PHOTOVOLTAIC ROOF MOUNT SYSTEM

20 MODULES-ROOF MOUNTED - 8.50 kWDC, 11.50 kWAC,BATTERY 11.50 kWh

BLDG NO. STREET, CITY, STATE ZIP USA

SYSTEM SUMMARY:

(N) 20 - HANWHA Q.CELLS Q.TRON BLK M-G2+425 (425W) MODULES
(N) 01 - TESLA POWERWALL 3 (1707000-XX-Y) INTEGRATED SOLAR AND BATTERY
(N) 08 - TESLA MCI (RAPID SHUT DOWN DEVICE) GEN 2
(N) JUNCTION BOX
(N) 125A BUSBAR WITH (N) 100A MAIN PANEL AND
(N) 100A MAIN BREAKER
(N) 60A NON FUSED AC DISCONNECT (SQUARE D DU222RB)

MSP UPGRADE: YES

DESIGN CRITERIA:

ROOF TYPE: - ASPHALT SHINGLE
ROOF FRAME: - 2"X6" RAFTERS @24" O.C.
STORY: - ONE STORY
SNOW LOAD : - 0 PSF
WIND SPEED :- 94 MPH
WIND EXPOSURE:- C
RISK CATEGORY:- II

GOVERNING CODES:

2022 CALIFORNIA ELECTRICAL CODE (CEC)
2022 CALIFORNIA BUILDING CODE (CBC)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)
2022 CALIFORNIA RESIDENTIAL CODE (CRC)
2022 CALIFORNIA GREEN CODE (CGC)
2022 CALIFORNIA MECHANICAL CODE (CMC)
2022 CALIFORNIA PLUMBING CODE (CPC)
2022 CA FIRE CODE TITLE 24 SUPPLEMENT
ANY OTHER LOCAL AMENDMENTS

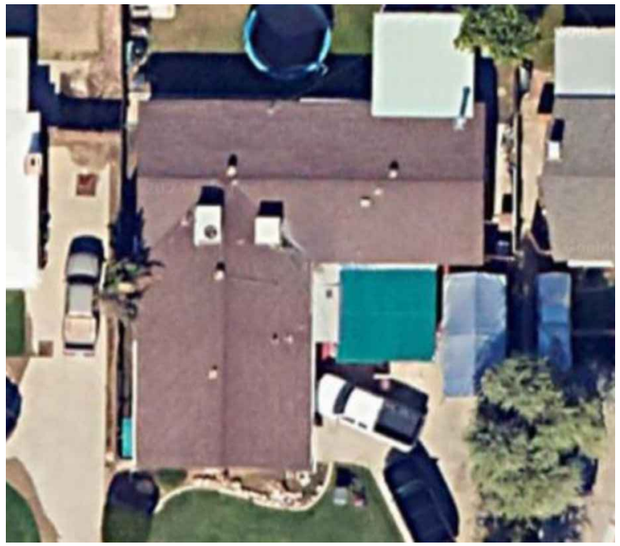
SHEET INDEX

GENERAL NOTES

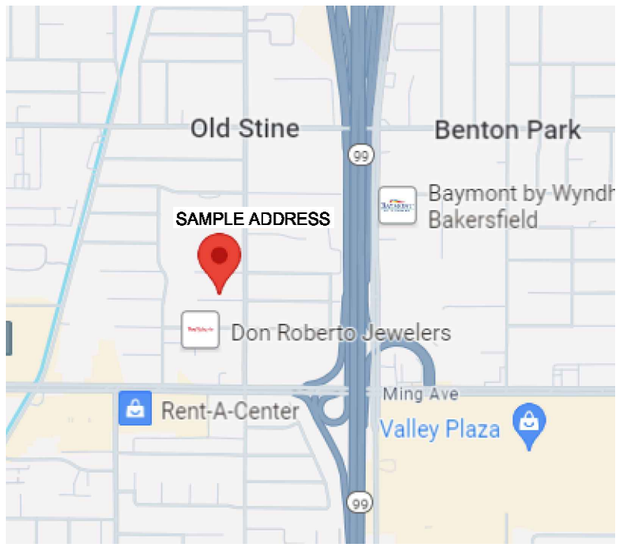
- THE CONTRACTOR/INSTALLER OF THE SOLAR PV SYSTEM OVER EXISTING ROOF SHALL CONFORM TO OSHA REQUIREMENTS DURING THE CONSTRUCTION PHASE. JOB SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR/INSTALLER.
- REFER TO ELECTRICAL DRAWING PV-5 FOR PANEL DETAILED INFORMATION.
- IN CASE OF CONFLICT BETWEEN STRUCTURAL DRAWINGS AND ELECTRICAL DRAWINGS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.
- THE CONTRACTOR/INSTALLER SHALL VERIFY ALL EXISTING BUILDING INFORMATION SHOWN (DIMENSIONS, ROOF TOP PROJECTIONS, ETC.) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLATIONS OF PV SYSTEM.
- THE CONTRACTOR/INSTALLER SHALL VERIFY AND COORDINATE EXISTING OPENINGS, ROOF TOP UNITS, VENT PIPES, ETC. SHOWN ON DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTORS/INSTALLER'S RESPONSIBILITY TO NOTIFY ENGINEER PRIOR TO PERFORMING THE WORK.
- ALL CONSTRUCTION IS TO BE PERFORMED IN STRICT CONFORMANCE WITH ALL APPLICABLE TOWN, COUNTY & STATE REGULATIONS AND/OR ANY OTHER GOVERNING BODIES.
- DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS. CONTRACTOR MUST CONDUCT ROOF SURVEY TO VERIFY DIMENSIONS SHOWN ON PLAN PRIOR TO INSTALLATION. IF THERE IS A DISCREPANCY IT IS CONTRACTOR/INSTALLER'S RESPONSIBILITY TO NOTIFY THE ENGINEER IMMEDIATELY.
- LOCATED IN AREAS NOT REQUIRING PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS DOORS OR WINDOWS.
- LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION IN LOCATIONS WHERE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, WIRES, OR SIGNS.
- DISCONNECT MEANS MUST HAVE DEDICATED CLEAR UNOBSTRUCTED WORKING SPACE NOT LESS THAN 3' DEEP BY 2.5' WIDE TO NOT LESS THAN 6.5' ABOVE WALKABLE SURFACES IN FRONT OF DISTRIBUTION PANEL.
- ALL SOLAR MODULES, EQUIPMENT, AND METALLIC COMPONENTS TO BE BONDED.
- PV ARRAY NOT TO EXCEED HIGHEST POINT OF THE ROOF.
- RAPID SHUTDOWN IS ACTIVATED AT THE INVERTER BY THE AC DISCONNECT.

