



City of Portland, Oregon - Bureau of Development Services

1900 SW Fourth Avenue • Portland, Oregon 97201 | 503-823-7300 | www.portland.gov/bds



Permit Revision Submittal Requirements and Application

A Permit Revision is required when there are proposed changes to the project after the permit has been issued. This may arise due to discrepancies between the city-approved permit drawings and actual field conditions, or the customer has changed their mind about an aspect of the project. In all cases, a revision to the existing permit must be submitted, reviewed and approved.

Minimum Submittal Requirements (check all boxes and sign below):

- ☒ A copy of this application.
- ☒ One PDF copy of plans for electronic submittals or three copies for paper submittals.
- ☒ All plans must clearly reflect the proposed change(s). Changes must be bubbled.
- ☐ Drawings and calculations must be stamped and signed by the Architect and/or the Engineer of Record, if applicable.
- ☐ Project narrative for extensive revisions.
- ☐ One PDF copy of calculations and other supporting documents for electronic submittals or two copies for paper submittals.
- ☒ Copy of Inspector's correction notice, if the revision is due to an inspection correction. One PDF copy for electronic submittals and two copies for paper submittals.

Applicant Information:

Applicant Name Jevi aquino
Street Address 391 Foster city blvd City/State/ZIP foster city ca 94404
Email jevaquino@tesla.com Phone 6502080697
Value of Proposed Revision 0 Issued Permit # 4814619
Job Site Address 3800 NE 36th ave City/State/ZIP portland OR 97212
Description of Revision

Panel layout changed during install per Homeowner request

Applicant Signature *Jevi Aquino* Date 4/21/23

Fees:

An invoice with permit fees will be sent to the applicant once minimum submittal requirements have been verified. Permit Revisions are subject to fees associated with plan review, processing and any increase in project value.

The Bureau of Development Services fee schedule is on the BDS web site: www.portlandoregon.gov/bds/article/102792

Helpful Information:

Bureau of Development Services | City of Portland, Oregon
1900 SW 4th Avenue, Portland, OR 97201
For Hours Call 503-823-7310 or visit www.portlandoregon.gov/bds

Important Telephone Numbers:

BDS main number	503-823-7300
DSC automated information line	503-823-7310
Building code information	503-823-1456
BDS 24-hour inspection request line	503-823-7000
Residential information for one- and two-family dwelling	503-823-7388
General Permit Processing and Fee Estimate info	503-823-7357
Zoning Information Line	503-823-7526
City of Portland TTY	503-823-6868

City of Portland

REVISOR FOR CODE COMPLIANCE

Date: 06/23/22

Permit #: 22-153813-REV 01-RS

ABBREVIATIONS

A AMPERE AC ALTERNATING CURRENT BLDG BUILDING CONC CONCRETE DC DIRECT CURRENT EGC EQUIPMENT GROUNDING CONDUCTOR (E) EXISTING EMT ELECTRICAL METALLIC TUBING FSB FIRE SET-BACK GALV GALVANIZED GEC GROUNDING ELECTRODE CONDUCTOR GND GROUND HDG HOT DIPPED GALVANIZED I CURRENT Imp CURRENT AT MAX POWER Isc SHORT CIRCUIT CURRENT kVA KILOVOLT AMPERE kW KILOWATT LBW LOAD BEARING WALL MIN MINIMUM (N) NEW NEUT NEUTRAL NTS NOT TO SCALE OC ON CENTER PL PROPERTY LINE POI POINT OF INTERCONNECTION PV PHOTOVOLTAIC SCH SCHEDULE S STAINLESS STEEL STC STANDARD TESTING CONDITIONS TYP TYPICAL UPS UNINTERRUPTIBLE POWER SUPPLY V VOLT Vmp VOLTAGE AT MAX POWER Voc VOLTAGE AT OPEN CIRCUIT W WATT 3R NEMA 3R, RAIN TIGHT

ELECTRICAL NOTES

1. THIS SYSTEM IS GRID-INTERTIED VIA A UL-LISTED POWER-CONDITIONING INVERTER.
2. A NATIONALLY-RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH ART. 110.3.
3. WHERE ALL TERMINALS OF THE DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION, A SIGN WILL BE PROVIDED WARNING OF THE HAZARDS PER ART. 690.17.
4. EACH UNGROUNDED CONDUCTOR OF THE MULTI-WIRE BRANCH CIRCUIT WILL BE IDENTIFIED BY PHASE AND SYSTEM PER ART. 210.5.
5. CIRCUITS OVER 250V TO GROUND SHALL COMPLY WITH ART. 250.97, 250.92(B).
6. DC CONDUCTORS EITHER DO NOT ENTER BUILDING OR ARE RUN IN METALLIC RACEWAYS OR ENCLOSURES TO THE FIRST ACCESSIBLE DC DISCONNECTING MEANS PER ART. 690.31(E).
7. ALL WIRES SHALL BE PROVIDED WITH STRAIN RELIEF AT ALL ENTRY INTO BOXES AS REQUIRED BY UL LISTING.
8. MODULE FRAMES SHALL BE GROUNDED AT THE UL-LISTED LOCATION PROVIDED BY THE MANUFACTURER USING UL LISTED GROUNDING HARDWARE.
9. MODULE FRAMES, RAIL, AND POSTS SHALL BE BONDED WITH EQUIPMENT GROUND CONDUCTORS.

