



Community Planning & Permitting

Courthouse Annex • 2045 13th Street • Boulder, Colorado 80302 • Tel: 303.441.3930 • Fax: 303.441.4856
Mailing Address: P.O. Box 471 • Boulder, Colorado 80306 • www.bouldercounty.org

November 28, 2022

Christopher Stone
8829 Marathon Road
Boulder, CO 80503

Re: SPRW-22-0053

Dear Mr. Stone:

The Community Planning & Permitting Department has reviewed and granted your request to waive the Site Plan Review for an accessory ground-mounted solar system proposed at 8829 Marathon Road, subject to the conditions listed below. Consistent with Article 4-802.C of the Boulder County Land Use Code, this office has referred the waiver request to neighboring property owners and has not received any responses that the Community Planning & Permitting Director has determined would warrant further County review.

Per Article 4-802.C.7 of the Boulder County Land Use Code, the Community Planning & Permitting Director may waive Site Plan Review for any principal or accessory ground-mounted solar energy system less than 0.5 acre. In this case, the applicant has proposed to install an accessory ground-mounted solar system of less than 0.5 acre. Therefore, the Director of Community Planning & Permitting has determined that a Site Plan Review waiver, with the following conditions, is appropriate in this case.

CONDITIONS:

The ground-mounted solar panels are approved as proposed in the application materials referred on November 4, 2022:

	Description
Height:	Approximately 9' 6" from existing grade
Location:	As shown on the site plan dated 5/30/2022

- LOCATION**

The proposed location is clustered in the rear of the property adjacent to the existing detached garage. As such, the proposed location is not found to have a significant adverse visual impact on neighboring private and public property as required in the Site Plan Review Standards in Article 4-806.
- REVEGETATION**

Prior to the final inspection, all areas of exposed or disturbed soil must be revegetated with native plant materials. If weather is not conducive to seeding or if adequate revegetation efforts have not occurred and vegetation is not adequately established at the time of final inspection request, an irrevocable letter of credit or monies deposited into a County Treasurer account must be provided to assure completion of revegetation. What is considered “adequate revegetation” is influenced by the amount of site disturbance, potential for significant erosion (steep slopes), and visibility. In all cases some level of germination and growth is required. Note that areas of disturbance not included on the revegetation plan are still subject to

reseeding and matting. Please note that no species on List A, B or C in the county's [Noxious Weed Management Plan](#) may be used to meet Revegetation requirements.

Site disturbance must be minimized, and final grading and seeding must be conducted prior to the final inspection. Incomplete revegetation is the leading cause for delays in obtaining permit approval.

This approval is being granted based on a determination that the proposed ground-mounted solar system meets the applicable review criteria. In making this determination the Community Planning & Permitting Department has not reviewed or assessed whether other development existing on the subject property is in compliance with the County Land Use Code, County Building Code, or applicable regulations of the County's Multimodal Transportation Standards or County Public Health. Issuance of this approval therefore does not constitute County acknowledgement of or acquiescence in any violations of these other regulations which may exist or arise on the subject property.

If you have any questions or concerns, please feel free to contact me via e-mail at jtardif@bouldercounty.org.

Sincerely,



Jonathan Tardif
Planner I

ADDITIONAL INFORMATION

BUILDING PERMIT: A building permit and plan review and inspections approvals are required for the construction of the solar array and the associated electrical equipment.

Boulder County's adopted codes are based upon the 2020 editions of the International Codes, along with other amendments, and the latest National Electrical Code ("NEC") as adopted by the State Electrical Board (currently the 2020 edition). Our adopted building codes and code amendments can be found via the internet at:

Please refer to the county's adopted 2015 editions of the International Codes and code amendments, which can be found via the internet under the link: 2015 Building Code Adoption & Amendments, at the following URL: <https://assets.bouldercounty.org/wp-content/uploads/2017/03/building-code-2015.pdf>

DESIGN WIND AND SNOW LOADS: The design wind and ground snow loads for the property are 145 mph (Vult) and 40 psf, respectively.

PLAN REVIEW: The items listed above are a general summary of some of the county's building code requirements. A much more detailed plan review will be performed at the time of building permit application, when full details are available for review, to assure that all applicable minimum building codes requirements are to be met. Our Solar Photovoltaic Systems Checklist and other Building Safety publications can be found at: <https://www.bouldercounty.org/property-and-land/landuse/building/building-publications/>.

Please also refer to our Solar Photovoltaic Systems Checklist, which is available at: <https://assets.bouldercounty.org/wp-content/uploads/2017/03/b46-solar-photovoltaic-systems-checklist.pdf>.

HAULER LICENSE: A Boulder County Hauler License is required for hauling of material off site, regardless of where the material is deposited. This applies to the prime contractor as well as any subcontractors that collect, transport or dispose of any materials (dirt, gravel, garbage, recyclables, or compostables, construction and demolition waste, or landscaping materials) anywhere except within the project site, including locations outside unincorporated Boulder County. Additional information can be found here: <https://www.bouldercounty.org/environment/trash/hauler-license/>.



Community Planning & Permitting (CPP)

Courthouse Annex - 2045 13th Street - Boulder, Colorado 80302 - (303) 441-3930 - Fax 303-441-4856

Mailing Address: Post Office Box 471 - Boulder, Colorado 80306 www.bouldercounty.org

MEMORANDUM

TO: Agencies, Adjacent Property Owners And Interested Parties

FROM: Jonathan Tardif, Planner I

SUBJECT: Request to waive Site Plan Review at
8829 MARATHON ROAD, UNINCORPORATED, CO 80503

DOCKET: SPRW-22-0053: Stone Ground Mount Solar

DATE: 11/04/2022

The purpose of this memorandum is to inform interested parties that the above listed address is under consideration by the CPP Director for a waiver from the Site Plan Review process for:

Site Plan Review Waiver for construction of a ground-mounted solar array on a 1.03-acre parcel.

The Site Plan Review (SPR) regulations allow for certain types of minor projects, which are likely to be less impacting, to be waived from the full SPR process that would normally be required to approve their construction. These projects are eligible for an expedited review called the "Site Plan Review Waiver (SPRW)," during which the SPR standards are analyzed in a shorter timeframe.

Accessory ground-mounted solar energy systems (as defined by Art. 4-516.G of the Land Use Code) and roof-mounted wind-powered energy systems (as defined by Art. 4-516.P of the Land Use Code), which are proposed to exceed the roofline or zoning district by more than five feet (but no more than 15 feet), are subject to the Site Plan Review Waiver process in order to analyze, in particular, any significant adverse visual impacts on neighboring private and public property.

Waivers from SPR may be granted if the CPP Department does not find the proposal to be in conflict with the standards listed in Article 4-806 of the Boulder County Land Use Code. However, the SPRW determination may include written terms and conditions. The project, even if granted a waiver, is subject to the applicable building permit and building code requirements.