ELECTRICAL NOTES

- ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
- WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.
- WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH CEC 110.26.
- DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
- WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER E.G.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN LUG.
- THE POLARITY OF THE GROUNDED CONDUCTORS IS NEGATIVE



1 AERIAL PHOTO
PV-0 SCALE: NTS



2 VICINITY MAP
PV-0 SCALE: NTS

UNIRAC
BETTER SOLAR STARTS HERE
1411 BROADWAY BLVD NE
ALBUQUERQUE, NM 87102
PH: 505-242-6411

VERSION

DESCRIPTION	DATE	REV
INITIAL RELEASE	DD/MM/YYYY	UR

PROJECT NAME

CUST. NAME
BLDG NO. STREET,
CITY, STATE ZIP USA
APN# _____
UTILITY: _____
AHJ: _____

SHEET NAME
COVER SHEET

SHEET SIZE
ANSI B
11" X 17"

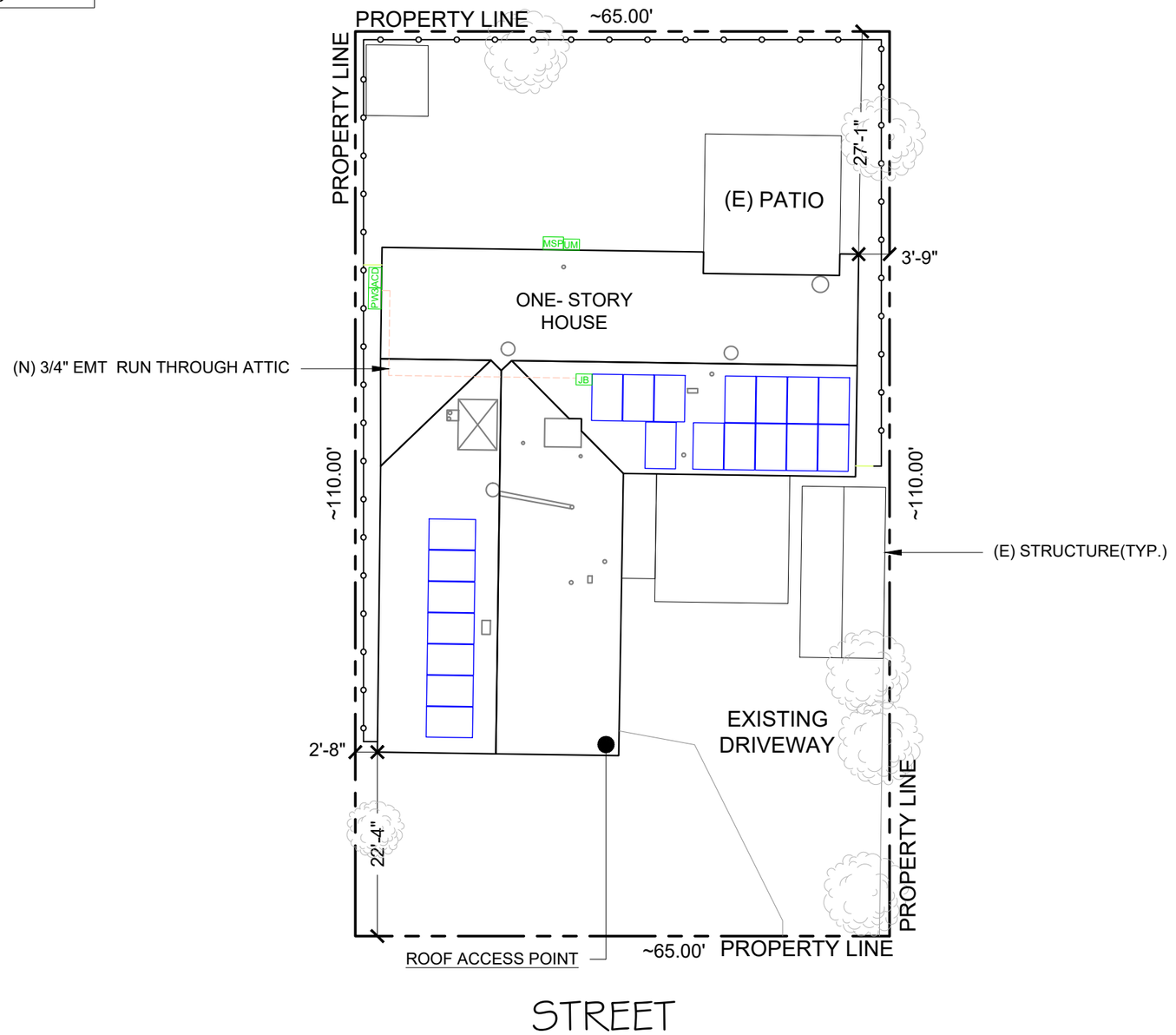
SHEET NUMBER
PV-0

● **ROOF ACCESS POINT** SHALL BE LOCATED IN AREAS THAT DO NOT REQUIRE THE PLACEMENT OF GROUND LADDERS OVER OPENINGS SUCH AS WINDOWS OR DOORS, AND LOCATED AT STRONG POINTS OF BUILDING CONSTRUCTION IN LOCATIONS WHERE THE ACCESS POINT DOES NOT CONFLICT WITH OVERHEAD OBSTRUCTIONS SUCH AS TREE LIMBS, WIRES OR SIGNS.

