City of Newberg

PERMIT #: RADR-26-3

ISSUE DATE: February 11, 2026

General Questions: 503. 537.1240
Email Address: building@newbergoregon.gov

AFI / RFI / REVISIONS & DEFERRAL PERMIT
BUILDING DEPARTMENT

SITE ADDRESS: 501 N HARRISON ST Newberg, OR. 97132 **PARCEL #:** R3218DC 05301 **PERMIT TYPE:** Residential

TYPE OF WORK: true

DETAILED DESCRIPTION OF WORK: The homeowner has requested a change in the layout of their PV modules. Please see the changes on sheet S-3 of the revised plan set.

ASI / RFI /REVISION #:

ORIGINAL PERMIT # : BLD-25-346

PROJECT NAME *(if applicable)*:

TOTAL PERMIT FEE'S PAID: $$113.63

AUTHORIZED PERMIT HOLDERS

APPLICANT: ION Developer LLC SOLAR **PHONE:** 8887817074

MAILING ADDRESS: 44 E 800 N Orem, Utah. 84057

CONTRACTOR: ION DEVELOPER LLC **PHONE:** 8887817074

MAILING ADDRESS: 44 E 800 N **CCB #:** 230394

ADDITIONAL INFORMATION/CONDITIONS OF APPROVAL/COMMENTS

ALL WORK IS TO CONFORM TO THE CURRENT EDITION OF THE CURRENT EDITION OF THE ORSC & OSCC.

INSPECTIONS REQUESTED PRIOR TO 7AM WILL BE COMPLETED THE SAME BUSINESS DAY.

INSPECTION RECEIVED AFTER 7AM WILL BE SCHEDULED FOR THE NEXT BUSINESS DAY.

Schedule or track inspections at www.newbergor.portal.opengov.com OR Call 503.554.7714 leave PERMIT # RADR-26-3, address & type of Insp.

THIS PERMIT EXPIRES 6 MO FROM ABOVE DATE IF WORK IS NOT STARTED OR IF WORK IS SUSPENDED OR ABANDONED FOR 180 DAYS OR LONGER AFTER WORK HAS COMMENCED.

A copy of the building permit & 1 set of approved construction documents are to be available for review at the work site.

All persons or entities performing work under this permit are required to be licensed unless exempted by ORS 701.010 (Structural/Mechanical), and ORS 693.010-020 (Plumbing).

8.15.150 UNNECESSARY NOISE–PERMITTED EXCEPTIONS. UNREASONABLE NOISE AND EXCEPTIONS.

3. The following acts are declared to be per se violations of this section. This enumeration does not constitute an exclusive list:
j. Construction or Repair of Buildings, or Excavation of Streets and Highways. The construction, demolition, alteration or repair of any building or the excavation of streets and highways other than between the hours of 7:00 a.m. and 7:00 p.m. on weekdays. In cases of emergency, construction or repair noises are exempt from this provision. In nonemergency situations, the city may issue a permit, upon application, if the city determines that the public health and safety, as affected by loud and raucous noise caused by construction or repair of buildings or excavation of streets and highways between the hours of 7:00 p.m. and 7:00 a.m. will not be impaired, and if the city further determines that loss or inconvenience would otherwise result. The permit shall grant permission in nonemergency cases for a period of not more than three days. The permit may be renewed once for a period of three days or less.

NEWBERG CITY HALL **414 E FIRST ST** **Web address: newbergoregon.gov**

City of Newberg, OR

Inspection Report

Inspection: Building Final Inspection

Inspector: BLD- Brooks Bateman

Inspection Date: May 20, 2026

Record: *RFI/ASI/Deferred/Revision Permit #RADR-26-3

Location: 501 N HARRISON ST, Newberg, OR 97132

Applicant: ION Developer LLC SOLAR

BUILDING FINAL INSP

Overall Result: Pass

AERIAL SITE VIEW

SCOPE OF WORK

INSTALLATION OF UTILITY INTERACTIVE FIXED-TILT, PHOTOVOLTAIC SOLAR SYSTEM,

10.56 kW DC & 7.6 kW AC PHOTOVOLTAIC SOLAR ARRAY

PV MODULES: (24) SILFAB SOLAR SIL-440 QD DCA3

INVERTER(S): (1) SOLAREDGE SE7600H-US

ROOF TYPE: COMPOSITION SHINGLE - 1 LAYER(S)

PV MOUNTING HARDWARE: UNIRAC NXT DOM CON

SHEET LIST

JURISDICTION CODES AND STANDARDS

GOVERNING CODES

1. ALL WORK SHALL COMPLY WITH:

2023 OREGON ELECTRICAL SPECIALTY CODE (OESC)

2022 OREGON STRUCTURAL SPECIALTY CODE (OSSC)

2023 OREGON RESIDENTIAL SPECIALTY CODE (ORSC)

2022 OREGON FIRE CODE (IFC)

2021 OREGON PLUMBING SPECIALTY CODE

AND ALL STATE AND LOCAL BUILDING, ELECTRICAL, AND PLUMBING CODES.

SITE CLASSIFICATION NOTES, OSHA REGULATION

OCCUPANCY CLASS: SFR

CONSTRUCTION CLASS: V-B

ZONING TYPE: RESIDENTIAL

1. A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.

2. MODULES HAVE AN ANTI-REFLECTIVE COATING TO PREVENT GLARE
3. FOR PROJECTS SUBMITTED FOR PRESCRIPTIVE REVIEW, ROOF ATTACHMENTS SHALL BE SPACED NO GREATER THAN 24" ON CENTER IN ANY DIRECTION WHERE LOCATED WITHIN 3' OF A ROOF EDGE, HIP, EAVE, OR RIDGE OSSC 3111.3.5.3 ITEM 5 EXCEPTION 1.2
JUNCTION BOXES UNDER PV ARRAY SHALL BE INSTALLED TO BE CONSIDERED ACCESSIBLE BY OESC 690.34

ELECTRICAL CRITERIA, NOTES

TEMPERATURE SOURCE: ASHRAE

WEATHER STATION: AURORA STATE AP

EXTREME MIN. TEMPERATURE: -5

ASHRAE 0.4% HIGH TEMP: 37

1. DRAWINGS HAVE BEEN DETAILED ACCORDING TO UL LISTING REQUIREMENTS.

2. TERMINALS AND LUGS WILL BE TIGHTENED TO MANUFACTURER TORQUE SPECIFICATIONS (WHEN PROVIDED) IN ACCORDANCE WITH NEC 110.14(D) ON ALL ELECTRICAL.

3. PV MODULE CERTIFICATIONS WILL INCLUDE UL1703, IEC61646, IEC61730.

4. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING AS REQUIRED BY FIELD CONDITIONS.

5. PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED AS PER SECTION [NEC 110.26].

6. WHERE PV CABLES ON ROOFTOP WOULD OTHERWISE BE EXPOSED TO PHYSICAL DAMAGE, 3/4" EMT SHALL BE USED TO PROTECT CABLES

STRUCTURAL CRITERIA, NOTES

DESIGN LOAD STANDARD: ASCE 7-16

WIND EXPOSURE CATEGORY: B

WIND SPEED (3-SEC GUST): 96 MPH

GROUND SNOW LOAD: 36 PSF

DESIGN ROOF SNOW LOAD: 25 PSF

SEISMIC DESIGN CATEGORY: D

SEISMIC RISK FACTOR: II

1/19/2026

REGISTERED PROFESSIONAL ENGINEER
98950PE
OREGON
JAN 11, 2022
ALAN ROWLEY

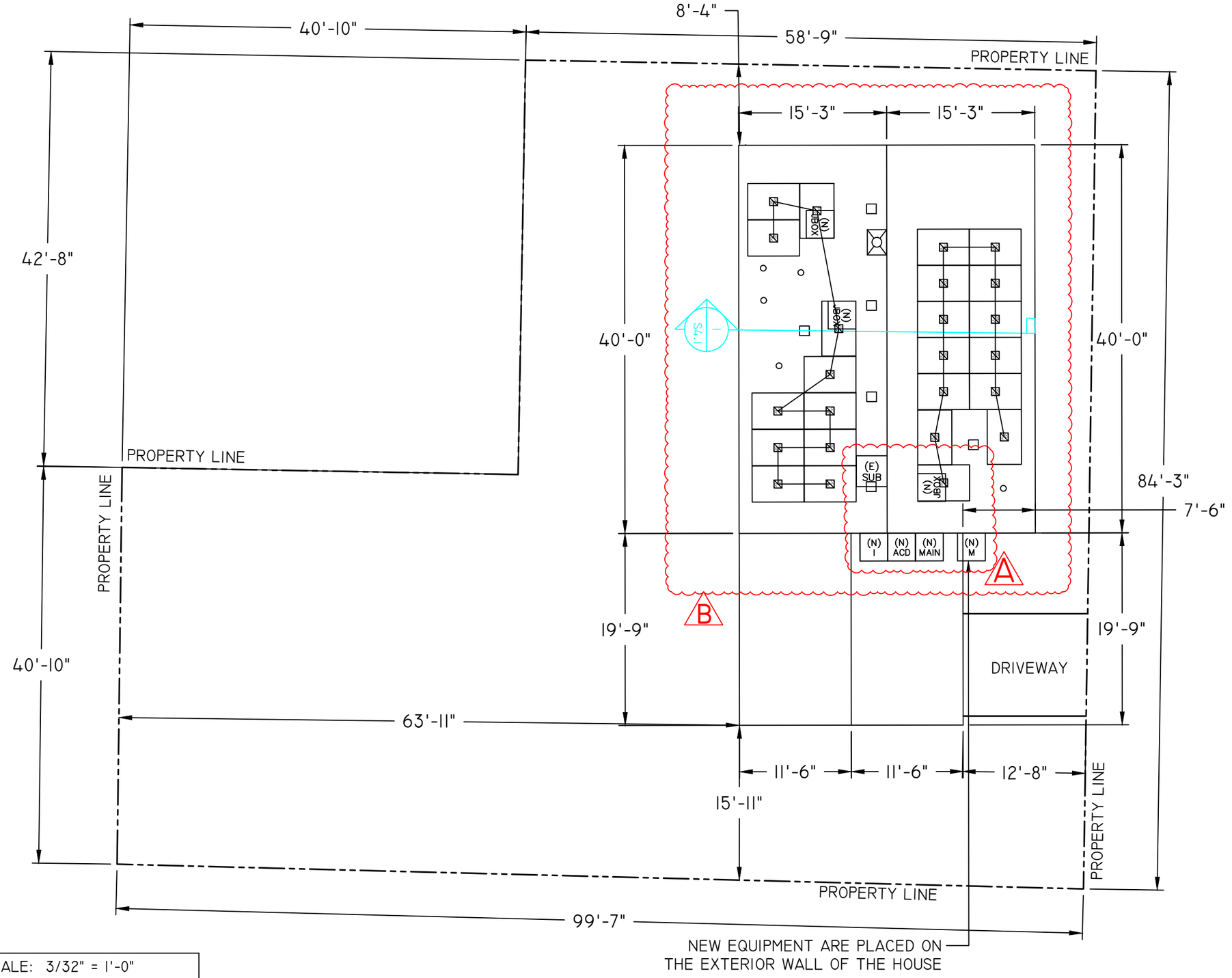
EXPIRES: 12/31/26

NABCEP BOARD CERTIFIED
PV INSTALLATION PROFESSIONAL
SCOTT A. QUINNEY
#PV-011719-015866
EXP. 9-17-2028

ION DEVELOPER LLC
DAVID STANLEY CONRAD
C - ELECTRICAL CONTRACTOR
CI524

ION SOLAR
44 E 800 N
OREM, UTAH 84057
888.781.7074

PROJECT ID	00GT58
SITE OWNER	LINDA M WALKER
SITE ADDRESS	501 N HARRISON ST NEWBERG, OREGON 97132
EQUIP.	(24) SILFAB SOLAR SIL-440 QD DCA3 (1) SOLAREDGE SE7600H-US
SYSTEM SIZE	10.56KW DC 7.6KW STC-AC, 9.864KW CEC-AC
PROJECT DESIGNER	SURENDRA
DATE	19-Jan-2026
SHEET NAME	COVER SHEET
SHEET #	G-1
REV	B



1/19/2026

REGISTERED PROFESSIONAL ENGINEER
98950PE
OREGON
JAN 11, 2022
ALAN ROWLEY

EXPIRES: 12/31/26

NABCEP BOARD CERTIFIED
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#PV-011739-015866
EXP. 9-17-2028

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C - ELECTRICAL CONTRACTOR
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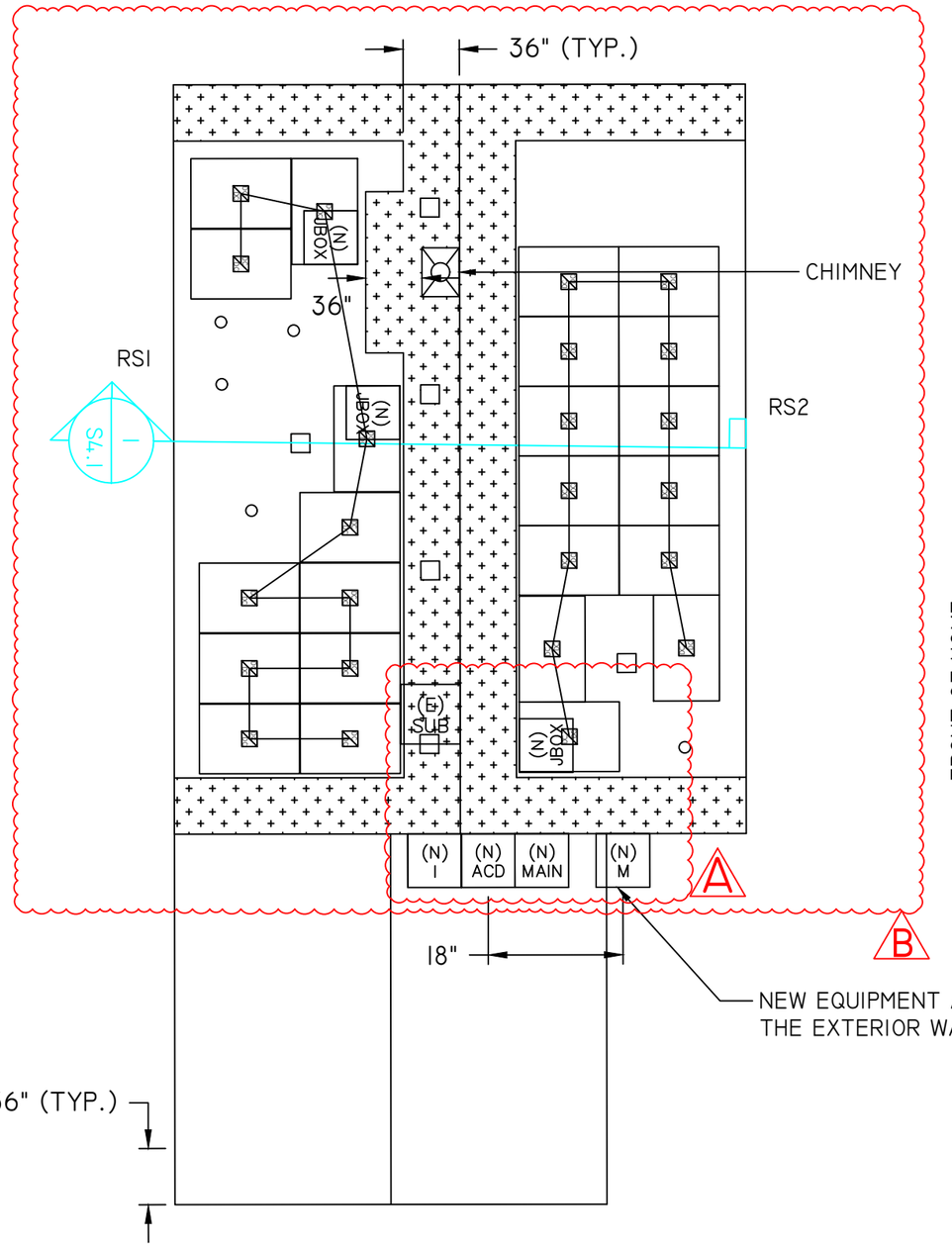
PROJECT DESIGNER	SURENDRA
DATE	19-JAN-2026
SHEET NAME	SITE PLAN
SHEET #	V-2
REV	B

FOR PROJECTS SUBMITTED FOR PRESCRIPTIVE REVIEW, ROOF ATTACHMENTS SHALL BE SPACED NO GREATER THAN 24" ON CENTER IN ANY DIRECTION WHERE LOCATED WITHIN 3' OF A ROOF EDGE, HIP, EAVE, OR RIDGE OSSC 3III.3.5.3 ITEM 5 EXCEPTION I.2

JUNCTION BOXES UNDER PV ARRAY SHALL BE INSTALLED TO BE CONSIDERED ACCESSIBLE BY OESC 690.34

FOR ANY METER UPGRADES, ENSURE THAT THE UTILITY METER IS LOCATED WITHIN I0FT OF THE FRONT/STREET-SIDE OF THE HOUSE. PLEASE ADD A LABEL SHOWING THE DISTANCE FROM THE FRONT CORNER OF THE HOUSE.



FRONT OF HOME

501 N HARRISON ST

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

0' 2' 4' 8' 16'

SYSTEM LEGEND

- (N) M — (N) UTILITY METER / MAIN SERVICE PANEL
- (N) MAIN — (N) MAIN SERVICE PANEL
- (E) SUB — (E) SUBPANEL
- (N) C — (N) PV COMBINER PANEL
- (N) LC — (N) PV LOAD CENTER
- (N) PVM — (N) PV PRODUCTION METER
- (N) I — (N) DC-DC / STRING INVERTER
- (N) JBOX — (N) JUNCTION BOX
- (N) ACD — (N) AC DISCONNECT (VISIBLE-OPEN LOCKABLE LABELED DISCONNECT)
- DC/DC — (N) DC-DC OPTIMIZER
- (N) DCD — (N) DC DISCONNECT
- S# — SUNEYE LOCATION
- FIRE SETBACK
- (N) PV MODULE
- STRUCTURALLY DISQUALIFIED

ROOF SECTION CRITERIA AND SPECIFICATIONS

ROOF SECTION	PV MODULE QTY	AZIMUTH	PITCH	TSRF
RS1	II	270	I9	78%
RS2	I3	90	I9	75%

B

1/19/2026

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98950PE
OREGON
JAN 11, 2022
ALAN ROWLEY

