

ION DEVELOPER INSTALLATION AGREEMENT

LICENSED ELECTRICAL CONTRACTOR

888-781-7074 | IONSOLAR.COM | support@ionsolar.com

We are excited that you (occasionally also referred to as "Owner") have chosen ION Solar (occasionally also referred to as "we," "us," or "Contractor") for your energy needs and we look forward to creating a greener planet with your help. Solar is not only an environmentally sustainable decision, but it is also optimized to meet your financial, environmental, and aesthetic goals. In addition to this agreement, you have entered into a separate agreement (or series of agreements) with one or more un-related third-party financing companies. Those agreements are between you and those third parties and govern your purchase of the solar system. By contrast, this agreement is between you and ION Solar and governs the installation of your solar system. Please read and sign below acknowledging you understand the terms.

<p><u>CONTRACTOR - ION DEVELOPER, LLC</u> All Installations completed by a Licensed Electrical Contractor Utah 10304593-5501, Colorado EC0100960, S. Carolina M114251, N. Carolina U.33681 California 1027027, Nevada 83098, New Mexico 391320, Texas 30990, Virginia 2705169123 <u>SYSTEM INFORMATION:</u></p> <ul style="list-style-type: none"> • System Size (in DC Watts) - 5,320.00 W • Total System Cost - \$ 27,466.00 • Estimated Rebate/Incentive Amount Contractor Shall Receive - \$ 0.0 • Net System Cost (Payment Due Upon Financial Agreement) - \$ 27,466.00 	<p><u>OWNER / JOBSITE ADDRESS</u> Sampath Palreddy 2804 Weston Road Aubrey, Texas 76227 (732) 331-6358 palreddysampath@gmail.com</p>
<p><u>COMPONENTS OF SOLAR SYSTEM INSTALLATION:</u></p> <ul style="list-style-type: none"> • Solar Panels, Inverters, and Monitoring Device • Other standard materials include installation of racking and mounting components, wiring, conduit, overcurrent protections, roofing sealant and/or flashing, all as required for standard solar installation. • 10-year Contractor workmanship limited warranty (See Exhibit A) <p><u>INCENTIVES AND ADD-ONS:</u></p> <ul style="list-style-type: none"> - Promotion (Sent at PTO) \$500.00 - Thermostat (Cash out) \$150.00 - LED Light Bulbs (Cash out) \$50.00 <p><u>HOME OWNERS ASSOCIATION INFO:</u> HOA NAME: NA HOA EMAIL/PHONE: NA</p>	

INSTALLATION By signing this Agreement you acknowledge you have purchased a solar system (or have financed a solar system with a third-party) and now authorize ION Developer, LLC to undertake installation of the solar system and components identified above in the section entitled "Components of Solar System Installation" (collectively "Solar System"). This Agreement pertains to installation of the Solar System which, generally speaking, is divided into three separate phases described below:

Phase 1: During Phase 1, Contractor will conduct a physical site inspection to ensure that the Solar System can be installed according to the Design and Installation Specifications. Additional details about the Design and Installation Specifications and the Site Inspection are found elsewhere in this Agreement in the paragraphs entitled "Design and Installation Specifications" and "Site inspection/Owner Remedial Repairs." By way of a good faith estimate (but not as a guarantee), We anticipate that Phase 1 will be completed within thirty (30) days from the Effective Date of this Agreement.

Phase 2: Phase 2 of the installation process is one where the physical installation of the Solar System is begun and completed. As a general rule (but not as a guarantee), We anticipate that Phase 2 will take 45 to 60 days. Obviously, such things as unanticipated physical restraints, needed remedial repairs (see the section entitled

“Site Inspection/Owner Remedial Repairs), and other unanticipated contingencies could affect this desired timeline.

Phase 3: Phase 3 of the installation process consists of securing all necessary inspections, authorizations, and permits in order to “flip the switch” and make the Solar System operational. We generally plan on an additional 45 to 60 days once Phase 2 installation is completed. By way of example, before “flipping the switch” it will be necessary to obtain express permission/authority from your local utility company to operate the Solar System (See section entitled “No Owner Access or Use of System Until Authorized”). Additionally, your financing company (if any) may require additional documentation/signatures from you before We are allowed to “flip the switch.” We will help you in the process of obtaining all such necessary inspections and permission(s), but ultimately it is and remains Owner’s responsibility to obtain all such permissions.

THIRD-PARTY CONTRACTORS/SERVICE PROVIDERS Contractor (but not Owner) shall have the right to use licensed third-parties to provide some or all of the installation services (or any remedial repairs) contemplated by this Agreement. Contractor shall be responsible for any and all such third-party service providers. Unless expressly authorized by this Agreement or unless expressly authorized in writing by Contractor, Owner shall not, at any time, engage any of Owner’s own contractors or third-parties to provide any part of the Phase 1, Phase 2 or Phase 3 installation services (which may be collectively referred to throughout this Agreement simply as “installation” or “installation services”) contemplated by this Agreement or to undertake any other work or repairs with regard to any aspect of the Solar System. Any breach of this condition by Owner shall automatically render the Limited Warranty (Exhibit “A”) as null and void. Stated differently so as to avoid any confusion, Owner is simply not authorized to undertake any portion of the installation services or to make any repairs whatsoever to any aspect of the Solar System unless specifically authorized by the express written terms of this Agreement or unless specifically authorized in writing by Contractor. Any unauthorized work or repair by Owner (or anyone engaged by Owner) will automatically void the Limited Warranty and shall relieve Contractor from any further responsibility or liabilities arising thereunder. Additionally, if Owner engages any third-party contractor to provide non-installation services that are incidental to the installation services to be performed by Contractor (i.e. tree trimming, roof repair, etc.), Owner (not Contractor) is and shall remain responsible for the costs of all such services.

OWNER COOPERATION/WORK AREA ACCESS Owner hereby agrees to cooperate, and not interfere in any way, with Contractor’s efforts in accessing Owner’s property and/or in undertaking and completing all of the installation services contemplated by this Agreement. To that end, Owner hereby unconditionally grants to Contractor all necessary authority and permissions to, upon reasonable notice (with 24 hours advanced notice being deemed reasonable) enter Owner’s property (whether Owner is home or not) to undertake and complete all services and work inherent in all phases of the installation process. Without providing an exhaustive list, Owner agrees to ensure that during the entire installation process, access to the work area is open and accessible (i.e. gates unlocked and/or open as needed, access to electricity and water, etc.) and free from any obstructions or obstacles (i.e. clear driveways and walkways, animals properly secured, etc.). Additionally, until such point as the Solar System is fully operational, Owner shall also make available reasonably safe and secure areas in which Contractor may temporarily store such things as Contractor’s tools and the Solar System parts and components. Owner also agrees to cooperate and work with Contractor to: (a) schedule site surveys and other pre-install inspections as soon as possible, (b) complete and provide to Contractor any and all required jurisdictional and utility documents (such as NEM agreements and interconnection agreements that must be signed by the Owner), (c) cooperate with Contractor in applying for and securing the necessary permits, (d) cooperate in the scheduling of the Installation and its related inspections, (e) timely execute and return any documents that may be required by Owner’s third-party lender(s) to finalize the loan documents and/or to “fund” Owner’s loan(s) such that Contractor gets paid the Total System Cost, and (f) otherwise cooperate with Contractor as Contractor shall reasonably request. In the event Owner unreasonably restricts and/or interferes with Contractor’s access to the property and/or Contractor’s installation services contemplated under this Agreement or otherwise fails and/or refused to cooperate with Contractor in the fulfillment of Contractor’s services and functions as contemplated by this Agreement, or fails and/or refuses to take action as requested and/or required by Owner’s third-party loan provider(s) to fund Owner’s loan (if any), or otherwise violates any of the foregoing terms and conditions, then Owner shall be considered to be in breach of this Agreement in which case ION may immediately discontinue providing any additional services otherwise contemplated by this Agreement (without recourse from Owner) and Owner is and shall remain personally responsible and liable to Contractor for immediate payment to Contractor of the Total System Cost as well as for immediate payment to Contractor of all other direct and indirect damages incurred or suffered by Contractor (or any third-party(ies) engaged by Contractor) as a result of Owner’s breach. Owner hereby acknowledges that until Contractor is paid the Total System Cost in full (either directly from Owner or by one or more third-party loan providers) Owner is and shall remain personally responsible and liable to Contractor for the Total System Cost, as well as for all other, costs, fees, expenses and direct and indirect damages as more particularly set forth above.

DESIGN AND INSTALLATION SPECIFICATIONS For purposes of this Agreement, all proposals, drawings, design, installation and spec sheets presented to or otherwise made available to Owner at any time with regard to the Solar System are collectively referred to as the "Design and Installation Documents".

- Owner acknowledges that copies of the Design and Installation Documents have been and/or are made available to Owner either directly, via the ION Sunrise App, or by contacting ION at support@ionsolar.com.
- Owner acknowledges that after entering into this Agreement, certain minor changes and/or modifications to the Solar System may be necessitated or required due to a variety of factors such as market availability of parts and components and/or the physical condition of the installation site (i.e. size, dimensions, physical obstacles, condition, shading, jurisdictional code), etc. being discovered during the installation process or as a result of a pre-installation physical site inspection. Such minor changes and/or variations could include (but not be limited to) such things as an adjustment to the type of panels and/or inverter type, and/or slight modification(s) to the physical placement of the panels. As long as such changes and/or modifications are minor (as set forth above) and as long as such changes and/or modifications to not in any way change the "System Size" or "Total System Price" of the Solar System, Owner hereby authorizes Contractor to make any and all such minor changes and/or modifications as determined by ION.
- Owner acknowledges that except for the "System Size" and "Total System Price" all other information presented to Owner and/or set forth in any of the Design and Installation Documents relating to or specifically labeled as "Estimated Yearly Production," "Impact of Energy Efficiency", "Estimated Consumption and Production", "Estimated Offset", and "Estimated Savings" is subject to change and constitutes good faith estimates only which are subject to a variety of factors completely beyond the control or specific knowledge of ION and which, therefore, cannot and shall not be construed as constituting any form of guarantee or contractual term, condition, or commitment by ION to Owner. Owner, not ION, is ultimately responsible for Owner's utilization (or lack thereof) of the Solar System and as such for any production, efficiency, consumption, production, or savings realized by Owner. NO EMPLOYEE OR REPRESENTATIVE OF US IS AUTHORIZED TO MAKE ANY PROMISE TO YOU THAT IS NOT CONTAINED IN THIS AGREEMENT (WHICH INCLUDES THE DESIGN AND INSTALLATION DOCUMENTS) CONCERNING COST SAVINGS, TAX BENEFITS, OR GOVERNMENT OR UTILITY INCENTIVES. YOU SHOULD NOT RELY UPON ANY PROMISE OR ESTIMATE THAT IS NOT INCLUDED IN THIS AGREEMENT.
- If at any time the "System Size" or "Total System Price" changes in any way, ION Solar will affirmatively notify Owner who, at that time, shall have the option to enter into a new Agreement setting forth the new System Size and/or Total System Price.
- Owner acknowledges that any work not specifically set forth in the Design and Installation Documents (such as additional work required to begin installation or that is discovered during installation (such as the need to make roof repairs, customer-requested improvements, jurisdictional requests not related to the actual solar system components, trenching, movement of structures, complications caused by shading, electrical upgrades, etc.) are not included in the installation and are additional amounts for which Owner agrees to be financially responsible. Contractor may, but is not required to, make any such additional work the subject of a written change order. To the extent a change order is utilized, any and all such change order(s) shall immediately and automatically become part of this Agreement as an authorized amendment/addendum being subject to all of the other terms and conditions of this Agreement.

PERMITTING/HOA APPROVAL Contractor shall be responsible to file and obtain all necessary permits and applications with (a) state and local governmental authorities and (b) the applicable utility company(ies). Owner shall be responsible for obtaining any and all necessary Home Owner's Association or similar approvals. Contractor and Owner shall cooperate with one another in filing and obtaining the necessary permits and approvals as set forth herein. In the event any Owner's Association approvals are required or requested with regard to any aspect of the Solar System, Owner hereby grants to Contractor full rights and authority to file, process, and respond to any and all such Home Owner's Association applications and/or requests as necessary for approval of and/or completion of the installation of the Solar System.

ESTIMATED TIMELINE/DELAYS Owner acknowledges that Contractor shall employ reasonable efforts to meet the expected time frames of the overall installation process but also acknowledges that such time frames are provided as estimates only and not as a contractual commitment. Owner acknowledges and accepts that some delays are beyond Contractor's control such as delays caused by acts of God, civil unrest, labor disputes, adverse weather conditions, acts of a government or other public authority, acts of the Owner or Owner's agents, and delay in the delivery of materials by suppliers. Owner acknowledges and agrees that under no circumstances shall Contractor be liable for any damages whatsoever caused or arising from any delays in the installation process unless such delays are caused by Contractor's own gross negligence.

SITE INSPECTION/OWNER REMEDIAL REPAIRS As part of the installation services, Contractor will physically inspect the intended installation site(s) as well as Owner's existing electrical service for the intended purpose of discovering any issues which may impede and/or prevent Installation of the Solar System. Such issues may include, but not be limited to pre-existing structural and/or electrical issues and/or integrity issues, existing water damage and/or other roof penetrations, etc. Owner (not Contractor) shall, at Owner's own cost and expense, be responsible for making all necessary repairs or taking such remedial action as is necessary to allow Contractor to proceed with its installation services as contemplated by this Agreement. Such repairs or remedial action may include such things as upgrading and/or moving/relocating electrical panels and/or service meters, repairing structural damage and/or restoring structural integrity, removing and/or repairing any existing roof penetration issues (such as a pre-existing solar system or solar water system), extensive trenching, repairing/replacing roofing materials, and any other such work which impedes and/or prevents installation of the Solar System as contemplated by this Agreement.

NO OWNER ACCESS OR USE OF SYSTEM UNTIL AUTHORIZED At no point during the installation process shall owner access or use any portion of the Solar System until each and all of the following conditions have been met: (a) all components of the Solar System have been fully installed by Contractor; (b) all necessary inspections have occurred and passed and all necessary permits have been issued; (c) the utility company has given express written permission to operate the Solar System; (d) all third-party loan providers (if any) have deemed any underlying loan and/or financing documents finalized and fully funded; and (e) Contractor has expressly authorized Owner to access and use the Solar System (i.e. "flip the switch"). If Owner accesses and/or uses any portion of the Solar System before all of the foregoing conditions are met, Owner shall be responsible for any and all damages and/or losses and/or claims incurred by Contractor (and any third-party(ies) engaged by Contractor) as a result of such early use.

CONTRACTOR LICENSURE, INSURANCE, AND BONDS During installation, Contractor shall maintain in effect insurance and bonds including Contractor's License Bond, General Liability Insurance, and workers' compensation insurance in amounts and with coverage as determined by Contractor. Copies of any or all such policies are available to Owner upon request by requesting such at licensing@ionsolar.com. Owner shall have no authority to control or dictate the levels of coverage maintained by Contractor.

