PLAINFIELD ZONING BOARD OF ADJUSTMENT NOTICE OF DECISION

Joseph Paduda 29 Barker Road Plainfield NH 03781

Case 21-01

You are hereby notified that the appeal by **Joseph Paduda** for special exception #24 Approved Solar Energy System to establish two ground mounted solar arrays (sun tracker type) on property described as #29 Barker Road (map 213 lot 214) has been **granted** by the affirmative vote of at least three members of the Zoning Board of Adjustment. In reaching this decision, the Zoning Board has relied on the representations made in the application, and testimony received at the June 14th public hearing.

As part of its review of this application the board made the following findings:

- 1) The lot is a relatively large Village Residential lot (3.8 acres) and is well screened.
- 2) No clearing of trees is anticipated, and the arrays are not expected to have significant effect on neighbors.
- 3) The application satisfies the general standards for granting a special exception found in section 5.6II of the zoning ordinance and the specific criteria found in section 3.18 Solar Energy Systems.

Approval Conditions:

- 1) A vegetative buffer suitable to maintain a visual screen from the array will be maintained along the property side and rear lines.
- 2) Any significant change to the array either in size, condition of or effectiveness of screening, as determined by the Zoning Administrator, will require a new hearing.

Richard Colburn, Chairman

Zoning Board of Adjustment

Date: 18 June 2021

Attachment: list of master electrician subcontractors

Primary Electricians:

Alexander Cherington

NH: 2121M VT: EM-02270 ME: MSS60018642 2209 Sawnee Bean Road Thetford Center, VT 05075

(802) 356-5795

Gray Electric 30 Plateau Acres Bradford, VT 05033 NH Lic # 0387C (Corporate License) Robert Kruse - Master Electrician (802) 222-1592 /

kruserobert25@gmail.com

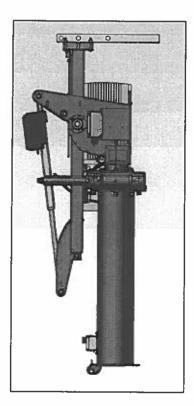
Alternate electrical subcontractors:

Chris Snider
NH Lic # 13893M
Simple Energy
112 N. Main St.
West Lebanon, New Hampshire 03784
(603) 298-7200

OR

Richard Electric NH Lic # 8366M PO Box 999 Wilder, Vermont 05088 (802) 295-3894 OR

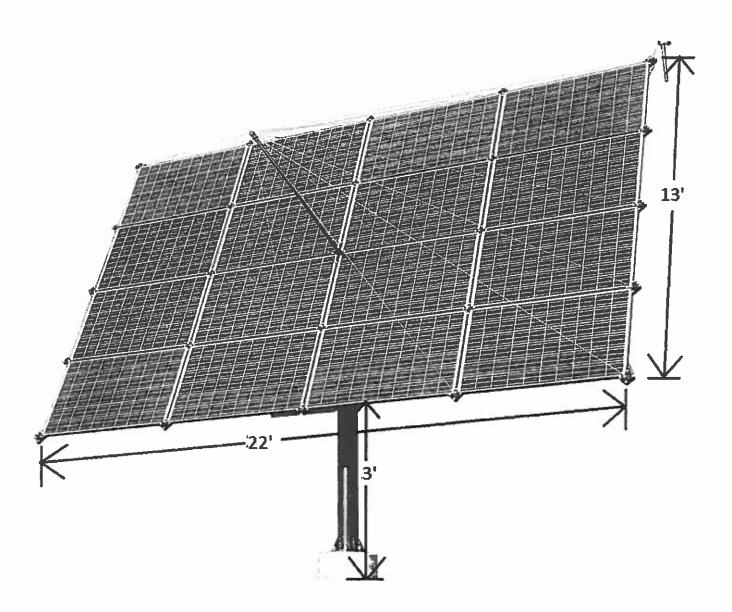
Reginald Cramer Cramer Electric Co., Inc. NH Lic # 4063M VT Lic # EM-2325 461 Lake Morey Rd, #3 Fairlee, VT 05045 (802) 333-4144