NOTE: LOCATIONS OF DC CONDUCTORS SHALL COMPLY WITH CRC SECTION R324.7.3

NOTE:
A. ALL ELECTRICAL EQUIPMENT, INVERTERS, DISCONNECTS, MAIN SERVICE PANELS, ETC. SHALL NOT BE INSTALLED WITHIN 3' OF THE GAS METERS' SUPPLY OR DEMAND PIPING.

ESS SEPARATION OF 3' MINIMUM FROM DOORS AND WINDOWS DIRECTLY ENTERING THE DWELLING UNIT AS PER CRC R328.4



1 SITE PLAN WITH ROOF PLAN

SCALE: 1/16" = 1'-0"

N

LEGEND	
UM	UTILITY METER
MSP	MAIN SERVICE PANEL
PW3	TESLA POWERWALL 3
ACD	AC DISCONNECT
JB	JUNCTION BOX
	CONDUIT
	GATE
	FENCE
	VENT, ATTIC FAN (ROOFOBSTRUCTION)
	TREES
	CHIMNEY
	AC UNIT

UNIRAC
BETTER SOLAR STARTS HERE
1411 BROADWAY BLVD NE
ALBUQUERQUE, NM 87102
PH: 505-242-6411

VERSION		
DESCRIPTION	DATE	REV
INITIAL RELEASE	DD/MM/YYYY	UR

PROJECT NAME

CUST. NAME
BLDG NO. STREET,
CITY, STATE ZIP USA
APN# _____
UTILITY: _____
AHJ: _____

SHEET NAME
SITE PLAN WITH ROOF PLAN

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-1

BILL OF MATERIALS

EQUIPMENT	QTY	DESCRIPTION
RAIL	13	UNIRAC NXT UMOUNT RAIL 168" DRK
RAIL SPLICE	06	NXT UMOUNT RAIL SPLICE
UNIVERSAL CLAMP	50	NXT UMOUNT COMBO CLAMP -DRK
ROOF ATTACHMENTS	36	UNIRAC STRONGHOLD ATT BUTYL
ACCESSORIES	20	NXT UMOUNT RL & CLMP CAP KIT
MLPE & GROUNDING	25	NXT UMOUNT MLPE & LUG CLAMP

ESS SEPARATION OF 3' MINIMUM FROM DOORS AND WINDOWS DIRECTLY ENTERING THE DWELLING UNIT AS PER CRC R328.4

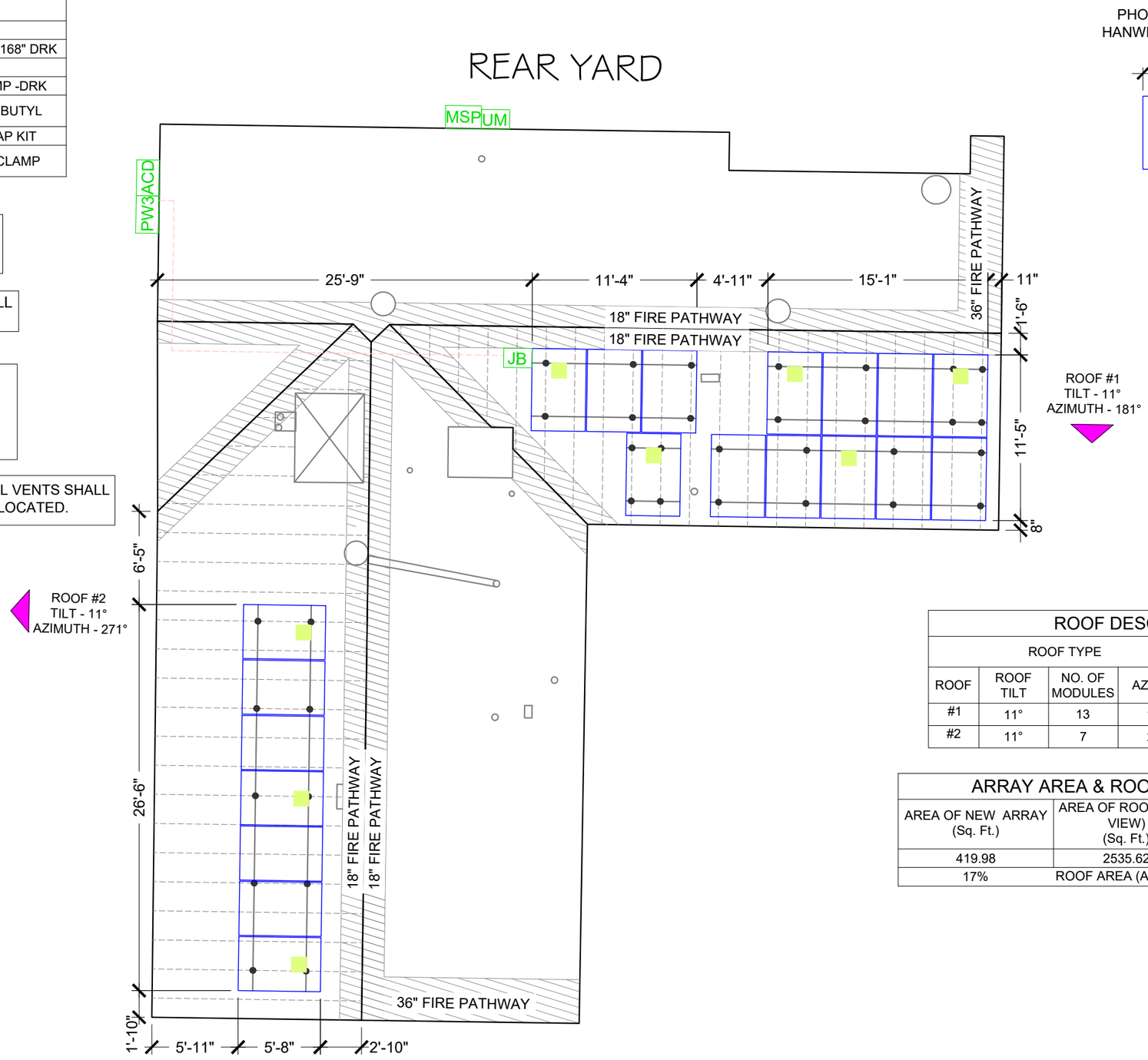
NOTE: LOCATIONS OF DC CONDUCTORS SHALL COMPLY WITH CRC SECTION R324.7.3

NOTE: ACTUAL ROOF CONDITIONS AND RAFTERS (OR SEAM) LOCATIONS MAY VARY. INSTALL PER MANUFACTURER(S) INSTALLATION GUIDELINES AND ENGINEERED SPANS FOR ATTACHMENTS

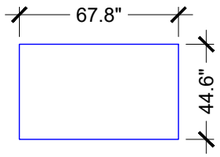
PLUMBING VENTS, SKYLIGHTS AND MECHANICAL VENTS SHALL NOT BE COVERED, MOVED, RE-ROUTED OR RE-LOCATED.

