

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

NOTE: • 3/4" OR GREATER IMC, RMC, FMC, LFMC, PVC, HDPE, NUCC, RTRC, LFNC, FMT, ENT OR EMT CONDUIT RUN EXPOSED CONDUIT RUN SHALL BE MIN. 7/8" ABOVE ROOF. * ROMEX RUN INSIDE ATTIC

LEGEND	
JB	JUNCTION BOX
SLC	SOLAR LOAD CENTER
UM	UTILITY METER
ACD	KNIFE-BLADE TYPE LOCKABLE LOAD-BREAK DISCONNECT
MSP	MAIN SERVICE PANEL
	FENCE
	GATE
	PROPERTY LINE
	CONDUIT
	TREES
	VENT, ATTIC FAN (ROOF OBSTRUCTION)
	CHIMNEY

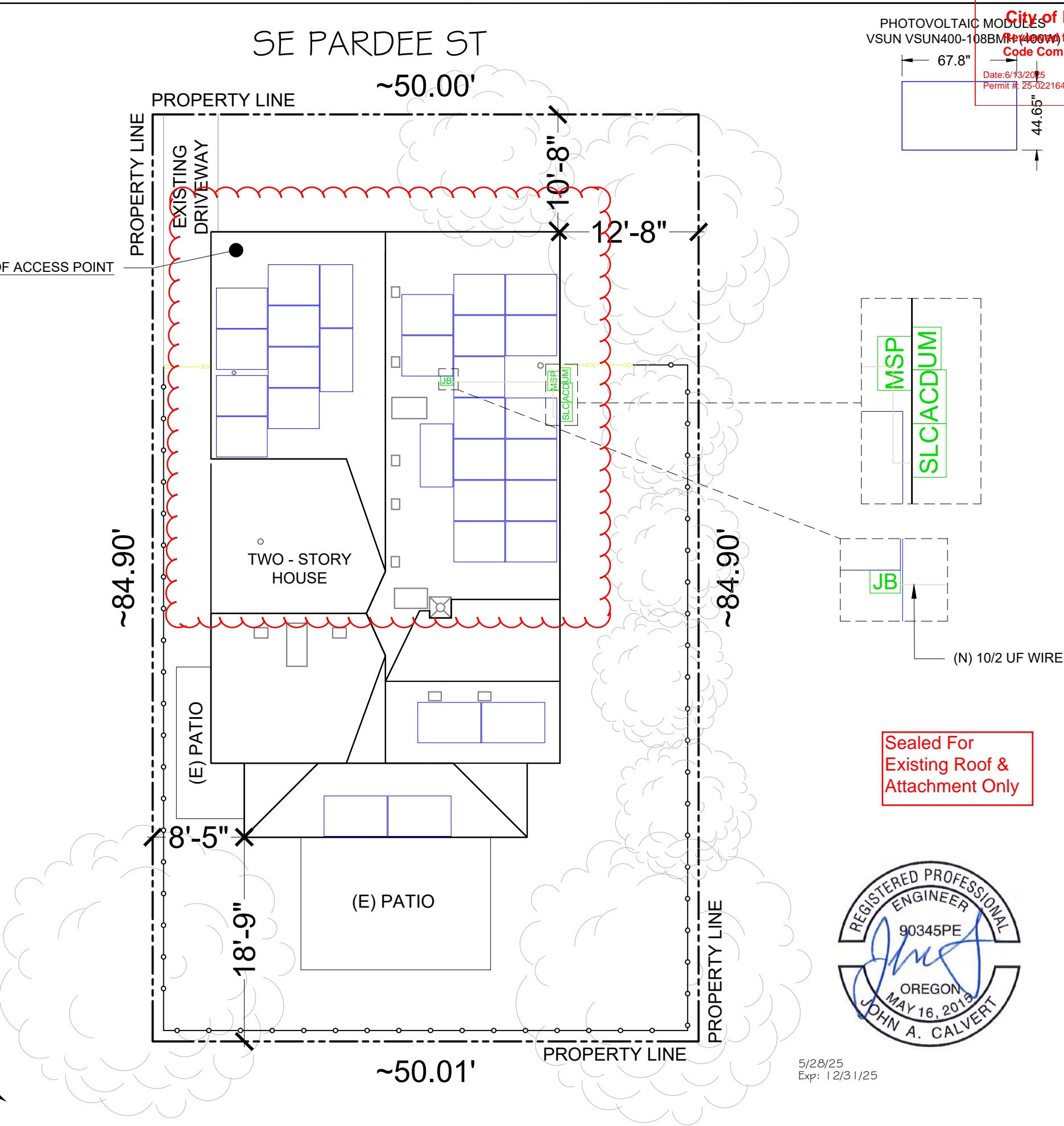
NOTE: 1.5" ABS ROOF VENT IS TO BE RELOCATED