JURISDICTION NOTES

22-153813 REV 01 RS

LICENSE

OR # 180498
RGC, CGC1

GENERAL NOTES

1. ALL WORK TO BE DONE TO THE 2022 OSSC and 2021 ORSC
2. ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT NATION ELECTRICAL CODE AS AMENDED BY THE OREGON ELECTRICAL SPECIALTY CODE
3. 2021 Portland Fire Code

MODULE GROUNDING METHOD: ZEP SOLAR

AHJ: Portland

UTILITY: Pacific Power (OR)

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JOB NUMBER: JB-9725983 00

MOUNTING SYSTEM: ZS Comp V4 w Flashing-Insert

MODULES: (36) Tesla # T400H

INVERTER: Multiple Inverters

CUSTOMER: Colin Nederkoorn
3800 NE 36th Ave
Portland, OR 97212

9717129375

DESCRIPTION: 14.4 KW PV ARRAY
27 KWH ENERGY STORAGE SYSTEM

PAGE NAME: COVER SHEET

DESIGN: Taylor Gurney

SHEET: 1

REV: B

DATE: 2/22/2023

TESLA

VICINITY MAP

INDEX

Sheet 1 COVER SHEET

Sheet 2 PROPERTY PLAN

Sheet 3 SITE PLAN

Sheet 4 STRUCTURAL VIEWS

Sheet 5 UPLIFT CALCULATIONS

Sheet 6 ELEVATION

Sheet 7 THREE LINE DIAGRAM

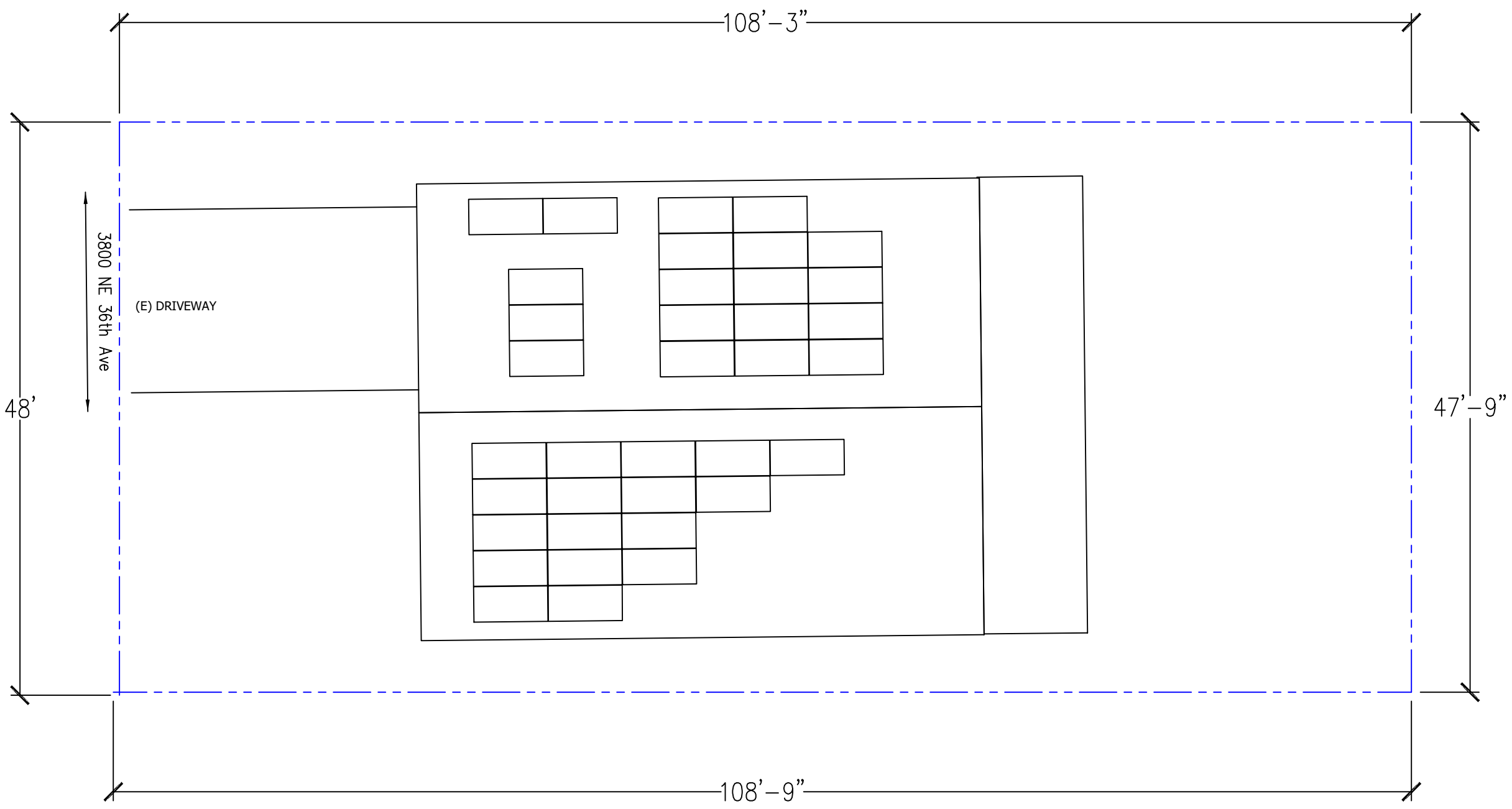
Cutsheets Attached

REV	BY	DATE	COMMENTS
REV A	IF	6/23/22	Site plan updated
REV B	TG	2/22/2023	adjusted layout to avoid shade
*	*	*	*
*	*	*	*
*	*	*	*

City of Portland
REVIEWED FOR CODE COMPLIANCE