LEGEND

UM	UTILITY METER
MSP	MAIN SERVICE PANEL
PW3	TESLA POWERWALL 3
ACD	AC DISCONNECT
JB	JUNCTION BOX
	UNIARC NXT UMOUNT RAIL
	RAFTERS
	ROOF ATTACHMENT @72" O.C.
	TESLA MCI (RAPID SHUT DOWN DEVICES) GEN 2
	VENT, ATTIC FAN (ROOF OBSTRUCTION)
	CHIMNEY
	AC UNIT



PHOTOVOLTAIC MODULES
HANWHA Q.CELLS Q.TRON BLK
M-G2+425 (425W)



ROOF DESCRIPTION

ROOF TYPE				ASPHALT SHINGLE ROOF	
ROOF	ROOF TILT	NO. OF MODULES	AZIMUTH	RAFTERS SIZE	RAFTERS SPACING
#1	11°	13	181°	2"x6"	24" O.C.
#2	11°	7	271°	2"x6"	24" O.C.

ARRAY AREA & ROOF AREA CALC'S

AREA OF NEW ARRAY (Sq. Ft.)	AREA OF ROOF(PLAN VIEW) (Sq. Ft.)	TOTAL ROOF AREA COVERED BY ARRAY %
419.98	2535.62	17%
17%	ROOF AREA (ARRAY <33% OF ROOF AREA)	

1 ROOF PLAN WITH MODULES

SCALE: 1/8" = 1'-0"

N

UNIRAC
BETTER SOLAR STARTS HERE
1411 BROADWAY BLVD NE
ALBUQUERQUE, NM 87102
PH: 505-242-6411

VERSION

DESCRIPTION	DATE	REV
INITIAL RELEASE	DD/MM/YYYY	UR

PROJECT NAME

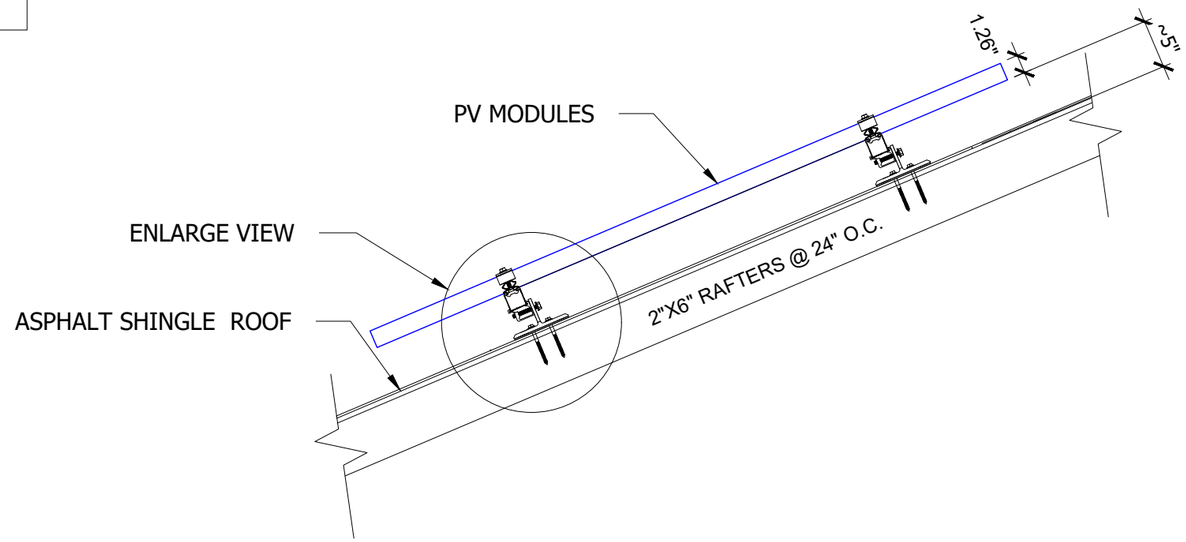
CUST. NAME
BLDG NO. STREET,
CITY, STATE ZIP USA
APN# _____
UTILITY: _____
AHJ: _____

SHEET NAME
ROOF PLAN WITH MODULES

SHEET SIZE
ANSI B
11" X 17"

