

ENGINEER:

MODEL ENERGY

300 FAYETTEVILLE ST. #1430 RALEIGH, NC 27602 919-274-9905 MODELENERGY.COM

JOB TITLE:

MATTAMY HOMES RIVERFALL LOT 7 57 BERING CIRCLE ANGIER, NC 27501

CLIENT:



ISSUED FOR: DATE: CONSTRUCTION 02/26/25

SITE INFORMATION

DC/AC INVERTER & BA	TTERY		
MAKE	POWERWALL3		
MODEL #	1707000-XX-Y		
TECHNOLOGY	TRANS-LESS		
NOMINAL BATTERY ENERGY	13.5 kWH		
DC INPUT:			
MAX. POWER	20000 WATTS		
MAX. VOLT	600 VDC		
NOM. VOLT.	60-550 VDC		
MAX. CURRENT	13 AMPS		
MAX. SCC	15 AMPS		
STRINGS INPUTS	6 STRINGS		
AC OUTPUT:			
MAX CONT. DISCHARGE POWER	11500 WATTS		
MAX CONT. CHARGE POWER	5000 WATTS		
NOM. VOLT.	240 VOLTS		
MAX. CURR.	48 AMPS		
GFP (Y/N)	YES		
RPP (Y/N)	YES		
GFCI (Y/N)	YES		
AFCI (Y/N)	YES		
DC DISC. (Y/N)	YES		
RAPID SHUTDOWN	AUTOMATIC		
PROTECT. RATING	NEMA 4X		

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NOTICE TO CONTRACTOR All construction must comply with current NC and is subject to field inspection and verificati		
APPROVED		
Limited building only review Permit holder responsible for full compliance with the code	2 aprila	Harnett
03/06/2025	Dire	C O U N T Y NORTH CAROLINA

CONDUCTOR SCHEDULE													
TAG	CURRENT CARRYING CONDUCTORS				GROUNDING CONDUCTORS			CONDUIT/RACEWAY			NOTES		
IAG	QTY.	SIZE	MATERIAL	INSULATION	QTY.	SIZE	MATERIAL	INSULATION	QTY.	SIZE	MATERIAL	LOCATION	NOILS
CI	3	6 AWG	COPPER	THWN		10 AWG	COPPER	THWN	I	3/4"	NOTE 5	EXT	2,4,5
C2	3	4 AWG	ALUMINUM	THHN		8 AWG	ALUMINUM	THHN		4/4/4/8	SER	INTERIOR	2,4,5
C3	3	4/0	ALUMINUM	THHN	1	-	-	-		% ,%,%, %	SER	EXT/INT	2,4,5
XC	-	-	-	-	-	-	-	-	-	-	-	-	3

NOTES:

NOTES:

- MANUFACTURER PROVIDED, UL LISTED WIRING HARNESS FOR USE ON EXPOSED ROOFS
- CONDUIT SIZE SHOWN IS CODE MINIMUM. LARGER SIZES ARE ALLOWED.
- EXISTING CONDUCTORS, FIELD VERIFY
- EQUIPMENT TERMINAL RATING SHALL BE A MINIMUM OF 75°C AT BOTH END OF CONDUCTOR
- PVC, EMT, ROMEX, LFNMC & FMC ARE ACCEPTABLE WHEN USED IN ACCORDANCE WITH ARTICLES 330, 334, 348, 350, 352, 356, & 358 OF THE 2017 NEC

CRITICAL LOADS PANEL (NEW)						
MAKE	SPAN					
MODEL	I-00800-XX					
ENCL. RATING	NEMA 3R					
VOLT. RATING	240 VOLTS					
BUS RATING	225 AMPS					
UL LIST. (Y/N)	YES					
MAIN BREAKER (Y/N)	YES					
BREAKER RATING	200 AMPS					

BACKFEED POWERWALL 3 VIA (I)

OPPOSITE END OF THE BUSBAR

60 AMP BREAKER AT THE

FROM THE MAIN BREAKER.

FOR EV OUTLET CIRCUIT.

MAIN BREAKER SERVES AS

PROVIDE (I) 50 AMP BREAKER

SERVICE DISCONNECT SWITCH.

AC DISCONNECT "A"		AC DISCONNECT "B"			
MAKE	EATON	١	1AKE	EATON	
MODEL	N/A	١	10DEL	N/A	
ENCL. RATING	NEMA 3R	Е	NCL. RATING	NEMA 3R	
VOLT. RATING	240 VOLTS	٧	OLT. RATING	240 VOLTS	
AMP RATING	60 AMPS	Δ	MP RATING	60 AMPS	
UL LIST. (Y/N)	YES	ι	JL LIST. (Y/N)	YES	
FUSED (Y/N)	YES	F	USED (Y/N)	NO	
FUSE RATING	60 AMPS	F	USE RATING	N/A	

