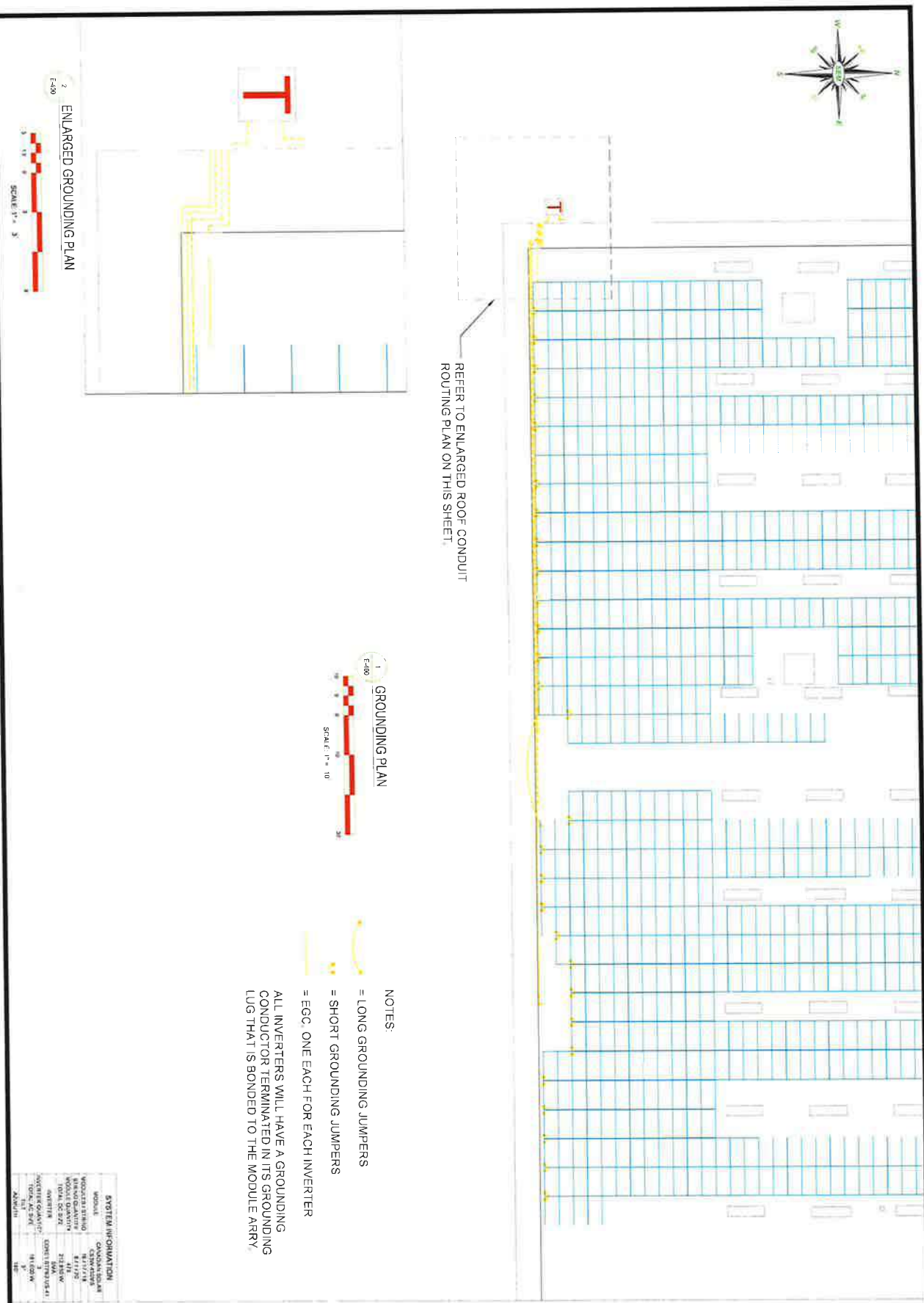
CASTILLO ENGINEERING SERVICES, LLC  
6701 N. STATE RD.  
SUITE 250  
MANTLAND, FL 32751  
TEL: 813.291.0011  
FAX: 813.291.0012  
WWW.CASTILLOENGINEERING.COM  
CASTILLO ENGINEERING SERVICES, LLC

Signature with Seal









NOTES

- = LONG GROUNDING JUMPERS
- = SHORT GROUNDING JUMPERS
- = EGC, ONE EACH FOR EACH INVERTER

ALL INVERTERS WILL HAVE A GROUNDING CONDUCTOR TERMINATED IN ITS GROUNDING LUG THAT IS BONDED TO THE MODULE ARRAY.

SYSTEM INFORMATION	
MODULE	CANONICAL BOLD
VIDEOCARD TYPE	CGV-4000
VIDEOCARD TYPE NO	1811/18
BIOS TYPE	811/10
BIOS TYPE NO	418
BIOS TYPE NO	214/05 W
BIOS TYPE NO	50A
BIOS TYPE NO	CONVERT TO US 41
BIOS TYPE NO	3
BIOS TYPE NO	1810 W
BIOS TYPE NO	3
BIOS TYPE NO	181

SHEET SIZE  
ANSI B  
24" X 36"

SHEET NUMBER  
E-400

SHEET NAME  
GROUNDING PLAN

CAPRIS FURNITURE

1401 NW 27TH AVENUE  
OCALA, FL 34475



**Castillo Engineering**  
 10000 W. 10th Ave.  
 Suite 200  
 Denver, CO 80202  
 Tel: 303.733.1100  
 Fax: 303.733.1101  
 Email: info@castilloeng.com

**CASTILLO ENGINEERING**  
 SERVICES, LLC  
 800 W. 10th Ave., Suite 200  
 Denver, CO 80202  
 Tel: 303.733.1100  
 Fax: 303.733.1101  
 Email: info@castilloeng.com