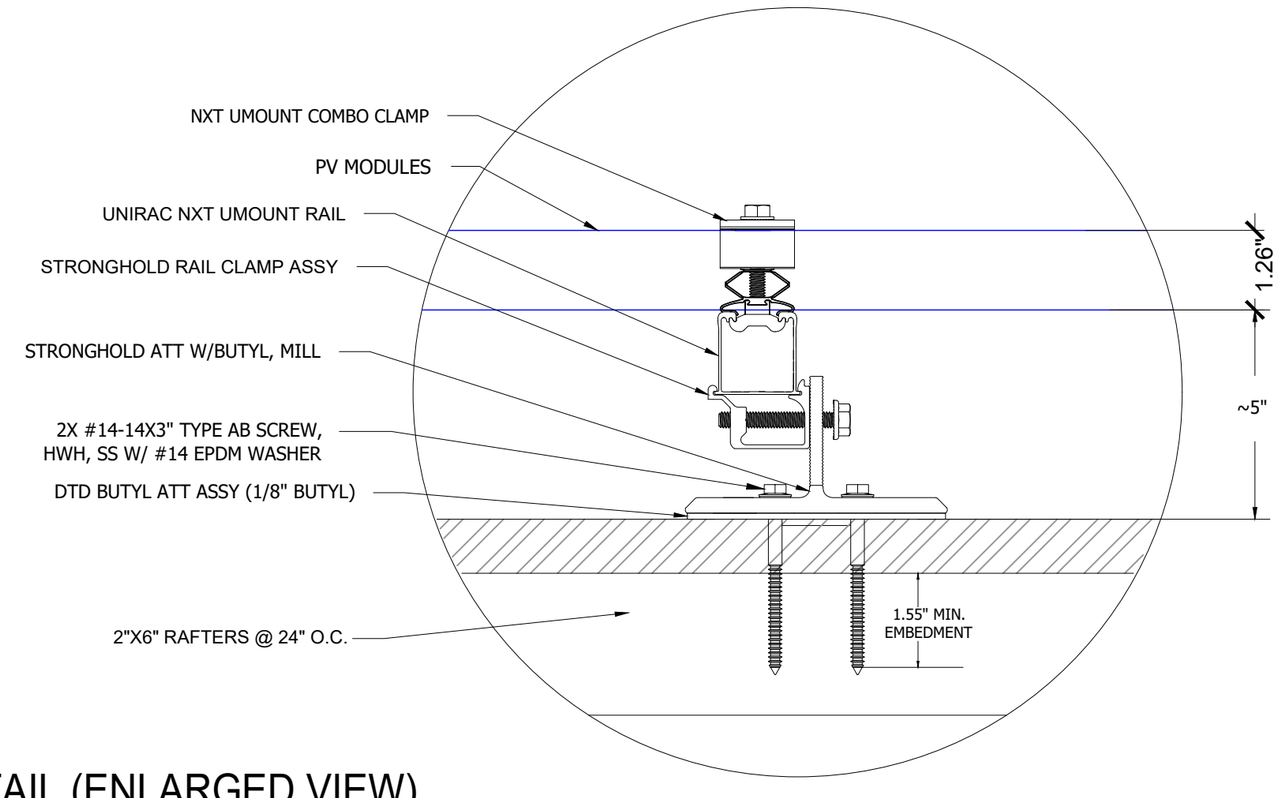
SHEET NUMBER
PV-2

NOTE: ACTUAL ROOF CONDITIONS AND RAFTERS (OR SEAM) LOCATIONS MAY VARY. INSTALL PER MANUFACTURER(S) INSTALLATION GUIDELINES AND ENGINEERED SPANS FOR ATTACHMENTS



1 ATTACHMENT DETAIL

SCALE: NTS



2 ATTACHMENT DETAIL (ENLARGED VIEW)

SCALE: NTS

UNIRAC
BETTER SOLAR STARTS HERE
1411 BROADWAY BLVD NE
ALBUQUERQUE, NM 87102
PH: 505-242-6411

VERSION		
DESCRIPTION	DATE	REV
INITIAL RELEASE	DD/MM/YYYY	UR

PROJECT NAME

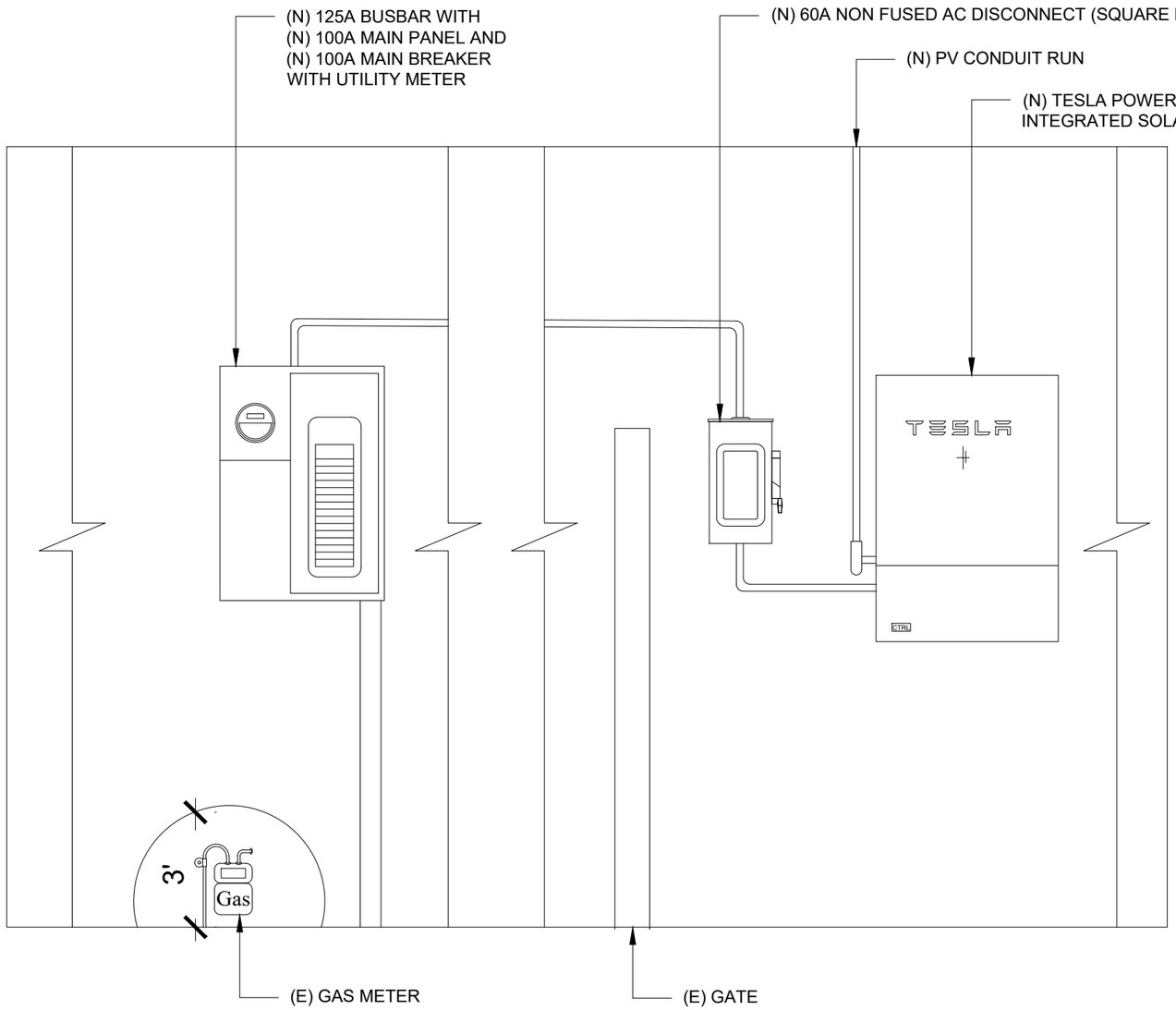
CUST. NAME
BLDG NO. STREET,
CITY, STATE ZIP USA
APN# _____
UTILITY: _____
AHJ: _____