EXPIRES: 12/31/26

NABCEP BOARD CERTIFIED
PV INSTALLATION PROFESSIONAL
SCOTT A. GURNEY
#PV-011738-015866
EXP. 3-17-2028

ION DEVELOPER LLC
DAVID STANLEY CONRAD
C - ELECTRICAL CONTRACTOR
CI524

ION SOLAR
44 E 800 N
OREM, UTAH 84057
888.781.7074

PROJECT ID
00GT58

SITE OWNER
LINDA M WALKER

SITE ADDRESS
501 N HARRISON ST
NEWBERG, OREGON 97132

EQUIP.
(24) SILFAB SOLAR SIL-440 QD DCA3
(I) SOLAREDGE SE7600H-US

SYSTEM SIZE
I0.56KW DC
7.6KW STC-AC, 9.864KW CEC-AC

PROJECT DESIGNER
SURENDRA

DATE
I9-JAN-2026

SHEET NAME
ROOF PLAN

SHEET # S-3

REV B

STRUCTURAL INSTALLATION SCHEDULE AND CRITERIA

ROOF MEMBRANE	
ROOF TYPE:	COMPOSITION SHINGLE
ROOF SHEATHING TYPE:	1/2" PLYWOOD

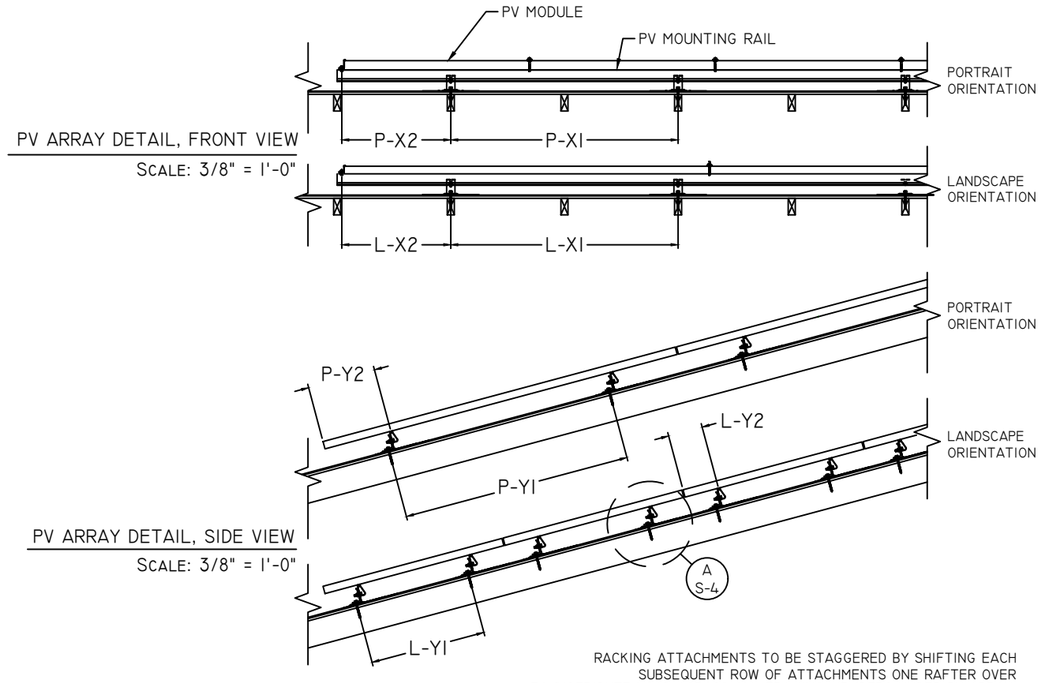
ARRAY PARAMETERS	
TOTAL ROOF AREA (SQ. FT.)	1768.87
TOTAL PV MODULE AREA (SQ. FT.)	504
% PV MODULE ROOF COVERAGE	28.49%

PV RACKING	
RACKING:	UNIRAC NXT DOM CON
RACKING TYPE:	RAIL
STANDOFF:	UNIRAC STRONGHOLD BUTYL ATT KIT #14S MILL
STANDOFF TYPE:	L-FOOT & BUTYL TAPE MASTIC
FASTENER:	3" #14-14 AB SCREW

SPAN AREA	TAG	SPAN
RAIL - PORTRAIT - MODULE ORIENTATION		
X- SPACING	P-X1	48 IN. O.C. MAX.
X-CANTILEVER	P-X2	23 IN. MAX.
Y- SPACING	P-Y1	40.2 IN. MIN. - 55.9 IN. MAX.
Y-CANTILEVER	P-Y2	6 IN. MIN. - 13.8 IN. MAX.
RAIL - LANDSCAPE - MODULE ORIENTATION		
X- SPACING	L-X1	48 IN. O.C. MAX.
X-CANTILEVER	L-X2	23 IN. MAX.
Y- SPACING	L-Y1	24.9 IN. MIN. - 28.9 IN. MAX.
Y-CANTILEVER	L-Y2	7.9 IN. MIN. - 9.8 IN. MAX.

STRUCTURAL FRAMING

ROOF SECTION	*STRUCTURE TYPE*	*RAFTER / TC SIZE (IN)*	*RAFTER / TC SPACING (IN)*	*STRUCTURAL UPGRADE*	*UPGRADE SIZE & LENGTH (FT)*
RS1	CONVENTIONAL FRAMING	2x4	24	NONE - SINGLE PLY (1x)	NONE
RS2	CONVENTIONAL FRAMING	2x4	24	NONE - SINGLE PLY (1x)	NONE



PV ARRAY DETAIL, FRONT VIEW

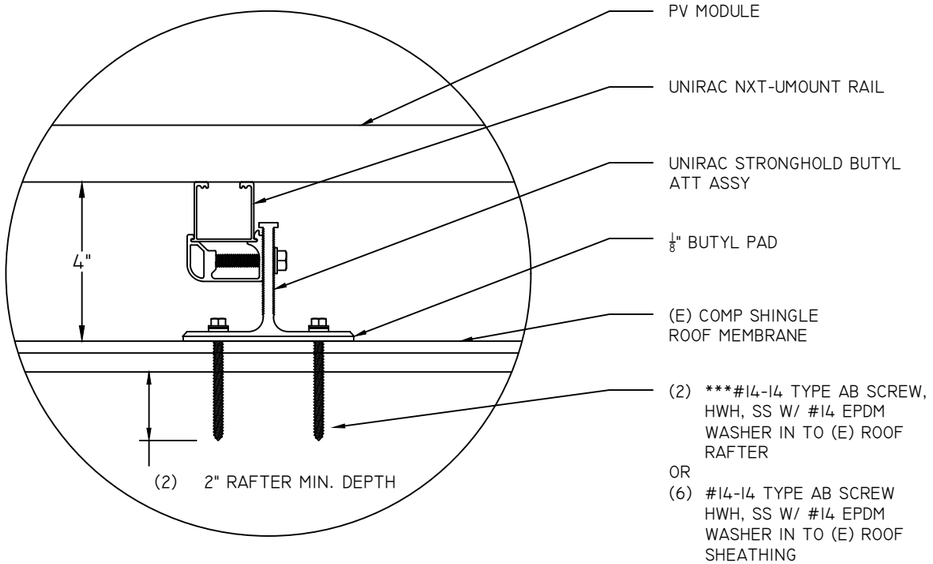
SCALE: 3/8" = 1'-0"

PV ARRAY DETAIL, SIDE VIEW

SCALE: 3/8" = 1'-0"

RACKING ATTACHMENTS TO BE STAGGERED BY SHIFTING EACH SUBSEQUENT ROW OF ATTACHMENTS ONE RAFTER OVER TO DISTRIBUTE LOAD ACROSS ALL FRAMING MEMBERS UNDER PV ARRAY.

*** ONLY 2 FASTENERS REQUIRED IN TO (E) ROOF RAFTER/TOP CHORD. IF DURING INSTALLATION THE (E) RAFTER/TOP CHORD IS MISSED, CONTINUE TO DRIVE FASTENER UNTIL 2 LAND IN TO THE (E) RAFTER/TOP CHORD. IF ALL MISS, (6) IN (E) SHEATHING ONLY ARE SUFFICIENT AS LONG AS ATTACHMENTS SPAN NO GREATER THAN 24" OC.



A COMP SHINGLE - STRONGHOLD BUTYL ATT KIT - STANDOFF DETAIL

SCALE: 3" = 1'-0"

1/19/2026

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PROJECT ID
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SITE OWNER
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SITE ADDRESS
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NEWBERG, OREGON 97132

EQUIP.
(24) SILFAB SOLAR SIL-440 QD DCA3
(1) SOLAREDGE SE7600H-US

SYSTEM SIZE
10.56KW DC
7.6KW STC-AC, 9.864KW CEC-AC

PROJECT DESIGNER
SURENDRA

DATE
19-JAN-2026

SHEET NAME
STRUCTURAL DETAILS

SHEET # S-4

REV B

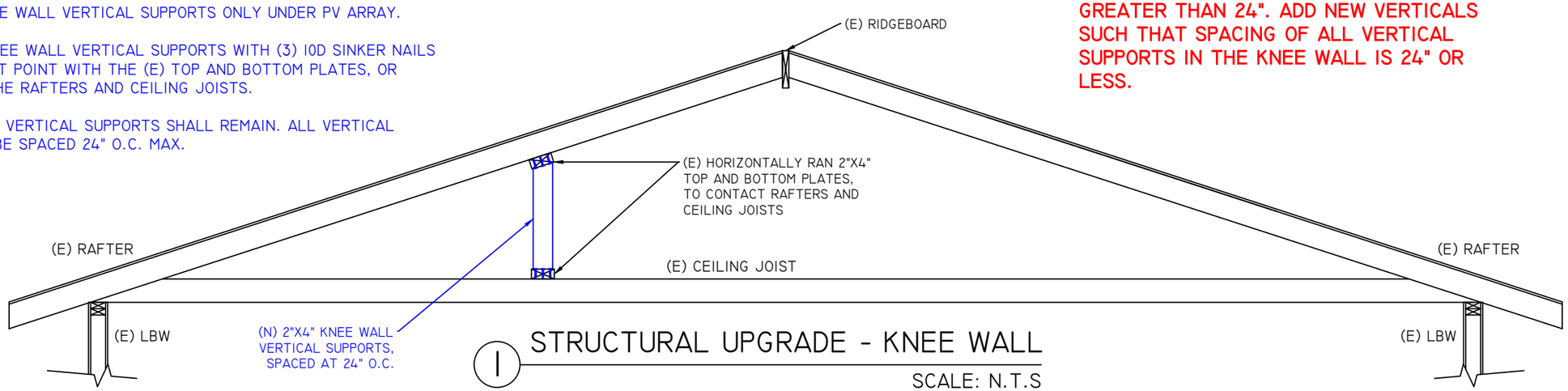
STRUCTURAL UPGRADE REQUIRED - KNEE WALL VERTICAL SUPPORT ADD-IN

1. INSTALL (N) 2"X4" KNEE WALL VERTICAL SUPPORTS SPACED 24" O.C. BETWEEN (E) KNEE WALL VERTICAL SUPPORTS ONLY UNDER PV ARRAY.