**PROJECT INSTALLER**

DATE	REV	DESCRIPTION
9/17/2012	1	UTILITY M-2000-04 D/F
10/29/2013	0	

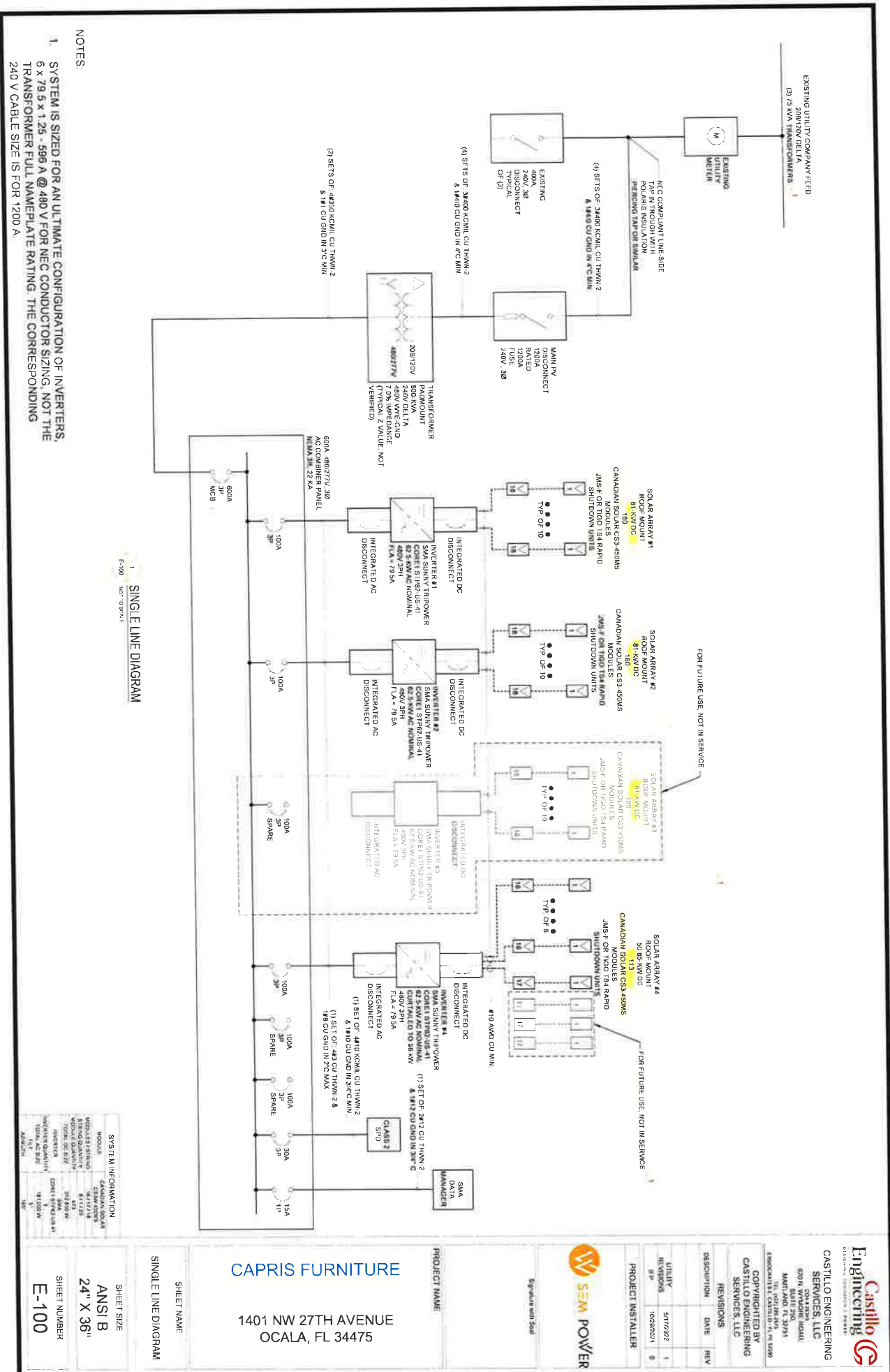
**REVISIONS**

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 CASTILLO ENGINEERING  
 SERVICES, LLC



**SEM POWER**

Signature and Seal



NOTES:

1. SYSTEM IS SIZED FOR AN ULTIMATE CONFIGURATION OF INVERTERS, 6 x 79.5 x 1.25 - 596 A @ 480 V FOR NEC CONDUCTOR SIZING. NOT THE TRANSFORMER FULL NAMEPLATE RATING. THE CORRESPONDING 240 V CABLE SIZE IS FOR 1200 A.

SYSTEM INFORMATION	
PROJECT NAME	CAPRIS FURNITURE
PROJECT ADDRESS	1401 NW 27TH AVENUE, OCALA, FL 34475
DESIGNER	CASTILLO ENGINEERING SERVICES, LLC
DATE	5/17/2022
REVISIONS	1
PROJECT INSTALLER	SEW POWER
UTILITY	FLORIDA POWER & LIGHT
REVISIONS	1
DATE	5/17/2022
REVISIONS	1
DATE	5/17/2022

SHEET INFORMATION	
SHEET NAME	SINGLE LINE DIAGRAM
SHEET SIZE	ANSI B 24" X 36"
SHEET NUMBER	E-100

CASTILLO ENGINEERING SERVICES, LLC  
500 W. WINDY HILL  
MARIETTA, GA 30067  
TEL: 770.424.1111  
WWW.CASTILLO-ENG.COM

SEW POWER  
1401 NW 27TH AVENUE  
OCALA, FL 34475

PROJECT NAME  
1401 NW 27TH AVENUE  
OCALA, FL 34475

PROJECT INSTALLER  
SEW POWER

UTILITY  
FLORIDA POWER & LIGHT

REVISIONS  
1

INVERTER 1 SMA  
COME 1 STRG-US-41  
INVERTER

INVERTER 2 SMA  
COME 1 STRG-US-41  
INVERTER

PV STRING INVERTER  
CONDUCTOR WITH PV WIRE  
2.5mm² (10AWG) MINIMUM  
RESISTANT SUPPORTED ON  
MOUNTING SYSTEM

FOR INFORMATION ONLY  
SEE AC ONE LINE  
DIAGRAM IWS  
E-100

EQUIPMENT SCHEDULE				
ITEM	DESCRIPTION	QUANTITY	DETAIL	REMARKS
1	PV MODULES	413	(18 / 17 / 16 x CANADIAN SOLAR 460W IN EACH STRING	CONTAINS AC AND DC INTEGRATED DISCONNECTS
2	INVERTER	3	SMA SUNNY POWER (R/POWER CODE 1 S1 P6ULS-41	
CONDUCTOR AND CONDUIT SCHEDULE				
ITEM	DESCRIPTION	CONDUCTOR	CONDUIT	PATH
A	PV MODULE CONDUCTORS	2 #12 CU, 200 PV WIRE	NA- INTEGRATED BACK OF MODULE WIRING	NA
B	PV STRING MONITORING CONDUCTORS	2 #18B, CU, 200 PV WIRE	NA- HOME RUN WIRING	BACK OF BACKING
C	INVERTER OUTPUT CONDUCTORS			CONDUIT

REFER TO AC ONE-LINE DIAGRAM E-100

PV ARRAY SCHEDULE PER INVERTER									
INVERTER REF.	WFS	MODULE MODELS	POWER (W)	NUM STRINGS	MODULES #/C	POWER (KW)	INVERTER TYPE	TOTAL POWER (KW)	
INVERTER 12	CANADIAN SOLAR	CS3-500MS	400	10	180	81,000	SMC CDBE1		212,850
INVERTER 4	CANADIAN SOLAR	CS3-500MS	400	8/1	18/17	113	50,850	SMC CDBE1	50,850

SYSTEM INFORMATION	
MODULE	CALULAN SOLAR
WIND ELECTRIFYING	ENVI 0505
STRONG QUALITY	811778
WIND QUALITY	811722
TOTAL DC 3075	432
INVERTER	715325W
CONVERTER QUALITY	SWA
TOTAL AC 3075	3
TEST	181500 W
ADDITION	5-
	VER

SHEET SIZE  
ANSI B  
24" X 36"

SHEET NAME: DC LINE DIAGRAM

1401 NW 27TH AVENUE  
OCALA, FL 34475

PROJECT NAME



Squid with Salt

PROJECT INSTALLER

REVISIONS		
DESCRIPTION	DATE	REV
UTILITY REVISIONS IFP	5/11/2022 10/29/2021	1 0

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SERVICES, LLC

EMMOCAPIRE CASTLECO, LLC, THE

**CASTILLO ENGINEERING  
SERVICES, LLC**  
COA # 26245  
820 N. WYMORE ROAD,  
SUITE 250,

**Castillo G**  
**Engineering**  
SOLUTIONS • INNOVATION • PROGRESS



WITH INC 690.7 & 690.8	
VMAX	95.8 VDC
VWDM	75.2 VDC
ISC	18.13 ADC
RMPP	17.13 ADC
WITH INC 690.8	
	18.13 ADC
STRING FUSE	
	20.00 ADC
WDM	
	18.00 WDM

