

HTE #: ERES2207-0038 2

HARNETT COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH
307 CORNELIUS HARNETT BOULEVARD
LILLINGTON, NC 27546

EXISTING SEPTIC SYSTEM INSPECTION

Name: 365 Solar Energy Phone #: (704)253-0934

Address: 608 Rountree Rd Charlotte, NC 28217

Name of Mobile Home Park or S/D: Tyrone Ray Cobb - Lot 2

Name of Owner (if different): Devon Dodd

Address of Owner (if different): 2200 Sheriff Johnson Rd. Lillington, NC 27546

Property Location (State Road name and #): 2200 Sheriff Johnson Rd (SR 1576)

Purpose of Inspection: 438 sq. ft Ground Mounted Solar Panels w/ Transfer Switch

The aforementioned site has been evaluated by the Harnett County Health Department Environmental Health Section. At the time of inspection, there appeared to be a septic system serving this site. If the system should malfunction, the owner is responsible for any necessary repairs.

THIS INSPECTION IS VOID IF:

1. the intended use of the septic system should change, and/or
2. the system should fail or malfunction, and/or
3. the owner or tenant of the property change, and/or
4. after six months

**BUILDING MUST BE 5' FROM ANY PART OF SEPTIC SYSTEM
DO NOT DRIVE OR PARK ON SEPTIC SYSTEM**

AUTHORIZATION OF EXISTING SYSTEM



Signature of Environmental Health Specialist

08/31/2022

Date

PROJECT DESCRIPTION:

22 X MISSION SOLAR: MSE345SX5T 345W MODULES
 GROUND MOUNTED SOLAR PHOTOVOLTAIC MODULES
 DC SYSTEM SIZE: 7.590KW DC
 AC SYSTEM SIZE: 7.600KW AC

EQUIPMENT SUMMARY

22 MISSION SOLAR: MSE345SX5T 345W MODULES
 22 GENERAC SNAPRS802
 03 GENERAC PV LINK S2502 POWER OPTIMIZERS
 01 GENERAC PWRCELL: X7602 76000W INVERTER
 01 GENERAC PWRCELL: 9kW (18kWh) BATTERY

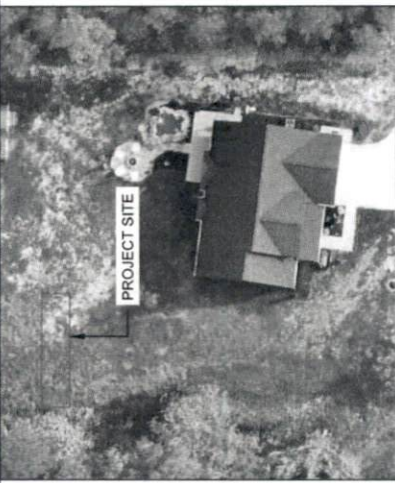
GROUND ARRAY AREA: 436.26 SQ FT

AUTHORITIES HAVING JURISDICTION
 BUILDING: HARNETT COUNTY
 ZONING: HARNETT COUNTY
 UTILITY: DUKE ENERGY

APPLICABLE CODES & STANDARDS
 NCBC 2018
 NEC 2017

DESIGN SPECIFICATIONS

OCCUPANCY: II
 CONSTRUCTION: SINGLE-FAMILY
 ZONING: RESIDENTIAL
 GROUND SNOW LOAD: 10 PSF
 WIND EXPOSURE: B
 WIND SPEED: 115 MPH



