

MICROINVERTER SPECIFICATIONS		SOLAR MODULE SPECIFICATIONS	
MANUFACTURER / MODEL #	APSYSTEMS DS3-L (240V)	MANUFACTURER / MODEL #	PHONO SOLAR PS400M6-18/VHB
INPUT POWER RANGE	265W-570W	VMP	30.85 V
MIN/MAX START VOLTAGE	26V/60V	IMP	12.97 A
NOMINAL AC VOLTAGE	240V	VOC	36.87 V
MAX CONT. OUTPUT CURRENT	3.2A	ISC	13.52 A
MAX CONT. OUTPUT POWER	768W	TEMP. COEFF. VOC	-0.28 %/°C
MAX MODULES PER STRING	14 (7 MICROINVERTERS)		

AMBIENT TEMPERATURE SPECIFICATIONS	
RECORD LOW TEMP	-20°C
AMBIENT TEMP (HIGH TEMP 2% AVG.)	35°C
MINIMUM CONDUIT HEIGHT ABOVE ROOF SURFACE	7/8"

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/20/2025

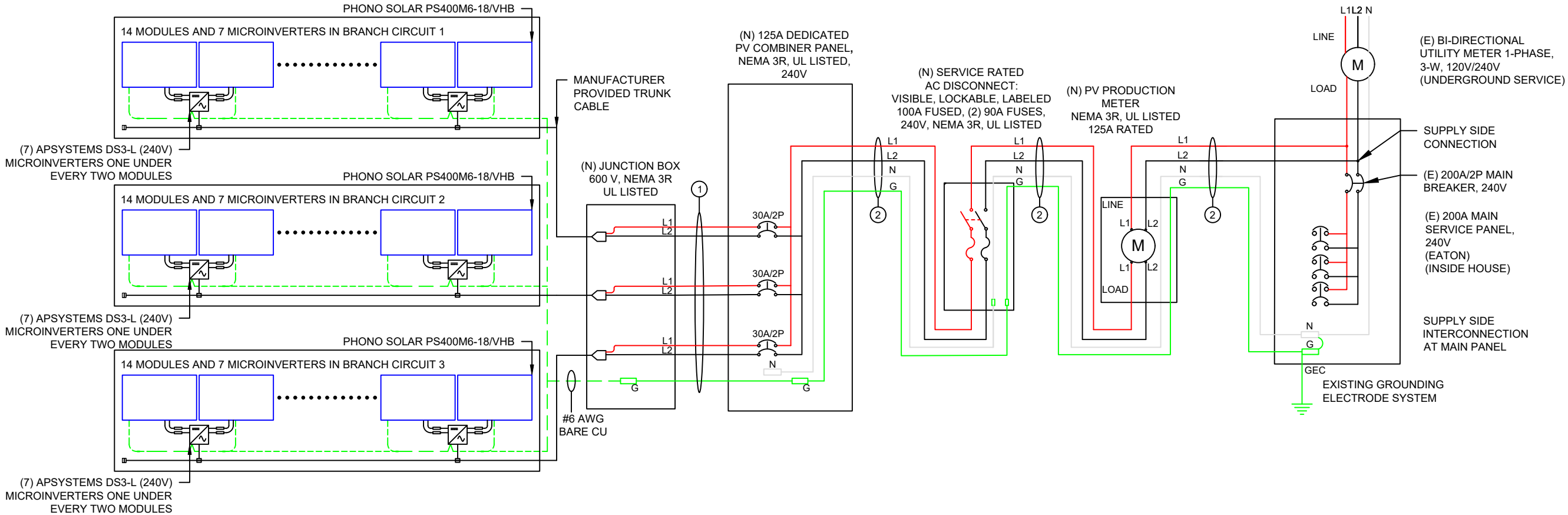
CONTRACTOR



GREEN COMFORT ENERGY
SOLUTIONS
235 S CHURCH ST,
OLATHE, KANSAS 66061

PHONE - (913) 286-4155
LIC. NO. - 2024-0011305

ROMEX CAN BE USED IN LIEU OF CONDUIT FOR INTERIOR BUILDING AND ATTIC RUNS ONLY. DO NOT USE ROMEX IN CONDUIT OR OUTDOOR ENVIRONMENTS.



DESCRIPTION						FORMULA				RESULT		
PV OVERCURRENT PROTECTION NEC 690.9(B)						TOTAL INVERTER OUTPUT CURRENT x 1.25 = (21 x 3.2)A x 1.25				84.00A (SELECTED OCPD = 90A)		
WIRE ID	EXPECTED WIRE TEMP (°C)	TEMP DERATE (90 °C)	QTY OF CURRENT CARRYING CONDUCTORS	CONDUIT FILL DERATE	MINIMUM CONDUIT SIZE (TBD ON SITE)	WIRE GAUGE & TYPE	CONDUCTOR AMPACITY @ 90°C (A)	CONDUCTOR AMPACITY @ 75°C (A)	REQUIRED CIRCUIT CONDUCTOR AMPACITY (A)	ADJUSTED CONDUCTOR AMPACITY @ 90 °C (A)	NEUTRAL CONDUCTOR SIZE & TYPE	GROUND WIRE SIZE & TYPE
1	35	0.96	6	0.8	3/4" METAL	#10 THWN-2	40	35	28.00	30.72	NONE	#10 THWN-2
2	35	0.96	2	1	1" METAL	#4 THWN-2	95	85	84.00	91.20	#4 THWN-2	#8 THWN-2

PROJECT NAME & ADDRESS

CALEB DENNIS
2321 NE LAKE BREEZE LN,
LEE'S SUMMIT, MO 64086

APN #: 53440042700000000

AHJ: CITY OF LEE'S SUMMIT
UTILITY: EVERGY

SYSTEM DETAILS

DC SIZE: 16.800 KW DC-(STC)
AC SIZE: 16.128 KW AC
(42) PHONO SOLAR PS400M6-18/VHB
(21) APSYSTEMS DS3-L (240V)

REVISIONS

REV	DESCRIPTION	DATE

SHEET TITLE
ELECTRICAL
DIAGRAM

DRAWN DATE	2/19/2025
DRAWN BY	RB

SHEET NUMBER
PV-04