Article 4-802(C) requires that adjacent property owners be notified of the request to waive SPR. The CPP Department appreciates any comments that you may have regarding this proposal. Please direct any written or verbal comments to the CPP Department by **11/14/2022**. If you have any questions or comments, feel free to contact this office at planner@bouldercounty.org or **(303) 441-3930**.

cc: STONE CHRISTOPHER W & SUSAN J, Property Owner
Nicholas Hirsch, Agent



Boulder County Land Use Department

Courthouse Annex Building
 2045 13th Street • PO Box 471 • Boulder, Colorado 80302
 Phone: 303-441-3930
 Email: planner@bouldercounty.org
 Web: www.bouldercounty.org/lu
 Office Hours: Mon., Wed., Thurs., Fri. 8 a.m. to 4:30 p.m.
 Tuesday 10 a.m. to 4:30 p.m.

Shaded Areas for Staff Use Only
Intake Stamp

Planning Application Form

The Land Use Department maintains a submittal schedule for accepting applications. Planning applications are accepted on Mondays, by appointment only. Please call 303-441-3930 to schedule a submittal appointment.

Project Number		Project Name	
<input type="checkbox"/> Appeal <input type="checkbox"/> Correction Plat <input type="checkbox"/> Exemption Plat <input type="checkbox"/> Final Plat <input type="checkbox"/> Limited Impact Special Use <input type="checkbox"/> Limited Impact Special Use Waiver <input type="checkbox"/> Location and Extent	<input type="checkbox"/> Modification of Site Plan Review <input type="checkbox"/> Modification of Special Use <input type="checkbox"/> Preliminary Plan <input type="checkbox"/> Resubdivision (Replat) <input type="checkbox"/> Rezoning	<input type="checkbox"/> Road Name Change <input type="checkbox"/> Road/Easement Vacation <input type="checkbox"/> Site Plan Review <input type="checkbox"/> Site Plan Review Waiver <input type="checkbox"/> Sketch Plan <input type="checkbox"/> Special Use/SSDP	<input type="checkbox"/> Special Use (Oil & Gas development) <input type="checkbox"/> State Interest Review (1041) <input type="checkbox"/> Subdivision Exemption <input type="checkbox"/> Variance <input checked="" type="checkbox"/> Other: Ground Mounted Solar
Location(s)/Street Address(es) 8829 Marathon Road			
Subdivision Name			
Lot(s)	Block(s)	Section(s)	Township(s)
Area in Acres	Existing Zoning	Existing Use of Property	Number of Proposed Lots
Proposed Water Supply		Proposed Sewage Disposal Method	

Applicants:

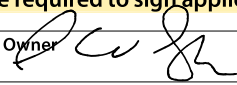
Applicant/Property Owner Christopher Stone			Email chrisstone579@gmail.com	
Mailing Address 8829 Marathon Road				
City Longmont	State CO	Zip Code 80503	Phone 303-589-2778	
Applicant/Property Owner/Agent/Consultant No Problem Electric			Email permitting@rocketsolarcolorado.com	
Mailing Address 6975 Hwy 66				
City Platteville	State CO	Zip Code 80651	Phone 320-761-2899	
Agent/Consultant			Email	
Mailing Address				
City	State	Zip Code	Phone	

Certification (Please refer to the Regulations and Application Submittal Package for complete application requirements.)

I certify that I am signing this Application Form as an owner of record of the property included in the Application. I certify that the information and exhibits I have submitted are true and correct to the best of my knowledge. I understand that all materials required by Boulder County must be submitted prior to having this matter processed. I understand that public hearings or meetings may be required. I understand that I must sign an Agreement of Payment for Application processing fees, and that additional fees or materials may be required as a result of considerations which may arise in the processing of this docket. I understand that the road, school, and park dedications may be required as a condition of approval.

I understand that I am consenting to allow the County Staff involved in this application or their designees to enter onto and inspect the subject property at any reasonable time, without obtaining any prior consent.

All landowners are required to sign application. If additional space is needed, attach additional sheet signed and dated.

Signature of Property Owner 	Printed Name Christopher Stone	Date 8/16/2022
Signature of Property Owner	Printed Name	Date

The Land Use Director may waive the landowner signature requirement for good cause, under the applicable provisions of the Land Use Code.






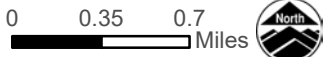
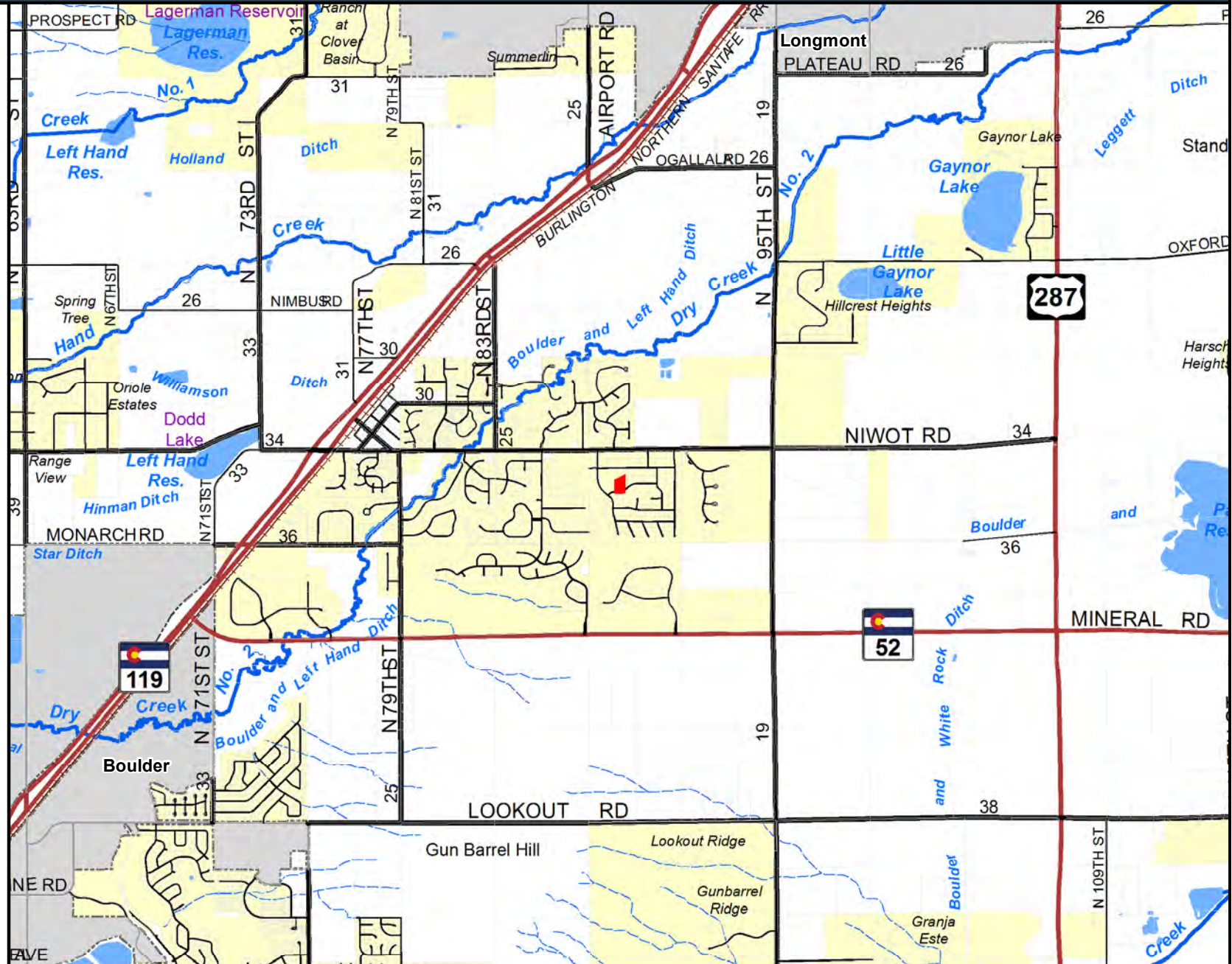
Community Planning & Permitting