## DC VOLTAGE DROP

NUMBER OF VOLUNTARY	0.55
AVERAGE NUMBER CASES OF VOLUNTARY	0.50

## AC VOLTAGE DROP

OUTPUT DESIGNATION	AC VOLTAGE [V]	MAX OUTPUT CURRENT [A]	DIST. TO EQUIPMENT [FT]	CCTD [A]	ECF [A]	CONDUCTOR SIZE	WIRE TYPE	INVERTER TO AC COMBINER PANEL										AC COMBINER PANEL TO TRANSFORMER									
								# OF POLE	# OF PHASES	TEMPERATURE DEGREE	BUILDING DEGREE	RATIO A/MS	RATIO A/MS	RATIO C/MS	RESISTIVITY [OHMS/1000 FT]	AC VOLTAGE [DISC V]	% VOLTAGE DROP	CONDUCT TYPE	COMMON SIZE								
HV1	480	79.5	60	100	88	#1	CU THWN-2	1	3	0.342	100	94	100	0.240	2.3	0.89%	80.5	1.5 TC									
HV2	480	79.5	100	100	88	#1	CU THWN-2	1	3	0.34	100	94	100	0.240	6.2	2.34%	80.5	1.5 TC									
MG1	560	79.5	200	100	88	#1	CU THWN-2	1	3	0.34	100	94	100	0.240	7.2	2.56%	80.5	1.5 TC									
MG2	560	79.5	200	100	88	#1	CU THWN-2	1	3	0.34	100	94	100	0.240	8.3	3.02%	80.5	1.5 TC									
AC COMBINER PANEL TO TRANSFORMER																											
PANEL #1	480	480	25	600	81	3/0	CU THWN-2	2	3	0.34	100	94.5	300	0.047	0.44	0.09%	80.5	3 TC									
TRANSFORMER TO AC DISCONNECT TO WIRE TROUGH TAP																											
XTM1-1	240	1200	40	1200	4/0	4/0	CU THWN-2	4	3	0.34	300	129.6	1300	0.021	0.77	0.32%	80.5	4 TC									
TRANSFORMER TO AC DISCONNECT TO WIRE TROUGH TAP																											
XTM1-2	240	1200	40	1200	4/0	4/0	CU THWN-2	4	3	0.34	300	129.6	1300	0.021	0.77	0.32%	80.5	4 TC									

**NOTES:**

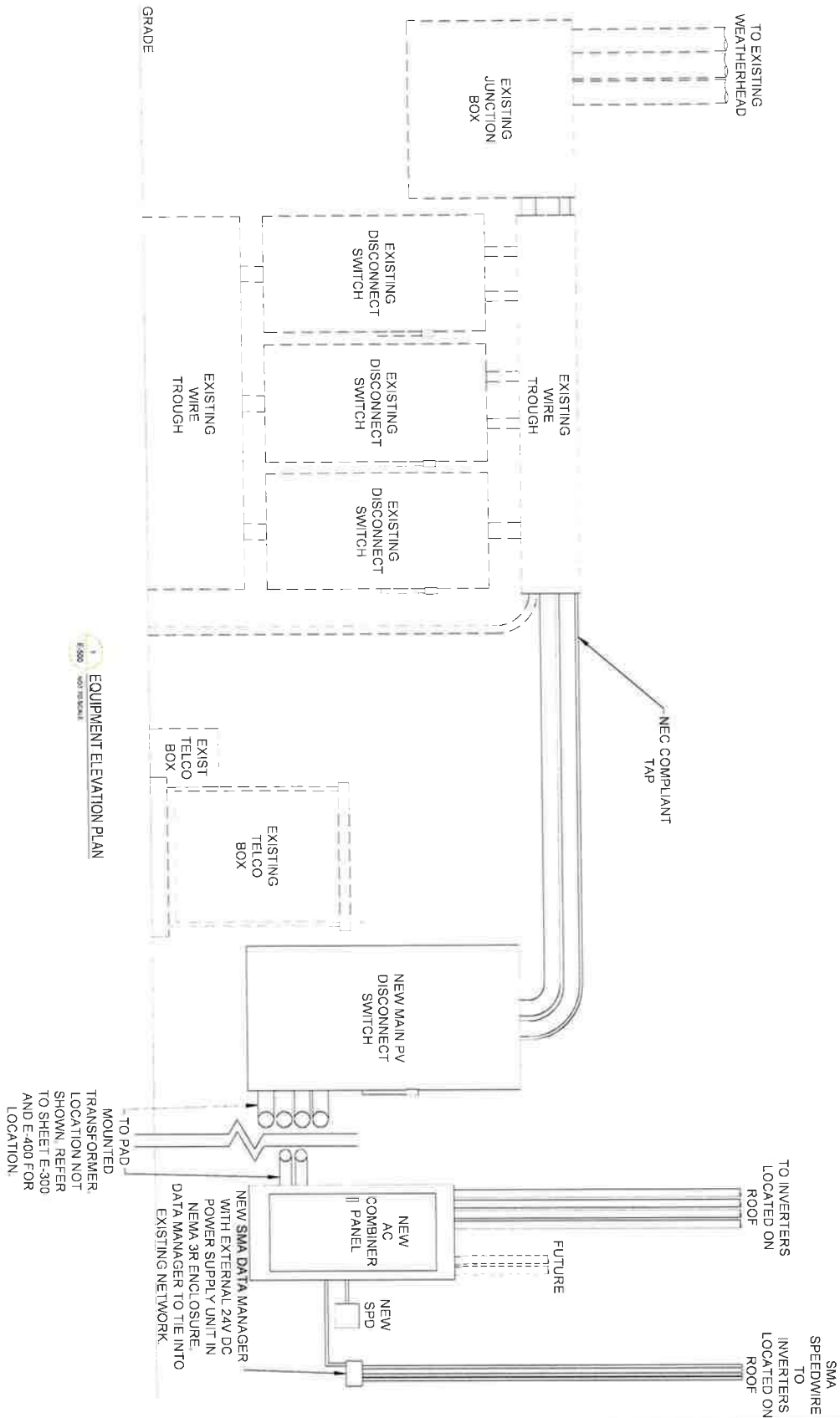
1. UP TO 10 STRING HOLLOW CONDUCTORS MAY BE ALLOCATED TO A SINGLE 2" CONDUIT USING #10 CU WIRE (CONDUCTOR AMPS @ 75°C) (SEE TABLE 31H(5)(B)(1)) OR #12 AL (AMPS @ 75°C) (SEE TABLE 31H(5)(B)(2)).
2. #10 @ 90°C = 5 x 18 A @ 75°C.
3. CONDUCTIONS ARE TO BE EQUIPPED WITH THE MOST INSULATION AND SUNLIGHT RESISTANT BLACK WITH RED STRIKES FOR +, BLACK FOR -.
4. WIRE SIZES ARE THE MINIMUM REQUIRED FOR VOLTAGE DROP PER NEC AND CONTRACT REQUIREMENTS.
5. ALL DC WIRES MUST BE RATED FOR 2000V.
6. CONTRACTOR RESPONSIBLE FOR TOTAL WIRE LENGTHS. THE WIRE LENGTHS ON THIS SHEET ARE FOR GUIDANCE ONLY.