2. ATTACH (N) KNEE WALL VERTICAL SUPPORTS WITH (3) 10D SINKER NAILS AT EACH CONTACT POINT WITH THE (E) TOP AND BOTTOM PLATES, OR DIRECTLY INTO THE RAFTERS AND CEILING JOISTS.

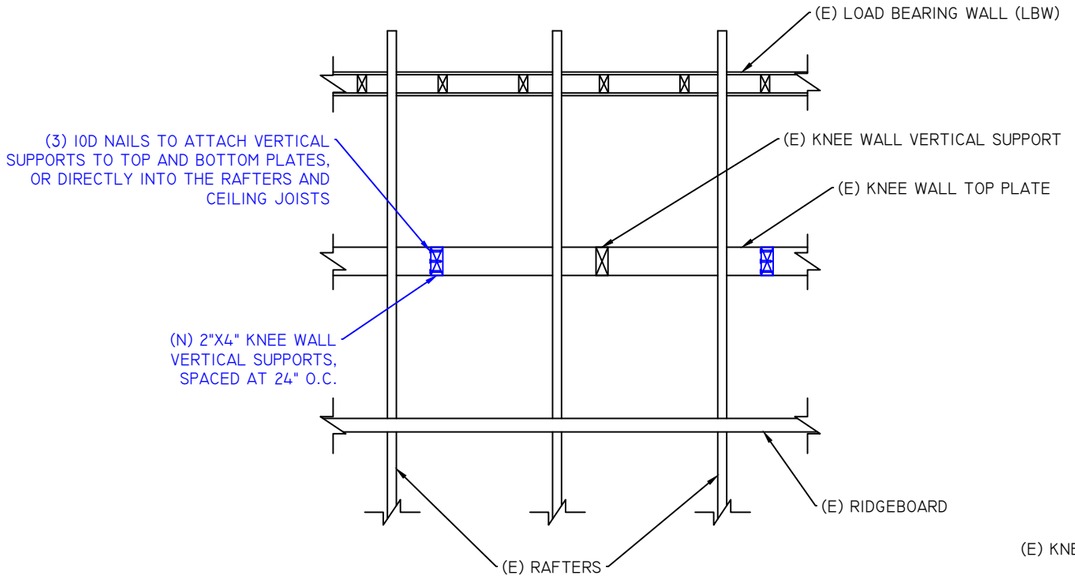
3. (E) KNEE WALL VERTICAL SUPPORTS SHALL REMAIN. ALL VERTICAL SUPPORTS MUST BE SPACED 24" O.C. MAX.

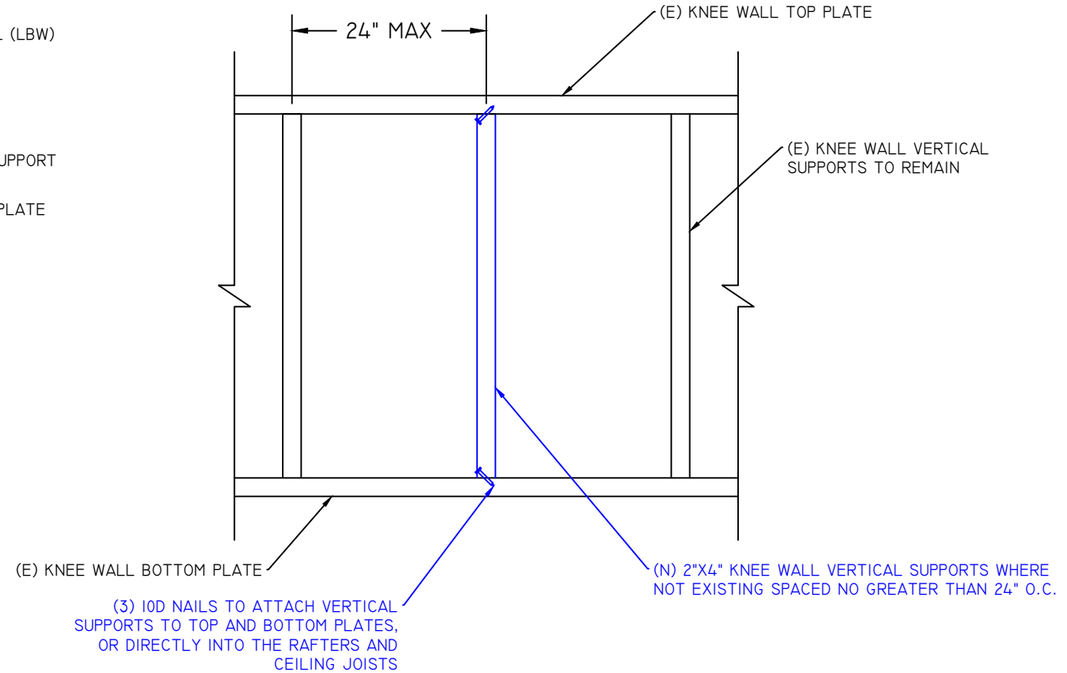
KNEE WALL UPGRADE ONLY REQUIRED WHERE SPACING OF EXISTING VERTICALS IS GREATER THAN 24". ADD NEW VERTICALS SUCH THAT SPACING OF ALL VERTICAL SUPPORTS IN THE KNEE WALL IS 24" OR LESS.



1 STRUCTURAL UPGRADE - KNEE WALL

SCALE: N.T.S





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7.6KW STC-AC, 9.864KW CEC-AC

PROJECT DESIGNER
SURENDRA

DATE
19-JAN-2026

SHEET NAME
STRUCTURAL DETAILS

SHEET # S-4.1

REV B

PV SYSTEM STRUCTURAL SPECIFICATIONS AND CALCULATIONS

DESIGN LOCATION AND SITE SPECIFICATIONS

JURISDICTION	CITY OF NEWBERG
STATE	OREGON
ADOPTED LOAD STANDARD	ASCE 7-16
OCCUPANCY / RISK CATEGORY	II
BASIC WIND SPEED (MPH (3-SEC GUST))	96
WIND EXPOSURE CATEGORY	B
GROUND SNOW LOAD (PSF) (Pg)	36
BASE ELEVATION (FT)	180
STRUCTURE TYPE	INHABITED - GABLE / FLAT ROOF
MIN. ROOF SLOPE (DEG.)	19
MEAN ROOF HEIGHT (FT.)	11

RACKING AND ATTACHMENT SPECIFICATIONS

MODULE MANUFACTURER / TYPE	SILFAB SOLAR SIL-440 QD DCA3
SOLAR MODULE WEIGHT (LBS)	46.3
SOLAR MODULE LENGTH (IN.)	67.8
SOLAR MODULE WIDTH (IN.)	44.6
SOLAR MODULE AREA (SQ. FT)	21
PV RACKING	UNIRAC NXT DOM CON
PV RACKING TYPE	RAIL
PV ROOF ATTACHMENT	UNIRAC STRONGHOLD BUTYL ATT KIT #14S MILL
PV ROOF ATTACHMENT FASTENER	(2) 3" #14-14 AB SCREW(S)
MANUFACTURER UPLIFT CAPACITY (LBS)	779
MANUFACTURER LATERAL CAPACITY (LBS)	320
PORTRAIT ATT. SPACING (IN. O.C.)	48
LANDSCAPE ATT. SPACING (IN. O.C.)	48
MAX PORTRAIT RAIL CANTILEVER SPACING (IN. O.C.)	23
MAX LANDSCAPE RAIL CANTILEVER SPACING (IN. O.C.)	23
# OF ATTACHMENT POINTS	80
RACKING DEAD LOAD (PSF)	0.8
SOLAR MODULE DEAD LOAD (PSF)	2.20
TOTAL PV ARRAY DEAD LOAD (PSF)	3.00
MAX. ROOF POINT DEAD LOAD (PSF)	34.0

DESIGNED VELOCITY PRESSURE CALCULATIONS — ASCE 7-16 (C&C)

VELOCITY PRESSURE (PSF) = QH = 0.00256(KH)(KZT)(KD)(KE)(V^2) — EQN. 26.10-1

TERRAIN EXPO. CONSTANT (α) =	7.0	TABLE 26.11-1
TERRAIN EXPO. CONSTANT (Zg)(FT) =	1200	TABLE 26.11-1
VP EXPOSURE COEFFICIENT (KH) =	0.70	TABLE 26.10-1
TOPOGRAPHIC FACTOR (KZT) =	1.0	EQN. 26.8-1
WIND DIRECTIONALITY FACTOR (KD) =	0.9	TABLE 26.6-1
GROUND ELEVATION FACTOR (KE) =	1.0	TABLE 26.9-1
QH (PSF) =	14.0	

DESIGNED ROOF SNOW LOAD CALCULATIONS — ASCE 7-16

SLOPED ROOF SNOW LOAD (PSF) = Ps = (Cs)(0.7)(CE)(CT)(Is)(Pg) — EQN. 7.4-1

EXPOSURE FACTOR (CE) =		TABLE 7.3-1
IMPORTANCE FACTOR (Is) =		TABLE 1.5-2
GROUND SNOW LOAD (PSF) (Pg) =	36.0	
NO PV - WARM NON SLIPPERY SURFACE		
THERMAL FACTOR (CT) =		TABLE 7.3-2
SLOPE FACTOR (Cs) =		FIG. 7.4-1
Ps (PSF) =	25	
PV - COLD SLIPPERY SURFACE		
THERMAL FACTOR (CT) =		TABLE 7.3-2
SLOPE FACTOR (Cs) =		FIG. 7.4-1
Ps (PSF) =	25	