2045 13th Street, Boulder, CO 80302 303-441-3930 www.bouldercounty.org

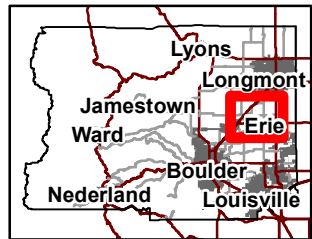
Vicinity

8829 MARATHON RD

-  Subject Parcel
-  Municipalities
- Subdivisions**
-  Subdivisions



Area of Detail Date: 11/1/2022



The user agrees to all Terms of Use set forth by Boulder County. For Terms of Use, please visit: www.bouldercounty.org/mapdisclaimer



Community Planning & Permitting

2045 13th Street, Boulder, CO 80302 303-441-3930 www.bouldercounty.org

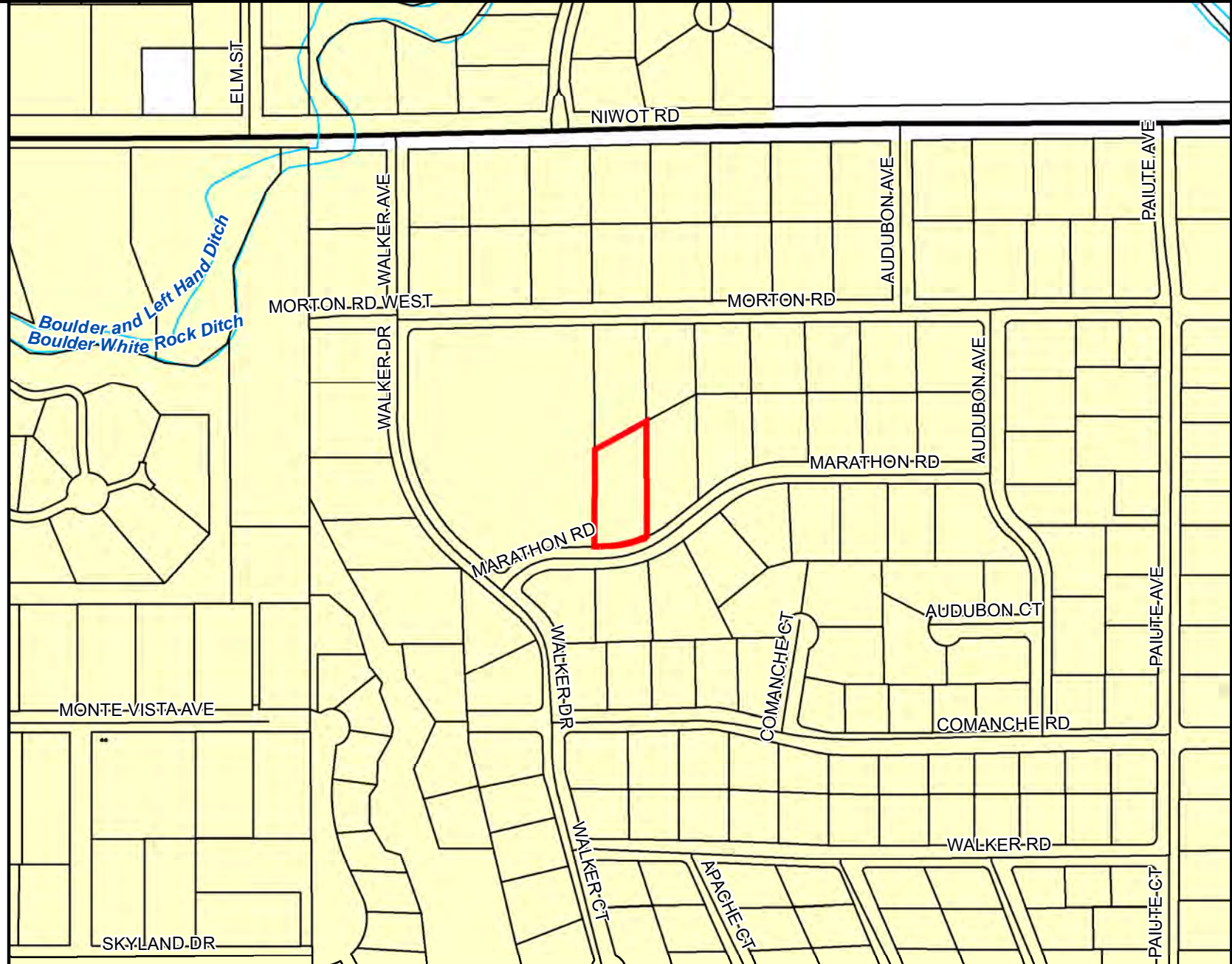
Location

8829 MARATHON RD

Subject Parcel

Subdivisions

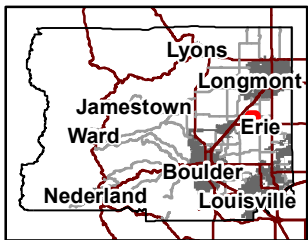
Subdivisions



0 0.035 0.07 Miles



Area of Detail Date: 11/1/2022



The user agrees to all Terms of Use set forth by Boulder County. For Terms of Use, please visit: www.bouldercounty.org/mapdisclaimer



Community Planning & Permitting

2045 13th Street, Boulder, CO 80302 303-441-3930 www.bouldercounty.org

Aerial

8829 MARATHON RD

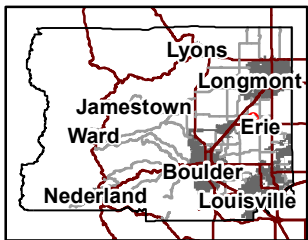
 Subject Parcel



0 0.005 0.01 Miles



Area of Detail Date: 11/1/2022



The user agrees to all Terms of Use set forth by Boulder County. For Terms of Use, please visit: www.bouldercounty.org/mapdisclaimer



Community Planning & Permitting

2045 13th Street, Boulder, CO 80302 303-441-3930 www.bouldercounty.org

Aerial

8829 MARATHON RD

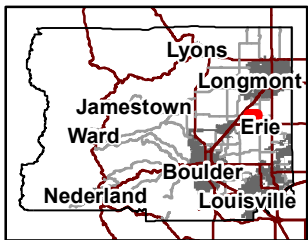
 Subject Parcel



0 0.05 0.1 Miles



Area of Detail Date: 11/1/2022



The user agrees to all Terms of Use set forth by Boulder County. For Terms of Use, please visit: www.bouldercounty.org/mapdisclaimer