SYSTEM INFORMATION	
MODULE	CANADIAN SOLAR
SOLAR PANEL BRAND	401728
SHEET QUANTITY	413
WALLS QUANTITY	216
TOTAL SQ-FT	92,654
NO OF DAYS	1
DATE STARTED	1/1/2000
DATE FINISHED	1/1/2000
NO OF SHEETS	1887

ANSI B  
24" X 36"

SHEET NUMBER  
**E-110**

PROJECT NAME	CAPRIS FURNITURE
SHEET NAME	1401 NW 27TH AVENUE OCALA, FL 34475
AC & DC SYSTEM VALUES	



NOTES:  
 - EXACT DIMENSIONS OF EXISTING EQUIPMENT TO BE VERIFIED IN FIELD  
 - ELEVATION DOES NOT SHOW BUSHES LOCATED IN FRONT OF EQUIPMENT

SYSTEM INFORMATION	
MODULE	CANADIAN SOLAR
MODULE SERIAL	411719
STANDARD QUANTITY	1
TOTAL DC BIPV	312.5kW
WARRANTY	25 YEARS
WARRANTY QUANTITY	1
TOTAL AC BIPV	112.5kW
WARRANTY	25 YEARS
TOTAL AC BIPV	112.5kW
WARRANTY	25 YEARS

SHEET NAME  
ELEVATION PLAN

PROJECT NAME  
CAPRIS FURNITURE

1401 NW 27TH AVENUE  
OCALA, FL 34475

SHEET SIZE  
ANSI B  
24" X 36"

SHEET NUMBER  
E-500

Signature with Seal

**SEM POWER**

CASTILLO ENGINEERING SERVICES, LLC  
 6811 W. UNIVERSITY BLVD.  
 SUITE 200  
 MIAMI, FL 33151  
 (305) 555-1111  
 WWW.CASTILLO-ENG.COM

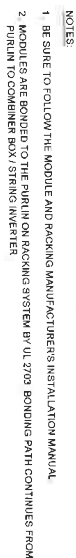
REVISIONS

REVISIONS	DATE	REV
UTILITY REVISIONS	5/11/2023	1
IF P	10/26/2024	0

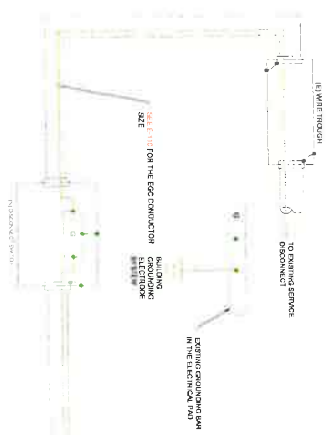
PROJECT INSTALLER

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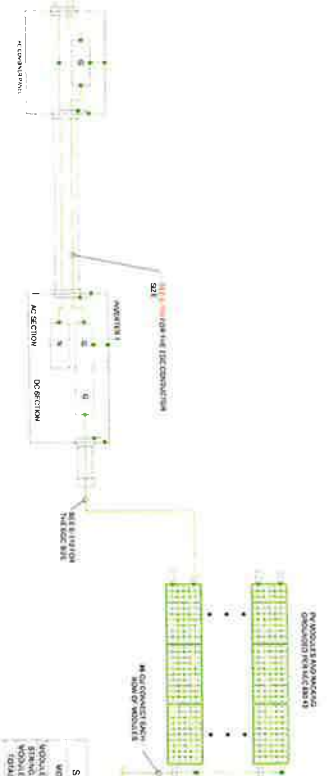




## MODULE BONDING/GROUNDING



### GROUNDING DIAGRAM



## RACK TO RACK GROUNDING

- BONDING JUMPERS TO BE USED TO CONNECT RACKS TOGETHER IN THE E-W DIRECTION
- USE **WGB-BONDING # 8** OR EQUIVALENT APPROVED BY THE ENGINEER FOR AREAS WHERE THERE IS SPACE BETWEEN ADJACENT RACKS
- BE SURE TO FOLLOW THE MODULE AND PACKING MANUFACTURER'S INSTALLATION MANUAL
- SLACK TO BE INSTALLED ON JUMPER
- GROUND LUGS WITH #6 CU WIRE IS ALSO ACCEPTABLE

SHEET NUMBER  
E-600

SHEET NAME  
GROUNDING DETAILS  
SHEET 1

CAPRIS FURNITURE

1401 NW 27TH AVENUE  
OCALA, FL 34475

PROJECT NAME



PROJECT INSTALLER

DESCRIPTION	DATE	REV
UTILITY REVISIONS	5/17/2022	1
IFP	10/29/2021	0

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MARTLAND, FL 32751

620 N. WYMORE ROAD,  
SUITE 200

**SERVICES, LLC**  
COAW 2005

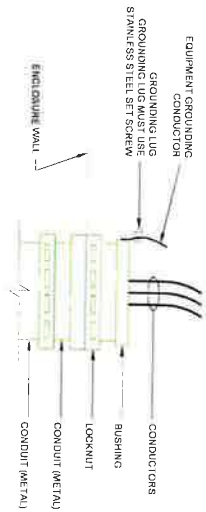
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Engineering

Castillo 20

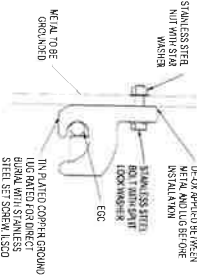
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1 TYPICAL CONDUIT GROUNDING DETAIL

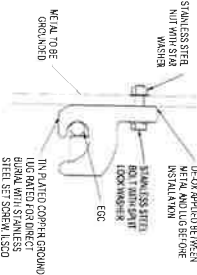


2 TYPICAL EQUIPMENT GROUNDING DETAIL



3 RACK BONDING JUMPER DETAIL

48 LAY-IN-LUG GROUNDING DETAIL OPTION B



49 CLAMP GROUNDING DETAIL OPTION A



48 LAY-IN-LUG GROUNDING DETAIL OPTION B

- NOTES:
1. ALL HARDWARE SHALL BE STAINLESS STEEL.
  2. EGC SHALL BE 86 BARE 802D C/L ON.
  3. SHALL BE USED ON EXTERIOR BONDING TO BONDING.
  4. EGC SHALL BE 86 BARE 802D C/L ON.

- GENERAL REQUIREMENTS:
1. GROUNDING BUNDLES SHALL BE USED TO GROUND CONDUIT TERMINATIONS IN CABINETS, BOX OR ALUMINUM OUTLET AND SHALL BE ATTACHED FOR BONDING TO GROUND IN ACCORDANCE WITH NEC 250.122.
  2. ALL GROUNDING BUNDLES, AND CONNECTING SHALL BE INSTALLED IN THE CONDUIT BONDING IN THE CONDUIT.
  3. BONDING GROUNDING AND BONDING SHALL BE INSTALLED BY E.C. BONDING GROUNDING TO BONDING WITH ACTING INSTALLATION MANUAL.

- NOTES:
1. HARDWARE SHALL BE STAINLESS STEEL.
  2. EGC SHALL BE 86 BARE 802D C/L ON.
  3. SHALL BE USED ON EXTERIOR BONDING TO BONDING.
  4. EGC SHALL BE 86 BARE 802D C/L ON.