2 HOUSE PHOTO

PV-1

SCALE: NTS



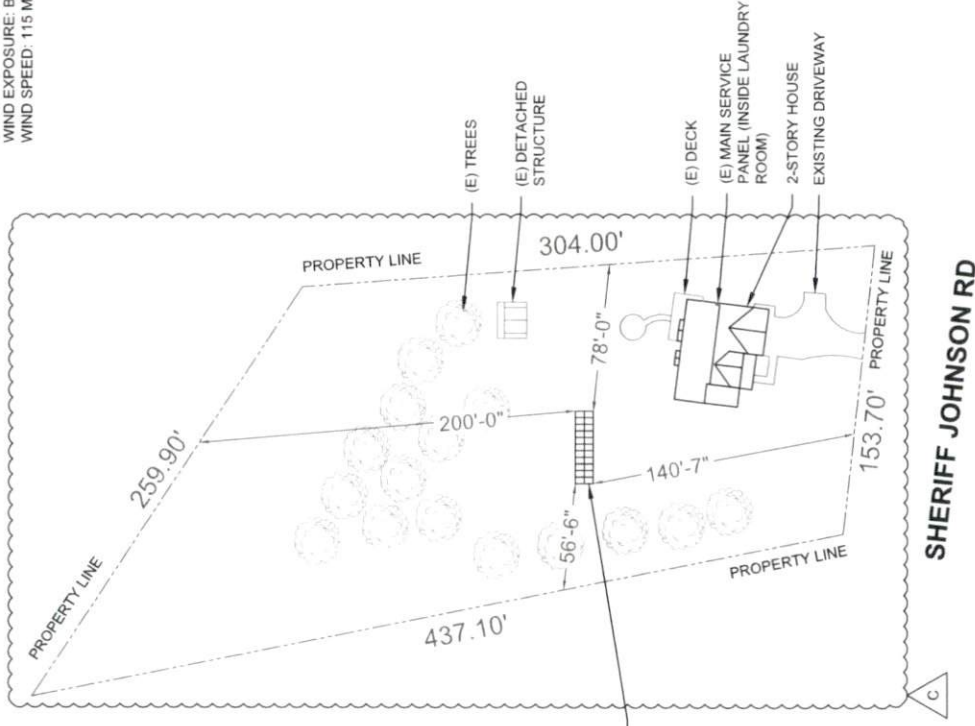
3 VICINITY MAP

PV-1

SCALE: NTS

SHEET INDEX

PV-1	PLOT PLAN, HOUSE PHOTO & VICINITY MAP
PV-2	ARRAY PLAN
PV-2A	STRING LAYOUT
PV-3	ATTACHMENT DETAIL
PV-3A	RACKING DETAIL
PV-4	ELECTRICAL LINE DIAGRAM
PV-5	WIRING CALCULATIONS
PV-6	LABELS
PV-7	PLACARD
PV-8	POWER OPTIMIZER CHART
PV-9+	EQUIPMENT SPECIFICATIONS



1 PLOT PLAN
 SCALE: 1/64" = 1'-0"

PV-1

DESCRIPTION	DATE	REV
INITIAL	07/14/2022	
1.001 LOCATION	07/14/2022	A
1.002 THE PROJECT	08/24/2022	B
1.003 PROJECT LINE	08/29/2022	C
1.004 UPDATE		

SIGNATURE WITH SEAL

DATE: 07/14/2022

PROJECT NAME & ADDRESS
 DEVON DODD
 RESIDENCE
 2200 SHERIFF JOHNSON RD
 LILLINGTON, NC 27546

DC SIZE: 7.590 KW
 AC SIZE: 7.600 KW

SHEET NAME
PLOT PLAN & VICINITY MAP

SHEET SIZE
 ANSI B
 11" X 17"

SHEET NUMBER
PV-1



REVISIONS	DATE	REV
INITIAL	07/14/2022	
MSIP LOCATION	07/14/2022	A
TRENCH ROUTE	06/24/2022	B
PROFILING LINE	06/29/2022	C
UPDATE		

SIGNATURE WITH SEAL

DATE: 07/14/2022

PROJECT NAME & ADDRESS
 DEVON DODD RESIDENCE
 2200 SHERIFF JOHNSON RD
 LILLINGTON, NC 27546

DC SIZE: 7,590 KW
 AC SIZE: 7,600 KW

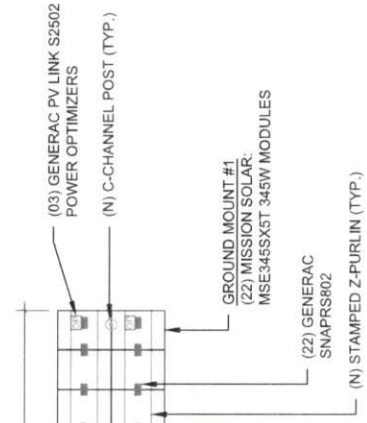
SHEET NAME
 ARRAY PLAN

SHEET SIZE
 ANSI B
 11" X 17"