1 SITE PLAN WITH ROOF PLAN

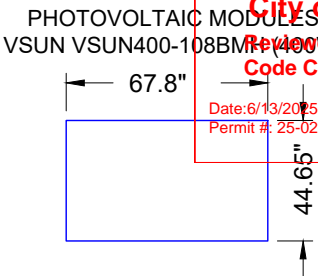
SCALE: 1" = 10'



ROOF ACCESS POINT



5/28/25
Exp: 12/31/25



City of Portland
Review for
Code Compliance
Date: 6/13/2025
Permit #: 25-022164-REV-01-RS

WIRE NUTZ
ELECTRICAL
SERVICES, LLC
13023 NE HWY 99 SUITE 7
PMB #264, VANCOUVER, WA 98686
PHONE: (360) 609 - 2714
WA - LICENSE #: WIRENNE892J6
OR - LICENSE #: 189913
EMAIL: solar@wirenutzelectric.com

VERSION		
DESCRIPTION	DATE	REV
INITIAL RELEASE	03-14-2025	UR

PROJECT NAME

ANDREA DESIMONE
5820 SE PARDEE ST.,
PORTLAND, OR 97206, USA
UTILITY: PGE (PORTLAND GENERAL
ELECTRIC)
APN: 1S2E18AA -18800
AHJ: CITY OF PORTLAND

SHEET NAME
SITE PLAN WITH
ROOF PLAN

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-1

MODULE TYPE, DIMENSIONS & WEIGHT

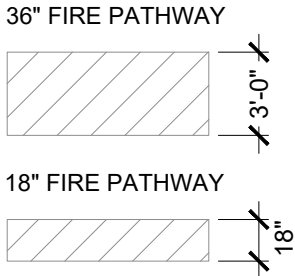
NUMBER OF MODULES = 30 MODULES
MODULE TYPE = VSUN VSUN400-108BMH (400W) MODULES
MODULE WEIGHT = 47.18 LBS / 21.4 KG
MODULE DIMENSIONS = 67.8" X 44.65" = 21.02 SF
UNIT WEIGHT OF ARRAY = 2.24 PSF

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NOTE: • 3/4" OR GREATER IMC, RMC, FMC, LFMC, PVC, HDPE, NUCC, RTRC, LFNC, FMT, ENT OR EMT CONDUIT RUN EXPOSED CONDUIT RUN SHALL BE MIN. 7/8" ABOVE ROOF. * ROMEX RUN INSIDE ATTIC

