

LEAD ID: 97219

NEW CONSTRUCTION SUMMARY

- (36) (SUNPOWER SPR-E20-327-E-AC) SOLAR MODULES, 11.8 kW DC STC
MODULE DIMENSIONS = 41.2" X 61.4" X 1.81"
- (36) SUNPOWER SPR-E20-327-E-AC [240V] PV INVERTERS
COMBINED INVERTER OUTPUT = 11.3 kW AC.
- (1) SUNPOWER MONITORING
- (2) TESLA POWERWALL 2.0 BATTERY
- (1) TESLA ENERGY GATEWAY 2.0
- (1) GENERATION PANEL

EXISTING CONSTRUCTION SUMMARY

- (40) (EXISTING) SOLAR MODULES, (E) kW DC STC
MODULE DIMENSIONS = EXISTING
- (01) EXISTING [240V] PV INVERTERS
COMBINED INVERTER OUTPUT = (10.0) kW AC.

NEW SITE DETAILS

ARRAY #1 - TILT = 30°, AZIMUTH = 180°

INSTALLATION DIFFICULTY = 16 => VERY HARD

EXISTING SITE DETAILS

ARRAY #2 - TILT = 30°, AZIMUTH = 180°

DESIGN CRITERIA:
130 MPH VULT, EXPOSURE C,
BELOW 7000' SNOW LOAD = 30 PSF GROUND / 20 PSF ROOF,
ABOVE 7000' SNOW LOAD = 40 PSF GROUND / 27 PSF ROOF

CONSTRUCTION NOTES

- 1.) ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2.) ALL OUTDOOR EQUIPMENT SHALL BE RAIN-TIGHT WITH MINIMUM NEMA 3R RATING.
- 3.) ALL LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION.