RACKING - ATTACHMENT AND FASTENER, CONNECTION ZONE WIND PRESSURE AND POINT LOAD

GABLE ROOF 7° < Ø ≤ 20° — FIGURE 30.3-2B

DESIGN WIND PRESSURE (PSF) = W = qh(GCp)(ye)(ya) — EQN. 26.10-1

ARRAY EDGE FACTOR (ye) = 1 — EQN. 29.4-7

	UPLIFT ZONE 1	UPLIFT ZONE 2R	UPLIFT ZONE 2E	COMPRESSION ALL ZONES	LATERAL ALL ZONES
RAIL - PORTRAIT MODULE ORIENTATION	*48 IN. O.C.*	*48 IN. O.C.*	*48 IN. O.C.*	*48 IN. O.C.*	*48 IN. O.C.*
SOLAR PANEL PRESSURE EQ. FACTOR (ya) =	0.80	0.80	0.80	0.80	0.80
EXTERNAL PRESSURE COEFF. (GCp) =	-2.0	-3.0	-3.6	0.5	-3.6
ASD PRESSURE (W)(PSF) =	-22.46	-33.69	-40.43	5.84	13.16
PV DEAD LOAD (D) =	3.00	3.00	3.00	3.00	0.00
SNOW OR LIVE LOAD (S OR L)(PSF) =	0.00	0.00	0.00	25.00	20.00
MAX. TRIBUTARY AREA (SQ. FT) =	11.3	11.3	8.5	11.3	11.3
GOV. LOAD COMBINATION (2.4.1) =	0.6D+0.6W	0.6D+0.6W	0.6D+0.6W	D+0.45W+0.75S	D+0.75L+0.45W
MAX. LOAD (LBS) =	-131.9	-208.1	-190.3	262.1	81.9
RAIL - LANDSCAPE MODULE ORIENTATION	*48 IN. O.C.*	*48 IN. O.C.*	*48 IN. O.C.*	*48 IN. O.C.*	*48 IN. O.C.*
SOLAR PANEL PRESSURE EQ. FACTOR (ya) =	0.80	0.80	0.80	0.80	0.80
EXTERNAL PRESSURE COEFF. (GCp) =	-2.0	-3.0	-3.6	0.7	-3.6
ASD PRESSURE (0.6P)(PSF) =	-22.46	-33.69	-40.43	7.86	13.16
PV DEAD LOAD (D) =	3.00	3.00	3.00	3.00	0.00
SNOW OR LIVE LOAD (S OR L)(PSF) =	0.00	0.00	0.00	25.00	20.00
TRIBUTARY AREA (SQ. FT) =	7.43	7.43	5.58	7.43	7.43
GOV. LOAD COMBINATION (2.4.1) =	0.6D+0.6W	0.6D+0.6W	0.6D+0.6W	D+0.45W+0.75S	D+0.75L+0.45W
MAX. LOAD (LBS) =	-86.8	-136.9	-125.2	179.2	59.0

RACKING - ATTACHMENT AND FASTENER, CAPACITY / DEMAND CHECK — NDS 12.2

UNIRAC STRONGHOLD BUTYL ATT KIT #14S MILL - (2) 3" #14-14 AB SCREW(S)

LAG SCREW WITHDRAWAL DESIGN VALUE (LBS) = W = 1800(G^3/2)(D^3/4) — 12.2.1

ROOF ATTACHMENT FASTENER (D) (IN.) =	6/25	TABLE 2.3.2
FASTENER QTY PER ATTACHMENT =	2	TABLE 12.3.3A
FASTENER EMBEDMENT DEPTH (IN.) =	2.0	
LUMBER SPECIFIC GRAVITY (G) =	0.5	
LOAD DURATION FACTOR (CD) =	1.6	
PRYING COEFFICIENT =	1.4	
WITHDRAWAL DESIGN VALUE(W)(LBS / IN.) =	218.2	
LAG SCREW WITHDRAWL CAPACITY (LBS) =	997.6	

	UPLIFT	LATERAL
MANUFACTURER MAX. CAPACITY (LBS) =	779.0	320.0
MAX. LAG SCREW CAPACITY (LBS) =	997.6	
MAX. ATT. WITHDRAWL DEMAND (LBS) =	262.1	82.0
	OK	OK

RACKING - RAIL, SPAN AND CANTILEVER CHECK - ALL ZONES

UNIRAC NXT DOM CON

MAX. HORIZONTAL RAIL SPAN (L)(FT.) = 4.0

MAX. VERTICAL SPACING BETWEEN RAILS (FT.) = 4.7

MAX. RAIL CANTILEVER SPAN (a)(x)(FT.) = 1.9

	COMPRESSION	UPLIFT	LATERAL
GOV. LOAD COMBINATION (2.4.1) =	D+0.45W+0.75S	0.6D+0.6W	D+0.6W
TOTAL LOAD (PSF) =	28.1	6.6	8.4
TOTAL LINEAR LOAD (W)(LB. / FT.) =	75.0	18.7	7.7
RAIL - SPAN CHECK			(WL^2)/8
ALLOWABLE MANU. BENDING MOMENT (LB. / FT.) =	223	331	264
ACTUAL MAX. BENDING MOMENT (LB / FT.) =	150.0	37.4	15.5
			(W)(L)^4 / 185(E)(I)
ALLOWABLE DEFLECTION (IN.) =	0.80	0.80	0.80
ACTUAL MAX DEFLECTION (IN.) =	0.12	0.03	0.01
	OK	OK	OK
RAIL - CANTILEVER CHECK			
OVERHANG			(w/2)(a-x)^2
ALLOWABLE MANU. BENDING MOMENT (LB. / FT.) =	223	331	264
ACTUAL MAX BENDING MOMENT (LB / FT.) =	137.7	34.4	14.2
			(wx/24EI)(4La^2-L^3+6xa^2-4ax^2+x^3)
ALLOWABLE MANU. DEFLECTION (L/60)(IN.) =	0.38	0.38	0.38
ACTUAL MAX DEFLECTION (IN.) =	0.03	0.01	0.00
SPAN REACTION			(w/8L^2)(L+A)^2(L-A)^2
ALLOWABLE MANU. BENDING MOMENT (LB. / FT.) =	331	223	264
ACTUAL MAX BENDING MOMENT (LB / FT.) =	89.0	22.2	9.2
			(wx/24EIL)(L^4-2L^2x^2+Lx^3-2a^2L^2+2a^2x^2)
ALLOWABLE MANU. DEFLECTION (L/60)(IN.) =	0.80	0.80	0.80
ACTUAL MAX DEFLECTION (IN.) =	0.01	0.00	0.00
ATTACHMENT / CONNECTION REACTION			(w/2L)(L+A)^2
UPLIFT CAPACITY (LBS) =	779.0	779.0	779.0
ACTUAL MAX REACTION UPLIFT FORCE (LBS) =	328.1	81.8	33.9
	OK	OK	OK

RACKING - MODULE CLAMPS CAPACITY / DEMAND CHECK

MID CLAMP: UNIRAC NXT UMOUNT COMBO CLAMP - DARK - CCLAMPDI

END CLAMP: UNIRAC NXT UMOUNT COMBO CLAMP - DARK - CCLAMPDI

	UPLIFT	SLIDING	LATERAL
MANUFACTURER MAX. CAPACITY (LBS) =	1820.0	652.0	398.0
MAX. CLAMP WITHDRAWL DEMAND (LBS) =	208.1	82	82
	OK	OK	OK

1/19/2026

REGISTERED PROFESSIONAL ENGINEER
98950PE
OREGON
JAN 11, 2022
ALAN ROWLEY

EXPIRES: 12/31/26

NABCEP BOARD CERTIFIED
PV INSTALLATION PROFESSIONAL
SCOTT A. GURNEY
#PV-011738-015866
EXP. 9-17-2028

ION DEVELOPER LLC
DAVID STANLEY CONRAD
C - ELECTRICAL CONTRACTOR
CI524

ION SOLAR
44 E 800 N
OREM, UTAH 84057
888.781.7074

PROJECT ID: 00GT58

SITE OWNER: LINDA M WALKER

SITE ADDRESS: 501 N HARRISON ST, NEWBERG, OREGON 97132

EQUIP.: (24) SILFAB SOLAR SIL-440 QD DCA3; (1) SOLAREDGE SE7600H-US

SYSTEM SIZE: 10.56KW DC; 7.6KW STC-AC, 9.864KW CEC-AC

PROJECT DESIGNER: SURENDRA

DATE: 19-JAN-2026

SHEET NAME: STRUCTURAL CALCULATIONS 1

SHEET #: S-5

REV: B

PV SYSTEM STRUCTURAL SPECIFICATIONS AND CALCULATIONS

GRAVITY LOAD / FRAMING CALCULATIONS

DEAD LOAD (PSF)	RS1		RS2	
ROOF MEMBRANE	COMPOSITION SHINGLE	4.0	COMPOSITION SHINGLE	4.0
SHEATHING	1/2" PLYWOOD	1.7	1/2" PLYWOOD	1.7
PITCH (DEG)	19		19	
FRAMING	CONVENTIONAL FRAMING - NONE - SINGLE PLY (IX) - RAFTER 2X4 @ 24 IN. O.C. - DF #2 @ 8 FT. MAX SPAN	1.0	CONVENTIONAL FRAMING - NONE - SINGLE PLY (IX) - RAFTER 2X4 @ 24 IN. O.C. - DF #2 @ 8 FT. MAX SPAN	1.0
PV ARRAY	3.0		3.0	
TOTAL ROOF DEAD LOAD	9.7		9.7	
ADJUSTED TO SLOPED ROOF	10.2		10.2	
ROOF SNOW LOAD	25.0		25.0	
LIVE LOAD (PSF)	0.0		0.0	
TOTAL GREATEST LIVE OR PV LOAD (PSF)	35.2		35.2	
IBC 1607.14.4.1				