SYSTEM INFORMATION	
WIRING	CONDUIT/BOXES
WIRING (ELECTRICAL)	CLAMP 802D
WIRING (ELECTRICAL)	802D 802D
WIRING (ELECTRICAL)	802D 802D
WIRING (ELECTRICAL)	802D 802D
WIRING (ELECTRICAL)	802D 802D
WIRING (ELECTRICAL)	802D 802D
WIRING (ELECTRICAL)	802D 802D
WIRING (ELECTRICAL)	802D 802D
WIRING (ELECTRICAL)	802D 802D

SHEET SIZE	ANSI B
24" X 36"	
SHEET NUMBER	E-601

CAPRIS FURNITURE

1401 NW 27TH AVENUE  
OCALA, FL 34475

PROJECT NAME

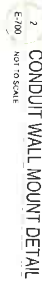


DESCRIPTION	DATE	REV
REVISIONS		
DATE	3/17/2022	1
BY	10/29/2021	0

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800 N. WYOMING ROAD,  
SUITE 200  
MARIETTA, GA 30067  
TEL: 404.875.2315  
WWW.CASTILLO-ENGINEERING.COM





- ## WIRE MANAGEMENT

- MADE BY C.A.B.

Activity	100
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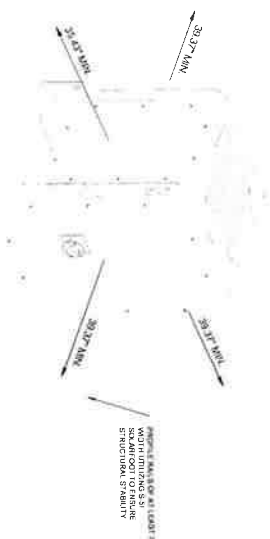
UTILITY REVISIONS	DATE	BY
1	5/11/2022	SP
0	11/29/2021	SP

Signature with Date

1401 NW 27TH AVENUE  
OCALA, FL 34475

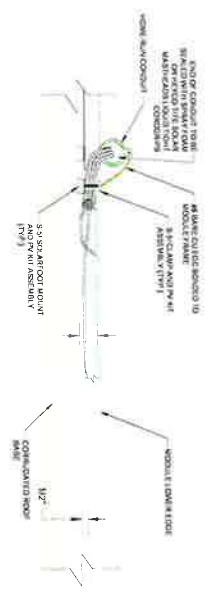
SHEET SIZE  
ANSI B  
24" X 36"

SHEET NUMBER  
E-700

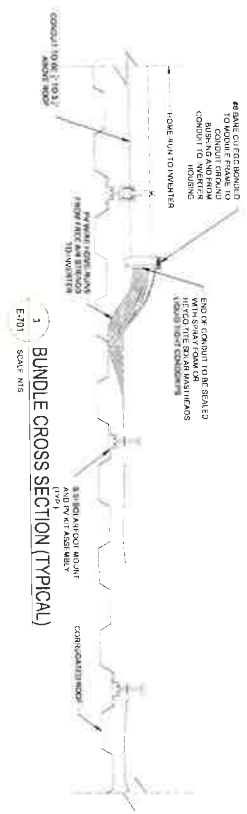


NOTES  
REFER TO INSTALLATION MANUAL FOR ADDITIONAL INFORMATION

1 INVERTER MOUNTING AND CLEARANCE DETAIL  
E-701 SCALE: NTS



2 STRING WIRE MANAGEMENT (TYPICAL)  
E-701 SCALE: NTS



3 BUNDLE CROSS SECTION (TYPICAL)  
E-701 SCALE: NTS

SYSTEM INFORMATION	
WIRE TYPE	CANADIAN SOLAR
WIRE SIZE	10 AWG
WIRE QUANTITY	811725
WIRE TYPE	10 AWG
WIRE SIZE	10 AWG
WIRE QUANTITY	811725
WIRE TYPE	10 AWG
WIRE SIZE	10 AWG
WIRE QUANTITY	811725
WIRE TYPE	10 AWG
WIRE SIZE	10 AWG
WIRE QUANTITY	811725

SHEET NAME	MISCELLANEOUS DETAILS SHEET 2
SHEET SIZE	ANSI B 24" X 36"
SHEET NUMBER	E-701

**CAPRIS FURNITURE**

1401 NW 27TH AVENUE  
OCALA, FL 34475



DATE	DESCRIPTION	BY
5/17/2022	REVISIONS	
10/27/2021	REV	
5/17/2022	REV	

**Castillo Engineering**  
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- 5. High quality
- 6. High safety
- 7. High durability
- 8. High performance
- 9. High quality
- 10. High safety
- 11. High durability
- 12. High performance
- 13. High quality
- 14. High safety
- 15. High durability

Canadian Solar Inc.  
2570 Yonge Street, Suite 100, North York, Ontario M2N 6L4, Canada  
Tel: 416-490-8888  
www.canadiansolar.com



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**Sunny Tripower Core1 33-US / 50-US / 62-US**

UP TO 60% FASTER  
INSTALLATION  
COMPARISON TO  
CONVENTIONAL  
SYSTEMS

Technical specifications table for Sunny Tripower Core1 33-US / 50-US / 62-US.

Parameter	33-US	50-US	62-US
Power (W)	3300	5000	6200
Voltage (V)	120	120	120
Current (A)	27.5	41.7	51.7
Efficiency (%)	97.5	97.5	97.5
Temperature (°C)	-40 to +60	-40 to +60	-40 to +60
Dimensions (mm)	440 x 240 x 120	440 x 240 x 120	440 x 240 x 120
Weight (kg)	12	15	18

SYSTEM INFORMATION

MODULE	CANADIAN SOLAR
WARRANTY	25 YEARS
WARRANTY	10 YEARS
WARRANTY	5 YEARS
WARRANTY	3 YEARS
WARRANTY	1 YEAR

Engineering Form Header

**Capris Furniture**  
1401 NW 27TH AVENUE  
OCALA, FL 34475

**SEM POWER**

**CASTILLO ENGINEERING SERVICES, LLC**  
6704 WYNWOOD ROAD,  
MARTIN, FL 32751  
TEL: 407.288.2514  
FAX: 407.288.2515  
WWW.CASTILLO-ENGINEERING.COM

**Engineering**

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**Revisions**

REVISIONS	DATE	REV
1	06/09/2021	0

**Project Installer**

**Utility**

**Revisions**

**Project Name**

**Sheet Name**

**Sheet Size**

**ANSI B**

**24" X 36"**

**Sheet Number**

**D-100**



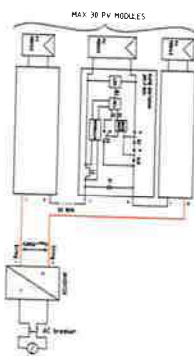


50 FMJ MW-

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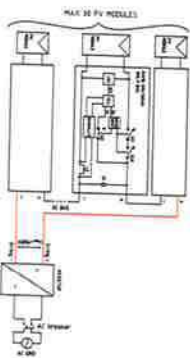
1065. *It must be used with a the specified temperature range and the electric performance boundaries as stated in these technical data sheets.*

MTWY 10

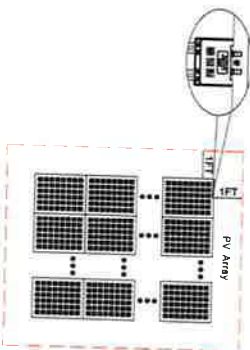


When the AC is locked, the receiver adds back its transmit function sends the signal "Transmission to operate" through the DC bus. MMSF receives the signal and enters the transmit mode. Then the MOSFET Q3 is turned off and the MOSFET Q2/Q23 is turned on. MMSF turns on the energy generated by the PV module will be delivered to the AC grid through the inverter.

MITHY 11



10 MAY 12



When the AC feedback is turned off, the output is a built-in triangular function signal. Switching the AC feedback on is equivalent to turning off the AC feedback and receiving the output and noise. For 100,000 counts the measurement time from the MDS25222A is 1000 counts and the output voltage is 100 mV. The output voltage of the MDS25222A is 100 mV for 100,000 counts. The output voltage of the MDS25222A is 100 mV for 100,000 counts.