OWNERS HOMEOWNER INSURANCE Prior to the commencement of any installation work by Contractor, Owner shall either (a) obtain and maintain a standard homeowners policy which extends coverage to the Solar System and all of its components or (b) add the Solar System and all of its components to Owner's existing homeowners policy. In either instance, such coverage shall be obtained and/or maintained with a sound and reputable insurance company with coverage extending to the Solar System and all of its components during the entire installation process as well as once installation is complete. Such coverage shall, at a minimum, insure the Solar System and all of its components from all loss or damage occasioned by any act of God, fires, floods, natural disasters, riots, terrorist acts, hail, snow, adverse weather, animal damage, damage from sporting devices such as golf, and any and all other acts of a similar nature. Contractor, and not Owner, shall be responsible for any loss or damage caused by Contractor's own gross negligence.

OWNER ACKNOWLEDGMENT OF ESTIMATE NATURE OF SYSTEM INFORMATION. Owner acknowledges and agrees that the System Information set forth in this Agreement (including but not limited to the specific system size, production estimates, savings/offset estimates, etc. set forth in the box above.) are good faith estimates only that have been based on data, information and input provided by Owner and for which Owner is solely and exclusively responsible. Owner further acknowledges and agrees that estimating solar production and usage is not an exact science because many factors such as weather, equipment placement, customer preferences, utility company rates and/or policies and procedures, third-party solar technology and equipment, power outages, equipment failure, tree and foliage growth, changes in Owner's own electrical usage, etc. all impact such figures, estimates, production, and offsets. Accordingly, Owner hereby acknowledges that all such conversations, figures and estimates, including but not limited to those set forth in the System Information sections of this Agreement (regardless of whether presented verbally, in a pamphlet or other advertising materials, as part of a sales presentation or otherwise) are all provided as estimates only and not as any sort of guarantee or contractual commitment of any type. Customer acknowledges and understands that Contractor is not and cannot make any guarantees whatsoever with regard to the actual production or usage of the Solar System or any offsets to be realized as a result thereof and that under no circumstances will Owner request (or Contractor be obligated to pay) for any expected utility bill offset (or any other offset of any kind) not actually realized or earned. Additionally, Customer acknowledges that solar system equipment generally experiences an average annual degradation in production of approximately .05% per year (sometimes more and sometimes less depending on how fast the equipment and components age, etc.) for which Contractor is not responsible or liable. Against the backdrop of all of the foregoing, Customer hereby knowingly and unconditionally waives and releases any and all claims Customer may have against Contractor (or any of Contractor's agents) that in any way arise from or relate to any estimates provided to Customer and/or to the System Information and specifications set forth in this Agreement, including but not limited to

system size, estimated production, estimated savings, estimates offsets, projected use, or annual degradation, etc.

NON-AFFILIATION WITH UTILITY/GOVERNMENT. WE ARE NOT AFFILIATED WITH ANY UTILITY COMPANY OR GOVERNMENT AGENCY. NO EMPLOYEE OR OTHER REPRESENTATIVE OF US IS EVER AUTHORIZED TO CLAIM OR INSINUATE ANY AFFILIATION WITH ANY UTILITY COMPANY OR GOVERNMENT AGENCY.

POWER OUTAGES/ONGOING UTILITY PAYMENTS Owner understands and accepts that the Solar System will be installed in such a way that it is tied to (rather than independent of) a public utility grid that, unless specifically listed in the section entitled "Components of Solar System Installation," does not include a power back up source. Among other things, this means that whenever the public utility grid is out of service, the Solar System will automatically shut down until the public utility grid is once again active and in service. Being tied to the grid (even if there is a power back up source) also means that Owner will continue to receive utility statements and bills for which Owner (and not Contractor) is responsible and liable. Owner shall not at any time hold Contractor responsible for any power outages and/or utility bills.

NO TAX CREDITS GUARANTEED During the sales process, it is likely that Owner was informed of general tax credits and incentives that, generally speaking, may be available to users of solar energy. However, by signing this Agreement Owner expressly confirms and agrees that at no point has anyone (including but not limited to Contractor) ever analyzed Owner's specific tax situation or ever promised or guaranteed Owner any specific tax credit(s), rebate(s), incentive(s) or the like. Owner acknowledges, agrees, and accepts that no one, except Owner and Owner's tax advisors (which Contractor is not), is/are in a position to know what specific tax credits/incentives/rebates may or may not be available to Owner based on a variety of factors entirely unknown by Contractor such as Owner's finances, tax filing status, etc. TAX AND OTHER FEDERAL, STATE, AND LOCAL INCENTIVES VARY AS TO REFUNDABILITY AND ARE SUBJECT TO CHANGE OR TERMINATION BY LEGISLATIVE OR REGULATORY ACTION, WHICH MAY IMPACT SAVINGS ESTIMATES. CONSULT A TAX PROFESSIONAL FOR MORE INFORMATION. Owner hereby agrees that Contractor is absolutely not responsible for anything related to any tax credits, rebates or incentives whatsoever and to that end hereby forever releases and waives any and all claims which Owner may have against Contractor (or any of Contractor's agents or assigns) which arise from or relate to the availability or non-availability and/or the amount(s) of any specific tax credit(s), tax incentive(s), tax rebate(s) as well as any and all other claims arising to or pertaining to Owner's taxes.

INCENTIVES, ADD-ONS AND REBATES Owner acknowledges that any and all incentives and/or component add-ons offered to Owner are set forth in this Agreement and that no other incentives or component add-ons whatsoever (including but not limited to such things as cash, critter guards, batteries, generators, main service panel upgrades, miscellaneous cash incentives or gifts, promotions, etc) have been promised to Owner by Contractor or will be provided to Owner. The incentives and add-ons identified and listed in this Agreement are the only incentives ever promised to Owner, and there are no others. Additionally, Owner hereby acknowledges and agrees that any and all rebates issued for the installation of the Solar System shall belong exclusively to Contractor, unless otherwise explicitly stated in this Agreement.

THIRD-PARTY LENDER(S) Owner specifically acknowledges that this Agreement contemplates installation of the Solar System and not the purchase or financing thereof. Accordingly, Owner (and not Contractor) is and at all times (even during the installation process) shall be responsible for performance of all terms and conditions of any agreement(s) between Owner and any other third-party regarding the purchase and/or financing of the Solar System including but not limited to making any loan and/or other financing payments that may become prior to the Solar System being fully Installed and/or prior to Owner receiving the necessary authorization(s) from the applicable utility company(ies) that the Solar System may be engaged to operate and generate energy. Under no circumstances shall Contractor be responsible for any amounts whatsoever otherwise due from Owner to any third-party lender(s). Additionally, Owner shall remain responsible for payment to Contractor of all amounts due for Contractor's installation services hereunder independent of whether or not Owner is or is not able to secure financing from any third-party lender(s).

OWNER AND CONTRACTOR RESPONSIBILITIES AFTER INSTALLATION Once installation of the Solar System is complete (which for purposes of this Agreement shall mean fully installed and ready to "flip the switch"), all of Contractor's duties and obligations under this Agreement shall be considered delivered, fulfilled and completed with Contractor having no further obligations to Owner whatsoever except as expressly set forth in the Limited Warranty, a copy of which is attached to this Agreement as Exhibit A. To avoid any confusion and without in any way limiting the foregoing, Owner acknowledges that once installation is complete, Owner (and not Contractor) shall be responsible for any future/ongoing monitoring and maintenance of the Solar System. Contractor does not offer any ongoing services except as expressly set forth in Exhibit A.

POST-INSTALLATION SERVICE CALLS Except as covered by or otherwise set forth in the Limited Warranty (Exhibit A), if at any time after installation is complete Owner requests that Contractor inspect or otherwise perform any maintenance or service to the Solar System or any component thereof (a "Service Call") Owner shall pay Contractor on a "labor plus parts" basis. The charge for labor shall be a minimum of \$195 per hour (with a one-hour minimum). Parts shall be billed according to then-prevailing market prices. All such labor plus parts fees shall be due and payable by Owner upon completion of the Service Call.

CONTRACTOR'S WORKMANSHIP WARRANTY AND THIRD-PARTY WARRANTY(IES) Owner acknowledges that except for the Limited Warranty (attached hereto as Exhibit A and incorporated herein by this reference) and except as is expressly required by the laws of the state in which the Solar System is to be installed, Contractor offers no other express or implied warranty(ies) whatsoever. Owner also acknowledges that most (if not all) of the specific components of the Solar System have their own manufacturers or other third-party warranty(ies) (collectively "Third-Party Warranty(ies)"). Owner acknowledges and agrees that Contractor is not and shall not be responsible for any such Third-Party Warranty(ies). To the extent the rights of any such Third-Party Warranty(ies) apply to Contractor, Contractor hereby conveys, assigns and transfers all such rights and privileges to Owner. Owner (not Contractor) is and shall be responsible for knowing and/or enforcing the terms of any such Third-Party Warranty(ies). Contractor agrees to cooperate with Owner in connection with the filing any Third-Party Warranty(ies) claim(s). Regardless of the foregoing, Owner is and shall remain responsible to Contractor for paying all applicable labor and parts costs and expenses.

CANCELLATION YOU (OWNER) MAY CANCEL THIS CONTRACT AT ANY TIME PRIOR TO MIDNIGHT ON THE THIRD BUSINESS DAY AFTER YOU HAVE SIGNED IT. To exercise this right, Owner must send written notice of cancellation to Contractor at support@ionsolar.com or by mailing a letter to Contractor's corporate office. A form "Notice of Cancellation" accompanies this Agreement. If Owner requests to cancel after 3 business days but before any of the components of the Solar System have been installed on Owner's home, Owner hereby agrees to pay Contractor: (a) the agreed-upon sum of \$1,200 plus (b) any other actual amounts incurred and/or paid by Contractor to any third-party(ies) engaged by Contractor. These amounts shall be immediately due and payable upon any such cancellation. Additionally, Owner acknowledges and agrees that these amounts shall be paid to Contractor in addition to any other amounts for which Owner is or may be responsible pursuant to any third-party financing/loan agreements. Except for the three-day right to cancel as set forth above, after any solar components have been installed on the home (meaning once any portion of Phase 2 installation has begun), Owner forfeits any and all rights to any cancellation and shall pay to Contractor all amounts to which Contractor is otherwise entitled.

CONTINUING COOPERATION Each party to this Agreement shall be obligated hereunder to do such other and further acts (including but not limited to such things as the signing of documents or instruments and/or the allowing of inspectors access to the project and/or completing certificates required by Contractor or a third-party financing/lending company, etc.), which are reasonable or which may be necessary or convenient in either party carrying out its respective obligations under this Agreement or in carrying out the purposes and intent of this Agreement. If Owner impedes work or withholds signing of any forms for more than 30 days, Owner shall be in breach of contract, and shall be responsible for all damages arising therefrom, including but not limited to payment of all amounts to which Contractor would be due hereunder, as well as any damages or other amounts due to any third-party(ies) with all such amounts being due immediately upon such breach.

TELEPHONE/SMS/TEXTING CONSENT Owner hereby consents to being contacted by telephone at any phone number (including but not limited to wireless/cellular phone numbers) provided to ION Solar (or any of its agents) by Owner or anyone acting on behalf of Owner. Owner agrees that such calls/contact may be initiated by ION Solar or any of its affiliates, agents, contractors or assigns, and that the methods of contact may include using pre-recorded/artificial voice messages and/or the use of an automated dialing device and/or the use of text messages—some or all of which may result in data charges. To revoke this consent, or any portion of it, please send an email to: support@ionsolar.com indicating which specific portion(s) of this consent are being revoked.

OWNER, NOT CONTRACTOR, RESPONSIBLE FOR PRE-EXISTING ROOF ISSUES Owner acknowledges that Owner, and not Contractor, is solely responsible for the condition of Owner's roof and for any pre-existing roof issues associated with Owner's home including but not limited to such things as the overall age and/or condition of Owner's roof or roofing materials. Contractor has no duty to inspect the overall condition of Owner's roof. Except for the installation of the Solar System as set forth in this Agreement and honoring the terms and conditions of the Limited Warranty, Contractor has no other obligations or duties to Owner with regard to Owner's roof, roofing materials, or the condition(s) thereof.

LIFT AND REPLACE From time to time Owner may deem it necessary/desirable to “lift and replace” some or all of the Solar System For example, if Owner is remodeling, replacing some or all of Owner’s roof, replacing roof shingles, or any other type of repair where it may be necessary to “lift and replace” the Solar System, or certain components thereof. Owner acknowledges Contractor’s willingness to perform such “lift and replace” as may be requested by Owner, but further acknowledges that the actual costs and expenses of any such “lift and replace” functions are not currently known and cannot be known until such point that Contractor has analyzed the scope of such services and provided Owner a firm written bid. To the extent Owner desires a “lift and replace” bid from Contractor, Owner shall first contact Contractor before undertaking any “lift and replace” functions. In order to preserve the Limited Warranty, only Contractor (or those expressly authorized by Contractor) can perform any “lift and replace” functions. In the event Owner itself (either directly or through any third-party(ies) undertakes any portion of any “lift and replace” services without having obtained the prior express written consent of Contractor (which consent must be signed by a vice-president or higher officer of Contractor) then the Limited Warranty (attached hereto as Exhibit A) shall become immediately null and void.

DISPUTE RESOLUTION/ARBITRATION AGREEMENT By entering into this Agreement, Owner and Contractor each agree that any dispute, claim, or controversy between or involving Owner and Contractor arising in connection with or relating in any way to this Agreement, including, but not limited to: (a) claims arising out of or relating to any aspect of the relationship between Contractor and Owner or any of the services provided by Contractor, (b) claims that arose before this Agreement or any prior agreement(s) between Owner and Contractor (including, but not limited to claims arising from or related to any sales, marketing, and/or advertising); (c) claims that may arise after termination of Contractor’s services contemplated hereunder, (whether any or all of such claims are based in contract, tort, statute, fraud, misrepresentation or any other legal theory, and whether the claims arise during or after the termination of this Agreement), will be determined and resolved by mandatory binding individual (not class) arbitration proceeding. Owner and Contractor further agree that the arbitrator shall have the exclusive power and authority to rule on his/her own jurisdiction, including any objections with respect to the existence, scope or validity of the arbitration agreement between the parties or to the arbitrability of any claim or counterclaim. Owner and Contractor each acknowledge and agree that arbitration is more informal than typical litigation. **THERE IS NO JUDGE OR JURY IN ARBITRATION, AND COURT REVIEW OF AN ARBITRATION AWARD IS QUITE LIMITED.** This agreement to arbitrate will survive any termination of this Agreement regardless of who initiated such termination or the reason(s) for such termination. Notwithstanding anything set forth in this paragraph (which may be referred to simply as the “Arbitration Agreement”), Owner and Contractor both agree that nothing in this Arbitration Agreement will be deemed to waive, preclude or otherwise limit the rights of either party to: (1) bring an individual action in a U.S. small claims court or (2) bring an individual action seeking only temporary or preliminary injunctive relief in a court of law, pending a final ruling from the arbitrator. In addition, the Arbitration Agreement does not restrict or stop either party from bringing issues to the attention of federal, state, or local agencies which may, if the law allows, seek relief against either of us on behalf of the other.