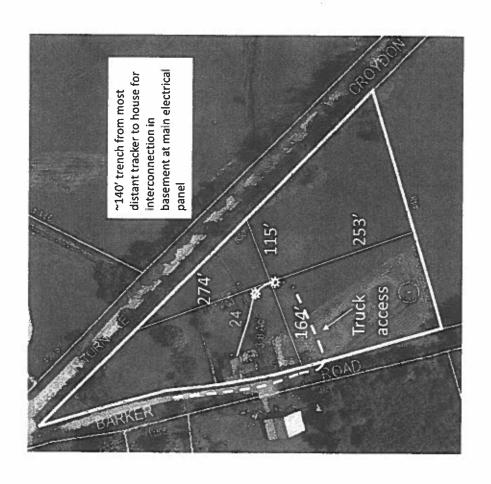


TECHNICAL SPECIFICATION

	Residential	Commercial
Output	6.0kW DC, 240 V AC single-phase	4.08 kW DC, 208/480 V AC three-phase
Inverter (single tracker)*	Fronius Primo 6.0-US (6 kW AC)	n/a
Inverter (multi-tracker)*	Fronius Primo 6.0-US (6 kW AC)	SolarEdge SE10KUS (10 kW AC) and SE20KUS (20 kW AC)
Modules*	16 LG380A1C-V5 PV Modules	16 CanadianSolar CS6P-255P (255 W)
Optimizer*		8 SolarEdge P600 (600W)
Power monitoring	or Fonius Monitoring portal (website)	
Tracking type	Oual axis with automatic wind stow (>20 mph)	
Drive system	LINAK LA37 sealed electric linear actuator (IP66, maintenance free), Kinematics Manufacturin ZKE9C sealed electric slew drive zero-backlash (IP66, maintenance free)	
Control system	Solaflect Tracking Controller utilizing NREL Solar Position Algorithm, network enabled	
Materials	Powder coated steel, reinforced concrete	
Dimensions	Height 17 ft, swing radius 11.5 ft	
Maximum wind speed^	105 MPH Ultimate Wind Speed	
Codes and standards	NEC, UL, NEMA, CE, FCC	
Patents	Patents and patents pending	