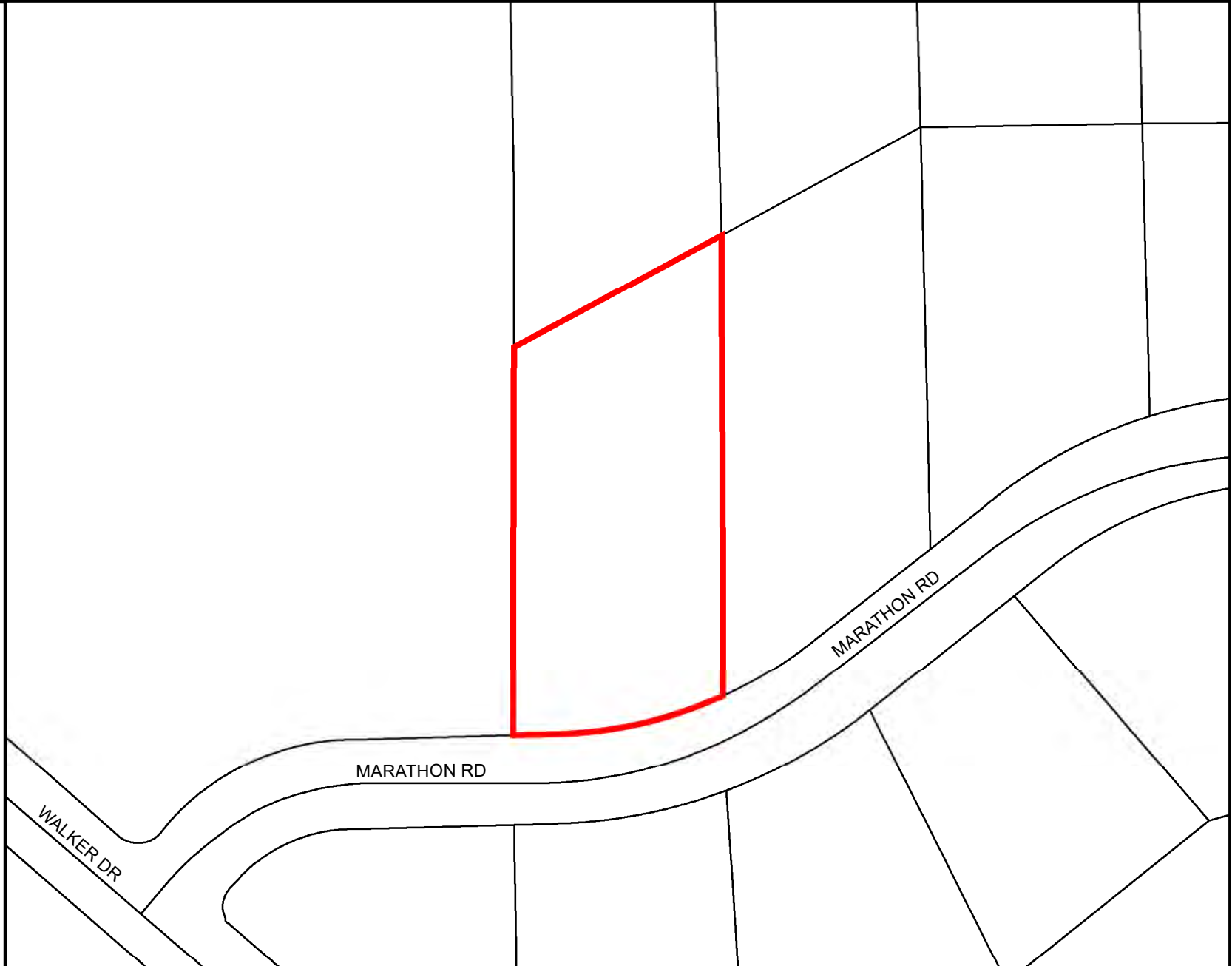
Community Planning & Permitting

2045 13th Street, Boulder, CO 80302 303-441-3930 www.bouldercounty.org

Comprehensive Plan

8829 MARATHON RD

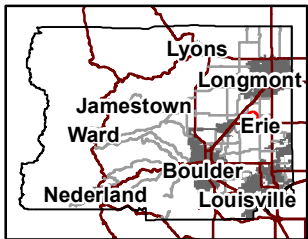
 Subject Parcel



0 0.0085 0.017
Miles



Area of Detail Date: 11/1/2022



The user agrees to all Terms of Use set forth by Boulder County. For Terms of Use, please visit: www.bouldercounty.org/mapdisclaimer



Community Planning & Permitting


2045 13th Street, Boulder, CO 80302 303-441-3930 www.bouldercounty.org

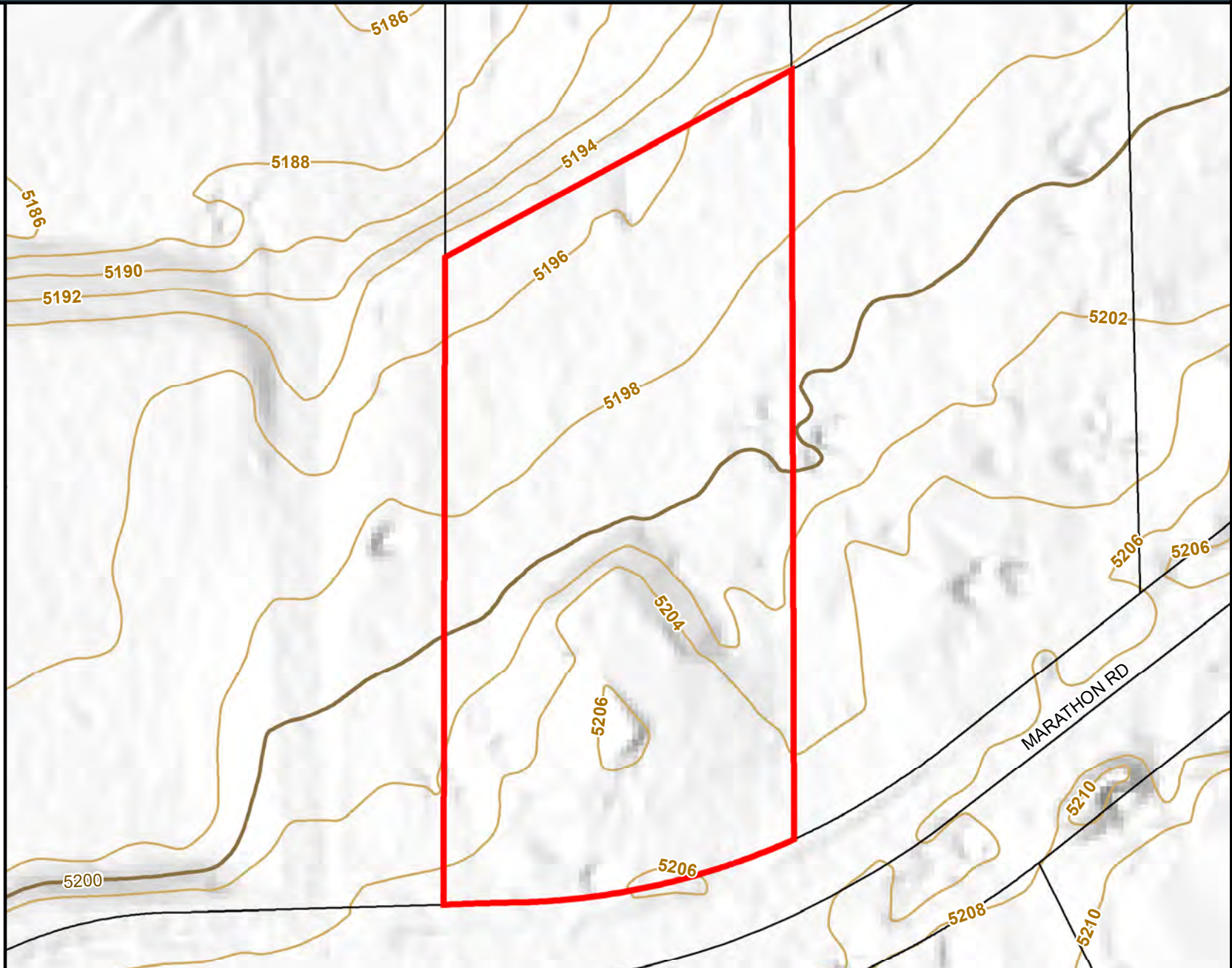
Elevation Contours

8829 MARATHON RD

 Subject Parcel

 Contours 40'