ARBITRATION RULES Unless otherwise expressly agreed to in writing by Owner and Contractor, any arbitration between or involving Contractor and Owner shall be governed by and conducted pursuant to the Consumer Arbitration Rules of the American Arbitration Association (“AAA”) then in effect (the “AAA Rules”), as modified by the terms of the Arbitration Agreement. Owner and Contractor agree that the Federal Arbitration Act applies to and governs the interpretation and enforcement of this provision and all other provisions regarding dispute resolution and arbitration (including, but not limited to the Arbitration Agreement) as well as the class action waiver set forth below. The AAA Rules, as well as instructions on how to file an arbitration proceeding with the AAA, can be found at adr.org or by calling the AAA at 1-800-778-7898. Any arbitration hearings will take place in the county of Owner’s billing address, provided that if the claim is for \$25,000 or less, Owner may choose whether the arbitration will be conducted (1) solely on the basis of documents submitted to the arbitrator; (2) through a non-appearance based telephonic hearing; or (3) by an in-person hearing established by and conducted in conformity to the AAA Rules.

NOTICE BEFORE FILING/ARBITRATION COSTS AND AWARD If either Contractor or Owner intends to file a small claims action or to seek arbitration, the party intending to do so must first send a written notice of dispute to the other, Notice from Owner to Contractor should be sent to: **4801 N University Ave #900, Provo, Utah 84604 ATTN: CANCELLATIONS** in such a way that delivery can be confirmed. Any notice from Contractor to Owner will be sent to the Owner’s street and/or email address on file in such a way that delivery can be confirmed. Any such notice must (1) describe the nature of the claim(s) and/or dispute(s); and (2) the desired relief sought (the “Notice”). If Contractor and Owner are unable to informally resolve the dispute within thirty (30) days following receipt of the Notice, then either party may then proceed to file the small claims action or file a claim for arbitration. If Owner opts for arbitration and Owner is required to pay a filing fee, Contractor will reimburse Owner that filing fee, unless Owner’s claim is for greater than \$10,000, in which case Owner will be responsible for the filing fee. Contractor will pay any other arbitration fees, including Owner’s share of the arbitrator compensation, unless otherwise required by AAA rules or court order obtained pursuant to and consistent with the terms of the Arbitration Agreement, During the arbitration, the amount of any settlement

offer(s) made by Owner or Contractor shall not be disclosed to the arbitrator until after the arbitrator makes a final written decision and award, if any. In the event the dispute is finally resolved through arbitration in favor of Owner, and the arbitrator issues Owner an award that is greater than the value of Contractor’s last written offer of settlement to Owner, then in such event Contractor hereby agrees to pay Owner either the amount of the arbitrator’s award, or \$1,000— whichever is greater. All documents and information disclosed in the course of the arbitration shall be kept strictly confidential by the recipient and shall not be used by the recipient for any purpose(s) other than for the purpose of the arbitration or the enforcement of the arbitrator’s decision and award. Regardless of the manner in which the arbitration is conducted, the arbitrator shall issue a reasoned written decision. The arbitrator may make rulings and resolve disputes as to the payment and reimbursement of fees or expenses at any time during the proceeding and upon request from either party made within 14 days of the arbitrator’s ruling on the merits.

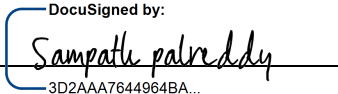
CLASS ACTION WAIVER IN ADDITION TO THE ARBITRATION AGREEMENT AND OTHER TERMS SET FORTH ABOVE, OWNER AND CONTRACTOR EACH FURTHER AND SEPARATELY AGREE THAT THEY MAY BRING CLAIMS AGAINST THE OTHER ONLY IN THEIR RESPECTIVE INDIVIDUAL CAPACITIES AND NOT AS A PLAINTFF OR CLASS MEMBER IN ANY PURPORTED CLASS OR REPRESENTIVE ACTION. Additionally, unless expressly agreed upon by Owner and Contractor in writing, no arbitrator or judge may consolidate more than one person’s claims or otherwise preside over any form of a representative or class proceeding. In the event either party seeks injunctive relief, the arbitrator may award injunctive relief only in favor of the individual party seeking relief and only to the extent necessary to provide relief warranted by that party’s individual claim. If a court decides that applicable law precludes enforcement of any of this paragraph’s limitations as to a particular claim for relief, then that claim (and only that claim) must be severed from the arbitration and may be brought in court.


ENTIRE AGREEMENT This instrument contains the entire and only agreement between the parties hereto relating to the subject matter hereof and any representation, affirmation of fact, and course of prior dealings, promise or condition in connection therewith not incorporated herein shall not be binding on either party. This Agreement supersedes any previous agreement executed between the parties related to the Solar System and the installation thereof. The rights and obligations contained herein shall inure to and be binding upon the parties, their legal representatives, successors, and permitted assigns. This Agreement may be amended, replaced, or modified only by a written instrument executed by Contractor and Owner.

Please sign the contract and return to ION. We are committed to providing you with impeccable service throughout the entire installation process. Please contact us anytime using the contact information listed at the bottom of all pages of this Agreement.

Homeowner Acknowledgement:

ION Solar Acknowledgement:

By: 
Printed Name: sampath palreddy
Date: 4/23/2022

By: 
Printed Name: David Rasmussen
Date: 4/23/2022

Host Customer on Utility Bill Acknowledgement (if different from above):

By: _____

Printed Name: _____

EXHIBIT A - Limited Warranty

10-YEAR WORKMANSHIP WARRANTY Contractor hereby agrees to warranty the workmanship of its installation of the solar system (and its related components) as more particularly described in the underlying Installation Agreement (collectively the "PV System") for a period of ten (10) years from the date upon which the installation is completed. Contractor agrees that with respect to all roof penetrations made by Contractor, such roof penetrations will be free from material defects in workmanship and will be sealed or flashed to eliminate liquid or vapor penetration, and that such roof penetrations shall not diminish the existing water-repelling abilities of the existing roof. In the event of (a) roof leakage or (b) malfunction of any component of the PV System where such leakage or malfunction is **due to a workmanship issue**, Contractor will, at its cost, repair the affected area of the roof and/or repair and/or replace (as Contractor shall determine) such malfunctioning component(s).

For purposes of this Limited Warranty, a workmanship issue is defined as an issue directly caused by the improper installation by Contractor of the PV System. Owner hereby acknowledges that not all roof leaks and/or malfunctioning component(s) are the result of workmanship issues and as such may not be covered under the terms of this Limited Warranty. In the event of any dispute or controversy regarding whether or not an issue is due to a covered workmanship issue that should be covered by the terms of this Limited Warranty, then, before triggering any of the terms of Arbitration Agreement, the parties first agree that they shall engage the services of a third-party licensed contractor (having experience with solar system installations) to provide a written opinion as to whether the disputed issue is or is not the result of a covered workmanship issue. In the event the parties are unable to agree upon a mutually acceptable and qualified third-party licensed contractor, then each party shall choose its own experienced licensed contractor and then those two shall choose a third experienced licensed contractor (having experience with solar system installation) to render its written opinion. The opinion of the mutually acceptable third-party contractor (or the third-party contractor chosen by the parties' respective contractors) shall be binding upon the parties unless either party shall appeal such decision by triggering the terms Arbitration Agreement, in which case the dispute shall be resolved in accordance with those terms and conditions.

EXCLUSIONS FROM COVERAGE This ten-year warranty only covers issues resulting from improper installation of the PV System. Without providing an exhaustive list, Contractor is not responsible for:

- repairing any pre-existing damage to the roof and/or roofing material (such as shingles, tiles, etc.); or any leak, damage or malfunction caused by a failure of any part of Customer's building components themselves (such as failure of the roof substrate, roof trusses/framing, or other building structural failures);
- any leaks, damage or malfunction caused by fire or extreme weather conditions such as high winds, hail storms, ice dams, floods, tree damage, or other such acts of God; or for any leaks, damage or malfunction caused by pests or rodents.
- any leaks, damage or malfunction caused by other contractors or by any repair, replacement, modification, enhancement or reinstallation of the PV System (or any part thereof) using a part or service not provided by or authorized by Contractor.
- any leak, damage or malfunction caused by an accident, alteration, negligence, vandalism or other misconduct by Owner (or any subsequent owner), or any third party, including but not limited to damage from golf balls;
- any leaks, damage or malfunction that are the result of workmanship issues that were not reported to Contractor in a timely fashion.
- Any roof performance issues (1) not related to roof penetration of made as part of the installation of the PV System or (2) otherwise covered by Owner's homeowner's insurance.
- Any "lift and replace" services performed by anyone other than Contractor, unless such "lift and replace" services were expressly authorized in writing (which writing must be signed by Contractor's President).
- Any and all other exclusions listed in the underlining agreements, including but not limited to the Installation Agreement.

TRANSFERABILITY This 10-Year Limited Warranty is fully transferable to subsequent owners. No transfer, however, shall work to extend the ten (10) year term.

SERVICE CALLS—LABOR ONLY WARRANTY For a period of two (2) years following Contractor's Installation of the Solar System, Owner shall not be responsible for paying Contractor the labor portion of the first hour of any Service Call. Except for this two-year waiver of the first hour of Contractor's labor, and unless Contractor's other labor costs and component expenses (if any) are covered by (a) terms of the Limited Warranty set forth above or (b) the warranty of any third-party (such as those offered by a manufacturer of a specific component of the Solar System), Owner shall in all other cases be responsible for any and all other labor and/or parts/equipment costs and expenses as typically billed by Contractor. Contractor will strive to inform Customer of potential warranty coverage (or the lack thereof) as well as an estimate/bid for any work recommended by Contractor.

THIRD-PARTY WARRANTIES Owner acknowledges that except for the 10-Year Workmanship Warranty and Service Calls—Labor Only Warranty set forth above, Contractor offers no other express or implied warranty(ies) whatsoever. Owner also acknowledges that most (if not all) of the specific components of the Solar System have their own manufacturers or other third-party warranty(ies) for which Owner (and not Contractor) is responsible for knowing and enforcing. Owner is and shall remain responsible to Contractor for payment of all applicable labor and parts/equipment costs charged by Contractor for any service not otherwise covered by the 10-Year Workmanship Warranty, the Service Calls—Labor Only Warranty, or any applicable third-party warranty(ies).

NOTICE OF CANCELLATION

DATE OF HOMEOWNER ACKNOWLEDGEMENT:4/23/2022

YOU MAY CANCEL THE “ION DEVELOPER INSTALLATION AGREEMENT” WITHOUT ANY PENALTY OR OBLIGATION, WITHIN THREE BUSINESS DAYS FROM THE SET FORTH ABOVE DATE (the date upon which you signed/acknowledged the Ion Developer Installation Agreement) (the “AGREEMENT”).

IF YOU CANCEL, ANY PAYMENTS MADE BY YOU UNDER THE AGREEMENT WILL BE RETURNED TO YOU WITHIN 10 BUSINESS DAYS FOLLOWING RECEIPT BY ION DEVELOPER OF YOUR CANCELLATION NOTICE, ADDITIONALLY, ANY SECURITY INTEREST ARISING OUT OF THE AGREEMENT/TRANSACTION WILL BE CANCELLED.

IF YOU CANCEL, YOU MUST MAKE AVAILABLE TO ION DEVELOPER AT YOUR RESIDENCE, IN SUBSTANTIALLY AS GOOD CONDITION AS WHEN RECEIVED, ANY GOODS DELIVERED TO YOU UNDER THE AGREEMENT; OR YOU MAY, IF YOU WISH, COMPLY WITH THE INSTRUCTIONS OF ION DEVELOPER REGARDING THE RETURN SHIPMENT OF THE GOODS AT ION DEVELOPER’S EXPENSE AND RISK.

IF YOU DO NOT AGREE TO RETURN THE GOODS TO ION DEVELOPER OR IF ION DEVELOPER DOES NOT PICK THEM UP WITHIN 20 DAYS OF THE DATE OF YOUR NOTICE OF CANCELLATION, YOU MAY RETAIN OR DISPOSE OF THE GOODS WITHOUT ANY FURTHER OBLIGATION.

TO CANCEL THE AGREEMENT, MAIL OR DELIVER A SIGNED AND DATED COPY OF THIS ‘NOTICE OF CANCELLATION’ OR ANY OTHER WRITTEN NOTICE, OR SEND A TELEGRAM, TO ION DEVELOPER, LLC AT 4801 N. UNIVERSITY AVE., SUITE 900, PROVO, UTAH 84604, ATTN: CANCELLATIONS. NOT VALID LATER THAN MIDNIGHT OF THE THIRD BUSINESS DAY FROM THE DATE OF THIS AGREEMENT:4/23/2022

I HEREBY CANCEL THE AGREEMENT AND THIS TRANSACTION.

Buyer/”Owner” Signature

Dated:

Distributed Generation Procedures and Guidelines Manual for Members

EXHIBIT A

**CoServ Electric
Application for Operation of Customer-Owned Generation**

This application should be completed as soon as possible and returned to the Cooperative Customer Service representative in order to begin processing the request. See *Distributed Generation Procedures and Guidelines Manual for Members* for additional information.

INFORMATION: *This application is used by the Cooperative to determine the required equipment configuration for the Customer interface. Every effort should be made to supply as much information as possible.*

INSTRUCTIONS:

All Renewable DG Systems with a Capacity of 50 kW or less: Complete Part 1, Part 2, and Part 4 of Application and return to Cooperative at address listed in Part 4 prior to installing DG equipment.

All Renewable DG Systems with a Capacity Larger than 50 kW and All Other Technologies: Complete all Parts of Application and return to Cooperative at address listed in Part 4 prior to installing DG equipment.

PART 1
OWNER/APPLICANT INFORMATION

Company: _____

Mailing Address: _____

City: _____ County: _____ State: _____ Zip Code: _____

Phone Number: _____ Representative: Sampath palreddy

Email address: _____

PROJECT DESIGN/ENGINEERING (as applicable)

Company: ION Solar

Mailing Address: 4801 N University Ave #900

City: Provo County: Utah State: UT Zip Code: 84604

Phone Number: 888-781-7074 Representative: _____

Email address: netmetering@ionsolar.com

ELECTRICAL CONTRACTOR (as applicable)

Company: ION DEVELOPER LLC

Mailing Address: 4801 N University Ave #900

City: Provo County: Utah State: UT Zip Code: 84604

Distributed Generation Procedures and Guidelines Manual for Members

Phone Number: 888-781-7074 Representative: _____

Email address: netmetering@ionsolar.com _____

PART 2

CATEGORY OF DISTRIBUTED GENERATION FACILITY

CONNECTION LEVEL CATEGORY

Connected to the Cooperative’s System X _____

Connected to the Cooperative’s Power Supplier’s System _____

Not Connected _____

POWER EXPORT CATEGORY

Mode of Operation

Isolated _____

Parallel with No Power

Export _____

Parallel for Both Consumption
and Export X _____

Parallel for Export Only _____

QUALIFYING OR NON-QUALIFYING CATEGORY

Qualifying (Renewable, Biomass, Waste, or Geothermal): Renewable (PV Solar) _____

Non-Qualifying: _____

SIZE CATEGORY AND ESTIMATED LOAD INFORMATION

The following information will be used to help properly design the Cooperative customer interconnection. This information is not intended as a commitment or contract for billing purposes.