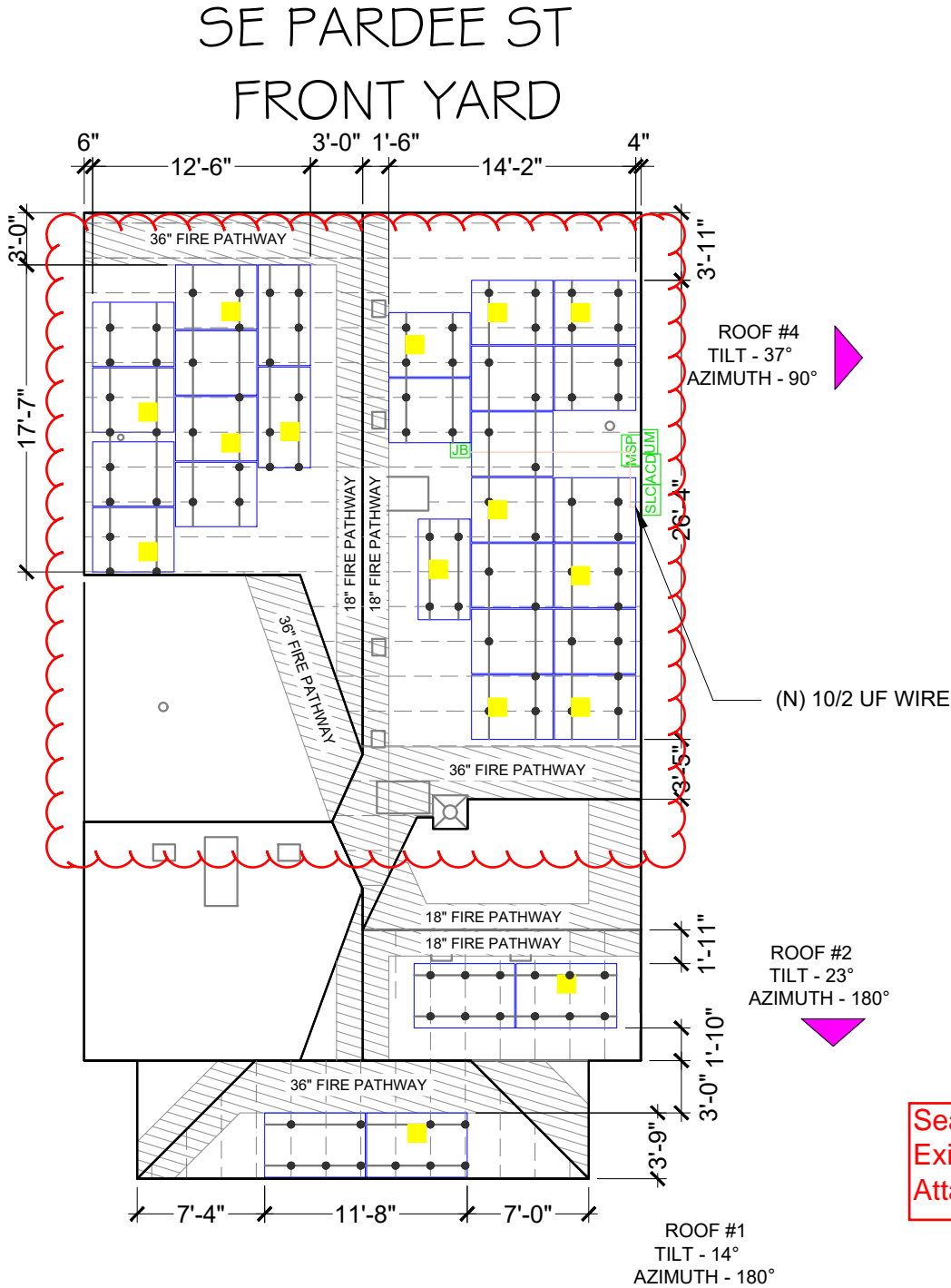
NOTE: ACTUAL ROOF CONDITIONS AND RAFTERS (OR SEAM) LOCATIONS MAY VARY. INSTALL PER MANUFACTURER(S) INSTALLATION GUIDELINES AND ENGINEERED SPANS FOR ATTACHMENTS

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



1 ROOF PLAN WITH MODULES

SCALE: 1" = 10'



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 (%)
630.68	1879	33.56%
34%	ROOF AREA (ARRAY<25% OF ROOF AREA)	

BILL OF MATERIALS		
EQUIPMENT	QTY	DESCRIPTION
RAIL	22	UNIRAC NXT UMount RAIL - 168" DARK
RAIL SPLICE	8	NXT UMount RAIL SPLICE
UNIVERSAL CLAMP	80	NXT UMount COMBO CLAMP - DARK
RAIL CLAMP	96	STRONGHOLD RAIL CLAMP DRK
ACCESSORIES	40	NXT UMount RL & CLMP CAP KIT
MLPE & GROUNDING	40	NXT UMount MLPE & LUG CLAMP
FLASHING	96	UNIRAC FLASHKIT PRO, MILL 10PK