SHEET NAME
ATTACHMENT DETAIL

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-3

ESS SEPARATION OF 3' MINIMUM FROM DOORS AND WINDOWS DIRECTLY ENTERING THE DWELLING UNIT AS PER CRC R328.4



NORTH SIDE OF THE HOUSE

WEST SIDE OF THE HOUSE

1 EQUIPMENT ELEVATION
SCALE: NTS

UNIRAC
BETTER SOLAR STARTS HERE
1411 BROADWAY BLVD NE
ALBUQUERQUE, NM 87102
PH: 505-242-6411

VERSION		
DESCRIPTION	DATE	REV
INITIAL RELEASE	DD/MM/YYYY	UR

PROJECT NAME

CUST. NAME
BLDG NO. STREET,
CITY, STATE ZIP USA
APN# _____
UTILITY: _____
AHJ: _____

SHEET NAME
EQUIPMENT ELEVATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-4

AMBIENT TEMPERATURE SPECIFICATIONS				
RECORD LOW TEMPERATURE	AMBIENT TEMP (HIGH TEMP 2%)	CONDUIT HEIGHT	CONDUCTOR TEMPERATURE RATE (ON ROOF)	CONDUCTOR TEMPERATURE RATE (OFF ROOF)
-2°	39°	7/8"	90°	75°

NOTE:
PRODUCERS STORAGE DEVICE(S) WILL NOT CAUSE THE HOST LOAD TO EXCEED ITS NORMAL PEAK DEMAND. NORMAL PEAK DEMAND IS DEFINED AS THE HIGHEST AMOUNT OF POWER REQUIRED FROM THE DISTRIBUTION SYSTEM BY PRODUCERS COMPLETE FACILITIES WITHOUT THE INFLUENCE OR USE OF THE ENERGY STORAGE DEVICE(S).

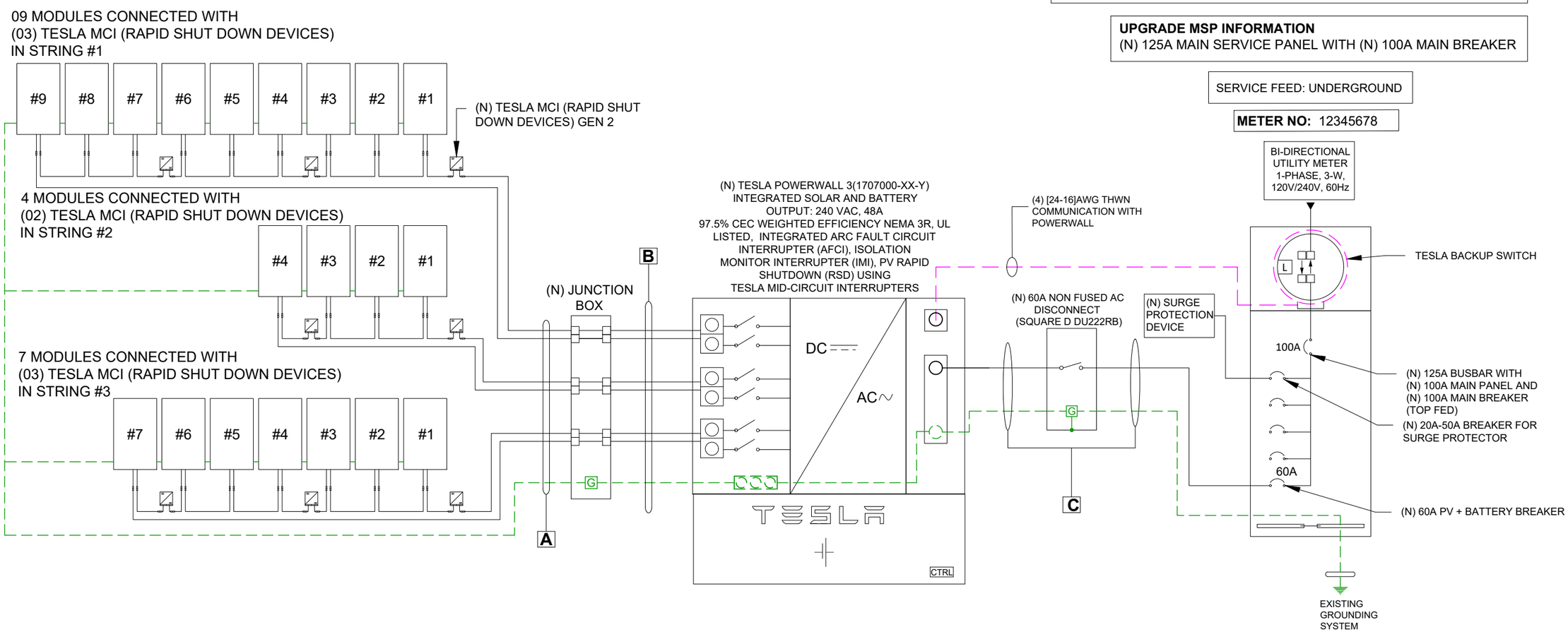
SOLAR MODULE SPECIFICATIONS						
MANUFACTURER / MODEL #	VMP (V)	IMP (A)	VOC (V)	ISC (A)	TEMPERATURE COEFFICIENT OF Voc	QUANTITY OF MODULES
HANWHA Q-CELLS Q.TRON BLK M-G2+425 (425W)	32.74	12.98	39.03	13.66	-0.27%/K	20
MODULE DIMENSIONS	67.8"L x44.6"W x1.18"D					