Total DG Output _____ (kW) (specify AC or DC)

Total Site Load _____ (kW)

FUEL AND TECHNOLOGY TYPE OF GENERATOR

Solar Photovoltaic X _____

Solar, Non -Photovoltaic _____

Wind-turbine _____

Natural Gas / Engine _____

Natural Gas / Microturbine _____

iesel / Engine _____

Gasoline / Engine _____

Landfill Gas / Engine _____

Landfill Gas / Other _____

Other Fuel _____

Distributed Generation Procedures and Guidelines Manual for Members

DESCRIPTION OF PROPOSED INSTALLATION AND OPERATION

Give a general description of the proposed installation, including when you plan to operate the generator.

Installation of solar panels on existing residential roof.

Anticipated date for operation - _____

PART**EQUIPMENT INFORMATION AND SPECIFICATIONS**

(Complete all applicable items. Copy this page as required for additional generators.)

SYNCHRONOUS GENERATOR D

Unit Number: _____ Total number of units with listed specifications on site: _____

Manufacturer: _____

Type / Model No.: _____ Date of manufacture: _____

Serial Number (each): _____

Phases: Single _____ Three _____ R.P.M.: _____ Frequency (Hz): _____

Rated Output (for one unit): _____ Kilowatt _____ Kilovolt-Amper _____

Rated Power Factor (%): _____ Rated Voltage (Volts) _____ Rated Amperes: _____

Field Volts: _____ Field Amps: _____ Motoring power (kW): _____

Synchronous Reactance (X'd): _____ % on _____ KVA base

Transient Reactance (X'd): _____ % on _____ KVA base

Subtransient Reactance (X'd): _____ % on _____ KVA base

Negative Sequence Reactance (Xs): _____ % on _____ KVA base

Zero Sequence Reactance (Xo): _____ % on _____ KVA base

Neutral Grounding Resistor (if applicable): _____

Distributed Generation Procedures and Guidelines Manual for Members

I_2^2t of K (heating time constant): _____
 Additional Information: _____

INDUCTION GENERATOR DATA

Rotor Resistance (Rr): _____ ohms Stator Resistance (Rs): _____ ohms
 Rotor Reactance (Xr): _____ ohms Stator Reactance (Xs): _____ ohms
 Magnetizing Reactance (Xm): _____ ohms Short Circuit Reactance (Xd''): _____ ohms
 Design letter: _____ Frame Size: _____
 Exciting Current: _____ Temp Rise (deg C°): _____

Reactive Power Required: _____ Vars (no load), Vars _____ (full load)

Additional Information: _____

PRIME MOVER (Complete all applicable items)

Unit Number: _____ Type / Model No.: _____

Manufacturer: _____

Serial Number: _____ Date of manufacturer: _____

H.P. Rates: _____ H P. Max.: _____ Inertia Constant: _____ lb.-ft²

Energy Source (hydro, steam, wind, etc.) _____

GENERATOR TRANSFORMER (Complete all applicable items)

TRANSFORMER (between generator and utility system)

Generator unit number: _____ Date of manufacturer: _____

Manufacturer: _____

Serial Number: _____

High Voltage: _____ KV, Connection: delta wye, Neutral solidly grounded? _____

Low Voltage: _____ KV, Connection: delta wye, Neutral solidly grounded? _____

Transformer Impedance (Z): _____ % on _____ KVA base

Transformer Resistance (R): _____ % on _____ KVA base

Transformer Reactance (X): _____ on _____ KVA base

Neutral Grounding Resistor (if applicable): _____

INVERTER DATA (if applicable)

Manufacturer: Enphase Model: _____

Rate Power Factor (%): 97 Rated Voltage (Volts): 240 Rated Amperes: 15

Inverter Type (ferroresonant, step, pulse-width modulation, etc.): microinverters

Type commutation: forced line

Harmonic Distortion: Maximum Single Harmonic (%) _____

Maximum Total Harmonic (%) _____

Note: Attach all available calculations, test reports, and oscillographic prints showing inverter output voltage and current waveforms.

Distributed Generation Procedures and Guidelines Manual for Members

POWER CIRCUIT BREAKER (if applicable)

Manufacturer: _____ Model: _____

Rated Voltage (kilovolts): _____ Rated ampacity (Amperes) _____

Interrupting rating (Amperes): _____ BIL Rating _____

Interrupting medium / insulating medium (ex. Vacuum, gas, oil) _____ / _____

Control Voltage (Closing): _____(Volts) AC DC

Control Voltage (Tripping): _____(Volts) AC DC Battery Charged Capacitor

Close energy: Spring Motor Hydraulic Pneumatic Other: _____

Trip energy: Spring Motor Hydraulic Pneumatic Other: _____

Bushing Current Transformers: _____ (Max. ratio) Relay Accuracy Class: _____

Multi Ratio? No Yes: (available taps) _____

ADDITIONAL INFORMATION

In addition to the items listed above, please attach all applicable elementary diagrams, major equipment (generators, transformers, inverters, circuit breakers, protective relays, etc.), specifications, test reports, etc., and any other applicable drawings or documents necessary for the proper design of the inter onnection.

**PART 4
SIGN OFF AREA**

Please attach a detailed one-line diagram of the proposed facility, contractor proposal (if applicable), and any related information that further describes the equipment to be installed.

The customer agrees to provide the Cooperative with any additional information required to complete the interconnection. The customer shall operate his equipment within the guidelines set forth by the Cooperative.

DocuSigned by:

Applicant

4/23/2022
Date

ELECTRIC COOPERATIVE CONTACT FOR APPLICATION SUBMISSION AND FOR MORE INFORMATION:

Cooperative contact: Energy Engineering Department
Email address: solar@coserv.com
Mailing address: CoServ
7701 S. Interstate 35E
Corinth, TX 76210
Phone: 940-321-78
Fax: 940-270-6640

AERIAL SITE VIEW



JURISDICTION CODES AND STANDARDS

GOVERNING CODES

- 1. ALL WORK SHALL COMPLY WITH:
- 2020 NATIONAL ELECTRIC CODE (NEC)
- 2018 INTERNATIONAL BUILDING CODE (IBC)
- 2018 INTERNATIONAL RESIDENTIAL CODE (IRC)
- 2018 INTERNATIONAL FIRE CODE (IFC)

2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) AND ALL STATE AND LOCAL BUILDING, ELECTRICAL, AND PLUMBING CODES.

SITE CLASSIFICATION NOTES, OSHA REGULATION

OCCUPANCY CLASS: SFR
CONSTRUCTION CLASS: V-B
ZONING TYPE: RESIDENTIAL

- 1. A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.
- 2. THIS PROJECT HAS BEEN REVIEWED AND WILL NOT DIRECT CONCENTRATED SOLAR RADIATION OR GLARE ONTO NEARBY PROPERTIES OR ROADWAYS.

ELECTRICAL CRITERIA, NOTES

TEMPERATURE SOURCE: ASHRAE
WEATHER STATION: MCKINNEY MUNI AP
EXTREME MIN. TEMPERATURE: -10
ASHRAE 2% HIGH TEMP: 37

- 1. DRAWINGS HAVE BEEN DETAILED ACCORDING TO UL LISTING REQUIREMENTS.
- 2. TERMINALS AND LUGS WILL BE TIGHTENED TO MANUFACTURER TORQUE SPECIFICATIONS (WHEN PROVIDED) IN ACCORDANCE WITH NEC 110.14(D) ON ALL ELECTRICAL.
- 3. PV MODULE CERTIFICATIONS WILL INCLUDE UL1703, IEC61646, IEC61730.
- 4. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING AS REQUIRED BY FIELD CONDITIONS.
- 5. PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED AS PER SECTION [NEC 110.26].

STRUCTURAL CRITERIA, NOTES

DESIGN LOAD STANDARD: ASCE 7-16
WIND EXPOSURE CATEGORY: C
WIND SPEED (3-SEC GUST): 115 MPH
GROUND SNOW LOAD: 5 PSF
DESIGN ROOF SNOW LOAD: 5 PSF
SEISMIC DESIGN CATEGORY: B
SEISMIC RISK FACTOR: II



CONFIDENTIAL - THE INFORMATION HEREIN CONTAINED SHALL NOT BE USED FOR THE BENEFIT OF ANYONE EXCEPT ION DEVELOPER, LLC NOR SHALL IT BE DISCLOSED IN WHOLE OR IN PART TO OTHERS OUTSIDE RECIPIENTS ORGANIZATION, EXCEPT IN CONNECTION WITH THE SALE AND USE OF THE RESPECTIVE EQUIPMENT, WITHOUT THE WRITTEN PERMISSION OF ION DEVELOPER, LLC.



SCOTT A. GURNEY
#PV-0117719-015866

ION DEVELOPER, LLC
4801 N UNIVERSITY AVE #900 PROVO, UT 84604
888.781.7074

SAMUEL GURNARI
EC
30990

SITE INFORMATION:
SAMPATH PALREDDY
2804 WESTON ROAD
AUBREY, TEXAS 76227

(14) SILFAB SOLAR SIL-380 HC 20211101
(14) ENPHASE IQ7PLUS-72-2-US
5.32KW DC, 4.06KW STC-AC,
4.745KW CEC-AC

SCOPE OF WORK

- INSTALLATION OF UTILITY INTERACTIVE PHOTOVOLTAIC SOLAR SYSTEM
- 5.32 kW DC & 4.06 kW AC PHOTOVOLTAIC SOLAR ARRAY
- PV MODULES: (14) SILFAB SOLAR SIL-380 HC 20211101
- INVERTER(S): (14) ENPHASE IQ7PLUS-72-2-US
- ROOF TYPE: COMPOSITION SHINGLE - 1 LAYER(S)
- PV MOUNTING HARDWARE: ECOFASTEN CLICKFIT

SHEET LIST

- G-1 COVER SHEET
- V-2 SITE PLAN (AD. LIB)
- S-3 ROOF PLAN
- S-4 STRUCTURAL DETAILS
- S-5 STRUCTURAL CALCULATIONS & NOTES
- E-6 ELECTRICAL DETAILS (LINE DIAGRAM)
- E-7 ELECTRICAL CALCULATIONS & NOTES
- E-8 ELECTRICAL LOAD CALCULATIONS (AD. LIB)
- E-9 ELECTRICAL LABELS & LOCATIONS
- E-10 ELECTRICAL DIRECTORY PLACARD (AD. LIB)



DRAWING BY
ENPHASE ENERGY

DATE
11-05-2022

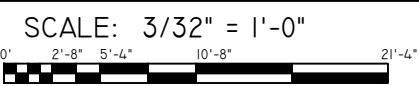
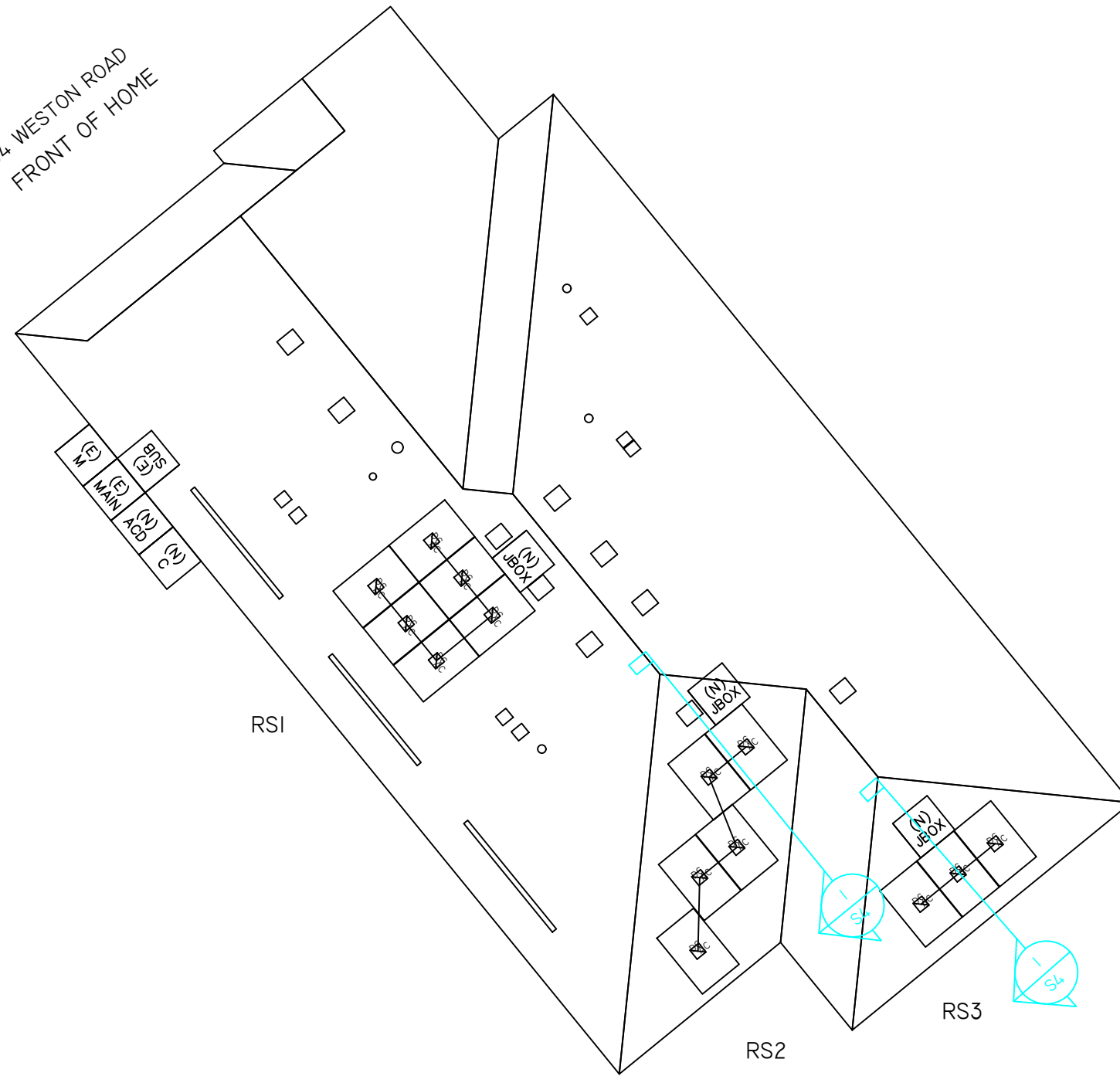
PROJECT ID
006UPI

SHEET NAME
COVER SHEET

SHEET NUMBER	REVISION
G-1	0

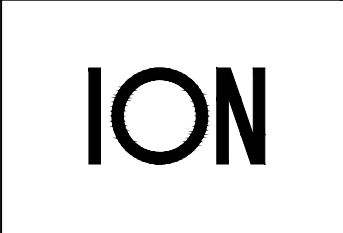
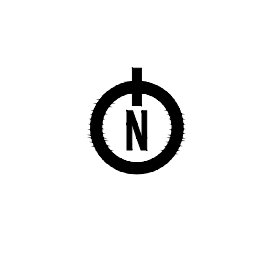
SITE NOTES:

2804 WESTON ROAD
FRONT OF HOME



SYSTEM LEGEND			
	(E) UTILITY METER / MAIN SERVICE PANEL		(N) PV COMBINER PANEL
	(E) MAIN SERVICE PANEL		(N) PV LOAD CENTER
	(E) SUBPANEL		(N) PV PRODUCTION METER
			(N) DC-DC / STRING INVERTER
			(N) JUNCTION BOX
			(N) AC DISCONNECT (VISIBLE-OPEN LOCKABLE LABELED DISCONNECT)
			(N) MICROINVERTER
			(N) DC DISCONNECT
			S# SUNEYE LOCATION
			FIRE SETBACK
			(N) PV MODULE

ROOF SECTION CRITERIA AND SPECIFICATIONS					
ROOF SECTION	PV MODULE QTY	AZIMUTH	PITCH	TSRF	
RS1	6	231	26	90%	
RS2	5	141	26	97%	
RS3	3	141	26	97%	



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ION DEVELOPER, LLC
4801 N UNIVERSITY AVE #900 PROVO, UT 84604
888.781.7074
SAMUEL GURNARI
EC 30990

SITE INFORMATION:
SAMPATH PALREDDY
2804 WESTON ROAD
AUBREY, TEXAS 76227
(14) SILFAB SOLAR SIL-380 HC 2021101
(14) ENPHASE IQ7PLUS-72-2-US
5.32KW DC, 4.06KW STC-AC,
4.745KW CEC-AC



DRAWING BY
ENPHASE ENERGY

DATE
11-05-2022

PROJECT ID
006UPI

SHEET NAME
ROOF PLAN

SHEET NUMBER S-3	REVISION 0
---------------------	---------------

RACKING INSTALLATION SCHEDULE AND STRUCTURAL CRITERIA

PV RACKING	
RACKING:	ECOFASTEN CLICKFIT
RACKING TYPE:	RAIL
STANDOFF:	CLICKFIT L-FOOT
STANDOFF TYPE:	L-FOOT & FLASHING
FASTENER:	5/16" X 3-1/2" ZINC PLATED STEEL LAG SCREW

SPAN AREA	TAG	SPAN
RAIL - PORTRAIT - MODULE ORIENTATION		
X- SPACING	P-X1	72 IN. O.C. MAX.
X-CANTILEAVER	P-X2	23 IN. MAX.
Y- SPACING	P-Y1	37.4 IN. MIN. - 45.3 IN. MAX.
Y-CANTILEAVER	P-Y2	12.1 IN. MIN. - 16 IN. MAX.