ROOF DESCRIPTION					
ROOF TYPE			ASPHALT SHINGLE		
ROOF	# OF MODULES	ROOF TILT	AZIMUTH	RAFTERS SIZE	RAFTERS SPACING
#1	2	14°	180°	2" X 4"	24" O.C
#2	2	23°	180°	2" X 4"	24" O.C
#3	10	37°	270°	2" X 4"	24" O.C
#4	16	37°	90°	2" X 4"	24" O.C

Sealed For Existing Roof & Attachment Only



5/28/25
Exp: 12/31/25

LEGEND	
JB	JUNCTION BOX
SLC	SOLAR LOAD CENTER
UM	UTILITY METER
ACD	KNIFE-BLADE TYPE LOCKABLE LOAD-BREAK DISCONNECT
MSP	MAIN SERVICE PANEL
AP SYSTEM DS3-S MICRO INVERTER	
CONDUIT	
UNIRAC NXT UMount RAIL	
ROOF ATTACHMENT - UNIRAC FLASHKIT PRO @48" & 24" O.C	
VENT, ATTIC FAN (ROOF OBSTRUCTION)	
RAFTERS	
CHIMNEY	

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SHEET NAME

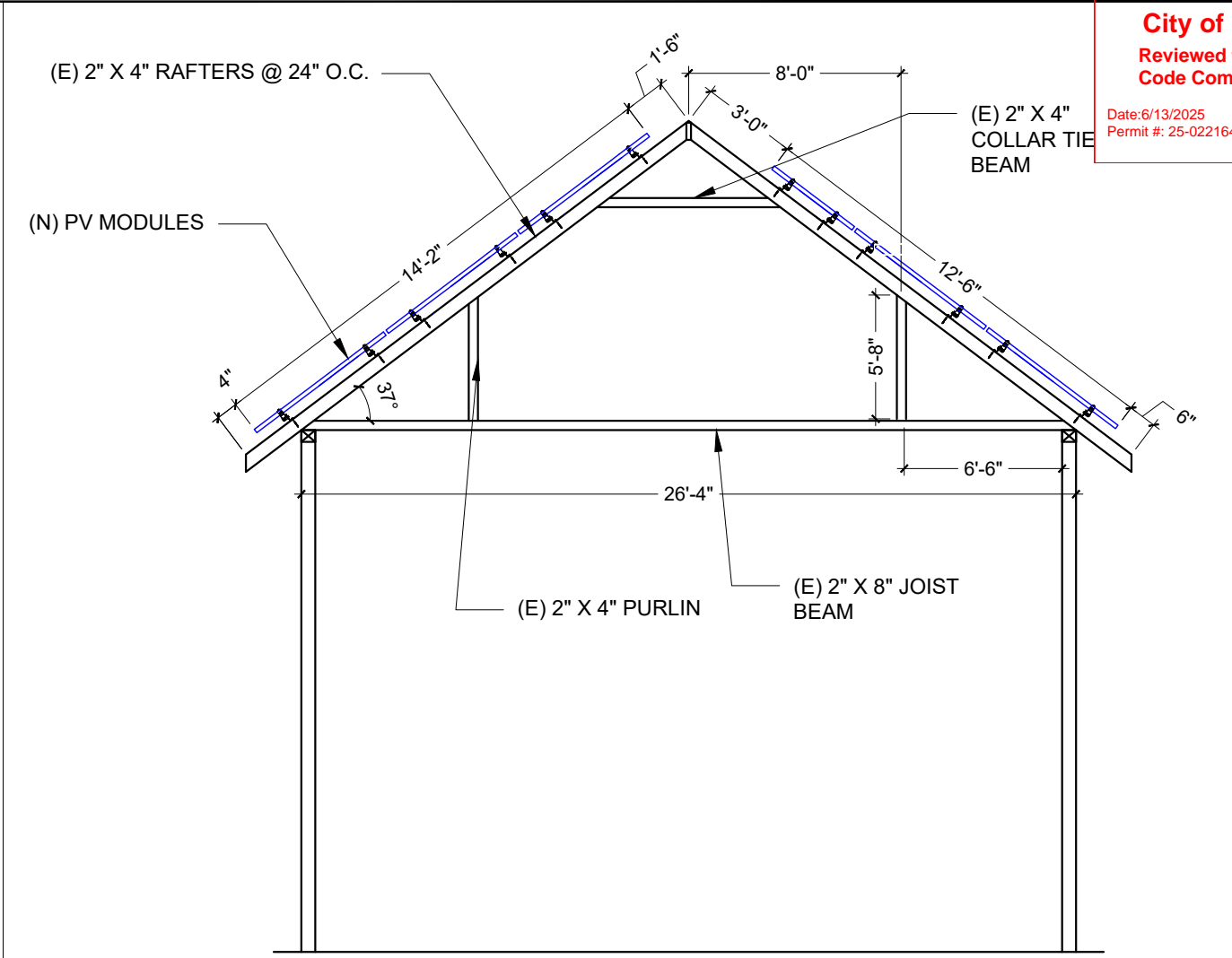
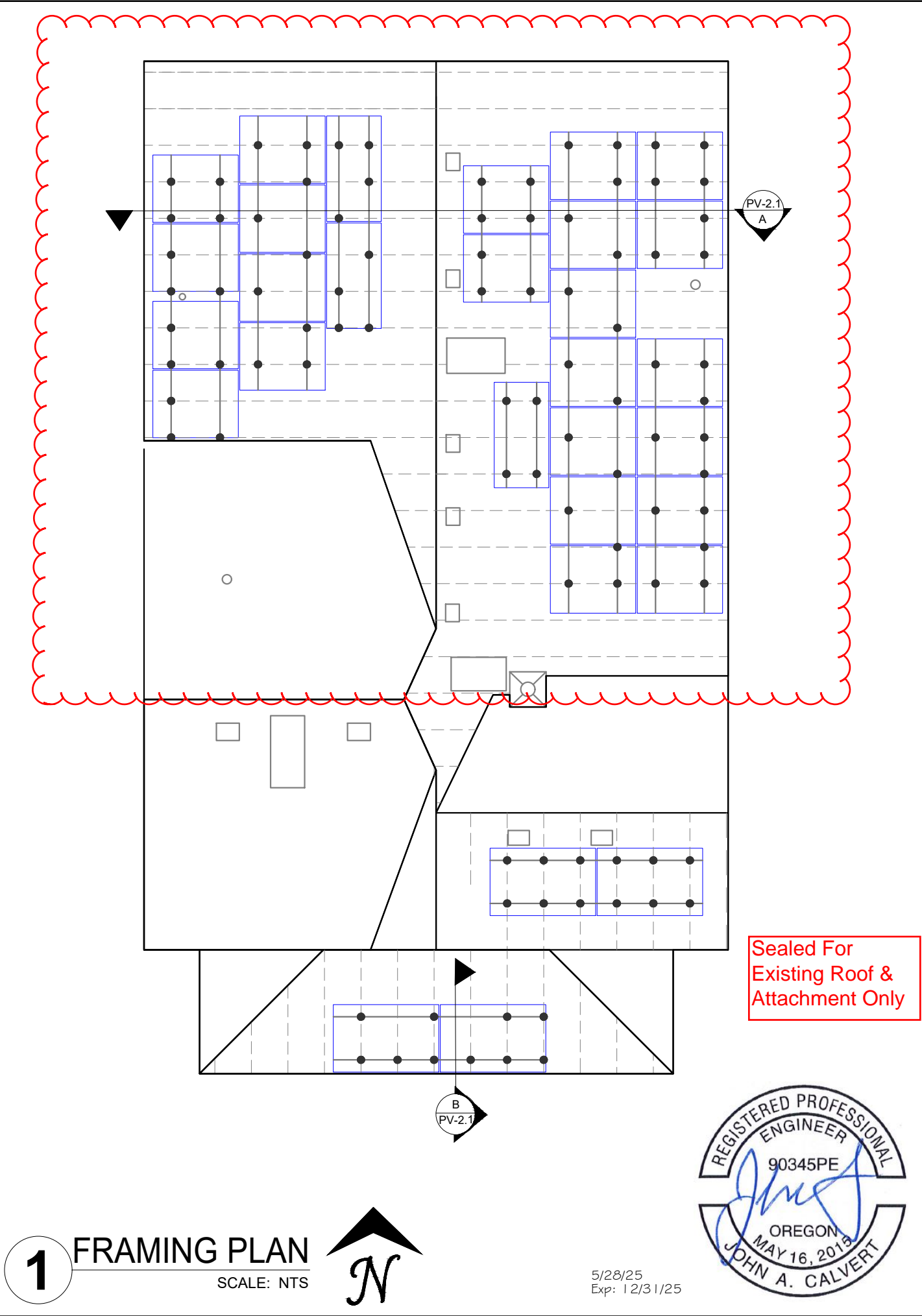
ROOF PLAN WITH MODULES