RAFTER / TOP CHORD MEMBER PROPERITES	DF #2 - 2x4 - NONE - SINGLE PLY (Ix)	DF #2 - 2x4 - NONE - SINGLE PLY (Ix)
SECTION MODULUS (S)(IN^3)	3.06	3.06
MOMENT OF INERTIA (I)(IN^4)	5.36	5.36
TOTAL LOAD ON MEMBER (W) (PLF)	70.4	70.4
MEMBER SPAN 1 (L) (FT)	6.4	6.4
MEMBER SPAN 2 (K) (FT)	8	8
MIN. EAVE SPAN (V) (FT)	0.92	0.92
MODULUS OF ELASTICITY (E) (PSI)	1600000	1600000
SHEAR (Fv) (PSI)	180	180
AREA (A) (IN^2)	5.25	5.25

MAX BENDING STRESS CHECK	(Fb)(Cd)(Cf)(Cr)		(Fb)(Cd)(Cf)(Cr)	
BENDING (Fb) (PSI)	900		900	
LOAD DURATION FACTOR (Cd)	1.15		1.15	
SIZE FACTOR (Cf)	1.50		1.50	
REPETITIVE MEMBER FACTOR (Cr)	1.15		1.15	
ALLOWABLE BENDING MOMENT (FT-LBS)	455.6 ((WL^3)+(WK^3))/8(S)(L+K)		455.6 ((WL^3)+(WK^3))/8(S)(L+K)	
ACTUAL MAX BENDING MOMENT (FT-LBS)	473.2		473.2	
	104%	OK	104%	OK

MAX DEFLECTION CHECK - TOTAL LOAD	UNIFORM DISTRIBUTED L / 120		UNIFORM DISTRIBUTED L / 120	
ALLOWABLE DEFLECTION	0.640	IN.	0.640	IN.
ACTUAL MAX DEFLECTION	0.129	IN.	0.129	IN.
(W)(L)^4 / 185(E)(I)	20%	OK	20%	OK

MAX DEFLECTION CHECK - LIVE LOAD	L / 180		L / 180	
ALLOWABLE DEFLECTION	0.320	IN.	0.427	IN.
ACTUAL MAX DEFLECTION	0.073	IN.	0.073	IN.
(W)(L)^4 / 185(E)(I)	23%	OK	17%	OK

MAX SHEAR CHECK				
ALLOWABLE SHEAR = Fv (A)	945	LBS.	945	LBS.
ACTUAL MAX SHEAR = (w)(L)/2	225	LBS.	225	LBS.

1/19/2026

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98950PE
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PROJECT ID
00GT58

SITE OWNER
LINDA M WALKER

SITE ADDRESS
501 N HARRISON ST
NEWBERG, OREGON 97132

EQUIP.
(24) SILFAB SOLAR SIL-440 QD DCA3
(1) SOLAREDGE SE7600H-US

SYSTEM SIZE
10.56KW DC
7.6KW STC-AC, 9.864KW CEC-AC

PROJECT DESIGNER
SURENDRA

DATE
19-JAN-2026

SHEET NAME
STRUCTURAL CALCULATIONS 2

SHEET # S-6

REV B

CONDUCTOR AND RACEWAY SCHEDULE

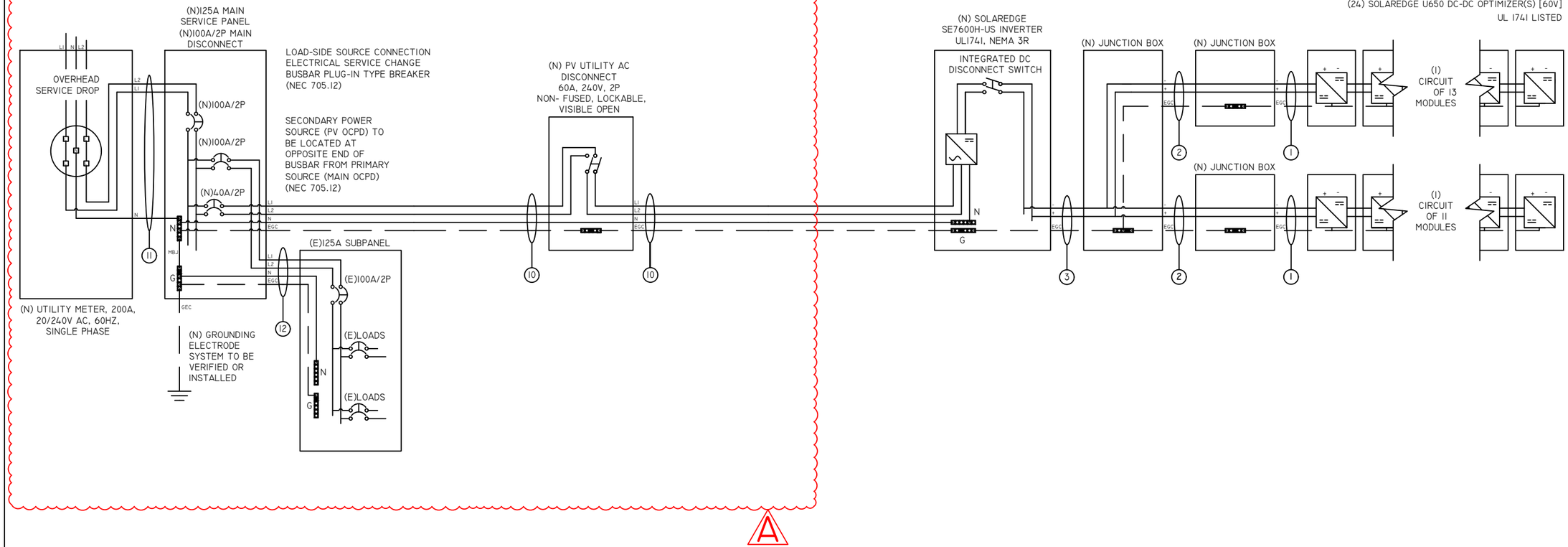
TAG	QTY	SIZE - #	TYPE	DESIGNATOR	I / V
10	(1)	8 AWG	THHN / THWN-2, CU.	BLACK (L1)	32.0 A AC (MAX)
	(1)	8 AWG	THHN / THWN-2, CU.	RED (L2)	240 V AC
	(1)	8 AWG	THHN / THWN-2, CU.	WHITE (N)	
	(1)	10 AWG	THHN / THWN-2, CU.	GREEN (EGC)	
	(1)	3/4 IN.	EMT	(RACEWAY)	EXTERIOR
11	(1)	2 AWG	THHN / THWN-2, AL.	BLACK (L1)	32.0 A AC (MAX)
	(1)	2 AWG	THHN / THWN-2, AL.	RED (L2)	240 V AC
	(1)	2 AWG	THHN / THWN-2, AL.	WHITE (N)	
	(1)	2 IN.	PVC SCH. 40	(RACEWAY)	EXTERIOR

TAG	QTY	SIZE - #	TYPE	DESIGNATOR	I / V
12	(1)	2 AWG	3C, SE-R W/G, AL.	(L1, L2, N, EGC)	32.0 A AC (MAX)
			(CABLE)		240 V AC
					INTERIOR

TAG	QTY	SIZE - #	TYPE	DESIGNATOR	I / V

TAG	QTY	SIZE - #	TYPE	DESIGNATOR	I / V
1	(1)	10 AWG	USE-2 / RHH / RHW-2	(-), (+)	15.0 A DC (ISC)
	(1)	6 AWG	SOLID BARE CU.	(EGC)	14.5 A DC (IMP)
					480.0 V DC (VOC)
					395.0 V DC (VMP)
					EXTERIOR
2	(1)	10 AWG	2C, MC W/G, CU.	(-), (+), (EGC)	15.0 A DC (ISC)
			(CABLE)		14.5 A DC (IMP)
					480.0 V DC (VOC)
					395.0 V DC (VMP)
					INTERIOR
3	(1)	8 AWG	THHN / THWN-2, CU.	BLACK (-)	30.0 A DC (ISC)
	(1)	8 AWG	THHN / THWN-2, CU.	RED (+)	26.7 A DC (IMP)
	(1)	10 AWG	THHN / THWN-2, CU.	GREEN (EGC)	480.0 V DC (VOC)
	(1)	3/4 IN.	EMT	(RACEWAY)	395.0 V DC (VMP)
					EXTERIOR

ELECTRICAL LINE DIAGRAM



NABCEP BOARD CERTIFIED
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SITE OWNER	LINDA M WALKER
SITE ADDRESS	501 N HARRISON ST NEWBERG, OREGON 97132
EQUIP.	(24) SILFAB SOLAR SIL-440 QD DCA3 (1) SOLAREDGE SE7600H-US
SYSTEM SIZE	10.56KW DC 7.6KW STC-AC, 9.864KW CEC-AC
PROJECT DESIGNER	SURENDRA
DATE	19-JAN-2026
SHEET NAME	ELECTRICAL LINE DIAGRAM
SHEET #	E-7
REV	B

PV SYSTEM ELECTRICAL SPECIFCATIONS AND CALCULATIONS

DESIGN LOCATION AND TEMPERATURES	
TEMPERATURE DATA SOURCE	ASHRAE
STATE	OREGON
JURISDICTION	CITY OF NEWBERG
WEATHER STATION	AURORA STATE AP
ASHRAE EXTREME LOW TEMP (°C)	-5
ASHRAE 0.4% HIGH TEMP (°C)	37
DESIGNED MAX. SYSTEM VDROP / VRISE	4.00%