STRUCTURAL GENERAL NOTES - APPLICABLE TO ALL CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS A. GENERAL REQUIREMENT: D. CONCRETE: 1. MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE IS 4000 PS. PSE recommends that the construction be performed by a licensed contractor who has at least 5 years of remodeling experience with similar projects. Contractor shall submit a list of similar projects to the owner before proceeding with construction. Furnish all labor, materials, and equipment necessary to complete the work shawn or inferred by these dramians. 200 All concrete work shall conform to the American Concrete institute's Standard Building Code Requirements for Structural Concrete, ACI 318, in the above Code Place concrete in accordance with PSE Cresultera Engineers, Inc drowings. Where construction details are not shown or noted for any part of the work, such details should be the same as for similar work shown on the drowings. Notes and details on the drowings take precedence over the general motes and typical details in case of conflict. conflict. Pipez, ducts, sleeves, choses, etc. shall not be placed in slabs, beams, or walls unless specifically shown or 4. All exposed sate All interior conci 5 Reinforcing Steek noted. Locale and protect underground or conceded conduit, plumbing or other utilities where new work is being performed. The controcal drawings and specifications represent the finished structure and do not indicate methods, procedures or sequence of construction. The controctor shall take necessory precoutions to menitors and insure the integrity of the new and any existing structures during construction. The design stresses shall not be exceeded during construction based an the age of each stement. Neither the owner nor Architect/Engineer with enforce sofety measure regulations. Contractor shall design, construct and maintain of sofety devices, including shoring and broding for the new and any existing structures and shall be sofety responsible for conforming to all local, sited and federal safety and health standards, lews and regulations. The controctor has approved for any changes to the drawings. The controctor shall werity dimensions, servational drawings, specifications, etc. Do not scale drawings, specifications, etc. Do not scale drawings, specifications, etc. Do not scale drawings, specifications, and the controctor shall werity dimensions, servations and local resolutions, and shall be soft of conditions and allow for the Architect/Engineer of automations. Report, in writing, ony inconsistencies, errors, or amissions to the Architect/Engineer of automations. Report, in writing, ony inconsistencies, conditions and allow for them in his side Maility the Architect/Engineer, in writing, in case of any discrepancy between actual conditions and what is shown on they structural drawings before proceeding with the work. It see Architectural, Mechanical, Electrical and other drawings for embedded items. 2. Shop drawings shall be submitted to the Architect/Engineer are not Change Orders. 2. Shop drawing shall be submitted to the Architect/Engineer are not Change Orders. 2. Shop drawing shall be submitted to the Architect/Engineer are not Change Orders. 3. Barnboo roof, wall and floor ponels 4. Barn noted. Locate and protect underground or concealed conduit, plumbing or other utilities where new work is being In Silect. All reinforcing steel shoft be ASTM ASTS Grode 60. Where welding of rebor in required by those drawings, steel sholl be pre-healed or steel grade SO-W, ASTMA708 sholl be used. Bors marked continuous and all vertical steel shall be lopped 55 ber diameters at splices UON on the drawings. Vertical bors shall be doweled to supporting members with the same site and spacing of reinforcing in grade beams shall be continuous. Lop top steel at midspan, Lop bottom steel at supports. Project FOUNDATION TALL ASSY (d) (e) at supports or supports. All reinforcing bors sholl be in the correct place, tied and secured prior to concrete placement Use chairs, spacers and sand plates as required. (1) S Execution: (d) All concrete is reinforced concrete unless specifically called out as the contract of concrete not otherwise. 6 Execution; (d) All concrete is reinforced concrete unless specifically called out as "Unreinforced". Reinforce oil concrete not otherwise shown with some steel as in similar sections or areas. 7. Standard concrete cover of bors unless otherwise noted shall be; (a) Where earth formed: 3 Inches. (b) Board formed then permanently expased to earth or weather; 2 inches Chent SOLAFLECT ENERGY 8. Stump shall not be more than 4 Inches. 9. Water/Cement ratio shall not asceed 0.45. 10. All concrets shall be consolidated with mechanical vibrators. 11. The unit of pour for foundation walls and footings shall not exceed 80 linear feet in any one direction. 12. Construction joints shall be deserted and keyed. 13. No Aluminium or gobonized steel items shall be in contact with the reinforcing steel. 14. Practice for Curing Concrete, ACI 308, ACI 318 and as approved by the Engineer. 15. When on't emperature is obove 80 degrees Fohrenheit, Hot Weather Concreting ACI 305R shall apply When the overage oir temperature is below 40 degrees Fohrenheit, Cold Weather Concreting, ACI 305R shall apply 0-15-202 MANUAL STATES 1.3 All communication shall be in writing. No verbal communications, decisions, instructions or approvate shall be valid. FOUNDATION 1. The building shall bear on a soil with minimum allowable bearing capacity of 1500 PSF, contractor to verify. Due to the lack of specific geotechnical information for this site, a geotechnical soil investigation is recommended. PSE is not responsible for any future defects resulting from unreported condition mitigating the above assumption. 2. Soft soil shall or fill material shall be removed and replaced with competent granular engineering fill. The new fill shall be compacted in all layers to gain 98% of its maximum dry density according to ASTM D-698 standard proetor, and be capable of supporting the above bearing capacity. 3. Footing shall be stepped as required to maintain minimum required frost depth, FD, below finished grade. 4. When the finished crawl space elembine in layer than the property of the property o B. FOUNDATION E. ABBRE VIA TIONS: AB MCHOR BOLT ADDL ADDRIGHAL ALT ALTERNATE PLYMOOD ASSOCIATION ARCH ARCHITECTURAL BOLK BISCOCING BN BOUNDARY NAULING BOF BOTTOM OF FOOTING CL CONTTO CONTROL LOWIT CL CRITER LINE CLE RE CLEAR CLEA FROST DEPTH FROST DEPTH FLOOR SHEADANG FRESURE TREATED FIT FLOOR SHEADANG FRESURE TREATED FRESURE TREATED FRESURE TREATED FRESURE TREATED FRESURE TREATED FRESURE FRES E. ABBREVIATIONS: FEN 1 07-31-202 FF FN FTG GALV HORNZ ICBO tinished grade. When the finished crawl space elevation is lower than the outside finished grade, or when it is required by the Geolechnical investigative report, or the building department, provide 4 inch diam perforated drain pipe below the top of the facting. Encase the pipe in 18X8 inches free—drain crushed stone and fabric at the perimeter of the crushed stone. LCST MAX MFR MD. NTS OC OH OSO OSV PL PSE Solaffeet Energy ZAFT C. INSPECTION: I All construction shall be inspected by the building officials occording to the above Code. 2. It is recommended that the owner or contractor hire Precision Structural Engineering or other Qualified Ucenced Inapectars to provide inspection during construction. GENERAL VOTES S1.0