[illegible]

SYSTEM INFORMATION	
MODULE	CLASICAL SCANS
WDOPTS/STAND	CRAWFORD
BLANK QUANTITY	811111
WDOPT QUANTITY	81112
TOTAL DC DUTY	413
INCHES	20.440 W
	SWA
CONVERT RATE/5.41	
ANALYSIS QUANTITY	3
TOTAL AC DUTY	14.620 W
1.17	
ACTIVITY	3
	157

SHEET NUMBER  
D-102

ANSI B  
24" X 36"

SHEET NAME  
DATASHEET9

CAPRIS FURNITURE

1401 NW 27TH AVENUE  
OCALA, FL 34475

PROJECT NAME

Signature with Stamp



**Engineering**   
Castillo  
Engineering  
CONSULTING, CONSTRUCTION & PROJECTS

**CASTILLO ENGINEERING SERVICES, LLC**  
CEN 23243  
830 N. WYANDER, HONOLULU, HI 96817  
SUITE 750  
MAINT. RM. 20191  
TEL: (808) 288-0234  
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E: ENO@CASTILLO-LLC.COM  
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DESCRIPTION	DATE	REV
UTILITY REVISIONS	5/11/2022	1
R/P	10/29/2021	0

PROJECT INSTALLER

# Tigo Flex MPE

## TS4-A-O

**PV Module Advanced Add-On**  
The TS4-A-O (Advanced) is the standard add-on peripheral module that adds more modules to the TS4-A-O (Standard) system. It is designed to be connected to the TS4-A-O (Standard) system and is used to increase the system's capacity. The TS4-A-O (Advanced) is designed to be connected to the TS4-A-O (Standard) system and is used to increase the system's capacity.

### Included Features

- Maximum power output of 100W
- 100V AC input
- 100V AC output
- 100V AC input
- 100V AC output

### Easy Installation

- Step 1: Connect module to the TS4-A-O (Standard) system.
- Step 2: Connect module to the TS4-A-O (Standard) system.
- Step 3: Connect module to the TS4-A-O (Standard) system.



# Tigo Flex MPE

## TS4-A-S

**PV Module Advanced Add-On**

The TS4-A-S (Standard) is the standard add-on peripheral module that adds more modules to the TS4-A-S (Standard) system. It is designed to be connected to the TS4-A-S (Standard) system and is used to increase the system's capacity. The TS4-A-S (Standard) is designed to be connected to the TS4-A-S (Standard) system and is used to increase the system's capacity.

### Included Features

- Maximum power output of 100W
- 100V AC input
- 100V AC output
- 100V AC input
- 100V AC output

### Easy Installation

- Step 1: Connect module to the TS4-A-S (Standard) system.
- Step 2: Connect module to the TS4-A-S (Standard) system.
- Step 3: Connect module to the TS4-A-S (Standard) system.



## TS4-A-O SPECIFICATIONS

Feature	Value
Maximum Power Output	100W
Input Voltage	100V AC
Output Voltage	100V AC
Input Current	10A
Output Current	10A
Input Power	100W
Output Power	100W
Input Efficiency	95%
Output Efficiency	95%
Input Power Factor	0.95
Output Power Factor	0.95
Input Power Factor	0.95
Output Power Factor	0.95

## ORDERING INFORMATION

Part Number	Description
TS4-A-O-100W	TS4-A-O (Standard) 100W
TS4-A-O-200W	TS4-A-O (Standard) 200W
TS4-A-O-300W	TS4-A-O (Standard) 300W
TS4-A-O-400W	TS4-A-O (Standard) 400W
TS4-A-O-500W	TS4-A-O (Standard) 500W

# Tigo

PV 2.0.4

## TS4-A-S SPECIFICATIONS

Feature	Value
Maximum Power Output	100W
Input Voltage	100V AC
Output Voltage	100V AC
Input Current	10A
Output Current	10A
Input Power	100W
Output Power	100W
Input Efficiency	95%
Output Efficiency	95%
Input Power Factor	0.95
Output Power Factor	0.95
Input Power Factor	0.95
Output Power Factor	0.95

## ORDERING INFORMATION

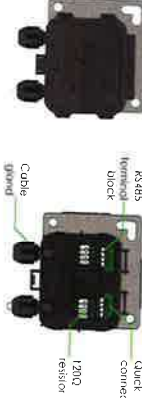
Part Number	Description
TS4-A-S-100W	TS4-A-S (Standard) 100W
TS4-A-S-200W	TS4-A-S (Standard) 200W
TS4-A-S-300W	TS4-A-S (Standard) 300W
TS4-A-S-400W	TS4-A-S (Standard) 400W
TS4-A-S-500W	TS4-A-S (Standard) 500W

# Tigo

PV 2.0.4

## COMMUNICATION ACCESSORIES

### Tigo Access Point (TAP)



- Main configuration:
  - 300 TS4 units per TAP
  - 700 TS4 units per CCA
  - 700 TS4 units per CCA
- Legacy configuration:
  - Same as gateway, see [TS4-A-O](#) for more details

### Cloud Connect Advanced (CCA)

- CCA is required for monitoring and rapid shutdown
- CCA is optional for optimization
- CCA is optional for optimization
- CCA is optional for optimization
- CCA is optional for optimization

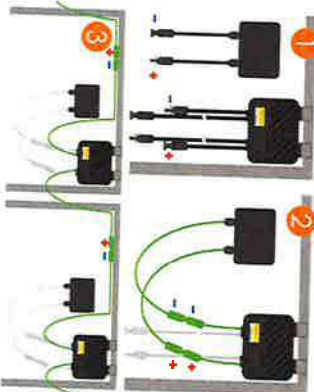


## TS4-A INSTALLATION

Standard modules can be equipped with TS4-A add-on units as shown below.

**Always connect modules to TS4-A inputs before connecting outputs.**

Each TS4-A must have a PV module connected to its inputs before connecting the outputs of TS4-A units in series. To disconnect TS4-A from a module, disconnect the TS4-A outputs from the string before disconnecting the TS4-A inputs from the module junction box.



Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
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TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
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Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
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TS4-A-S	1
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TS4-A-S	1
TS4-A-O	1
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Module	Quantity
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Module	Quantity
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Module	Quantity
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Module	Quantity
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TS4-A-S	1
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TS4-A-S	1

Module	Quantity
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TS4-A-S	1
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Module	Quantity
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TS4-A-S	1

Module	Quantity
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TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
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TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
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TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

Module	Quantity
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1
TS4-A-O	1
TS4-A-S	1

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X 3	-10







## SOLAR SYSTEM CALCULATOR

CUSTOMER NAME: Capris Furniture

CUSTOMER ADDRESS: 1401 NW 27 AV

CUSTOMER ACCOUNT #:

ADDITIONAL INFO:

Enter the customer's historical monthly kWh values in the blue cells.