NOTE: "ESS SEPERATION OF 3' MINIMUM FROM DOORS AND WINDOWS DIRECTLY ENTERING THE DWELLING UNIT AS PER CRC R328.4"

INVERTER SPECIFICATIONS			
MANUFACTURER / MODEL #	QUANTITY	NOMINAL OUTPUT VOLTAGE	NOMINAL OUTPUT CURRENT
TESLA POWERWALL 3 (1707000-XX-Y) INTEGRATED SOLAR AND BATTERY	01	240VAC	48.0A

NOTE: THE MAXIMUM OPERATING CURRENTS IN CONTROLLED BUSBARS OR CONDUCTORS ARE LIMITED BY THE SETTINGS OF THE POWER CONTROL SYSTEM (PCS) AND MAY BE LOWER THAN THE SUM OF THE CURRENTS OF THE CONNECTED CONTROLLED POWER SOURCES. THE SETTINGS OF THE PCS CONTROLLED CURRENTS MAY BE USED FOR CALCULATION OF THE DESIGN CURRENTS USED IN THE RELEVANT SECTIONS OF NEC ARTICLE 690 AND 705.
PCS CONTROLLED CURRENT SETTINGS : 160A

UPGRADE MSP INFORMATION
(N) 125A MAIN SERVICE PANEL WITH (N) 100A MAIN BREAKER



WIRE TAG	CONDUIT	WIRE QTY	WIRE GAUGE	WIRE TYPE	TEMP. RATING	WIRE AMPACITY (A)	TEMP. DERATE	CONDUIT FILL DERATE	DERATED AMPACITY (A)	INVERTER QTY	NOC (A)	CEC	DESIGN CURRENT (A)	GROUND SIZE	GROUND WIRE TYPE	BATTERY QTY	BATTERY CURRENT
A	OPEN AIR	6	10 AWG	PV WIRE	90°C	40	0.91	N/A	36.4	1	17	1.25	21.25	10 AWG	BARE CU GND	-	-
B	3/4" EMT	6	10 AWG	THWN-2	90°C	40	0.91	0.8	29.12	1	17	1.25	21.25	10 AWG	THWN-2	-	-
C	3/4" EMT	3	4 AWG	THWN-2	75°C	85	0.88	1	74.80	-	-	1.25	60.0	10 AWG	THWN-2	1	48

1 ELECTRICAL LINE DIAGRAM WITH WIRE CALCULATIONS

SCALE: NTS

UNIRAC
BETTER SOLAR STARTS HERE
1411 BROADWAY BLVD NE
ALBUQUERQUE, NM 87102
PH: 505-242-6411

VERSION		
DESCRIPTION	DATE	REV
INITIAL RELEASE	DD/MM/YYYY	UR

PROJECT NAME

CUST. NAME
BLDG NO. STREET,
CITY, STATE ZIP USA
APN# _____
UTILITY: _____
AHJ: _____

SHEET NAME
ELECTRICAL LINE DIAGRAM WITH WIRE CALCULATIONS

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-5

PHOTOVOLTAIC SYSTEM MAIN PANEL ALTERATION FOR:

CUST. NAME
BLDG NO. STREET, CITY, STATE ZIP USA

LOAD CALC RESULTS		
MAIN BREAKER		TOTAL DEMAND
100	>	96.4

RESIDENTIAL LOAD CALCULATION FOR EXISTING DWELLINGS

2,536	SQ. FT. X 3 VA	7608	VA
2	SMALL APPLIANCE BRANCH CIRCUITS	3000	VA
1	LAUNDRY CIRCUIT (WASHER)	1500	VA
50	DRYER	9600	VA
40	RANGE	7680	VA
20	KIT	1920	VA
30	PUMP	5760	VA
20	GFI	3840	VA
20	PLUGS	1920	VA
		0	VA
		0	VA
		0	VA
		0	VA
		0	VA
		0	VA
TOTAL LOAD GROSS (VA)		42828	TOTAL VA
FIRST 10,000VA, VA X 100%		10000	VA
REMAINDER ABOVE 10,000 VA X 40%		13131.2	VA
TOTAL LOAD NET (VA)		23131.2	VA
TOTAL LOAD (AMPS) (VA/240V)		96.4	AMPS
AIR CONDITIONING LOADS			
	1-A/C MIN. CIRCUIT AMPS	0	VA
	2-A/C MIN. CIRCUIT AMPS	0	VA
	3-A/C MIN. CIRCUIT AMPS	0	VA
	4-A/C MIN. CIRCUIT AMPS	0	VA
	SUB POOL MIN. CIRCUIT AMPS	0	VA
	AHU VA (Breaker Amps X Volts X 80%)	0	
TOTAL A/C LOAD (VA)		0	TOTAL VA
TOTAL LOAD (AMPS) (VA/240V)		0	AMPS
TOTAL DEMAND (AMPS)		96.4	AMPS

1 LOAD CALCULATION
SCALE: NTS

UNIRAC
BETTER SOLAR STARTS HERE
1411 BROADWAY BLVD NE
ALBUQUERQUE, NM 87102
PH: 505-242-6411

VERSION

DESCRIPTION	DATE	REV
INITIAL RELEASE	DD/MM/YYYY	UR

PROJECT NAME

CUST. NAME
BLDG NO. STREET,
CITY, STATE ZIP USA
APN# _____
UTILITY: _____
AHJ: _____

SHEET NAME
ELECTRICAL LOAD CALCULATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-6

⚠ WARNING

ELECTRICAL SHOCK HAZARD

TERMINALS ON LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL LOCATION:
MAIN SERVICE PANEL (IF APPLICABLE).
PER CODE(S): CEC 2022: CEC 706.15 (C)(4) & CEC 690.13(B)

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL LOCATION:
UTILITY SERVICE ENTRANCE/METER (WITHIN 3 FEET), INVERTER/DC DISCONNECT IF REQUIRED BY LOCAL AHJ, OR OTHER LOCATIONS AS REQUIRED BY LOCAL AHJ.
PER CODE(S): CEC 2022: 690.56(C)(2)