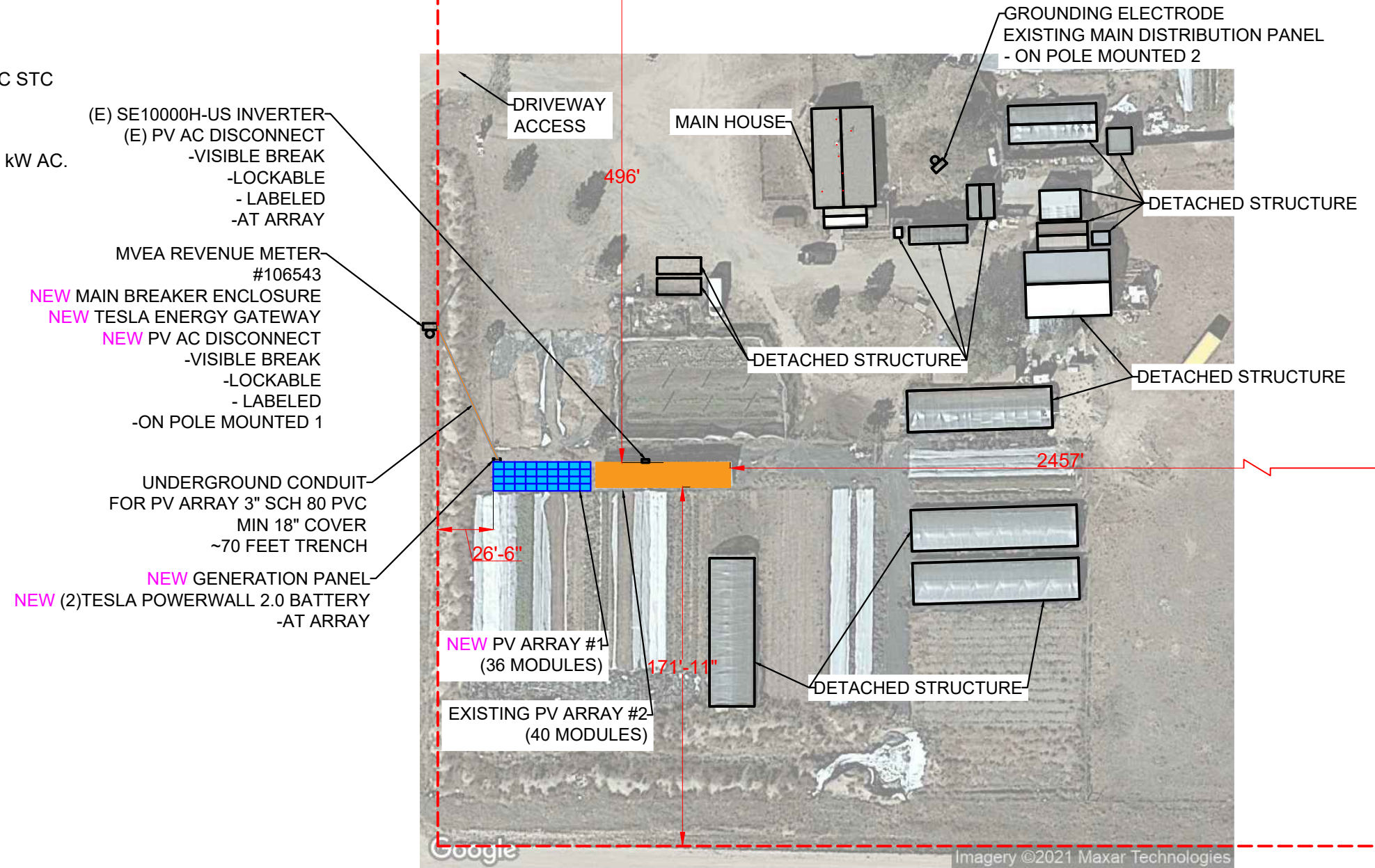
ADD21965

Not Required
BESQCP
12/17/2021 8:26:09 AM
dsdyounger
EPC Planning & Community
Development Department

APPROVED
Plan Review
12/17/2021 8:26:22 AM
dsdyounger
EPC Planning & Community
Development Department

It is the owner's responsibility to coordinate with easement holders to avoid impact to utilities that may be located in the easements.

ANY APPROVAL GIVEN BY EL PASO COUNTY DOES NOT OBLIVATE THE NEED TO COMPLY WITH APPLICABLE FEDERAL, STATE, OR LOCAL LAWS AND/OR REGULATION. Planning & Community Development Department approval is contingent upon compliance with all applicable notes on the recorded plat. An access permit must be granted by the Planning & Community Development Department prior to the establishment of any driveway onto a County road. Diversion of blockage of any drainage way is not permitted without approval of the Planning & Community Development Department.



DESIGN BY:
FREEDOM SOLAR, LLC

REVISIONS		
DESCRIPTION	DATE	REV
DESIGN PACKET	10/08/2021	A
DESIGN PACKET	12/10/2021	B

CONTRACTOR

FREEDOM SOLAR POWER
FREEDOM SOLAR LLC
4801 FREIDRICH LN, STE 100
AUSTIN, TX 78744
TECL # 28621
TBPE FIRM # F-17690

PROJECT NAME

CAMIRE, RYAN
7545 N LOG ROAD
PEYTON, COLORADO, 80831
(719) 290-9801

SHEET NAME

SITE MAP & PV LAYOUT

SHEET SIZE

ANSI B
11" x 17"

SHEET NUMBER

PV-1

Released for Permit
12/16/2021 9:42:09 PM
REGIONAL Building Department
danm
CONSTRUCTION

SCOPE OF WORK

TO INSTALL A SOLAR PHOTOVOLTAIC (PV) SYSTEM AT THE CAMIRE RESIDENCE, LOCATED AT 7545 N LOG ROAD, CO, TEXAS. THE POWER GENERATED BY THE PV SYSTEM WILL BE INTERCONNECTED WITH THE UTILITY GRID THROUGH THE EXISTING ELECTRICAL SERVICE EQUIPMENT. THE PV SYSTEM DOES INCLUDE STORAGE BATTERIES.

NEW SYSTEM RATING

11.8 kW DC STC
11.3 kW AC

EXISTING SYSTEM RATING

N/A kW DC STC
10.0 kW AC

NEW EQUIPMENT SUMMARY

(36) SUNPOWER SPR-E20-327-E-AC PV MODULES
(36) SUNPOWER SPR-E20-327-E-AC [240V] PV INVERTERS
(398) (37 X 14') LINEAR FEET 14' IRONRIDGE XR1000
(18) (37 X 14') LINEAR FEET 14' IRONRIDGE XR1000
(656) (61 X 10.75') LINEAR FEET SUNPOWER INVISIMOUNT

EXISTING EQUIPMENT SUMMARY

(40) EXISTING PV MODULES
(1) EXISTING SE10000H-US [240V] PV INVERTERS

SHEET INDEX

PV-0 COVER
PV-1 SITE MAP & PV LAYOUT
PV-2 STRING MAP & MONITORING LAYOUT
PV-2A STRING MAP & MONITORING LAYOUT
PV-3 ELECTRICAL DIAGRAM
PV-4 EQ WALL
PV-4A RACKING PLAN
PV-5 SYSTEM LABELING DETAIL
PV-6 SITE DIRECTORY PLACARD
PV-7 SAFETY PLAN

GOVERNING CODES

2020 NATIONAL ELECTRICAL CODE
2015 INTERNATIONAL RESIDENTIAL CODE
UNDERWRITERS LABORATORIES (UL) STANDARDS
OSHA 29 CFR 1910.269