SHEET SIZE

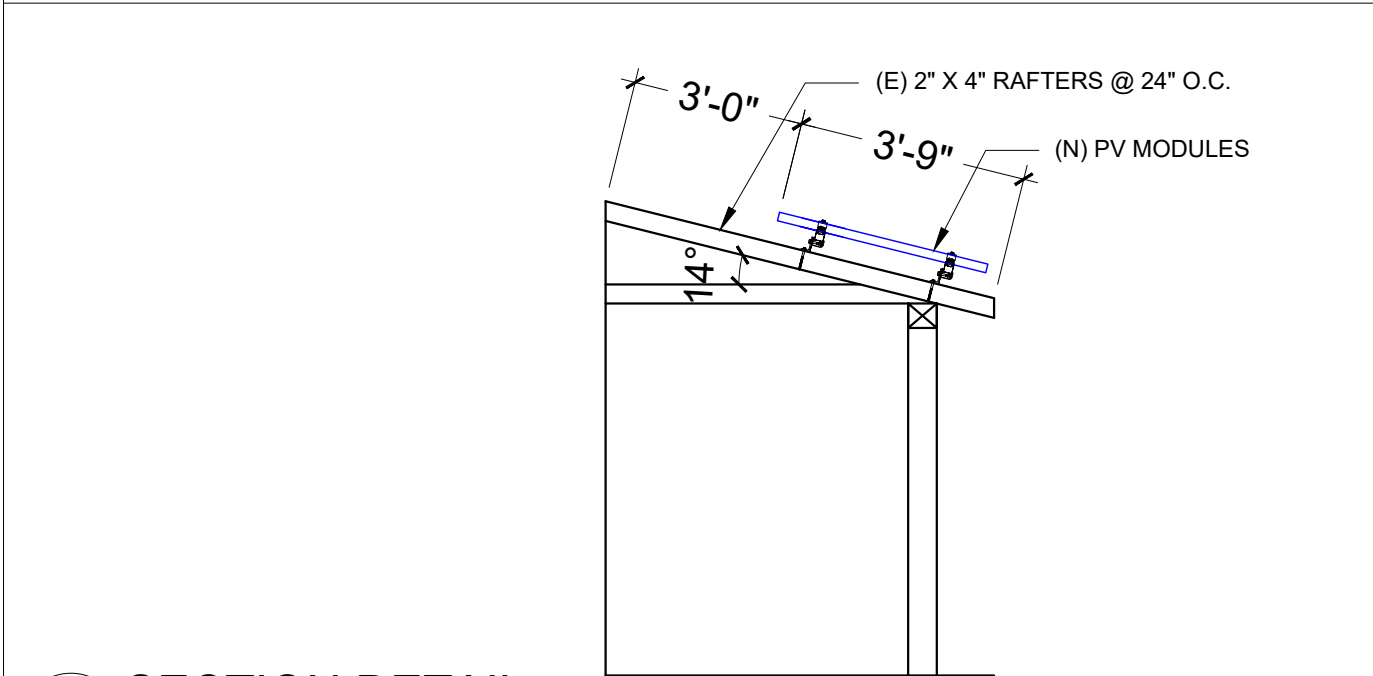
ANSI B
11" X 17"