MONTH	kWh
JAN	18,180
FEB	23,700
MAR	23,700
APR	26,100
MAY	27,960
JUN	30,420
JUL	27,240
AUG	35,700
SEP	33,900
OCT	31,800
NOV	26,220
DEC	25,680

Number of months of kWh values entered above: 12

Annual kWh usage: 330,600

Average kWh per month: 27,550

Maximum RGS allowed by OEU: 201.34 kW<sub>DC</sub>



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

06/14/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Brown & Brown of Florida, Inc. 1720 SE 16th Avenue, Suite 301  Ocala FL 34471		<b>CONTACT NAME:</b> Brenda Bouchard AAI, CPIW <b>PHONE (A/C, No, Ext):</b> (352) 732-5010 <b>FAX (A/C, No):</b> (352) 732-5344 <b>E-MAIL ADDRESS:</b> Brenda.Bouchard@bbrown.com
		<b>INSURER(S) AFFORDING COVERAGE</b> <b>INSURER A:</b> The Travelers Indemnity Company of Connecticut <b>INSURER B:</b> Travelers Property Casualty Company of America <b>INSURER C:</b> Bridgefield Employers Insurance Company <b>INSURER D:</b> <b>INSURER E:</b> <b>INSURER F:</b>
		<b>NAIC #</b> 25682 25674 10701

**COVERAGES****CERTIFICATE NUMBER:** 22-23 Capris Furniture**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			6303E408074TCT22	04/21/2022	04/21/2023	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Employee Benefits \$ 1,000,000
	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			BA9M3319732214G	04/21/2022	04/21/2023	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			CUP1N7313182214	04/21/2022	04/21/2023	EACH OCCURRENCE \$ 7,000,000 AGGREGATE \$ 7,000,000
	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y / N <input checked="" type="checkbox"/> N	N / A	83025076	01/01/2022	01/01/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E L EACH ACCIDENT \$ 1,000,000 E L DISEASE - EA EMPLOYEE \$ 1,000,000 E L DISEASE - POLICY LIMIT \$ 1,000,000


DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

**CERTIFICATE HOLDER****CANCELLATION**

Ocala Electric Utilities 201 SE 3rd St  Ocala FL 34471	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE 
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<b>PV SYSTEM INFO</b> THIS SYSTEM IS A GRID-TIED PV SYSTEM. PV MODULES WITH A COMBINED STC RATED DC OUTPUT POWER OF 316.8 kW. THE PV SYSTEM AND THE ENERGY GENERATED BY THE PV SYSTEM SHALL BE INTERCONNECTED WITH THE UTILITY GRID THROUGH THE EXISTING ON-SITE ELECTRICAL EQUIPMENT.		<b>SCOPE OF WORK</b> Equipment summary: <b>704 x CANADIAN SOLAR CS3W-450WS 450W MODULES</b> <b>S-3 SOLARFOOT ATTACHMENTS ■ IRONRIDGE RACKING</b>		<b>GOVERNING CODES</b> 2017 NATIONAL ELECTRIC CODE (NEC) 2020 FLORIDA BUILDING CODE, 7th EDITION (FBC) 2020 FLORIDA FIRE PREVENTION CODE, 7th EDITION 2018 INTERNATIONAL FIRE CODE (IFC) UNDERWRITERS LABORATORIES (UL) STANDARDS OSHA 29 CFR 1910.269 <b>SITE SPECIFICATIONS</b> OCCUPANCY CATEGORY: II DESIGN AND WIND SPEED: 130 MPH EXPOSURE CATEGORY: B GROUND SNOW LOAD: 0 PSF		<b>SHEET INDEX</b> X.0 COVER A.0 SITE PLAN S.1 ROOF PLAN & PV LAYOUT DS.1 MOUNTING & RACKING METHOD DS.2 DATA SHEETS	
<b>AERIAL SITE VIEW</b> 		<b>VICINITY MAP</b> 					

Consultant  SEM POWER		Project <b>CAPRIS FURNITURE</b> 1401 NW 27th Ave, Ocala, FL 34475		Engineer  <b>ARC DESIGN</b> JAMES A. CLANCY, P.E. 409 N. MAIN STREET, FLOR. ENGINEERS LICENSE: 664818		Engineering Approval 		<b>REVISIONS</b> <table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>DATE</th> <th>REV</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		DESCRIPTION	DATE	REV																			Designed by:  <b>Vicoson Energy</b> CONSULTING ENGINEERS		Sheet size: ARCH D 36" x 24" Sheet title: COVER Sheet number: X.0	
DESCRIPTION	DATE	REV																																



NW 27th AV

NW 27th AV

SCALE: 1" = 20'

Contractor:



Project:

**CAPRIS FURNITURE**

1401 NW 27th Ave,  
Ocala, FL 34475


Engineer:




**ARC DESIGN**  
SUNLIGHT CONSULTING

JAMES A. CLANCY, P.E.  
409 N. MAIN STREET, ELMER  
FLORIDA 34432  
ENGINEER'S LICENSE #64848

Engineering Approval:



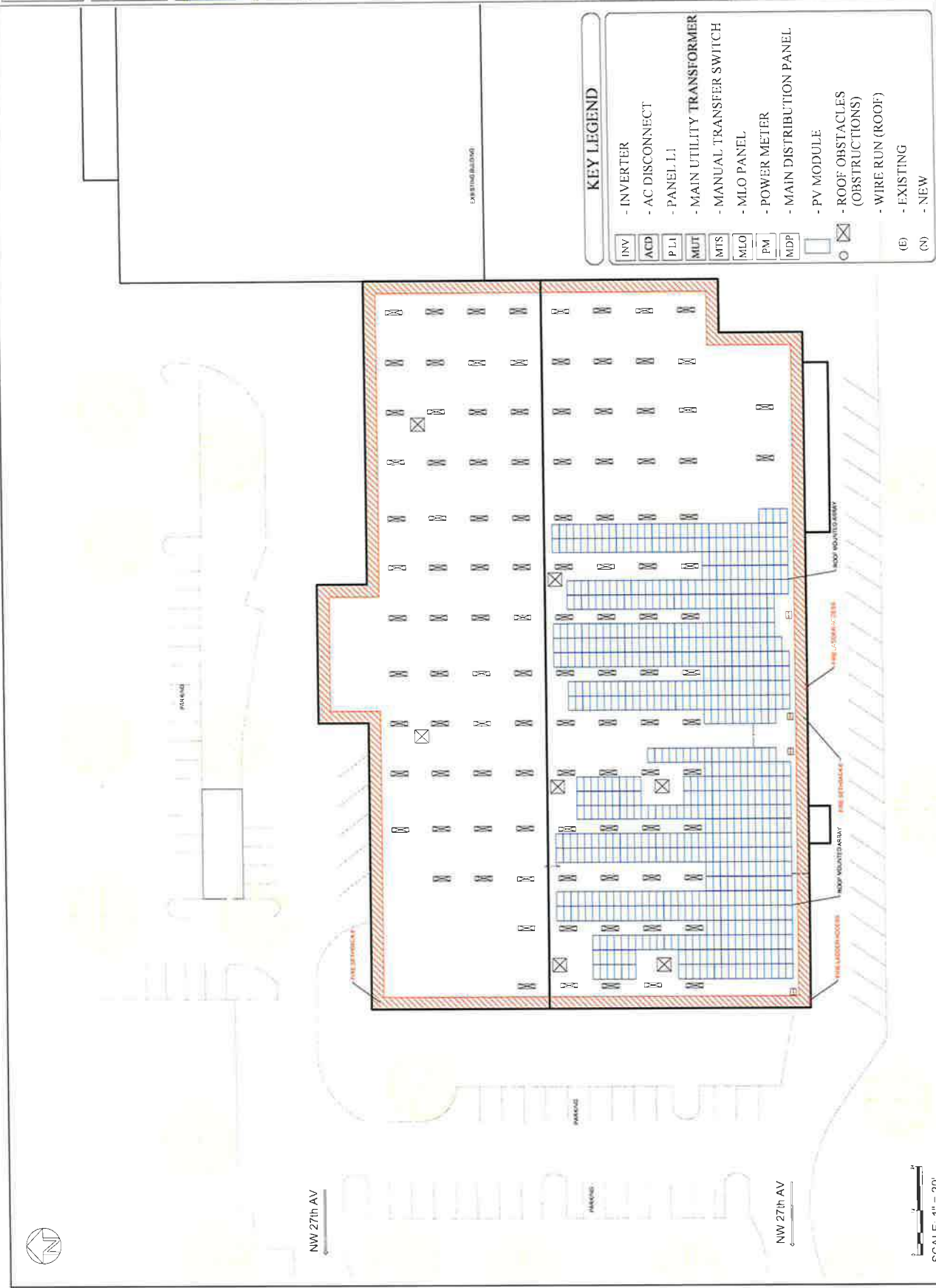
DESIGNED BY:



**Vicoson Energy**  
Consulting Engineers

REVISIONS	DATE	REV

Sheet title: ARC11D 36 x 24"  
Sheet title: SITE PLAN  
Sheet number: A-0



KEY LEGEND

- INV
- ACD
- P LI
- MUT
- MTS
- MLO
- PM
- MDP
- PV MODULE
- ROOF OBSTACLES (OBSTRUCTIONS)
- WIRE RUN (ROOF)
- EXISTING
- NEW



EXISTING ROOF TYPE: METAL  
MEAN ROOF HEIGHT: 221  
ROOF SLOPE: 5°  
AZIMUTH: 180°  
TOTAL MODULES: 704  
MODULE WEIGHT: 54.9 LBS  
MODULE DIMENSIONS: 81" x 41 3/4" = 23.77SF  
DEAD LOAD: 2.31 PSF  
TOTAL ROOF AREA: 46416.65 SQ. FT  
TOTAL PV MODULE AREA: 16734.08 SQ. FT

## INSTALLATION NOTES

## GENERAL INSTALLATION PLAN NOTES:

1. DRAWINGS SHOWN MAY NOT REFLECT FIELD CONDITIONS. CONTRACTOR TO FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION.
2. CONTRACTOR MAY LOCATE PV MODULES TO DIFFERENT ROWS OR SPACING THAN SHOWN.
3. SHEET PILES AND ROW PILES SHALL BE INSTALLED AS SHOWN IN SHEET PILE AND ROW PILE DETAILS.
4. SHEET PILES SHALL BE 12" X 10" PILES FOR EACH WIND ZONE.
5. SOLAR FOOT-ROOT ATTACHMENTS SHALL BE INSTALLED ON EACH PILE AS SHOWN IN SHEET S1 AND S1A.
6. EXISTING PANELS TO BE REMOVED AND NEW PANELS TO BE INSTALLED AT TIED TO THE STEEL PILING. SUPPORTED BY STEEL RAILERS.
7. MEAN ROOF HEIGHT LESS THAN 30 FT.
8. IF SYSTEM RETROFIT IS ASSUMED TO BE BETWEEN 0 TO 27 DEGREES, CONTRACTOR TO FIELD VERIFY CONDITIONS EXIST BETWEEN PLANS AND IN FIELD CONDITIONS.

### KEY LEGEND

- INVERTER
- AC DISCONNECT
- MAIN UTILITY TRANSFORMER
- POWER METER
- MAIN DISTRIBUTION PANEL
- PV MODULE
- ROOF OBSTACLES (OBSTRUCTIONS)
- ROOF ATTACHMENT (S-S SOLAR FOOT)
- RAIL
- PURLIN
- WIRE RUN (ROOF)
- EXISTING
- NEW



MODULE: CS3W-450MS  
DIMENSIONS: 8 1/2" x 11 1/2" x 23 1/2"



SCALE: 1" = 20'

REVISIONS		
DESCRIPTION	DATE	REV
AS PER INSTANTANEOUS REQUEST	10/20/2021	1

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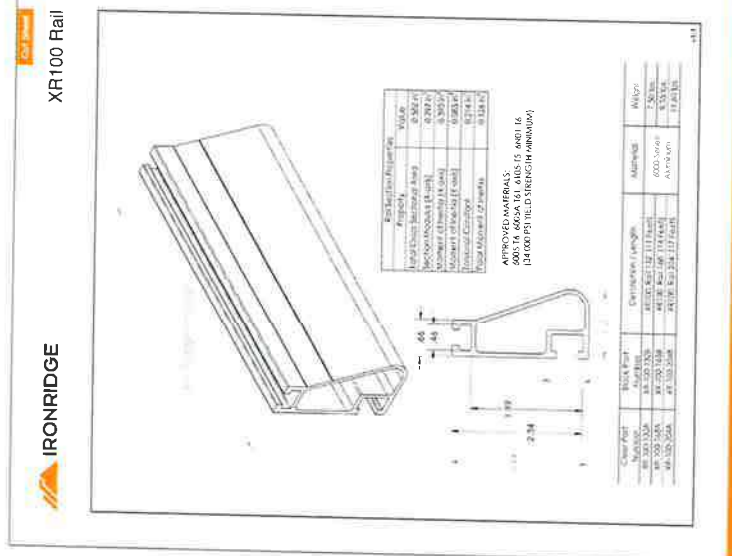
**VICSON ENERGY**

contact: [info@vicsonenergy.com](mailto:info@vicsonenergy.com)

ARCH D 36" x 24"



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Project  
**CAPRIS**  
**FURNITURE**  
1401 NW 27th Ave,  
Ocala, FL 34475



JAMES A. CLANCY, PE  
409 N. MAIN STREET, ELMER,  
NJ 08818  
ENGINEERS LICENSE #64848

Engineering Approval

## REVISIONS

DESCRIPTION	DATE	REV
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Designed by



Sheet size	ARC11 D 36" x 24"
Sheet title	DATA SHEETS
Sheet number	DS 2



## SolarFoot™ Mounting for Exposed Fastener Roofing

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### Fastener Selection



To source literature for your projects, contact SSI

### Contributed by

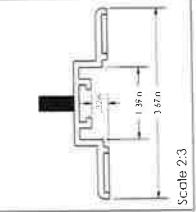
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## SolarFoot



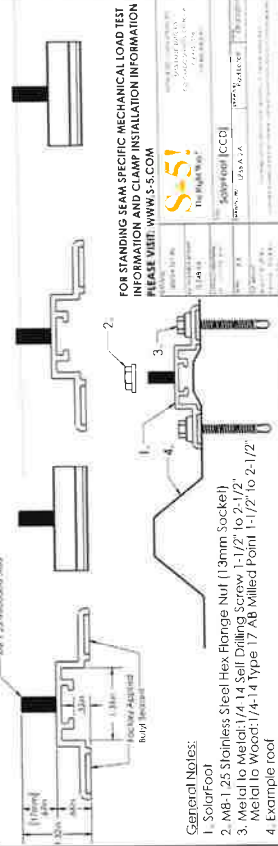
100

Right

Front

left

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General Notes:

1. SolarFoot
2. M8-1.25 Stainless Steel Hex Flange Nut (13mm Socket)
3. Metal to Metal: 1/4-14 Self Drilling Screw 1-1/2" to 2-1/2".  
Metal to Wood: 1/4-14 Type 17 AB Milled Point 1-1/2" to 2-1/2"
4. Example roof

FOR STANDING SEAM SPECIFIC MECHANICAL LOAD TEST  
INFORMATION AND CLAMP INSTALLATION INFORMATION  
PLEASE VISIT: [WWW.S-5.COM](http://WWW.S-5.COM)

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