BACKUP SWITCH (NEW)					
MAKE	TESLA				
MODEL	BACKUP SWITCH				
ENCL. RATING	NEMA 3R				
VOLT. RATING	120/240 VOLTS				
AMP RATING	200 AMPS				
UL LIST. (Y/N)	YES				
SHORT CIRCUIT RATING	NO NO				
COMMUNICATION	CAN				

NOTES:

LOAD-BREAK RATED

- VISIBLE OPEN
- LOCKABLE IN OPEN
- **POSITION** INSTALL ADJACENT TO
- **METER** DISCONNECT TO BE READILY ACCESSIBLE TO UTILITY COMPANY PERSONNEL AT ALL **TIMES**

NOTES:

- LOAD-BREAK RATED
- VISIBLE OPEN
- LOCKABLE IN OPEN **POSITION**
- INSTALL ADJACENT TO METER
- DISCONNECT TO BE READILY ACCESSIBLE TO UTILITY COMPANY PERSONNEL AT ALL **TIMES**

NOTES:

PROVIDE NEW METER BASE TO CONNECT BACKUP SWITCH DEVICE.



NEW BATTERY ADDITION CLIENT:

SEAL:

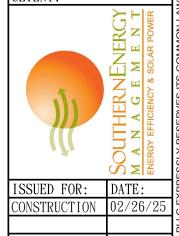
ENGINEER:

JOB TITLE:

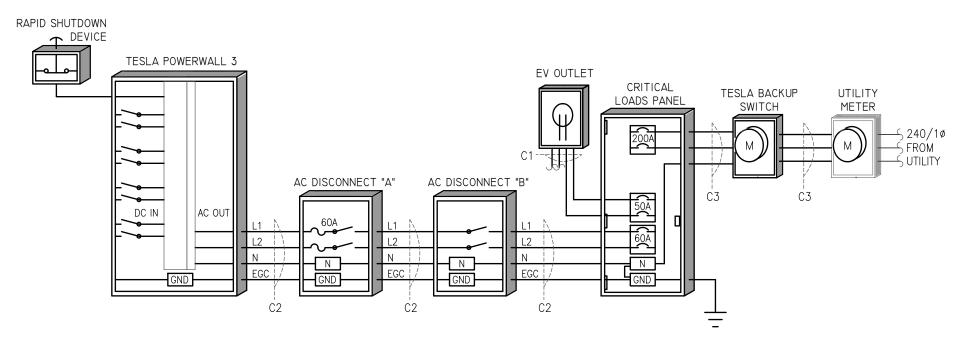
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P-1194



ELECTRICAL INFORMATION



SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY

NEC 690.56 (C)(1)(a)
PLACE WITHIN 3FT OF SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED AND SHALL INDICATE THE LOCATIONS OF RAPID SHUTDOWN SWITCHES

WARNING DUAL POWER SUPPLY

SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

NEC 705.12 (B)(3) PLACE ON ALL EQUIPMENT THAT IS SUPPLIED BY BOTH POWER SOURCES

PCS CONTROLLED **CURRENT SETTING: 200 AMPS**

THE MAXIMUM OUTPUT CURRENT FROM S SYSTEM TOWARDS THE MAIN PANEL NTROLLED ELECTRICALLY. REFER TO MANUFACTURER'S INSTRUCTIONS FOR MORE INFORMATION.

NEC 705.13 PLACE ON PANELS CONNECTED TO GATEWAY

WARNING

FED BY MULTIPLE POWER SOURCES

TOTAL RATING OF ALL VERCURRENT DEVICES EXCLUDING UTILITY OVERCURRENT **DEVICE SHALL NOT EXCEED** AMPACITY OF BUSBAR

NEC 705.12 (B)(2)(3)(c) PLACE ADJACENT TO BACK-FED BREAKER

EQUIPMENT LABEL NOTES

- REQUIRED SIZE.
- 2. LABEL MATERIAL SHALL BE SUITABLE
- CONDUIT SHALL BE MARKED WITH

WARNING

ELECTRIC SHOCK HAZARD TERMINALS ON THE LINE AND OAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

NEC 690.13 (B) PLACE ON PV SYSTEM DISCONNECTING MEANS.

WARNING POWER SOURCE OUTPUT CONNECTION

DO NOT RELOCATE THIS **OVERCURRENT DEVICE** NEC 705.12 (B)(2)(3)(b)
PLACE ADJACENT TO BACK-FED BREAKER

SEAL: ENGINEER: MODEL ENERGY 300 FAYETTEVILLE ST. #1430 RALEIGH, NC 27602 919-274-9905 MODELENERGY.COM JOB TITLE: **NEW BATTERY ADDITION**

CIRCLE C 27501 RIVERFALL LOT 7 S 57 BERING ANGIER,

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> **EQUIPMENT** LABELS

LABELS SHOWN ARE 1/2 THEIR ACTUAL

FOR THE EQUIPMENT ENVIRONMENT.

REQUIRED LABEL EVERY 10 FEET.