REVISED

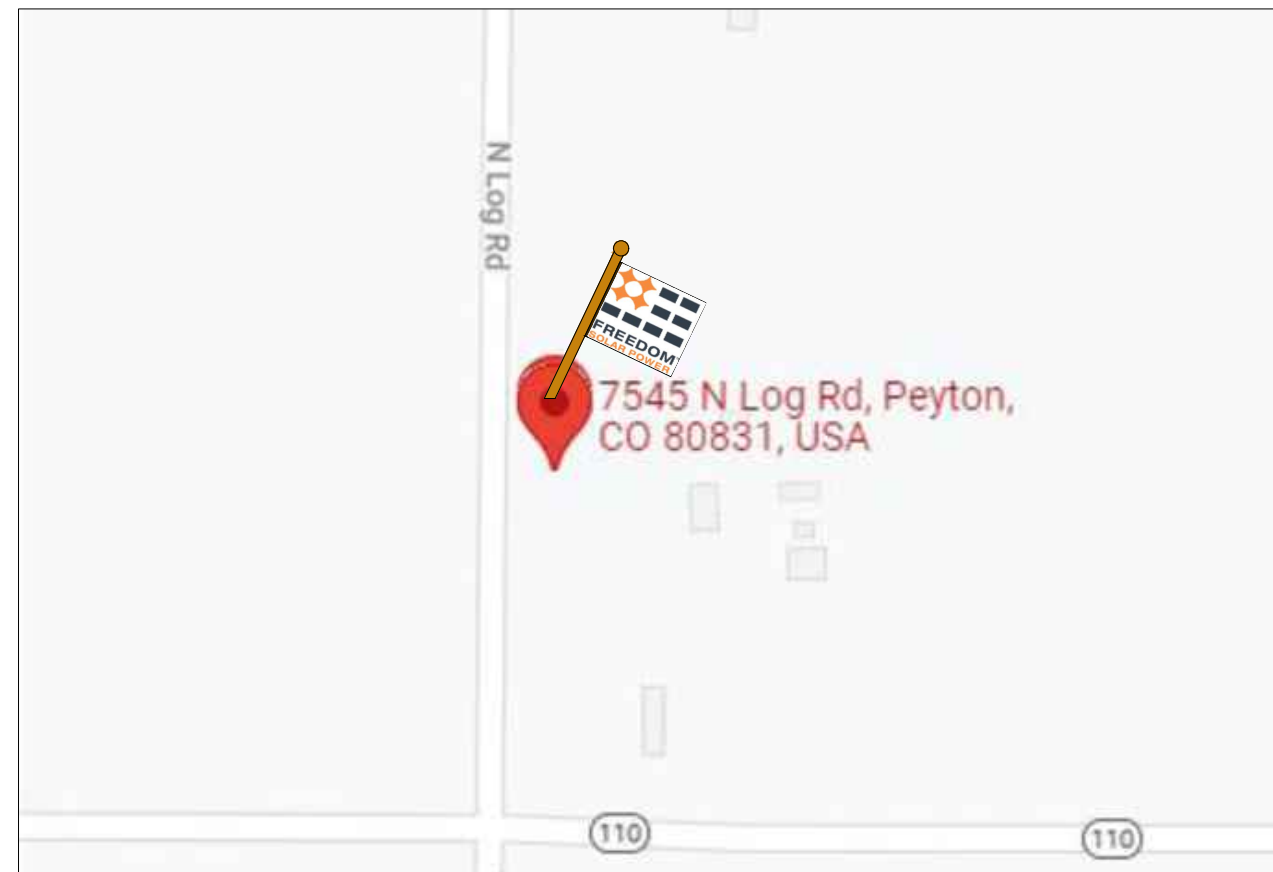
2:17 pm, Dec 10, 2021

REVIEWED

By Torrin Glick at 9:31 am, Oct 11, 2021



PROJECT LOCATION



VICINITY MAP

DESIGN BY:
FREEDOM SOLAR, LLC

REVISIONS

DESCRIPTION	DATE	REV
DESIGN PACKET	10/08/2021	A
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CONTRACTOR

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SOLAR POWER
FREEDOM SOLAR LLC
4801 FREIDRICH LN, STE 100
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PROJECT NAME

CAMIRE, RYAN
7545 N LOG ROAD
PEYTON, COLORADO, 80831
(719) 290-9801

SHEET NAME

COVER

SHEET SIZE

ANSI B
11" x 17"

SHEET NUMBER

PV-0


RESIDENTIAL



2017 PPRBC

Address: 7545 LOG RD, PEYTON

Parcel: 3300000266

Plan Track #: 154621 

Received: 23-Nov-2021 (ANDREAL)

Description:

PV SOLAR - GROUND MOUNT

Contractor: FREEDOM SOLAR, LLC

Type of Unit:

Required PPRBD Departments (3)

Floodplain
N/A
11/24/2021 8:16:18 AM
Pikes Peak
REGIONAL
Building Department
keith
FLOODPLAIN

Construction
Released for Permit
12/16/2021 9:42:16 PM
Pikes Peak
REGIONAL
Building Department
danm
CONSTRUCTION

Electrical
Released for Permit
12/16/2021 9:34:22 AM
Pikes Peak
REGIONAL
Building Department
Daniel G
ELECTRICAL

Required Outside Departments (1)

County Zoning
APPROVED
Plan Review
12/17/2021 8:27:04 AM
dsdyounger
EPC Planning & Community
Development Department

Release of this plan does not preclude compliance with all applicable codes, ordinances and other pertinent regulations. This plan set must be present on the job site for every inspection.