PV MODULE SPECIFICATIONS	SILFAB SOLAR SIL-440 QD DCA3
RATED POWER (PMAX) (W DC)	440
MAXIMUM POWER VOLTAGE (VMP DC)	33.41
MAXIMUM POWER CURRENT (IMP DC)	13.17
OPEN CIRCUIT VOLTAGE (VOC DC)	38.97
SHORT CIRCUIT CURRENT (ISC DC)	14.22
PMP/VMP TEMP. COEFFICIENT	-0.29
VOC TEMP. COEFFICIENT	-0.24
SERIES FUSE RATING (A DC)	25
ADJ. MODULE VOC @ ASHRAE LOW TEMP (°C)	41.8
ADJ. MODULE VMP @ ASHRAE 2% AVG. HIGH TEMP (°C)	29.1

DC-DC OPTIMIZER	SOLAREDGE U650
RATED INPUT POWER (W DC)	650
MAX VOLTAGE (ADJ. TEMP. VOC) (V DC)	60
MAX INPUT CURRENT (ISC) (A DC)	15
CEC WEIGHTED EFFICIENCY (%)	98.6
MAX OUTPUT CURRENT (A DC)	15
MAX OUTPUT VOLTAGE (V DC)	60
MIN STRING LENGTHS (PV MODULE / OPTIMIZER QTY)	8
MAX STRING LENGTHS (PV MODULE / OPTIMIZER QTY)	25
MAX NOMINAL POWER PER CIRCUIT (W DC)	6800

INVERTER(S) SPECIFICATIONS	SOLAREDGE SE7600H-US
TYPE	DC-DC OPTIMIZER
MAX. OR RECOMMENDED MODULE POWER (W)	15200
MAXIMUM INPUT DC OPEN-CIRCUIT VOLTAGE (VOC)	480
NOMINAL DC INPUT VOLTAGE (V)	395
MAXIMUM DC START VOLTAGE(V)	480
MAXIMUM INPUT CURRENT (ISC) (A)	45
MAX CONTINUOUS OUTPUT POWER (VA)	7600
MAX. CONTINUOUS OUTPUT CURRENT (A)	32
NOMINAL (L-L) OUTPUT VOLTAGE	240
CEC WEIGHTED EFFICIENCY (%)	99.0%

SYSTEM ELECTRICAL SPECIFICATIONS	CIR 1	CIR 2
NUMBER OF MODULES PER CIRCUIT	13	11
DC POWER RATING PER CIRCUIT (STC)(W DC)	5720	4840
TOTAL MODULE QUANTITY	24 PV MODULES	
STC DC POWER RATING OF ARRAY	10560W DC	
MAXIMUM DC INPUT CURRENT (ISC) (A)	30	
NOMINAL DC INPUT CURRENT @ STC (IMP) (A)	14.5	12.3
INVERTER OCPD RATING (A)	40	
COMBINED INV. CONT. OUTPUT CURRENT x 125% (A AC)	40.0	
PV POWER PRODUCTION SYSTEM OCPD RATING (A)	40	
MAX. ARRAY STC-AC POWER (W)	7600	
MAX. ARRAY CEC-AC POWER (W)	9864	

DC/AC VOLTAGE DROP CALCULATIONS	DIST (FT)	COND.	VDROP(V)	VEND(V)	%VDROP	
VDROP SEC. 1 (DC-DC OPT. TO JBOX)	51	10 Cu.	1.8	393.2	0.46%	
VDROP SEC. 2 (JBOX TO INVERTER)	70	10 Cu.	2.5	392.5	0.64%	
VDROP SEC.4 (INVERTER TO POI)	16	8 Cu.	0.8	394.2	0.20%	
TOTAL VDROP			5.2	389.8	1.30%	OK

RACEWAY / CONDUCTOR CALCULATIONS

DC-DC OPTIMIZER TO JUNCTION BOX (1)

MAX COMBINED DC-DC OPTIMIZER CURRENT = 15.0 A DC
CONDUCTOR SIZE / INSULATION / TYPE = 10 AWG USE-2 / RHH / RHW-2
CONDUCTOR AMP. RATING @ 90°C = 40 A

PER NEC 690.8(B)(1)(W/OUT CORRECTION FACTORS)
MAX DC-DC OPTIMIZER CURRENT X125%= 18.8 A DC

PER NEC 690.8(B)(2)(WITH CORRECTION FACTORS)
AMB. TEMP. AMP. CORRECTION = 0.91
OF CONDUCTORS IN RACEWAY CORRECTION = 1.0
ADJUSTED CONDUCTOR AMPACITY (A) = 36.4 A DC

LARGER AMPACITY OF 690.8(B)(1) OR (B)(2) = 18.8 < 36.4
(B)(1) - W/OUT CORRECTION FACTORS
LARGER AMPACITY COMPLIANCE = 40.0 > 18.8 OK

RACEWAY SIZE / TYPE = 3/4 IN. EMT OR NO RACEWAY
CONDUCTOR(S) / CABLE(S) CROSS-SECTION AREA (IN.^2) = 0.088 IN.2
CROSS-SECTIONAL AREA OF RACEWAY(IN.^2) = 0.533 IN.2
% ALLOWABLE RACEWAY FILL (NEC CH. 9, TBL 1) = 40% > 17% OK

JUNCTION BOX TO JUNCTION BOX (2)

MAX COMBINED DC-DC OPTIMIZER CURRENT = 15.0 A DC
CONDUCTOR SIZE / INSULATION / TYPE = 10 AWG 2C, MC W/G, CU.
CONDUCTOR AMP. RATING @75°C = 35 A

PER NEC 690.8(B)(1)(W/OUT CORRECTION FACTORS)
MAX DC-DC OPTIMIZER CURRENT X125%= 18.8 A DC

PER NEC 690.8(B)(2)(WITH CORRECTION FACTORS)
AMB. TEMP. AMP. CORRECTION = 0.88
OF CONDUCTORS IN RACEWAY CORRECTION = 1.0
ADJUSTED CONDUCTOR AMPACITY (A) = 30.8 A DC

LARGER AMPACITY OF 690.8(B)(1) OR (B)(2) = 18.8 < 30.8
(B)(1) - W/OUT CORRECTION FACTORS
LARGER AMPACITY COMPLIANCE = 35.0 > 18.8 OK

RACEWAY SIZE / TYPE = CABLE

JUNCTION BOX TO INVERTER(S) (3)

MAX COMBINED DC-DC OPTIMIZER CURRENT = 30.0 A DC
CONDUCTOR SIZE / INSULATION / TYPE = 8 AWG THHN / THWN-2, CU.
CONDUCTOR AMP. RATING @75°C = 50 A

PER NEC 690.8(B)(1)(W/OUT CORRECTION FACTORS)
MAX DC-DC OPTIMIZER CURRENT X125%= 38.0 A DC

PER NEC 690.8(B)(2)(WITH CORRECTION FACTORS)
AMB. TEMP. AMP. CORRECTION = 0.88
OF CONDUCTORS IN RACEWAY CORRECTION = 1.0
ADJUSTED CONDUCTOR AMPACITY (A) = 44.0 A DC

LARGER AMPACITY OF 690.8(B)(1) OR (B)(2) = 38.0 < 44.0
(B)(1) - W/OUT CORRECTION FACTORS
LARGER AMPACITY COMPLIANCE = 50.0 > 38.0 OK

RACEWAY SIZE / TYPE = 3/4 IN. EMT
CONDUCTOR(S) / CABLE(S) CROSS-SECTION AREA (IN.^2) = 0.110 IN.^2
CROSS-SECTIONAL AREA OF RACEWAY(IN.^2) = 0.533 IN.^2
% ALLOWABLE RACEWAY FILL (NEC CH. 9, TBL 1) = 40% > 21% OK

INVERTER TO MAIN PV OCPD (10)

COMBINED INVERTER CONTINUOUS OUTPUT CURRENT = 32.0 A AC
CONDUCTOR SIZE / INSULATION / TYPE = 8 AWG THHN / THWN-2, CU.
CONDUCTOR AMP. RATING @75°C = 50 A

PER NEC 690.8(B)(1)(W/OUT CORRECTION FACTORS)
MAX COMBINED INVERTER CONT. OUTPUT CURRENT X125% = 40.0 A AC

PER NEC 690.8(B)(2)(WITH CORRECTION FACTORS)
AMB. TEMP. AMP. CORRECTION = 0.88
OF CONDUCTORS IN RACEWAY CORRECTION = 1.0
ADJUSTED CONDUCTOR AMPACITY (A) = 44.0 A AC

LARGER AMPACITY OF 690.8(B)(1) OR (B)(2) = 40.0 < 44.0
(B)(1) - W/OUT CORRECTION FACTORS
LARGER AMPACITY COMPLIANCE = 50.0 > 40.0 OK

RACEWAY SIZE / TYPE = 3/4 IN. EMT
CONDUCTOR(S) / CABLE(S) CROSS-SECTION AREA (IN.^2) = 0.146 IN.^2
CROSS-SECTIONAL AREA OF RACEWAY(IN.^2) = 0.533 IN.^2
% ALLOWABLE RACEWAY FILL (NEC CH. 9, TBL 1) = 40% > 27% OK

A

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7.6KW STC-AC, 9.864KW CEC-AC