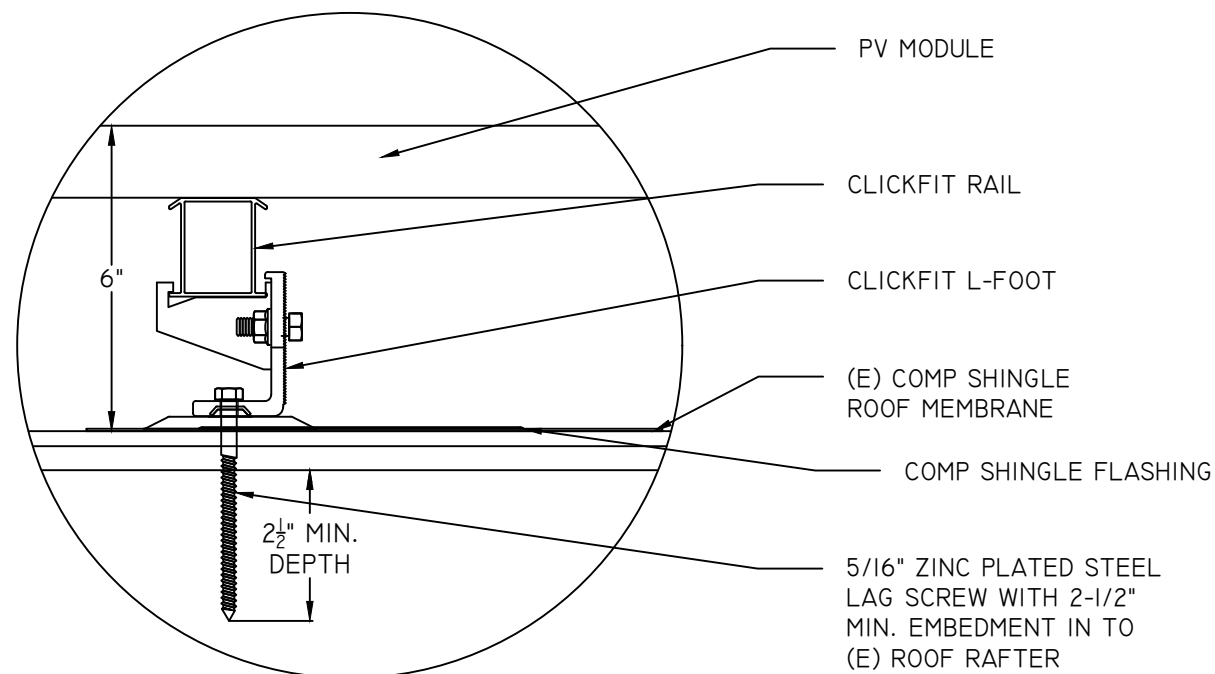
STRUCTURAL	
ROOF TYPE:	COMPOSITION SHINGLE
ROOF SHEATHING TYPE:	7/16" OSB
STRUCTURE TYPE:	MANUFACTURED WOOD TRUSS
RAFTER SIZE:	2x4
RAFTER SPACING:	24

RAIL - LANDSCAPE - MODULE ORIENTATION		
X- SPACING	L-X1	72 IN. O.C. MAX.
X-CANTILEAVER	L-X2	23 IN. MAX.
Y- SPACING	L-Y1	21.1 IN. MIN. - 25.1 IN. MAX.
Y-CANTILEAVER	L-Y2	7.9 IN. MIN. - 9.8 IN. MAX.

ARRAY PARAMETERS	
TOTAL ROOF AREA (SQ. FT.)	3317.54
TOTAL PV MODULE AREA (SQ. FT.)	275.8
% PV MODULE ROOF COVERAGE	8%



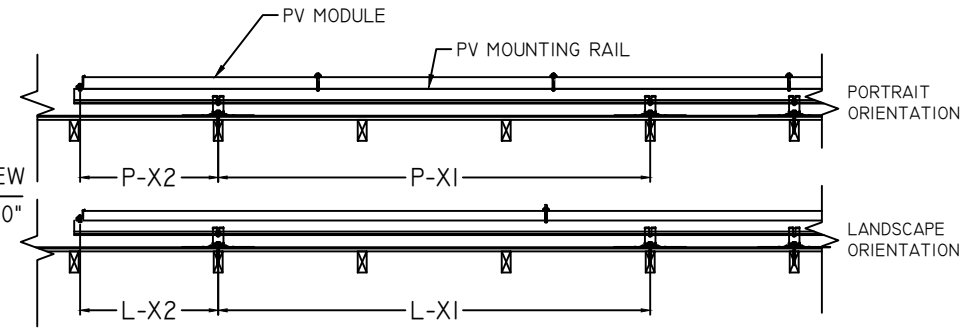
A. Luke Rowley
05/11/2022



A STANDOFF DETAIL
SCALE: 3" = 1'-0"

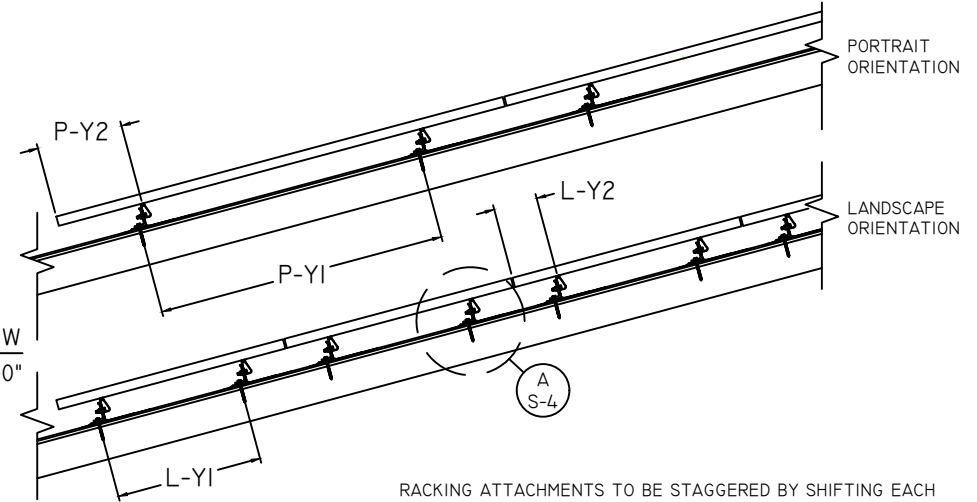
PV ARRAY DETAIL, FRONT VIEW

SCALE: 3/8" = 1'-0"



PV ARRAY DETAIL, SIDE VIEW

SCALE: 3/8" = 1'-0"

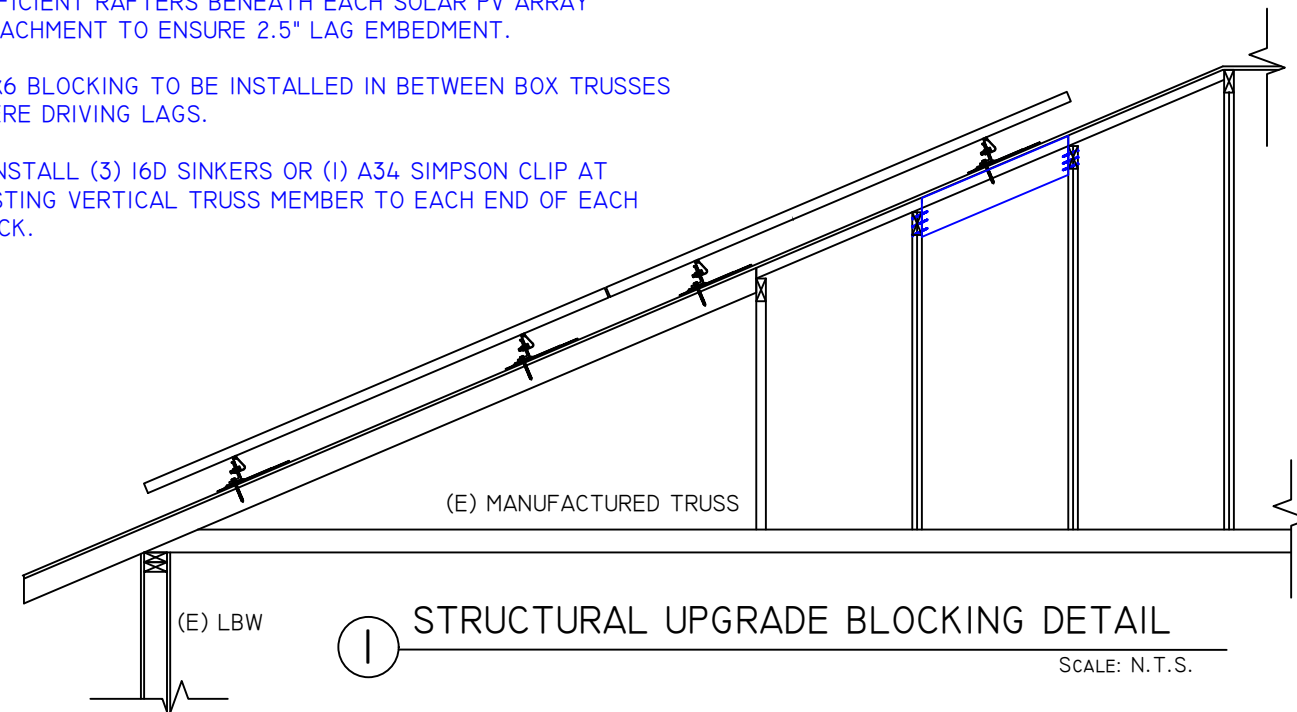


RACKING ATTACHMENTS TO BE STAGGERED BY SHIFTING EACH SUBSEQUENT ROW OF ATTACHMENTS ONE RAFTER OVER TO DISTRIBUTE LOAD ACROSS ALL FRAMING MEMBERS UNDER PV ARRAY.

STRUCTURAL UPGRADE REQUIRED - BLOCKING

*NOTE: THIS UPGRADE MAY NOT BE REQUIRED IF THERE IS SUFFICIENT RAFTERS BENEATH EACH SOLAR PV ARRAY ATTACHMENT TO ENSURE 2.5" LAG EMBEDMENT.

1. 2x6 BLOCKING TO BE INSTALLED IN BETWEEN BOX TRUSSES WHERE DRIVING LAGS.
2. INSTALL (3) 16D SINKERS OR (1) A34 SIMPSON CLIP AT EXISTING VERTICAL TRUSS MEMBER TO EACH END OF EACH BLOCK.



STRUCTURAL UPGRADE BLOCKING DETAIL
SCALE: N.T.S.

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SITE INFORMATION:
SAMPATH PALREDDY
2804 WESTON ROAD
AUBREY, TEXAS 76227

(14) SILFAB SOLAR SIL-380 HC 2021101
(14) ENPHASE IQ7PLUS-72-2-US
5.32KW DC, 4.06KW STC-AC,
4.745KW CEC-AC

DRAWING BY
ENPHASE ENERGY

DATE
11-05-2022

PROJECT ID
006UPI

SHEET NAME
STRUCTURAL DETAILS

SHEET NUMBER
S-4

REVISION
0

PV SYSTEM STRUCTURAL SPECIFICATIONS AND CALCULATIONS

PV SYSTEM EQUIPMENT SPECIFICATIONS

MODULE MANUFACTURER / TYPE	SILFAB SOLAR SIL-380 HC 20211101
SOLAR MODULE WEIGHT (LBS)	43
SOLAR MODULE LENGTH (IN.)	69.4
SOLAR MODULE WIDTH (IN.)	40.8
SOLAR MODULE AREA (SQ. FT)	19.7
PV RACKING	ECOFASTEN CLICKFIT
PV RACKING TYPE	RAIL
PV ROOF ATTACHMENT	CLICKFIT L-FOOT
PV ROOF ATTACHMENT FASTENER	5/16" X 3-1/2" ZINC PLATED STEEL LAG SCREW
RACKING DEAD LOAD (PSF)	0.8
SOLAR MODULE DEAD LOAD (PSF)	2.18
TOTAL PV ARRAY DEAD LOAD (PSF)	2.98

PV SYSTEM STRUCTURAL SPECIFICATIONS

STRUCTURE TYPE - ROOF SHAPE	INHABITED - HIP ROOF
MIN. ROOF SLOPE (DEG.)	26
MEAN ROOF HEIGHT (FT.)	11
PORTRAIT ATT. SPACING (IN. O.C.)	72
LANDSCAPE ATT. SPACING (IN. O.C.)	72
# OF ATTACHMENT POINTS	30
MAX. POINT LOAD (LBS / ATT.)	17.5
MAX. TOTAL PV DEAD LOAD TO RAFTER (LBS)	34.9

DESIGN WIND PRESSURE AND CONNECTION UPLIFT CALCULATIONS

DESIGN WIND PRESSURE (PSF) = $P = qh(GCp)(Ye)(Ya)$	EQN. 29.4-7
VELOCITY PRESSURE (PSF) = $qh = 0.00256(Kh)(Kzt)(Kd)(Ke)(V^2)$	EQN. 26.10-1
TERRAIN EXPO. CONSTANT (A) = 9.5	TABLE 26.11-1
TERRAIN EXPO. CONSTANT (Zg)(FT) = 900	TABLE 26.11-1
VP EXPOSURE COEFF.(Kh) = 0.80	EQN. C26.10-1
TOPOGRAPHIC FACTOR (Kzt) = 1.0	EQN. 26.8-1
WIND DIRECTIONALITY FACTOR (Kd) = 0.85	TABLE 26.6-1
ARRAY EDGE FACTOR (Ye) = 1	TABLE 26.13-1
GROUND ELEVATION FACTOR (Ke) = 0.98	FIG. 29.4-8
QH (PSF) = 22.32	EQN. 26.10-1