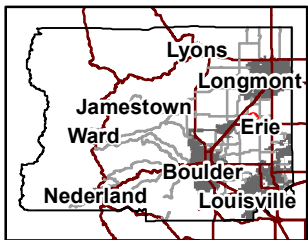
 Contours 2'



0 0.005 0.01 Miles



Area of Detail Date: 11/1/2022



The user agrees to all Terms of Use set forth by Boulder County. For Terms of Use, please visit: www.bouldercounty.org/mapdisclaimer






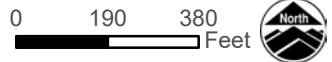
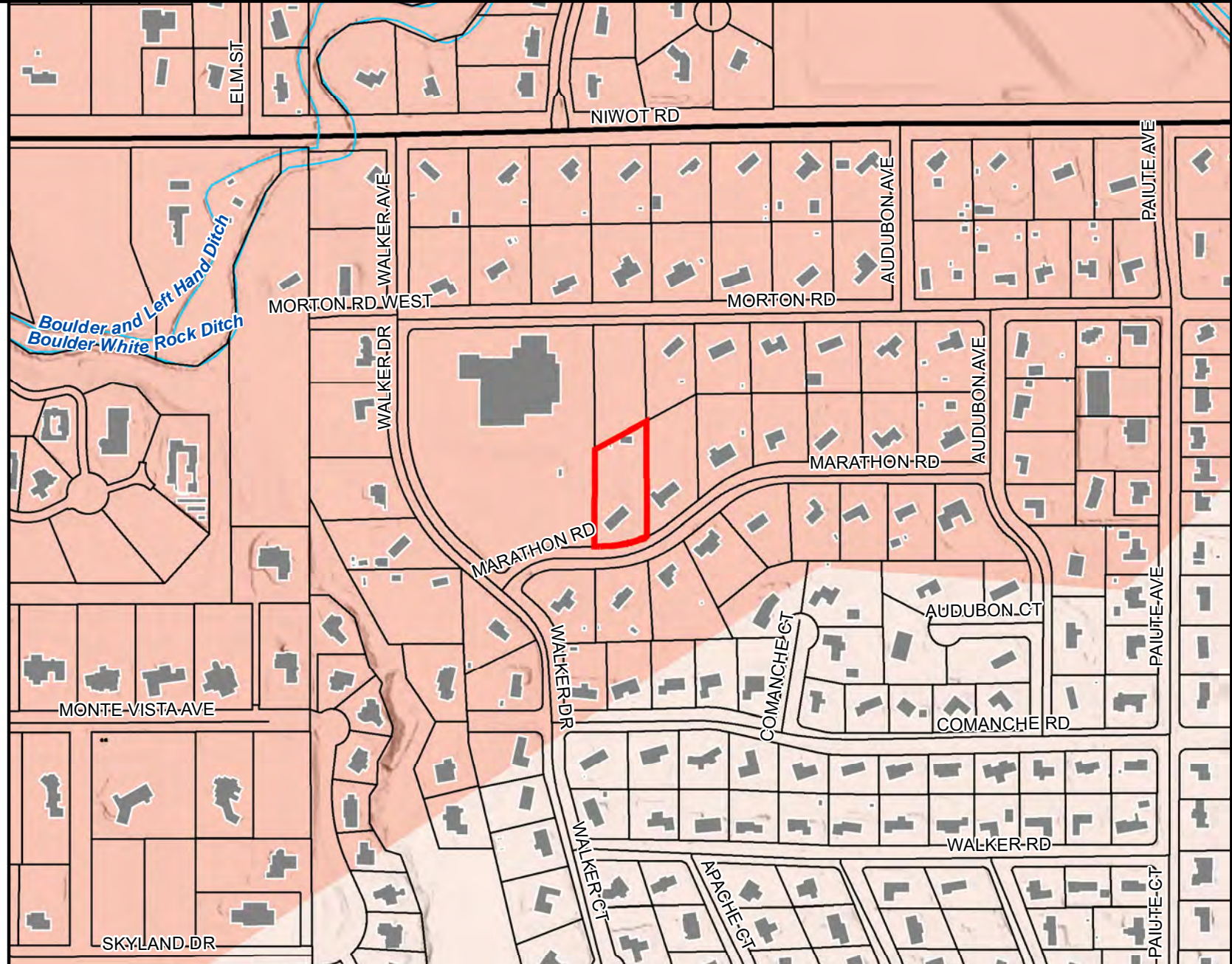
Community Planning & Permitting

2045 13th Street, Boulder, CO 80302 303-441-3930 www.bouldercounty.org

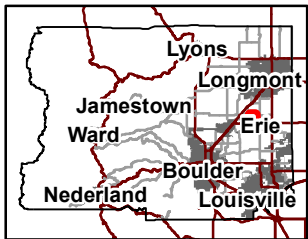
Geologic Hazards

8829 MARATHON RD

-  Subject Parcel
-  High Swelling Soil Potential
-  Moderate Swelling Soil Potential



Area of Detail Date: 11/1/2022



The user agrees to all Terms of Use set forth by Boulder County. For Terms of Use, please visit: www.bouldercounty.org/mapdisclaimer