PROJECT DESIGNER
SURENDRA

DATE
19-JAN-2026

SHEET NAME
ELECTRICAL CALCULATIONS

SHEET # E-8

REV B

RESIDENTIAL ELECTRICAL LOAD CALCULATION

OPTIONAL FEEDER AND SERVICE LOAD — NEC 220.82

		QTY		LOCATION		
-1	GENERAL LIGHTING AND RECEPTACLES					NEC 220.82(B)(1)
	FLOOR AREA (SQ. FT)	1094	x 3 VA	=	3282 VA	

	MAIN	SUB
15A AFCI		
20A AFCI		
15A	7	
20A	9	

3282 VA

-2	SMALL APPLIANCE AND LAUNDRY				NEC 220.82(B)(2)
	SMALL APPLIANCE (2-WIRE)	3	x 1500 VA	=	4500 VA
	LAUNDRY	1	x 1500 VA	=	1500 VA

6000 VA

-3 SPECIFIC APPLIANCES, RANGES, DRYERS, WATER HEATERS — NEC 220.82(B)(3)&(4)

RANGE	40	MAIN	7680 VA
WATER HEATER	30	MAIN	5760 VA
OTHER 240V APPLIANCE	30	MAIN	5760 VA

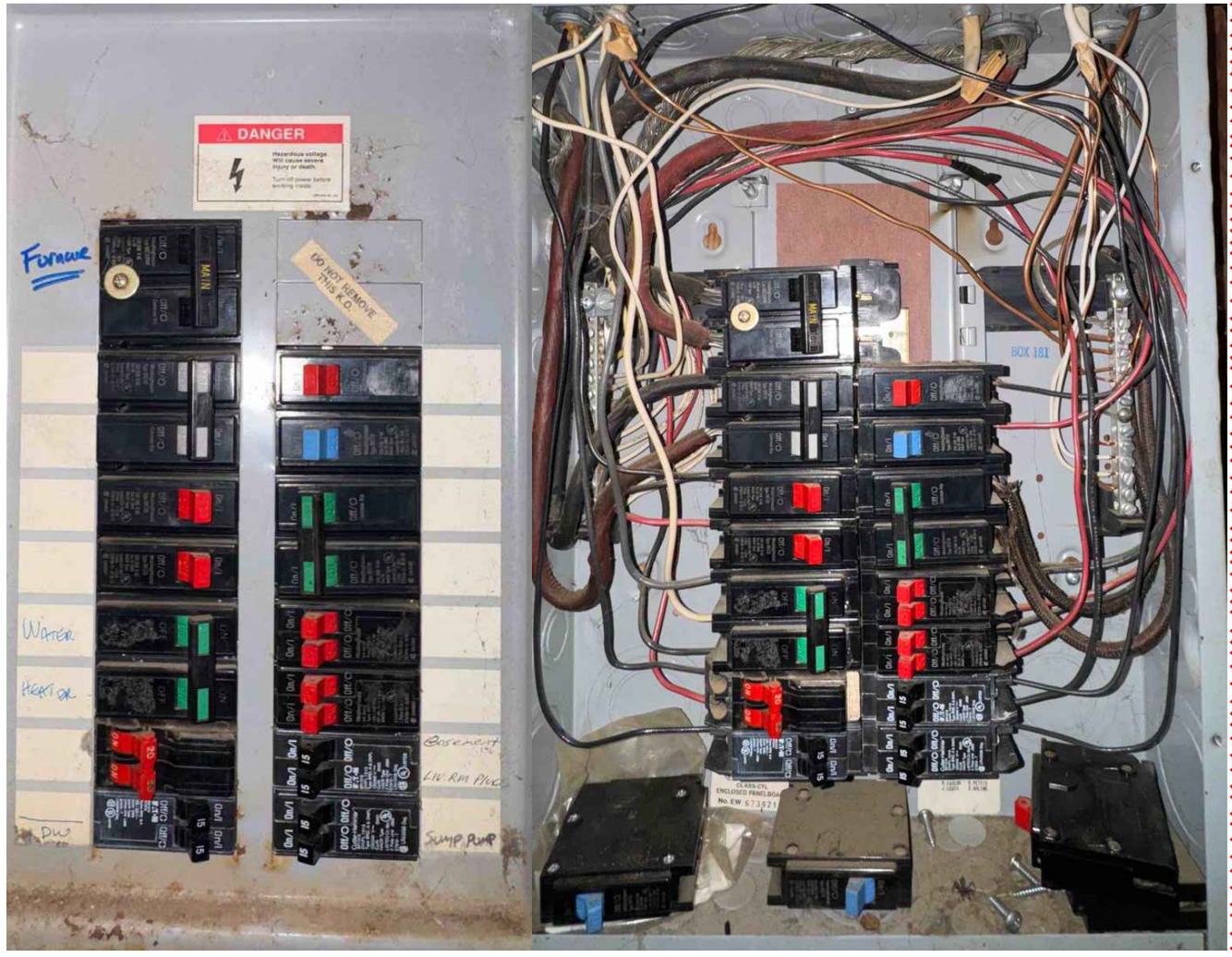
19200 VA

TOTAL GENERAL LOADS	28482 VA
TOTAL 100% FOR FIRST 10 kVA AND 40% REMAINDER	17393 VA

-4	HEATING AND AIR CONDITIONING LOADS				NEC 220.82(C)
	A/C UNIT 1			0 VA	
	A/C UNIT 2			0 VA	
	HEATING UNIT 1			0 VA	
	HEATING UNIT 2			0 VA	
	MAX VALUE OF HEATING OR AIR CONDITIONING LOADS				VA

TOTAL VA	17393 VA
TOTAL AMPS	72 A

OK 72 A TOTAL LOAD < 125 A MAIN OCPD



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SHEET NAME
ELECTRICAL LOAD CALCULATION

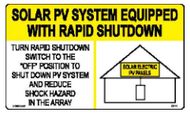
SHEET # E-9

REV B

ELECTRICAL FIELD-APPLIED HAZARD MARKINGS

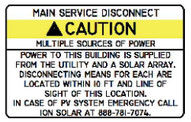
A — FOR EACH PV DISCONNECTING MEANS WHERE ALL TERMINALS OF THE DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION. [OESC 690.13(B), OESC 690.56, OESC 705.20]

B — PLACED ADJACENT TO PV SYSTEM PLUG-IN TYPE BREAKER TO A BUSBAR FOR A LOAD SIDE CONNECTION. [OESC 705.12(B)(2)]



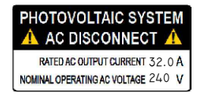
C — FOR ELECTRICAL SERVICES CONNECTED TO PV SYSTEM. SIGN TO BE LOCATED AT EACH SERVICE EQUIPMENT LOCATION. [OESC 690.12]

D — FOR RAPID SHUTDOWN SWITCH INITIATION DEVICE LOCATED AT A READILY ACCESSIBLE OUTDOOR LOCATION. CAN BE THE SYSTEM PLUG-IN TYPE BREAKER OR A SAFETY SWITCH. [OESC 690.12]

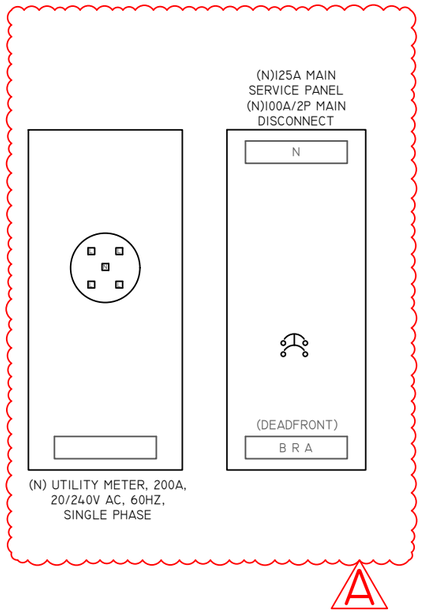


N — PERMANENT DIRECTORY TO BE LOCATED AT THE MAIN SERVICE EQUIPMENT IF ALL ELECTRICAL POWER SOURCE DISCONNECTING MEANS ARE GROUPED AND IN LINE OF SITE OF THE MAIN SERVICE DISCONNECTING MEANS. [OESC 690.56 & OESC 705.10].

H — FOR WIRING METHODS CONTAINING DC PV CIRUCITS (NOT TO BE CONFUSED WITH AC PV CIRCUITS). TO BE PLACED ON JUNCTION BOXES AND ALONG RACEWAYS NO GREATER THAN 10 FT. [NEC 690.12]



T — AT EACH PV SYSTEM DISCONNECTING MEANS. [UTILITY SPECIFIC LABEL]



ALL CAUTION, WARNING, OR DANGER SIGNS OR LABELS SHALL:
1. COMPLY WITH ANSI Z535.4-2011 STANDARDS.
2. BE PERMANENTLY AFFIXED TO THE EQUIPMENT OR WIRING METHOD AND SHALL NOT BE HANDWRITTEN.
3. SHALL BE OF SUFFICEINT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
4. UNLESS OTHERS SPECIFIED MINIMUM TEXT HEIGHT TO BE $\frac{1}{8}$" (3MM).

NABCEP BOARD CERTIFIED
PV INSTALLATION PROFESSIONAL
SCOTT A. GURNEY
#PV-011718-015866
EXP. 9-17-2028

ION DEVELOPER LLC
DAVID STANLEY CONRAD
C - ELECTRICAL CONTRACTOR
CI524

ION SOLAR
44 E 800 N
OREM, UTAH 84057
888.781.7074

PROJECT ID
00GT58

SITE OWNER
LINDA M WALKER

SITE ADDRESS
501 N HARRISON ST
NEWBERG, OREGON 97132

EQUIP.
(24) SILFAB SOLAR SIL-440 QD DCA3
(1) SOLAREDGE SE7600H-US

SYSTEM SIZE
10.56KW DC
7.6KW STC-AC, 9.864KW CEC-AC

PROJECT DESIGNER
SURENDRA

DATE
19-JAN-2026

SHEET NAME
ELECTRICAL LABELS

SHEET # E-10

REV B