	UPLIFT		DOWNWARD		FIGURE 30.3-2G
	ZONE 1	ZONE 2R	ZONE 2E	ALL ZONES	
HIP ROOF 20° < θ ≤ 27°	72 IN. O.C.	72 IN. O.C.	72 IN. O.C.	72 IN. O.C.	
RAIL - PORTRAIT MODULE ORIENTATION	72 IN. O.C.	72 IN. O.C.	72 IN. O.C.	72 IN. O.C.	
SOLAR PANEL PRESSURE EQ. FACTOR (Ya) =	0.80	0.80	0.80	0.80	
EXTERNAL PRESSURE COEFF. (Gcp) =	-1.4	-2.0	-2.0	0.9	
ASD PRESSURE (0.6P)(PSF) =	-15.00	-21.43	-21.43	26.79	
TRIBUTARY AREA (SQ. FT) =	17.4	17.4	8.7		
MAX. UPLIFT (0.6D+0.6P) (LBS) =	-229.2	-340.7	-170.4		
RAIL - LANDSCAPE MODULE ORIENTATION	72 IN. O.C.	72 IN. O.C.	72 IN. O.C.	72 IN. O.C.	
SOLAR PANEL PRESSURE EQ. FACTOR (Ya) =	0.80	0.80	0.80	0.80	
EXTERNAL PRESSURE COEFF. (Gcp) =	-1.4	-2.0	-2	0.7	
ASD PRESSURE (0.6P)(PSF) =	-15.00	-21.43	-21.43	20.83	
TRIBUTARY AREA (SQ. FT) =	10.20	10.20	5.10		
MAX. UPLIFT (0.6D+0.6P) (LBS) =	-134.7	-200.3	-100.2		

ROOF ATTACHMENT FASTENER CHECK

CLICKFIT L-FOOT - 5/16" X 3-1/2" ZINC PLATED STEEL LAG SCREW	MANUFACTURER MAX. UPLIFT CAPACITY = 359.6 LBS			
LAG SCREW WITHDRAWAL DESIGN VALUE (LBS) = $W = 1800(G^3/2)(D^3/4)$	12.2.1			
ROOF ATTACHMENT FASTENER (D) = 5/16 IN. LAG SCREW	LUMBER SPECIFIC GRAVITY (G)= 0.5			
FASTENER QTY PER ATTACHMENT = 1	LOAD DURATION FACTOR (Cd) = 1.6			
FASTENER EMBEDMENT DEPTH (IN.) = 2.5	PRYING COEFFICIENT = 1.4			
WITHDRAWAL DESIGN VALUE(W)(LBS / IN.) = 266.0				
LAG SCREW WITHDRAWAL CAPACITY (LBS) = 760.0				
MAX. ATT. WITHDRAWAL CAPACITY (LBS) = 359.6	>	340.7	MAX UPLIFT DEMAND (LBS)	OK

DESIGN LOCATION AND SITE SPECIFICATIONS

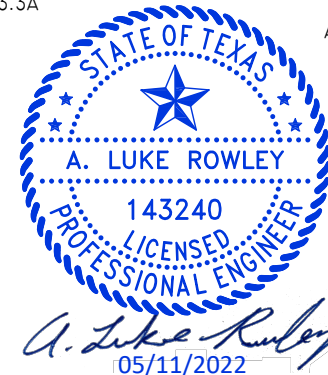
JURISDICTION	CITY OF AUBREY
STATE	TEXAS
ADOPTED LOAD STANDARD	ASCE 7-16
OCCUPANCY / RISK CATEGORY	II
BASIC WIND SPEED (MPH (3-SEC GUST))	115
WIND EXPOSURE CATEGORY	C
GROUND SNOW LOAD (PSF) (Pg)	5
BASE ELEVATION (FT)	688

DESIGNED ROOF SNOW LOAD CALCULATIONS

ASCE 7-16 (C&C)	
SLOPED ROOF SNOW LOAD (PSF)	EQN. 7.4-1
= $P_s = (C_s)(0.7)(C_e)(C_t)(I_s)(P_g)$	
EXPOSURE FACTOR (Ce) = 1.0	TABLE 7.3-1
THERMAL FACTOR (Ct) = 1.0	TABLE 7.3-2
IMPORTANCE FACTOR (Is) = 1.0	TABLE 1.5-2
SLOPE FACTOR (Cs) = 1.0	FIG. 7.4-1
Ps (PSF) = 5	OK

GRAVITY LOAD / FRAMING CALCULATIONS

DEAD LOAD (PSF)	RSI	RS2
ROOF MEMBRANE	COMPOSITION SHINGLE 4.0	COMPOSITION SHINGLE 4.0
SHEATHING	7/16" OSB 1.7	7/16" OSB 1.7
FRAMING	MANUFACTURED WOOD TRUSS - TOP CHORD 2X4 @ 24 IN. O.C. - DF #2 @6 FT. MAX SPAN 1.0	MANUFACTURED WOOD TRUSS - TOP CHORD 2X4 @ 24 IN. O.C. - DF #2 @6 FT. MAX SPAN 1.0
TOTAL ROOF DEAD LOAD (PSF)	6.7	6.7
ADJUSTED TO SLOPED ROOF (PSF)	7.5	7.5
PV ARRAY ADJ. TO ROOF SLOPE (PSF)	3.3	3.3
ROOF LIVE LOAD > ROOF SNOW LOAD (PSF)	20.0	20.0
TOTAL LOAD (PSF)	30.9	30.9
RAFTER / TOP CHORD MEMBER PROPERTIES	DF #2 - 2x4	DF #2 - 2x4
SECTION MODULUS (S)(IN^3)	3.06	3.06
MOMENT OF INERTIA (I)(IN^4)	5.36	5.36
TOTAL LOAD ON MEMBER (W) (PLF)	61.7	61.7
MAX. MEMBER SPAN (L) (FT)	6	6
MODULUS OF ELASTICITY (E) (PSI)	1600000	1600000
SHEAR (Fv) (PSI)	180	180
AREA (A) (IN^2)	5.25	5.25
MAX BENDING STRESS CHECK	(Fb)(Cd)(Cf)(Cr)	(Fb)(Cd)(Cf)(Cr)
BENDING (Fb) (PSI)	900	900
LOAD DURATION FACTOR (Cd)	1.25	1.25
SIZE FACTOR (Cf)	1.50	1.50
REPETITIVE MEMBER FACTOR (Cr)	1.15	1.15
ALLOWABLE BENDING STRESS (PSI)	1940.6	1940.6
ACTUAL BENDING STRESS (PSI) = $(wL^2)/(8(S))$	1088.3	1088.3
	56% OK	56% OK
MAX DEFLECTION CHECK - TOTAL LOAD	UNIFORM DISTRIBUTED	UNIFORM DISTRIBUTED
ALLOWABLE DEFLECTION	L / 180	L / 180
ACTUAL MAX DEFLECTION	0.400 IN.	0.400 IN.
	(W)(L)^4 / 185(E)(I)	(W)(L)^4 / 185(E)(I)
	0.087 IN.	0.087 IN.
	22% OK	22% OK
MAX DEFLECTION CHECK - LIVE LOAD	L / 240	L / 240
ALLOWABLE DEFLECTION	0.3 IN.	0.3 IN.
ACTUAL MAX DEFLECTION	0.3 IN.	0.3 IN.
	(W)(L)^4 / 185(E)(I)	(W)(L)^4 / 185(E)(I)
	0.087 IN.	0.087 IN.
	29% OK	29% OK
MAX SHEAR CHECK	Fv (A)	Fv (A)
ALLOWABLE SHEAR	945 LBS.	945 LBS.
ACTUAL MAX SHEAR	(w)(L)/2	(w)(L)/2
	185 LBS.	185 LBS.
	20% OK	20% OK



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5.32KW DC, 4.06KW STC-AC,
4.745KW CEC-AC

DRAWING BY	ENPHASE ENERGY
DATE	11-05-2022
PROJECT ID	006UPI
SHEET NAME	STRUCTURAL CALCS
SHEET NUMBER	S-5
REVISION	0

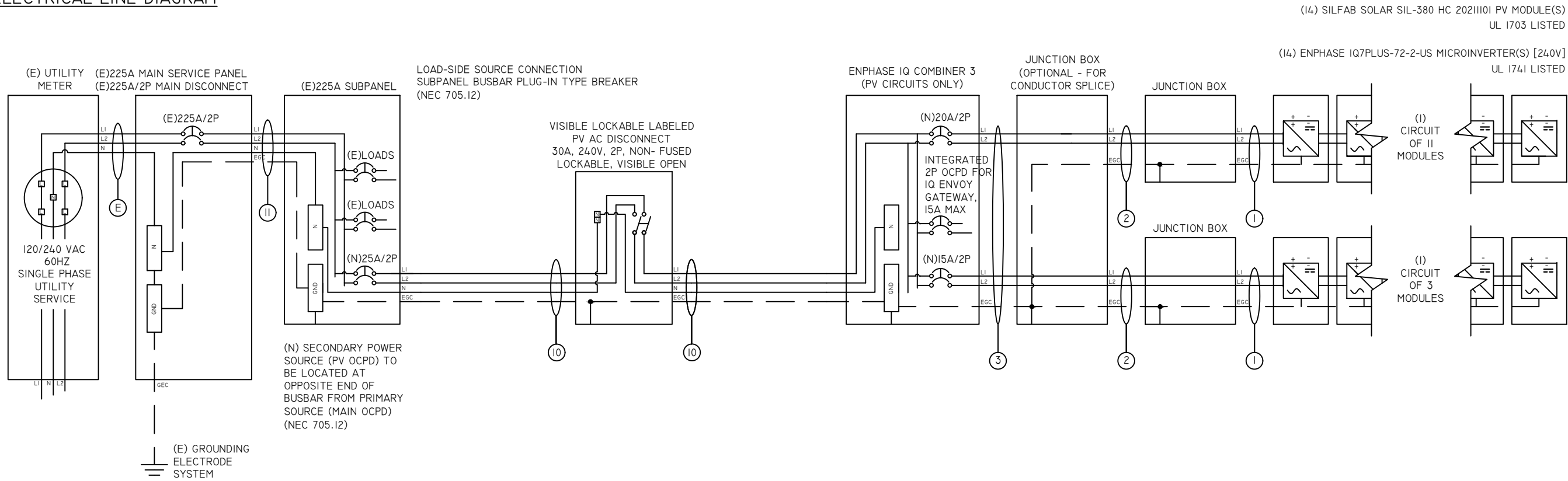
CONDUCTOR AND RACEWAY SCHEDULE

TAG	QTY	SIZE - #	TYPE	DESIGNATOR	I / V	TAG	QTY	SIZE - #	TYPE	DESIGNATOR	I / V	TAG	QTY	SIZE - #	TYPE	DESIGNATOR	I / V	TAG	QTY	SIZE - #	TYPE	DESIGNATOR	I / V
10	(1)	10 AWG	THHN / THWN, CU.	BLACK (L1)	16.9 A AC (MAX)	3	(2)	10 AWG	THHN / THWN, CU.	BLACK (L1)	13.3 A AC (MAX)	2	(1)	10 AWG	2C, NM-B W/G, CU.	(L1, L2, EGC)	13.3 A AC (MAX)	1	(1)	12 AWG	2C, TC-ER, CU.	(L1, L2)	13.3 A AC (MAX)
	(1)	10 AWG	THHN / THWN, CU.	RED (L2)	240 V AC		(2)	10 AWG	THHN / THWN, CU.	RED (L2)	240 V AC		(1)	6 AWG	SOLID BARE CU.	(EGC)	240 V AC		(1)	6 AWG	SOLID BARE CU.	(EGC)	240 V AC
	(1)	10 AWG	THHN / THWN, CU.	WHITE (N)			(1)	10 AWG	THHN / THWN, CU.	GREEN (EGC)			(1)	3/4 IN.	EMT OR FREE AIR	(RACEWAY)			(1)	3/4 IN.	EMT OR FREE AIR	(RACEWAY)	
	(1)	3/4 IN.	EMT	(RACEWAY)	EXTERIOR																		
11	(E)	3/0 AWG	THHN / THWN, CU.	BLACK (L2)	16.9 A AC (MAX)																		
	(E)	3/0 AWG	THHN / THWN, CU.	RED (L2)	240 V AC																		
	(E)	3/0 AWG	THHN / THWN, CU.	WHITE (N)																			
	(E)	6 AWG	THHN / THWN, CU.	GREEN (EGC)																			
	(E)	--	--	(RACEWAY)	EXTERIOR																		



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ELECTRICAL LINE DIAGRAM



ELECTRICAL LINE DIAGRAM NOTES

NABCEP
CERTIFIED
PV INSTALLATION PROFESSIONAL

SCOTT A. GURNEY
#PV-0117719-015866

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SITE INFORMATION:
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(14) SILFAB SOLAR SIL-380 HC 20211101
(14) ENPHASE IQ7PLUS-72-2-US
5.32KW DC, 4.06KW STC-AC,
4.745KW CEC-AC

DRAWING BY ENPHASE ENERGY	
DATE 11-05-2022	
PROJECT ID 006UPI	
SHEET NAME ELEC. LINE DIAG.	
SHEET NUMBER E-6	REVISION 0

PV SYSTEM ELECTRICAL SPECIFICATIONS AND CALCULATIONS

DESIGN LOCATION AND TEMPERATURES

TEMPERATURE DATA SOURCE	ASHRAE
STATE	TEXAS
JURISDICTION	CITY OF AUBREY
WEATHER STATION	MCKINNEY MUNI AP
ASHRAE EXTREME LOW TEMP (°C)	-10
ASHRAE 2% HIGH TEMP (°C)	37
DESIGNED MAX. SYSTEM VDROD / VRISE	4.00%

PV MODULE SPECIFICATIONS

SILFAB SOLAR SIL-380 HC 2021101	
RATED POWER (P _{MAX}) (W)	380
MAXIMUM POWER VOLTAGE (V _{MP})	35.32
MAXIMUM POWER CURRENT (I _{MP})	10.77
OPEN CIRCUIT VOLTAGE (V _{OC})	42.17
SHORT CIRCUIT CURRENT (I _{SC})	11.36
PMP/VMP TEMP. COEFFICIENT	-0.36
VOC TEMP. COEFFICIENT	-0.28
SERIES FUSE RATING	20
ADJ. MODULE VOC @ ASHRAE LOW TEMP	46.3
ADJ. MODULE VMP @ ASHRAE 2% AVG. HIGH TEMP	29.7

INVERTER SPECIFICATIONS

ENPHASE IQ7PLUS-72-2-US	
TYPE	MICROINVERTER
MAX. OR RECOMMENDED MODULE POWER (W)	440
MAXIMUM INPUT DC OPEN-CIRCUIT VOLTAGE (V _{OC})	60
MINIMUM START VOLTAGE (V)	22
MAXIMUM START VOLTAGE(V)	60
MAXIMUM INPUT CURRENT (I _{SC}) (A)	15
CEC PEAK OUTPUT POWER (W)	290
MAX. CONTINUOUS OUTPUT CURRENT (A)	1.21
NOMINAL (L-L) OUTPUT VOLTAGE	240
CEC WEIGHTED EFFICIENCY (%)	97.0%

SYSTEM ELECTRICAL SPECIFICATIONS

	CIR 1	CIR 2
NUMBER OF MODULES PER CIRCUIT	11	3
DC POWER RATING PER CIRCUIT (STC)(W DC)	4180	1140
TOTAL MODULE QUANTITY	14 PV MODULES	
STC DC POWER RATING OF ARRAY	5320W DC	
INVERTER OUTPUT CIRCUIT CURRENT(A AC)	13.31	3.63
125% INVERTER OUTPUT CIRCUIT CURRENT(A AC)	16.64	4.54
CIRCUIT OCPD RATING (A)	20	
COMBINED INVERTER CONTINUOUS OUTPUT CURRENT	16.94A AC	
PV POWER PRODUCTION SYSTEM OCPD RATING (X125%)	25A	
	4060W AC	
MAX. ARRAY STC-AC POWER (W)	(STC)	
	4745W AC	
MAX. ARRAY CEC-AC POWER (W)	(CEC)	

AC VOLTAGE RISE CALCULATIONS

	DIST (FT)	COND.	VRISE(V)	VEND(V)	%VRISE
VRISE SEC. 1 (MICRO TO JBOX) *	28.8	12 Cu.	1.5	241.5	0.64%
VRISE SEC. 2 (JBOX TO COMBINER BOX)	80	10 Cu.	2.6	242.6	1.06%
VRISE SEC. 3 (COMBINER BOX TO POI)	10	10 Cu.	0.4	240.4	0.17%
TOTAL VRISE			4.5	244.5	1.87% OK

* 8 MICROINVERTER MAX SUB-BRANCH CIRCUIT SIZE TO COMPLY WITH VRISE CALCULATIONS.