⚠ WARNING

POWER SOURCE OUTPUT CONNECTION
DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL LOCATION:
SERVICE PANEL IF SUM OF BREAKERS EXCEEDS PANEL RATING
CEC 705.12 (B)(3)(4)

CAUTION
TRI POWER SOURCE

FIRST SOURCE IS UTILITY ELECTRICAL GRID
SECOND SOURCE IS AC BATTERY
THIRD SOURCE IS PV INVERTER

LABEL LOCATION:
POINT OF INTERCONNECTION
MAIN SERVICE PANEL
(CEC 705.12(C) & CEC 690.59)

PHOTOVOLTAIC AC DISCONNECT

MAXIMUM AC OPERATING CURRENT: 48.0 AMPS
NOMINAL OPERATING AC VOLTAGE: 240 VAC

LABEL LOCATION:
AC DISCONNECT(S), PHOTOVOLTAIC SYSTEM POINT OF INTERCONNECTION.
PER CODE(S): CEC 2022: 690.54

PHOTOVOLTAIC POWER SOURCE

LABEL LOCATION:
CONDUIT, INVERTER
(PER CODE: CEC690.31(D)(2)

⚠ CAUTION

PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED

LABEL LOCATION:
MSP (PER CODE: CEC 705.12(B)(3)(4) & CEC 690.59

MAIN PHOTOVOLTAIC SYSTEM DISCONNECT

LABEL LOCATION:
MAIN SERVICE DISCONNECT / UTILITY METER
(PER CODE: CEC 690.13(B))

PHOTOVOLTAIC
AC DISCONNECT

LABEL LOCATION:
AC DISCONNECT/BREAKER/ POINT OF CONNECTION
(PER CODE: CEC 690.13(B)

THE MAXIMUM CURRENT BACKFEED BY THIS SYSTEM TO THE MAIN PANEL MAY BE CONTROLLED ELECTRONICALLY. REFER TO THE MANUFACTURER'S INSTRUCTIONS FOR MORE INFORMATION.

PCS CONTROLLED CURRENT SETTINGS: 160A

LABEL LOCATION:
POINT OF INTERCONNECTION
MAIN SERVICE PANEL

⚠ WARNING

THE DISCONNECTION OF THE GROUNDED CONDUCTOR(S) MAY RESULT IN OVERVOLTAGE ON THE EQUIPMENT

LABEL LOCATION:
INVERTER
PER CODE: CEC 690.31(E)

RATED MAXIMUM POWER-POINT CURRENT (Imp)	38.79	A
RATED MAXIMUM POWER-POINT VOLTAGE (Vmp)	365.75	V
MAXIMUM SYSTEM VOLTAGE (VOC)	479.37	V
MAXIMUM CIRCUIT CURRENT (Isc)	52.01	A

LABEL LOCATION:
DC DISCONNECT, INVERTER
(PER CODE: CEC690.53)

⚠ WARNING

THIS EQUIPMENT FED BY MULTIPLE SOURCES:
TOTAL RATING OF ALL OVERCURRENT DEVICES EXCLUDING MAIN POWER SUPPLY SHALL NOT EXCEED AMPACITY OF BUSBAR

LABEL LOCATION:
POINTS OF CONNECTION/BREAKER
CODE: CEC 705.12(B)(3)(3)

ENERGY STORAGE SYSTEM DISCONNECT

NOMINAL VOLTAGE: 240 VAC
MAX AVAILABLE ISC: AAC
ISC CLEAR TIME: MS
DATE:

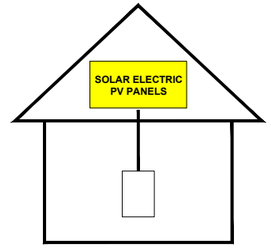
REQ'D BY CEC 706.7(D)
APPLY TO:
BATTERY

4"

3"

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.



LABEL LOCATION:
MAIN SERVICE PANEL
PER CODE(S): 2022 CEC :690.56(C), 2022 CFC : 1205.4.1(1)

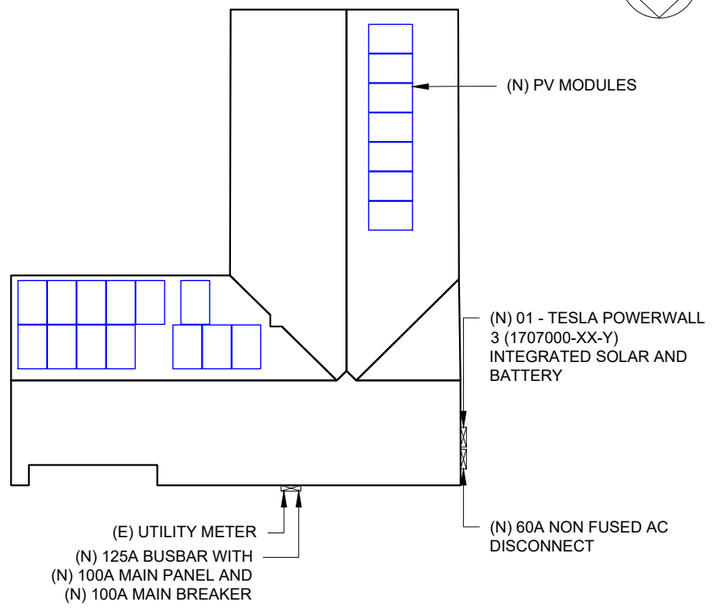
CAUTION !

MULTIPLE SOURCES OF POWER

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN

AT: MAIN SERVICE PANEL & UTILITY METER, BATTERY & INVERTER & AC DISCONNECT

BLDG NO, STREET



UNIRAC
BETTER SOLAR STARTS HERE
1411 BROADWAY BLVD NE
ALBUQUERQUE, NM 87102
PH: 505-242-6411

VERSION

DESCRIPTION	DATE	REV
INITIAL RELEASE	DD/MM/YYYY	UR

PROJECT NAME

CUST. NAME
BLDG NO. STREET,
CITY, STATE ZIP USA
APN# _____
UTILITY: _____
AHJ: _____

SHEET NAME
WARNING LABELS & PLACARD

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-7