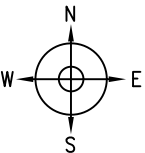
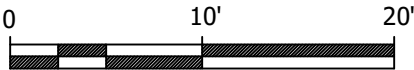
Date: 04/27/23

Permit #: 22-153813-REV-01-RS



PROPERTY PLAN

Scale: 1" = 10'-0"



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DESIGN:
Taylor Gurney

SHEET: 2
REV: B
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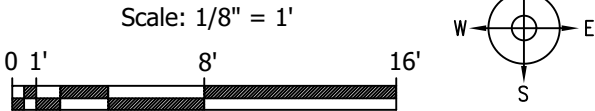
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MP1	PITCH: 30° (7:12) ARRAY PITCH: 30° (7:12) AZIMUTH: 179 ARRAY AZIMUTH: 179 MATERIAL: Comp Shingle STORY: 2 Stories
MP2	PITCH: 30° (7:12) ARRAY PITCH: 30° (7:12) AZIMUTH: 359 ARRAY AZIMUTH: 359 MATERIAL: Comp Shingle STORY: 2 Stories

LEGEND

- (M) UTILITY METER & WARNING LABEL
- (Inv) INVERTER W/ INTEGRATED DC DISCO & WARNING LABELS
- RELAY TESLA BACKUP GATEWAY
- DC DC DISCONNECT & WARNING LABELS
- AC AC DISCONNECT & WARNING LABELS
- (B) DC JUNCTION/COMBINER BOX & LABELS
- (ESS) TESLA POWERWALL+
- (D) DISTRIBUTION PANEL & LABELS
- (LC) LOAD CENTER & WARNING LABELS
- (M) DEDICATED PV SYSTEM METER
- (RSD) RAPID SHUTDOWN
- STANDOFF LOCATIONS
- CONDUIT RUN ON EXTERIOR
- - - CONDUIT RUN ON INTERIOR
- GATE/FENCE
- HEAT PRODUCING VENTS ARE RED
- - - INTERIOR EQUIPMENT IS DASHED