SHEET NUMBER

PV-2



A SECTION DETAIL
PV-2.1 SCALE: NTS



B SECTION DETAIL
PV-2.1 SCALE: NTS

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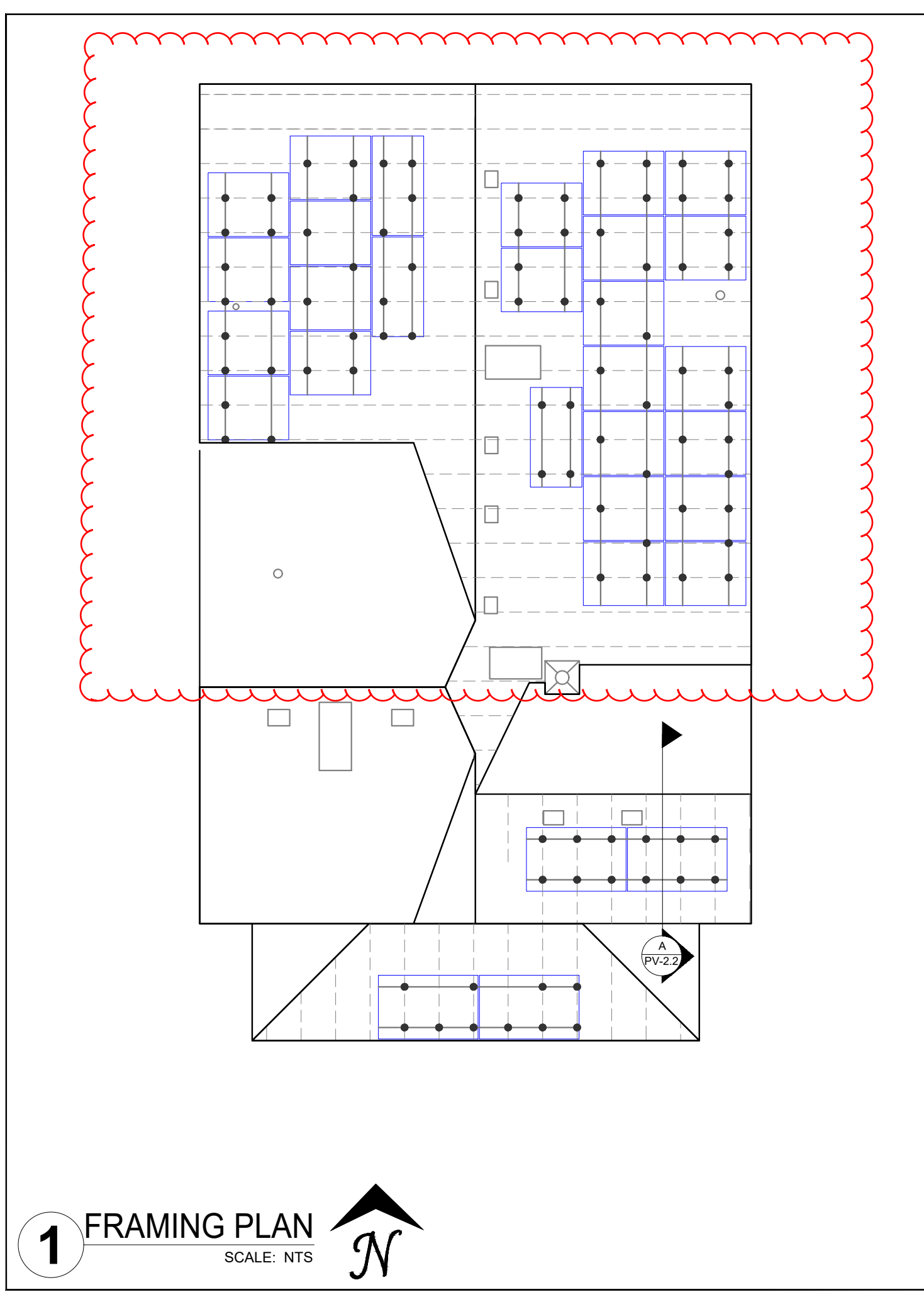
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AHJ: CITY OF PORTLAND

SHEET NAME
FRAMING PLAN
SHEET SIZE
ANSI B 11" X 17"
SHEET NUMBER
PV-2.1



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REGISTERED PROFESSIONAL
ENGINEER
90345PE
OREGON
MAY 16, 2019
JOHN A. CALVERT

5/28/25
Exp: 12/31/25

(N) PV MODULES

(E) 2" X 4" RAFTERS @ 24" O.C.

1'-10"

3'-8"

1'-11"

14°

A

PV-2.2

SECTION DETAIL

SCALE: NTS

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SHEET NAME

FRAMING PLAN

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

PV-2.2