SHEET NUMBER
 PV-2

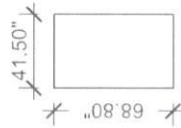
MODULE TYPE, DIMENSIONS & WEIGHT

NUMBER OF MODULES = 22 MODULES
 MODULE TYPE = MISSION SOLAR: MSE345SX5T 345W MODULES
 MODULE WEIGHT = 44.80 LBS / 20.32 KG
 MODULE DIMENSIONS = 68.80" x 41.50" = 19.83 SF



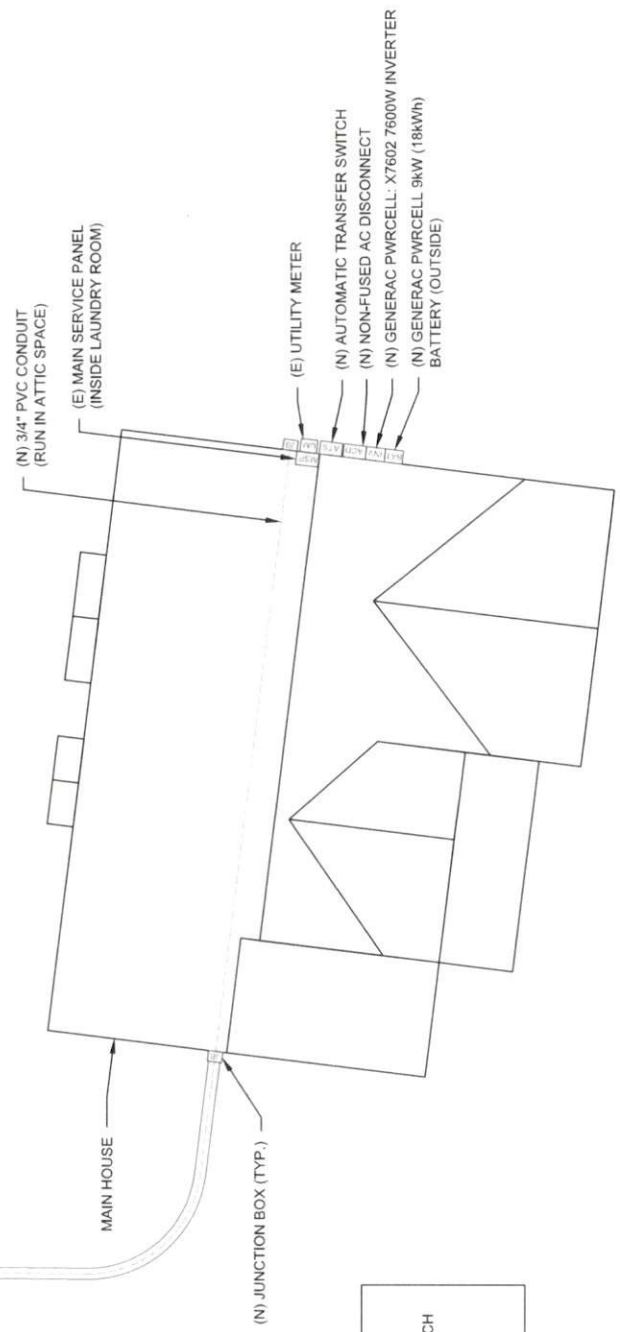
GROUND MOUNT #1
 TILT: -35°
 AZIM.: -180°

(N) TRENCH TBD ON-SITE
 DC TRENCHING THROUGH DIRT
 APPROX 72"-0"
 PVC BURIAL (MIN 18" DEPTH)



MISSION SOLAR:
 MSE345SX5T 345W
 MODULES

LEGEND	
	- BATTERY
	- INVERTER
	- AC DISCONNECT
	- MAIN SERVICE PANEL
	- AUTOMATIC TRANSFER SWITCH
	- SOLADECK
	- PV LINK -S2502
	- SNAPRS802



1 ARRAY PLAN
 SCALE: 3/32" = 1'-0"

PV-2