SITE PLAN



TOTAL ARRAY AREA (SF): 781
TOTAL ROOF AREA (SF): 2423
TOTAL ARRAY AREA IS \approx 32.22
PERCENT OF TOTAL ROOF AREA

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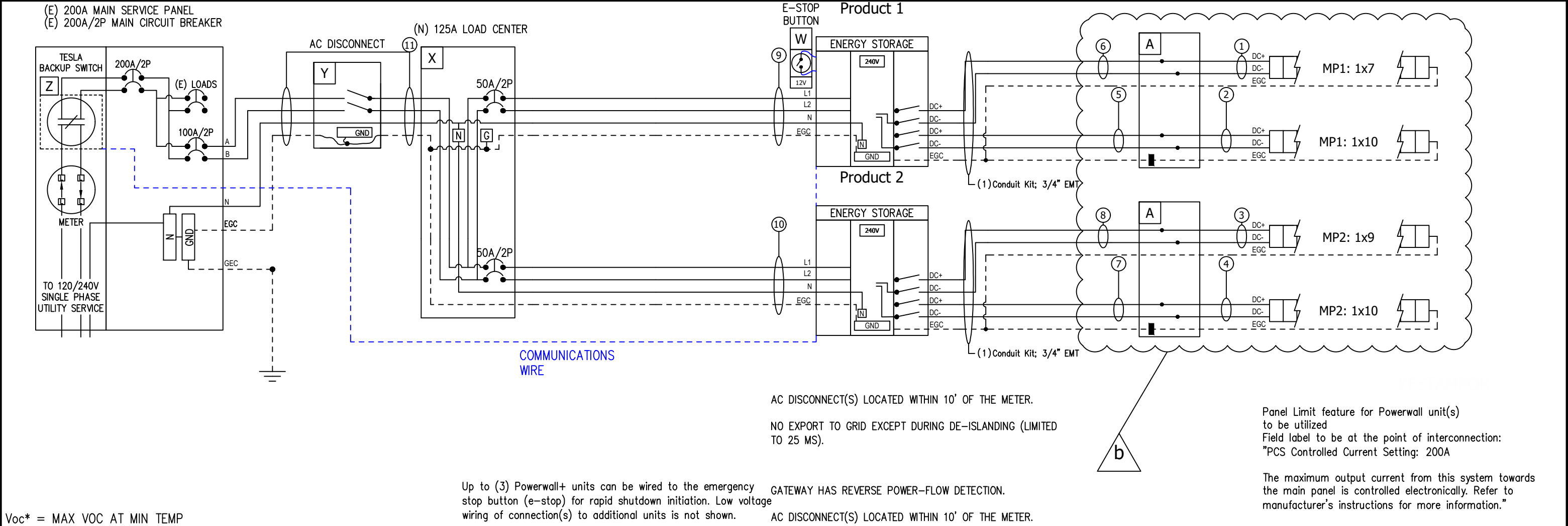
PAGE NAME:
SITE PLAN

DESIGN:
Taylor Gurney

SHEET: 3
REV: B
DATE: 2/22/2023

TESLA

	MAIN PANEL SPECS	GENERAL NOTES	PRODUCT SPECS		MODULE SPECS	LICENSE
	Panel Number: MBE2040P200TS Meter Number: 77589743 Overhead Service Entrance	Inv 1: DC Ungrounded Inv 2: DC Ungrounded	1	– (1) Powerwall+ [240V] #1850000–00–C / PVI Assy. 1538000–35–F	– (36) Tesla # T400H PV Module, 400W, 371.5 PTC, 40MM, Black Frame, MC4/MC4–EV02, ZEP, 1000V Voc: 45.3 Vpmax: 37.13 Isc AND Imp ARE SHOWN IN THE DC STRINGS IDENTIFIER	OR # 180498 RGC, CGC1
			2	– (1) Powerwall+ [240V] #1850000–00–C / PVI Assy. 1538000–25–F		
			3			



Z	(1) 1624171-00-G Backup Switch	9	(1) AWG #8, THWN-2, Black (1) AWG #8, THWN-2, Red (1) AWG #8, THWN-2, Green EGC – (1) Conduit Kit; 3/4" EMT	AC	GD	– Please see MCI wiring detail page for more information
POI	(1) Ground Rod 5/8" x 8', Copper (1) CUTLER-HAMMER # BR2100 Breaker; 100A/2P, 2 Spaces	10	(1) AWG #8, THWN-2, Black (1) AWG #8, THWN-2, Red (1) AWG #8, THWN-2, Green EGC – (1) Conduit Kit; 3/4" EMT	DC	A	(2) Tesla 4J 4-String Combiner Box UNFUSED, GROUNDED, Black, Diag DIN Rail with Bracket/ Cord Grip
Y	(1) CUTLER-HAMMER # DG100NB Ground/Neutral Kit; 60-100A, General Duty (DG) (1) CUTLER-HAMMER # DG223URB Disconnect; 100A, 240Vac, Non-Fusible, NEMA 3R	11	(1) AWG #3, THWN-2, White (1) AWG #3, THWN-2, Red (1) AWG #3, THWN-2, Black – (1) Conduit Kit; 1-1/4" EMT		PV	(14) Tesla MCI, 650V, 12A
X	(1) SQUARE D #HOM1224L125PC Load Center; 125A, Convertible, NEMA1, 12sp/24cir, 120v/240v, Combo Cover (2) SQUARE D # HOM250 Breaker; 50A/2P, 2 Spaces			5		(2) PV Wire, AWG 10 (1) AWG #10, Solid Bare Copper EGC
W	(1) UL 508 Emergency Stop Device – NEMA 4X			6		(2) PV Wire, AWG 10 (1) AWG #10, Solid Bare Copper EGC
				7		(2) PV Wire, AWG 10 (1) AWG #10, Solid Bare Copper EGC
				8		(2) PV Wire, AWG 10 (1) AWG #10, Solid Bare Copper EGC

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