Community Planning & Permitting

2045 13th Street, Boulder, CO 80302 303-441-3930 www.bouldercounty.org

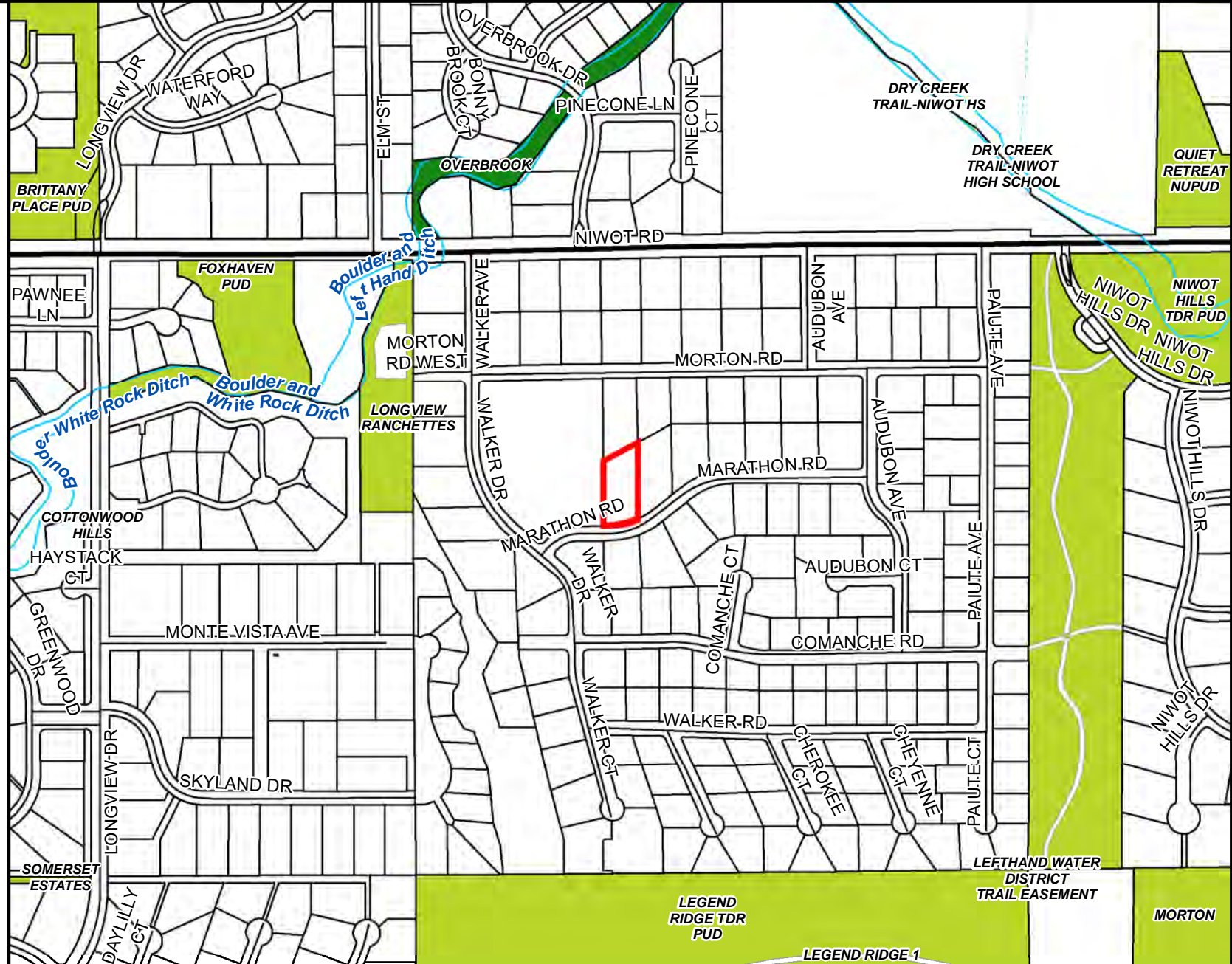
Public Lands & CEs

8829 MARATHON RD

Subject Parcel

Boulder County Open Space

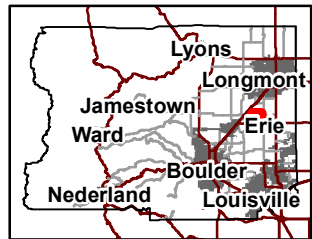
- County Open Space
- County Conservation Easement



0 0.05 0.1 Miles



Area of Detail Date: 11/1/2022



The user agrees to all Terms of Use set forth by Boulder County. For Terms of Use, please visit: www.bouldercounty.org/mapdisclaimer



Community Planning & Permitting

2045 13th Street, Boulder, CO 80302 303-441-3930 www.bouldercounty.org

Zoning

8829 MARATHON RD

Subject Parcel

Zoning Districts

Agricultural

Business

Rural Residential

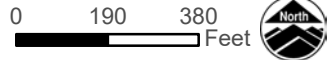
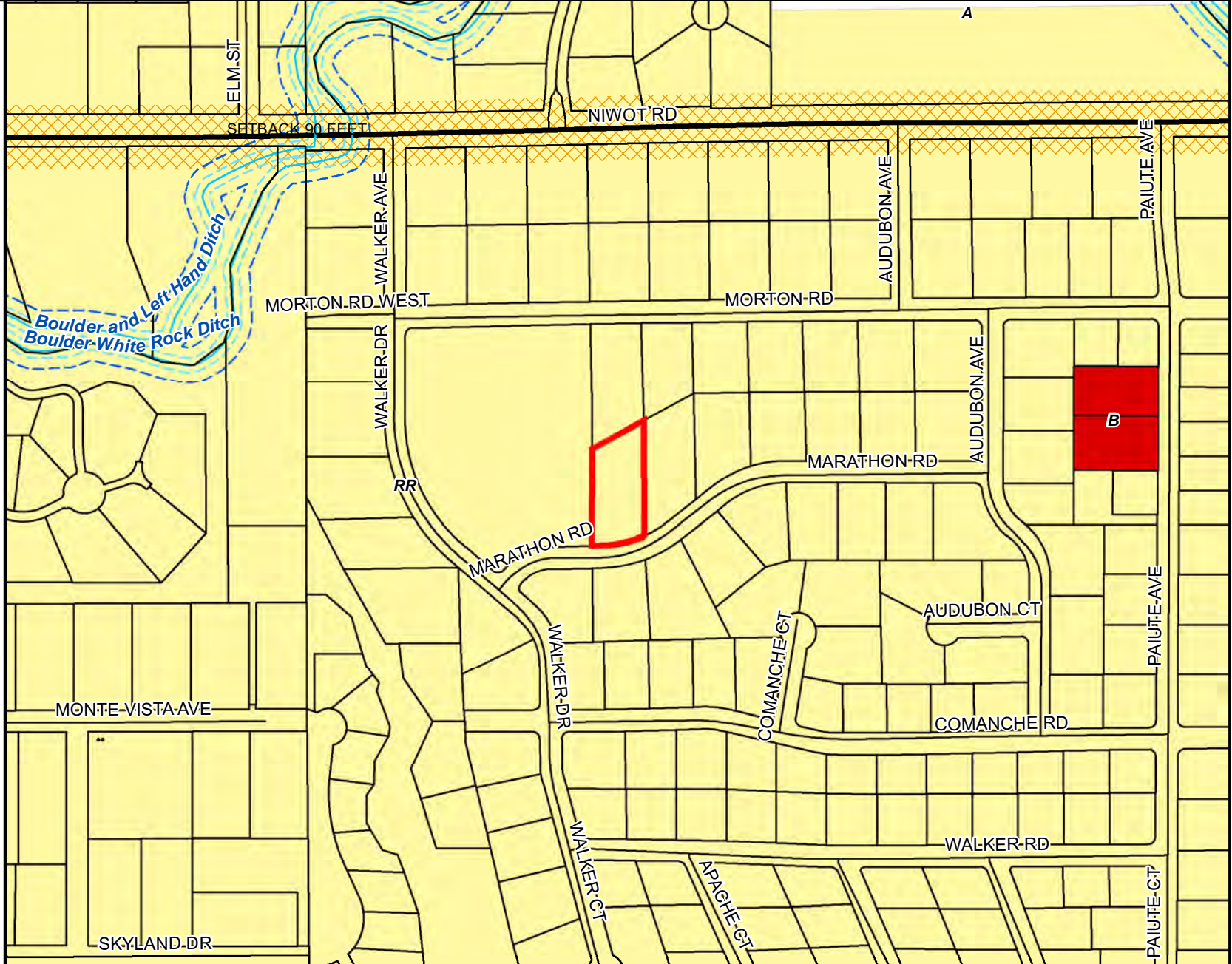
Ditch Setbacks