RACEWAY / CONDUCTOR CALCULATIONS

MICROINV. TO JUNCTION BOX (1)

MAX INVERTER OUTPUT CIRCUIT CURRENT =	13.3 A AC
MAX CURRENT X125%=	17.0 A AC
PER NEC 690.8(B)(1)(W/OUT CORRECTION FACTORS)	
CONDUCTOR SIZE / INSULATION / TYPE =	12 AWG 2C, TC-ER, CU.
CONDUCTOR AMP. RATING @ 90°C =	30 A
AMB. TEMP. AMP. CORRECTION =	NOT APPLIED
ADJUSTED AMPACITY COMPLIANCE (A) =	30 > 17.0 OK
RACEWAY SIZE / TYPE =	3/4 IN. EMT OR FREE AIR
CROSS-SECTIONAL AREA OF CONDUCTOR(S) / CABLE(S)(IN.^2) =	0.142 IN.^2
CROSS-SECTIONAL AREA OF RACEWAY(IN.^2) =	0.533 IN.^2
% ALLOWABLE RACEWAY FILL (NEC CHAPTER 9, TABLE I) =	53% > 27% OK

JUNCTION BOX TO JUNCTION BOX (2)

MAX INVERTER OUTPUT CIRCUIT CURRENT =	13.3 A AC
MAX CURRENT X125% =	17 A AC
PER NEC 690.8(B)(1)(W/OUT CORRECTION FACTORS)	
CONDUCTOR SIZE / INSULATION / TYPE =	10 AWG 2C, NM-B W/G, CU.
CONDUCTOR AMP. RATING @60°C =	30 A
# OF CONDUCTORS IN RACEWAY CORRECTION =	NOT APPLIED
AMB. TEMP. AMP. CORRECTION =	NOT APPLIED
ADJUSTED AMPACITY COMPLIANCE (A) =	30 > 17.0 OK
RACEWAY SIZE / TYPE =	FREE AIR

JUNCTION BOX TO COMBINER BOX (3)

MAX INVERTER OUTPUT CIRCUIT CURRENT =	13.3 A AC
PER NEC 690.8(B)(2)(WITH CORRECTION FACTORS)	
CONDUCTOR SIZE / INSULATION / TYPE =	10 AWG THHN / THWN, CU.
CONDUCTOR AMP. RATING @60°C =	35 A
# OF CONDUCTORS IN RACEWAY CORRECTION =	0.8
AMB. TEMP. AMP. CORRECTION =	0.88
ADJUSTED AMPACITY COMPLIANCE (A) =	24.64 > 13.3 OK
RACEWAY SIZE / TYPE =	3/4 IN. EMT
CROSS-SECTIONAL AREA OF CONDUCTOR(S) / CABLE(S)(IN.^2) =	0.106 IN.^2
CROSS-SECTIONAL AREA OF RACEWAY(IN.^2) =	0.533 IN.^2
% ALLOWABLE RACEWAY FILL (NEC CHAPTER 9, TABLE I) =	40% > 20% OK

COMBINER BOX TO MAIN PV OCPD (10)

COMBINED INVERTER CONTINUOUS OUTPUT CURRENT =	16.9 A AC
MAX CURRENT X125% =	21.0 A AC
PER NEC 690.8(B)(1)(W/OUT CORRECTION FACTORS)	
CONDUCTOR SIZE / INSULATION / TYPE =	10 AWG THHN / THWN, CU.
CONDUCTOR AMP. RATING @75°C =	35 A
# OF CONDUCTORS IN RACEWAY CORRECTION =	NOT APPLIED
AMB. TEMP. AMP. CORRECTION =	NOT APPLIED
ADJUSTED AMPACITY COMPLIANCE (A) =	35.0 > 21.0 OK
RACEWAY SIZE / TYPE =	3/4 IN. EMT
CROSS-SECTIONAL AREA OF CONDUCTOR(S) / CABLE(S)(IN.^2) =	0.084 IN.^2
CROSS-SECTIONAL AREA OF RACEWAY(IN.^2) =	0.533 IN.^2
% ALLOWABLE RACEWAY FILL (NEC CHAPTER 9, TABLE I) =	40% > 16% OK



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DRAWING BY
ENPHASE ENERGY

DATE
11-05-2022

PROJECT ID
006UPI

SHEET NAME
ELECTRICAL CALCS.

SHEET NUMBER
E-7

REVISION
0

RESIDENTIAL ELECTRICAL LOAD CALCULATION

OPTIONAL FEEDER AND SERVICE LOAD NEC 220.82

(1) <u>GENERAL LIGHTING AND RECEPTACLES</u> NEC 220.82(B)(1)			
FLOOR AREA (SQ. FT)	2127	x 3 VA	= 6381 VA
			6381 VA

(2) <u>SMALL APPLIANCE AND LAUNDRY</u> NEC 220.82(B)(2)			
SMALL APPLIANCE (2-WIRE)	7	x 1500 VA	= 10500 VA
LAUNDRY	1	x 1500 VA	= 1500 VA
			12000 VA

(3) <u>SPECIFIC APPLIANCES, RANGES, DRYERS, WATER HEATERS</u> NEC 220.82(B)(3)&(4)			
DRYER	30		5000 VA
OVEN	40		2400 VA
WATER HEATER	20		3840 VA

11240 VA

TOTAL GENERAL LOADS	29621 VA
TOTAL 100% FOR FIRST 10 KVA AND 40% REMAINDER	17848.4 VA

(4) <u>HEATING AND AIR CONDITIONING LOADS</u> NEC 220.82(C)			
A/C UNIT 1	40		7680 VA
A/C UNIT 2			0 VA
HEATING UNIT			0 VA
			MAX VALUE OF HEATING OR AIR CONDITIONING LOADS 7680 VA

TOTAL VA	25528.4 VA
TOTAL AMPS	106 A

OK 106 A TOTAL LOAD < 225 A MAIN OCPD



ION

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SCOTT A. GURNEY
#PV-0117719-015866

ION DEVELOPER, LLC
4801 N UNIVERSITY AVE #900 PROVO, UT 84604
888.781.7074

SAMUEL GURNARI
EC
30990

SITE INFORMATION:
SAMPATH PALREDDY
2804 WESTON ROAD
AUBREY, TEXAS 76227
(14) SILFAB SOLAR SIL-380 HC 2021101
(14) ENPHASE IQ7PLUS-72-2-US
5.32KW DC, 4.06KW STC-AC,
4.745KW CEC-AC

DRAWING BY
ENPHASE ENERGY

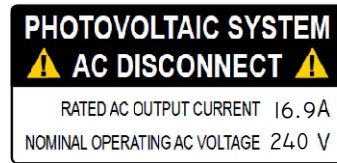
DATE
11-05-2022

PROJECT ID
006UPI

SHEET NAME
ELEC. LOAD CALC.

SHEET NUMBER E-8	REVISION 0
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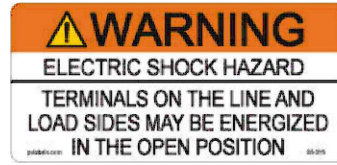
ELECTRICAL FIELD-APPLIED HAZARD MARKINGS



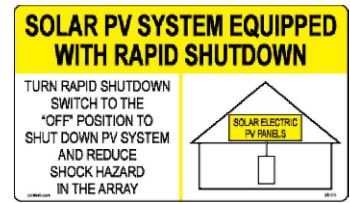
A AT EACH PV SYSTEM DISCONNECTING MEANS. [NEC 690.54, NEC 690.13(B)]



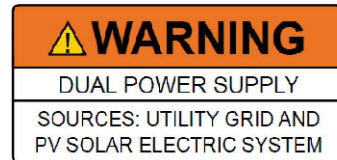
F SIGN LOCATED ON OR NO MORE THAN 3 FT FROM THE RAPID SHUT DOWN DISCONNECT SWITCH [NEC 690.56(C)].



B FOR PV DISCONNECTING MEANS WHERE ALL TERMINALS OF THE DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION. [NEC 690.13(B), NEC 705.22]



G FOR BUILDINGS WITH PV SYSTEMS. TO BE LOCATED AT EACH SERVICE EQUIPMENT LOCATION TO WHICH THE PV SYSTEM IS CONNECTED. [NEC 690.56(C)]



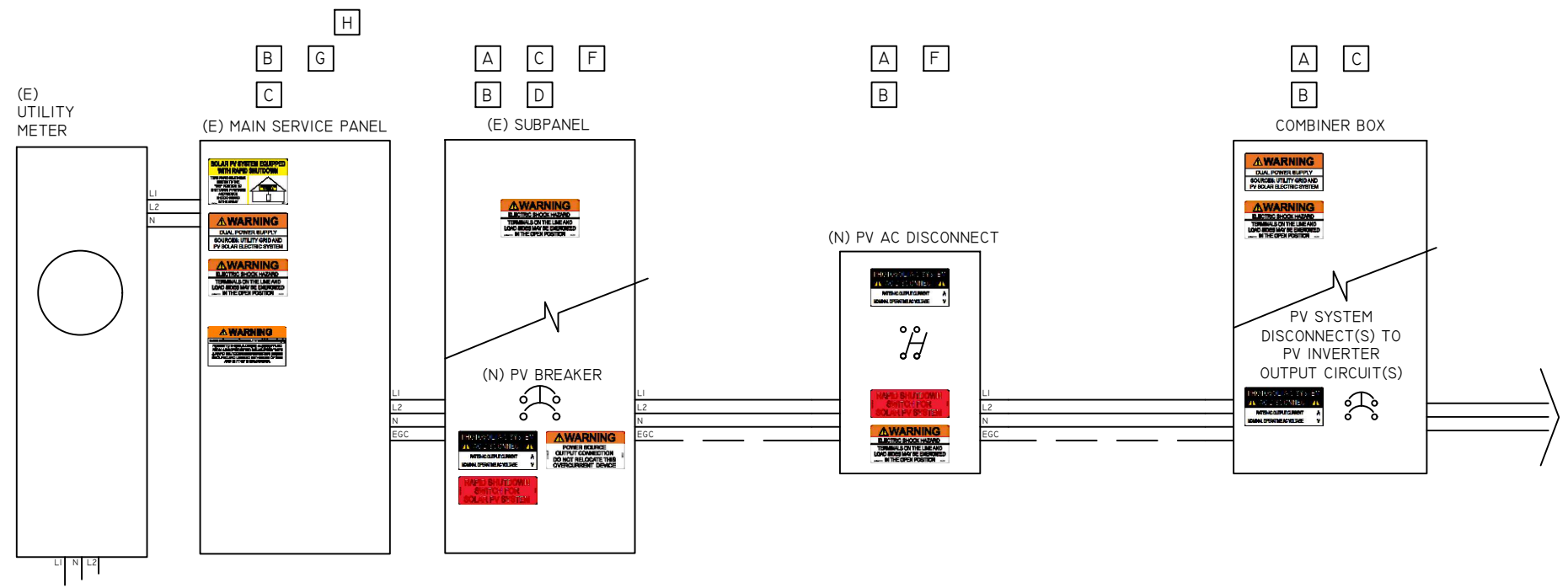
C AT EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUSBAR OR CONDUCTOR SUPPLIED FROM MULTIPLE SOURCES. [NEC 705.12(C)]



H PERMANENT DIRECTORY TO BE LOCATED AT MAIN SERVICE EQUIPMENT LOCATION IF ALL ELECTRICAL POWER SOURCE DISCONNECTING MEANS (SOLAR ARRAY RAPID SHUTDOWN SWITCH) ARE GROUPED AND IN LINE OF SITE OF MAIN SERVICE DISCONNECTING MEANS. [NEC 690.56(C) & NEC 705.10].



D PLACED ADJACENT TO PV SYSTEM PLUG-IN TYPE BREAKER TO A BUSBAR FOR A LOAD SIDE CONNECTION. [NEC 705.12(B)(3)(2)]



- ALL CAUTION, WARNING, OR DANGER SIGNS OR LABELS SHALL:
1. COMPLY WITH ANSI Z535.4-2011 STANDARDS.
 2. BE PERMANENTLY AFFIXED TO THE EQUIPMENT OR WIRING METHOD AND SHALL NOT BE HANDWRITTEN.
 3. SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
 4. UNLESS OTHERS SPECIFIED MINIMUM TEXT HEIGHT TO BE 1/8" (3MM).

ION

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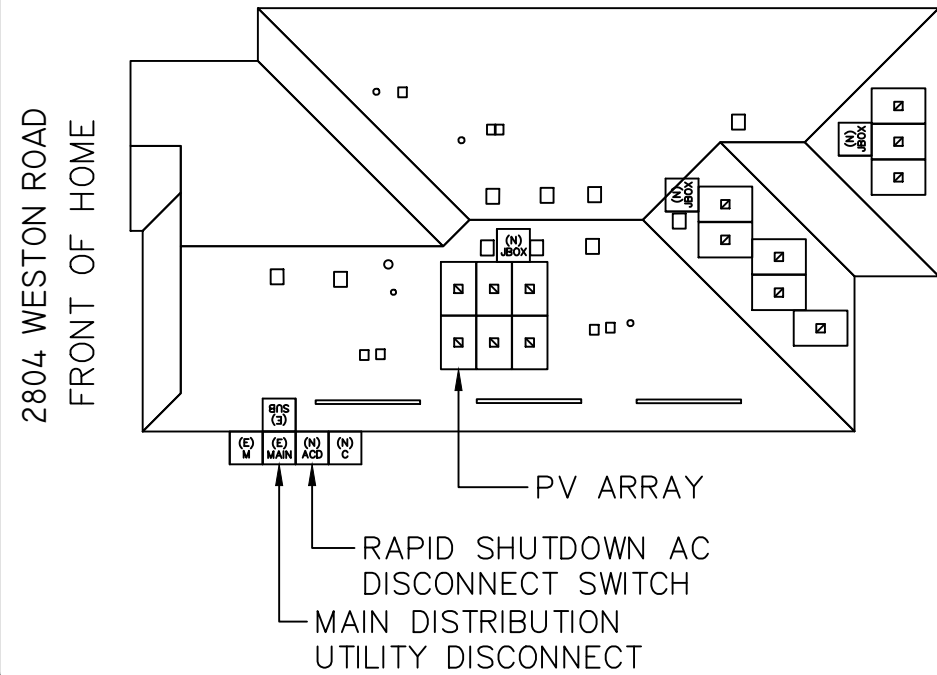
SITE INFORMATION:
SAMPATH PALREDDY
2804 WESTON ROAD
AUBREY, TEXAS 76227
(14) SILFAB SOLAR SIL-380 HC 20211101
(14) ENPHASE IQ7PLUS-72-2-US
5.32KW DC, 4.06KW STC-AC,
4.745KW CEC-AC

DRAWING BY ENPHASE ENERGY	
DATE 11-05-2022	
PROJECT ID 006UPI	
SHEET NAME ELECTRICAL LABELS	
SHEET NUMBER E-9	REVISION 0

IDENTIFICATION OF POWER SOURCES

A PERMANENT PLAQUE OR DIRECTORY TO BE INSTALLED AT EACH SERVICE EQUIPMENT LOCATION DENOTING THE LOCATION OF EACH POWER SOURCE DISCONNECTING MEANS AND SHALL INDICATE THE LOCATION OF RAPID SHUTDOWN INITIATION DEVICES. FOR THE BUILDING OR STRUCTURE AND BE GROUPED WITH OTHER PLAQUES OR DIRECTORIES FOR OTHER ON-SITE SOURCES. ALL MARKING TO COMPLY WITH 110.21 (B). (NEC 705.10)

CAUTION: MULTIPLE SOURCES OF POWER.
 POWER TO THIS BUILDING IS SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN:



ION

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NABCEP CERTIFIED
 PV INSTALLATION PROFESSIONAL

Signature SCOTT A. GURNEY
 #PV-0117719-015866

ION DEVELOPER, LLC
 4801 N UNIVERSITY AVE #900 PROVO, UT 84604
 888.781.7074

SAMUEL GURNARI
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SITE INFORMATION:
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 (14) ENPHASE IQ7PLUS-72-2-US
 5.32KW DC, 4.06KW STC-AC,
 4.745KW CEC-AC

DRAWING BY ENPHASE ENERGY	
DATE 11-05-2022	
PROJECT ID 006UPI	
SHEET NAME ELEC. DIRECTORY	
SHEET NUMBER E-10	REVISION 0



Net Metering <netmetering@ionsolar.com>

Verification Request | Chiluka | 2804 Weston Road, Aubrey, Texas, 76227

Laura Henggeler (CoServ) <solar@coserv.com>
Reply-To: CoServ <solar@coserv.com>
To: Netmetering <netmetering@ionsolar.com>

Fri, Aug 5, 2022 at 1:29 PM

##- Please type your reply above this line -##

Your request (1223863) has been updated.

Laura Henggeler (CoServ)

Aug 5, 2022, 2:29 PM CDT

The member residing at [2804 Weston Road, Aubrey, Texas, 76227](#) has installed photovoltaics on his home and they have been inspected by CoServ.

CoServ can verify that the system is in compliance with the standards set forth by the CoServ Distributed Generation Manual.

CoServ has installed a bi-directional meter in accordance with the Distributed Generation Manual, and interconnection to CoServ's system has been completed.

[Quoted text hidden]

[Quoted text hidden]

CUSTOMER CARE: (940) 321-7800 • OFFICE HOURS: Mon–Fri 8–5

PAY BILL • HELP CENTER • CONTACT US

[E2GL7D-L5XZD]

ION SOLAR



Sampath Palreddy
2804 Weston Road Aubrey,
Texas 76227

Completed By: Neco Bonham
Jun 10, 2022

Customer Information

Customer Name: Sampath Palreddy

Survey Address: 2804 Weston Road Aubrey, Texas 76227

Assessment Date: Jun 10, 2022

Survey Type: Installation - Standard 6kw

Survey Tech: Neco Bonham

Salesforce Project Name: Palreddy, Sampath - 2804 Weston Road

General Install

Names of crew members and electrician:: neco Cartier leo

Did you roll a truck to the home?: Yes

Any issues, damages, or customer concerns to report?: No

Ready for Inspection?: Yes

Inspection paperwork left onsite? Yes

Yard sign placed or given to customer? No

Did you get the install survey completed with the customer? No

Photo of yard sign:

Take a full house photo from the street/ground of the panels for marketing.:



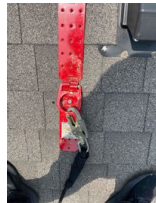
Picture of Job Hazard Analysis:

Picture showing front of home with address visible (street curb, mail box, front door):

Mounts and Racking

Pre-install: Any existing damage on roof where solar panels will be located? No

Anchor Tie-Off:



Anchor Tie-Off (Sealing After Removed):



Installer Harnessed &

Tied Off (1
Photo):

Flashing
SEALING
BEFORE LAY:



Flashing AFTER
SEALING:



Clamps to
Racking (2
Photos):



Mounts and
Racking fully
complete?: Yes

Description of
damage::

Photos of
existing roof
damage:

What additional
work is needed?:

How long will
this take to
complete?:

Do we need to
order special
equipment for
it?:

How many
people are
needed and what
skill level should
they have?
(inspections tech,
crew, electrician,
etc):

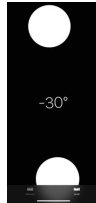
Panels

Number of panels installed:: 14

Site survey performed correctly?: Yes

Any changes to roof layout or roof design?: Yes

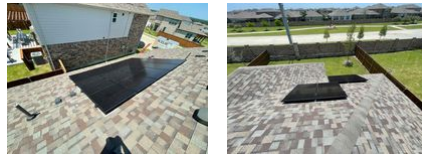
Array Tilt (1 Photo for each Array):



Back of Solar Panel (Show Serial Number, Watts of Panel That Correspond with Customer):



ARRAY PHOTOS (ALL ARRAYS/PANELS! Photos must be clear enough so that each panel can be counted.):



Roof Checked post-install for Broken Tile, Tools, Trash, etc? yes

Panels fully complete?: Yes

What was wrong with the site survey?:

What changed?: 4 panels where added to the 6 panel array

What additional work is needed?:

How long will this take to complete?:

Do we need to order special

equipment for it?:

How many people are needed and what skill level should they have? (inspections tech, crew, electrician, etc):

Wire Management

Wire Management (1 Photo per Array):



Roof Clearance (1 Photo for each array):



Inverter(s) (2 Photos):



Wire management (trunk, inverters, etc) fully complete? Yes

What additional work is needed?:

How long will this take to complete?:

Do we need to order special equipment for it?:

How many people are needed and what skill level should they have?

(inspections tech,
crew, electrician,
etc):

Attic Run

Attic or Soffit
Entrance and
Penetration: **Yes**

Are there Roof
Conduit Runs?: **No**

Are their Attic
Runs?: **Yes**

Attic run fully
complete?: **Yes**

Show Photo:



Show Roof
Conduit Runs
(As Many Photos
as Necessary):

Show attic runs
(As Many Photos
as Necessary):

What additional
work is needed?:

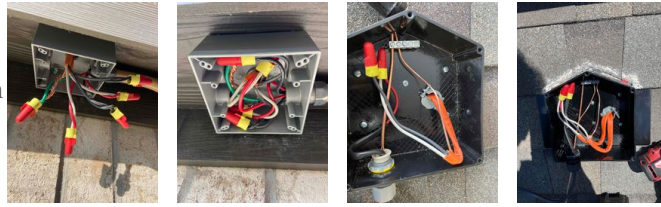
How long will
this take to
complete?:

Do we need to
order special
equipment for
it?:

How many
people are
needed and what
skill level should
they have?
(inspections tech,
crew, electrician,
etc):

Boxes Mounted

Roof
Combiner/Transition
Box/J-Box (2
Photos):



Is there a PV
Combiner
Panel/AC
Combiner Box?: No

Is there a DC
Disconnect?: Yes

AC Disconnect -
Open (1 Photo):

AC Disconnect -
Closed (1 Photo):

PV Combiner
Panel/AC
Combiner Box (3
Photos - 1 Box
Open, 1 Box
Closed, 1
Showing
Amperage):

DC Disconnect
Pictures (2
Photos):



Homerun Conduit

Home Run
Conduit (As
Many Photos as
Necessary):



Home Run
Conduit fully
complete?: Yes

What additional
work is needed?:

How long will

this take to complete?:

Do we need to order special equipment for it?:

How many people are needed and what skill level should they have? (inspections tech, crew, electrician, etc):

Conduit Painted

Was the conduit painted?: Yes

Photo of painted conduit.:



Why not?:

How long will this take to complete?:

Do we need to order special equipment for it?:

How many people are needed and what skill level should they have? (inspections tech, crew, electrician, etc):

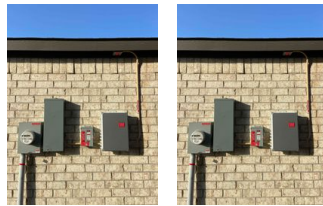
Interconnection

Groundwork, MSP Checked post-install for Damage, Tools, Trash?: yes

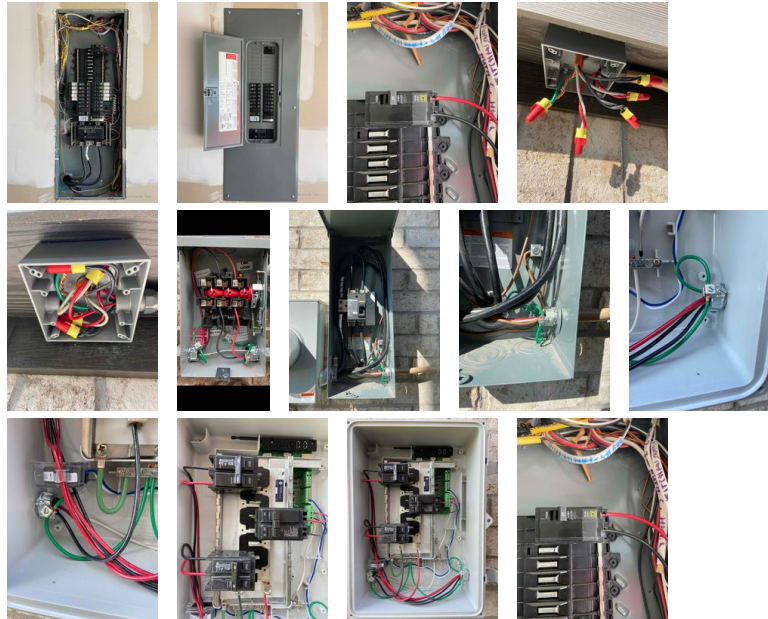
Any changes to electrical design or 1-line diagram (including breaker size or wire size)?:

No

Groundwork Wall (2 Photos):



Bonding (As Many Photos as Necessary):



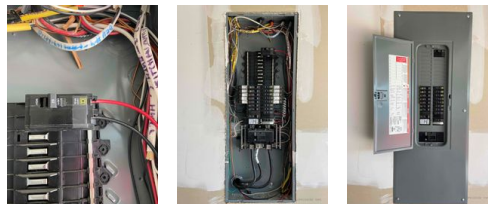
Did we Install Ground Rod(s)?:

No

Is there a Utility Generation Meter?:

Yes

Interconnection (3 Photos - Deadfront On, Deadfront Off, Showing Amperage):



Interconnection fully complete?:

Yes

What changed?:

Photo of ground rods::

Enter the utility 240

generation meter
VOLTS:

What additional
work is needed?:

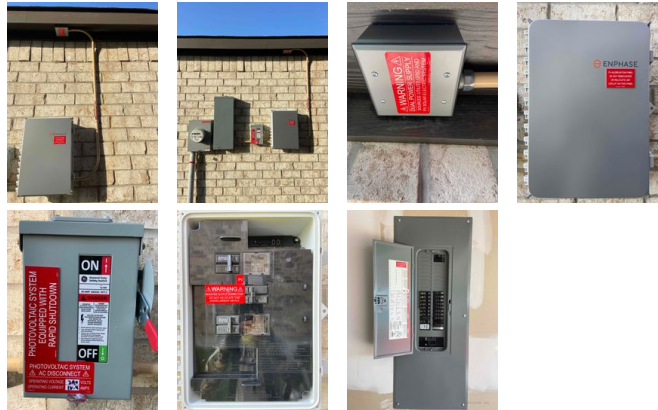
How long will
this take to
complete?:

Do we need to
order special
equipment for
it?:

How many
people are
needed and what
skill level should
they have?
(inspections tech,
crew, electrician,
etc):

Stickers, Placards, Labels, Brass Tags, Paperwork

Show LEGIBLE
photos of all
brass tags,
stickers, and
placards placed:



Sticker with
Volts and Amps
Filled out:



Stickers,
placards, labels,
and brass tags
fully complete?: **Yes**

What additional
work is needed?:

How long will
this take to

complete?:

Do we need to order special equipment for it?:

How many people are needed and what skill level should they have? (inspections tech, crew, electrician, etc):

Show Photos of Inspection paperwork left onsite. (Depending on market requirements, in the ENVOY or zip-tied to the utility meter):



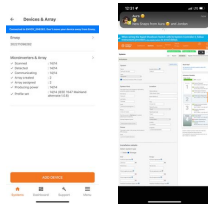
Envoy Provisioning

Envoy Meter photo showing serial number legibly:



Envoy meter serial number: 202211096282

Microinverter Maps and Serial Numbers:



Envoy fully provisioned?: Yes

What additional work is needed?:

How long will this take to complete?:

Do we need to

order special
equipment for
it?:

How many
people are
needed and what
skill level should
they have?
(inspections tech,
crew, electrician,
etc):

Notes

General notes
about the
project::

Customer - sampath palreadyy Panels - 14 Crew - Neco Cartier
Electrician - leo Envoy provisioned - yes Pictures uploaded - yes All
stickers - yes Conduit painted - yes Paperwork left on site - yes Survey
- n\a Post install call - ye



INSPECTION REPORT



PROJECT ADDRESS & CITY 2804 Weston Rd., Aubrey, Denton County, TX 76227		PROJECT NUMBER 2022-015671
SUBDIVISION / BUSINESS NAME Unknown	CLIENT City of Aubrey	

Reinspection required for Partial Pass or Failed inspections

Electric Final -- Passed
 Building Final -- Passed

PERMIT NUMBER	INSPECTOR	INSPECTOR'S PHONE	DATE
Building - 20221589	Robert Smith - I-3083	(469)543-5627	07/20/2022

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INSPECTION REQUEST
TOLL FREE: (877)837-8775
FAX (877)8859