20 feet

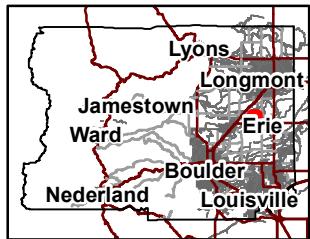
50 feet

Major Road Setbacks

90 feet



Area of Detail Date: 11/1/2022



The user agrees to all Terms of Use set forth by Boulder County. For Terms of Use, please visit: www.bouldercounty.org/mapdisclaimer

AERIAL VIEW:



STREET VIEW:



CONTRACTOR INFORMATION:

No Problem Electric Corp.
6975 HWY 66
Platteville, CO 80651
License # EC.0100746

SITE INFORMATION

Christopher Stone
8829 Marathon Rd
Longmont, CO 80503
AC SYSTEM SIZE: 6.96 kW AC
DC SYSTEM SIZE: 8.64 kW DC
Lat, 40.099011072655
Long, -105.147033304382
(24) Silfab SIL-360 NX mono PERC PV MODULES
(24) Enphase IQ8PLUS-72-2-US INVERTER(S)
XCEL Energy CO

GENERAL NOTES

1. INSTALLATION OF SOLAR PHOTOVOLTAIC SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 690, AND ALL OTHER APPLICABLE NEC CODES WHERE NOTED OR EXISTING.
2. PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL COMPLY WITH NEC ARTICLE 110.
3. ALL WIRES, INCLUDING THE GROUNDING ELECTRODE CONDUCTOR SHALL BE PROTECTED FROM PHYSICAL DAMAGE IN ACCORDANCE WITH NEC ARTICLE 250
4. THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE; THIS SYSTEM IS UTILITY INTERACTIVE PER UL 1741
5. ALL DC WIRES SHALL BE SIZED ACCORDING TO [NEC 690.8]
6. DC CONDUCTORS SHALL BE WITHIN PROTECTED RACEWAYS IN ACCORDANCE WITH [NEC 690.31]
7. ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL JURISDICTIONAL BUILDING CODE.

PHOTOVOLTAIC (PV) SYSTEM SPECIFICATIONS

EQUIPMENT:
AC SYSTEM SIZE: 6.96 kW AC
DC SYSTEM SIZE: 8.64 kW DC
(24) Silfab SIL-360 NX mono PERC PV MODULES
(24) Enphase IQ8PLUS-72-2-US INVERTER(S)
(1) Enphase Encharge 10 BATTERIES
RACKING: GROUND MOUNT

APPLICABLE GOVERNING CODES

2020 NEC
2015 IRC
2015 IFC
2015 IBC

SITE SPECIFICATIONS

OCCUPANCY: R-3
ZONING: RESIDENTIAL

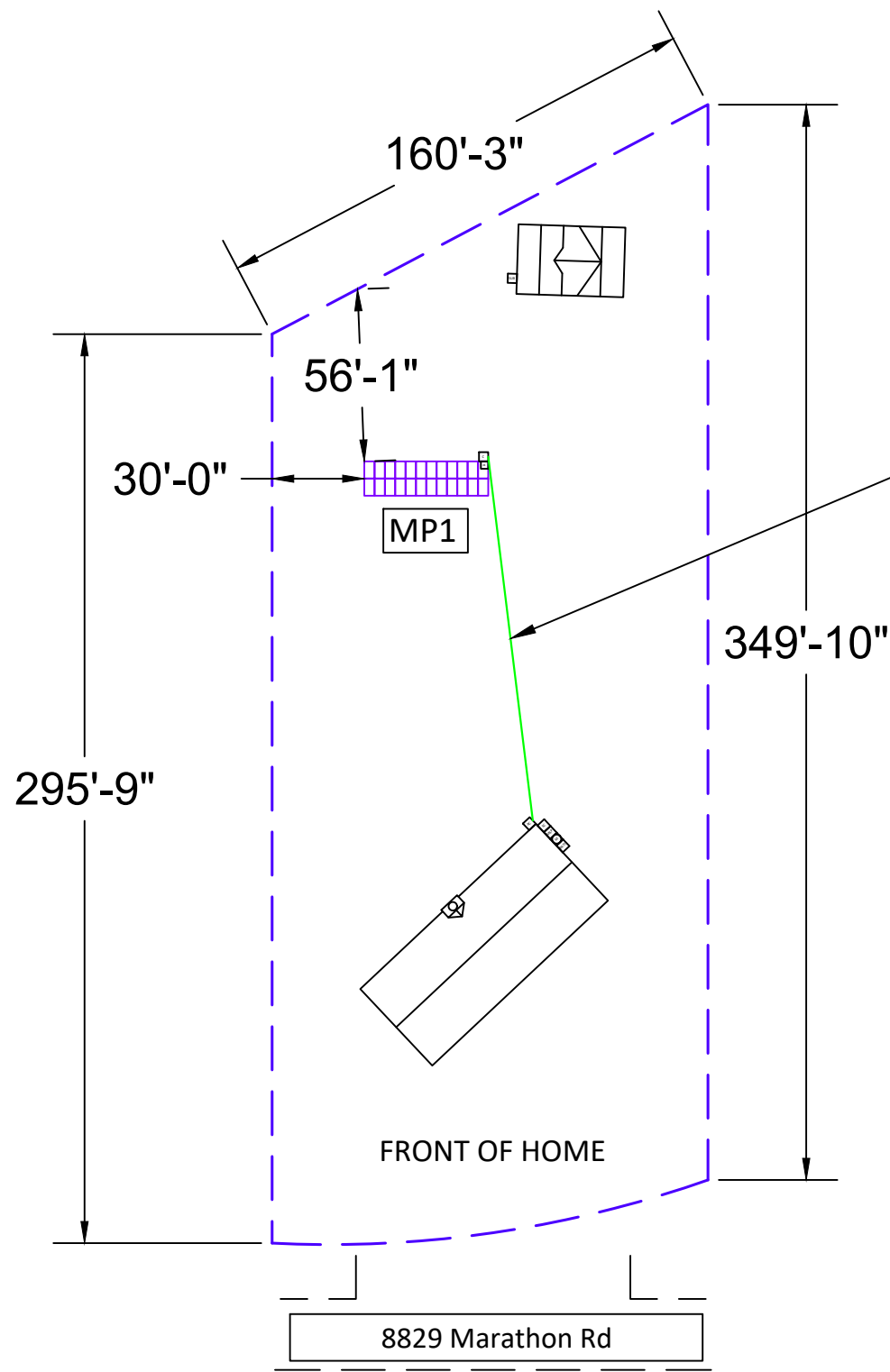
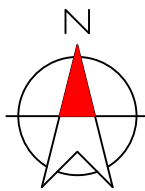
SHEET INDEX:

- PV01 COVER PAGE
- PV02 SITE PLAN
- PV03 ROOF ATTACHMENTS
- PV04 MOUNTING DETAIL
- PV05 LINE DIAGRAM
- PV06 ELECTRICAL CALCS
- PV07 LABELS
- PV08 PLACARD
- PV09 SITE PHOTOS

DRAWN BY: SoloCAD

DATE:
May 30, 2022

COVER PAGE - PV01



ARRAY DETAILS:		
MOUNTING PLANE:	AZIMUTH:	TILT:
MP1	180°	35°



CONTRACTOR INFORMATION:
 No Problem Electric Corp.
 6975 HWY 66
 Platteville, CO 80651
 License # EC.0100746

SITE INFORMATION

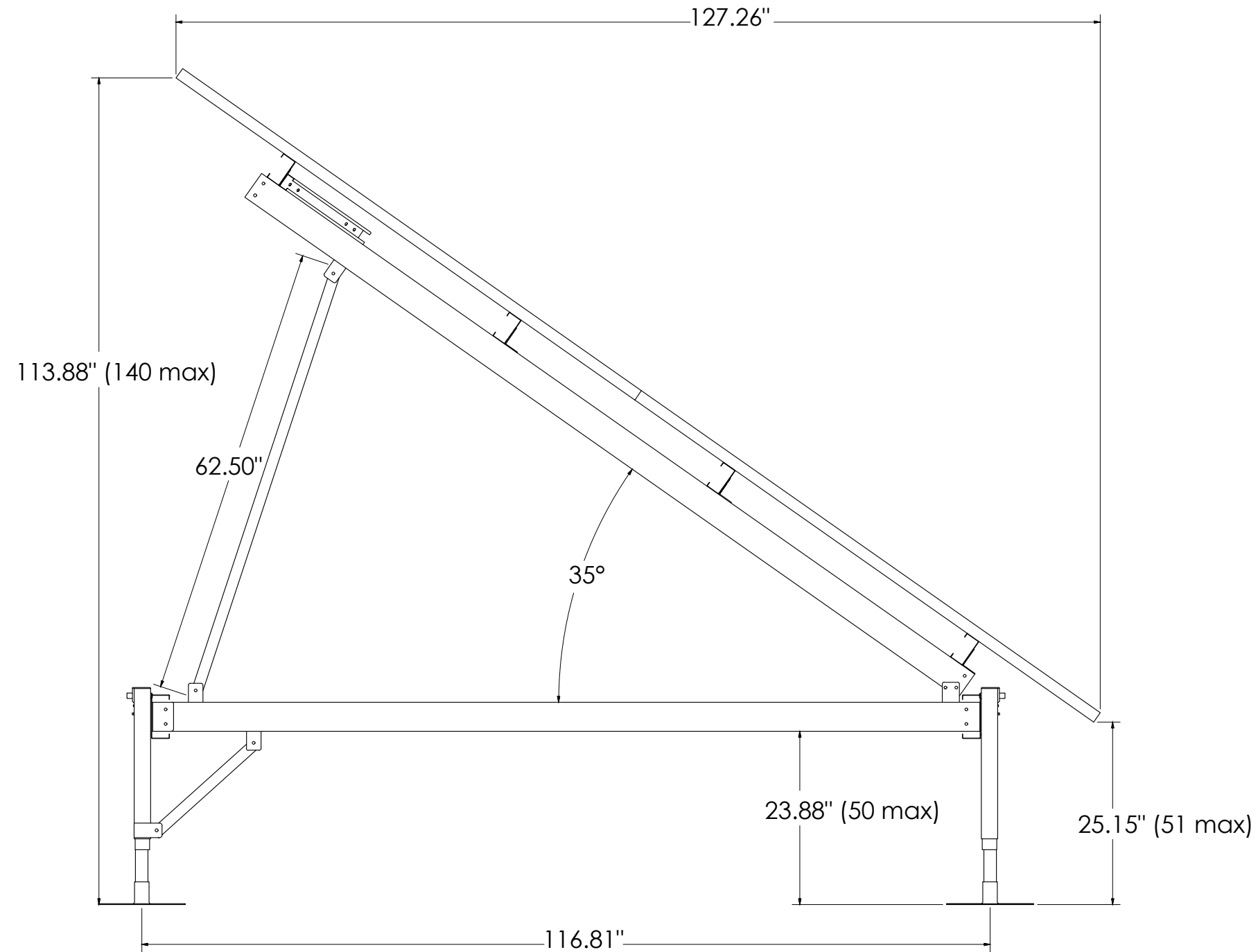
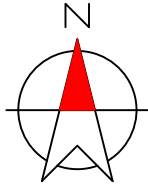
Christopher Stone
 8829 Marathon Rd
 Longmont, CO 80503
 AC SYSTEM SIZE: 6.96 kW AC
 DC SYSTEM SIZE: 8.64 kW DC
 Lat, 40.099011072655
 Long, -105.147033304382
 (24) Silfab SIL-360 NX mono PERC PV MODULES
 (24) Enphase IQ8PLUS-72-2-US INVERTER(S)
 XCEL Energy CO

EQUIPMENT LEGEND:

- UTILITY METER
- VISIBLE, LOCKABLE, LABELED AC DISCONNECT
- INVERTER
- SUB PANEL
- FIRE ACCESS PATHWAY (3' TYP)
- BATTERY(IES)
- MAIN SERVICE PANEL
- METER SOCKET (FOR UTILITY PV METER)
- COMBINER BOX
- LOAD CENTER
- PROPERTY LINE

VISIBLE, LOCKABLE, LABELED AC DISCONNECT LOCATED WITHIN 10' OF UTILITY METER

DRAWN BY: SoloCAD
 DATE: May 30, 2022
 SITE PLAN - PV02



CONTRACTOR INFORMATION:

No Problem Electric Corp.
6975 HWY 66
Platteville, CO 80651
License # EC.0100746

SITE INFORMATION

Christopher Stone
8829 Marathon Rd
Longmont, CO 80503
AC SYSTEM SIZE: 6.96 kW AC
DC SYSTEM SIZE: 8.64 kW DC
Lat, 40.099011072655
Long, -105.147033304382
(24) Silfab SIL-360 NX mono PERC PV
MODULES
(24) Enphase IQ8PLUS-72-2-US INVERTER(S)
XCEL Energy CO

DRAWN BY: SoloCAD

DATE:
May 30, 2022

ROOF ATTACHMENTS - PV03

1. Select a location on the Rear Chassis for a grounding lug to be installed.
2. Drill a through hole in the back of the Rear Chassis and install an ILSCO GBL-4DBT or other UL and cETL listed lay-in grounding lug. Refer to Figure 21 below.

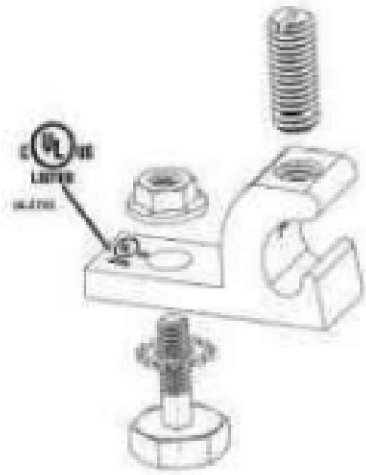
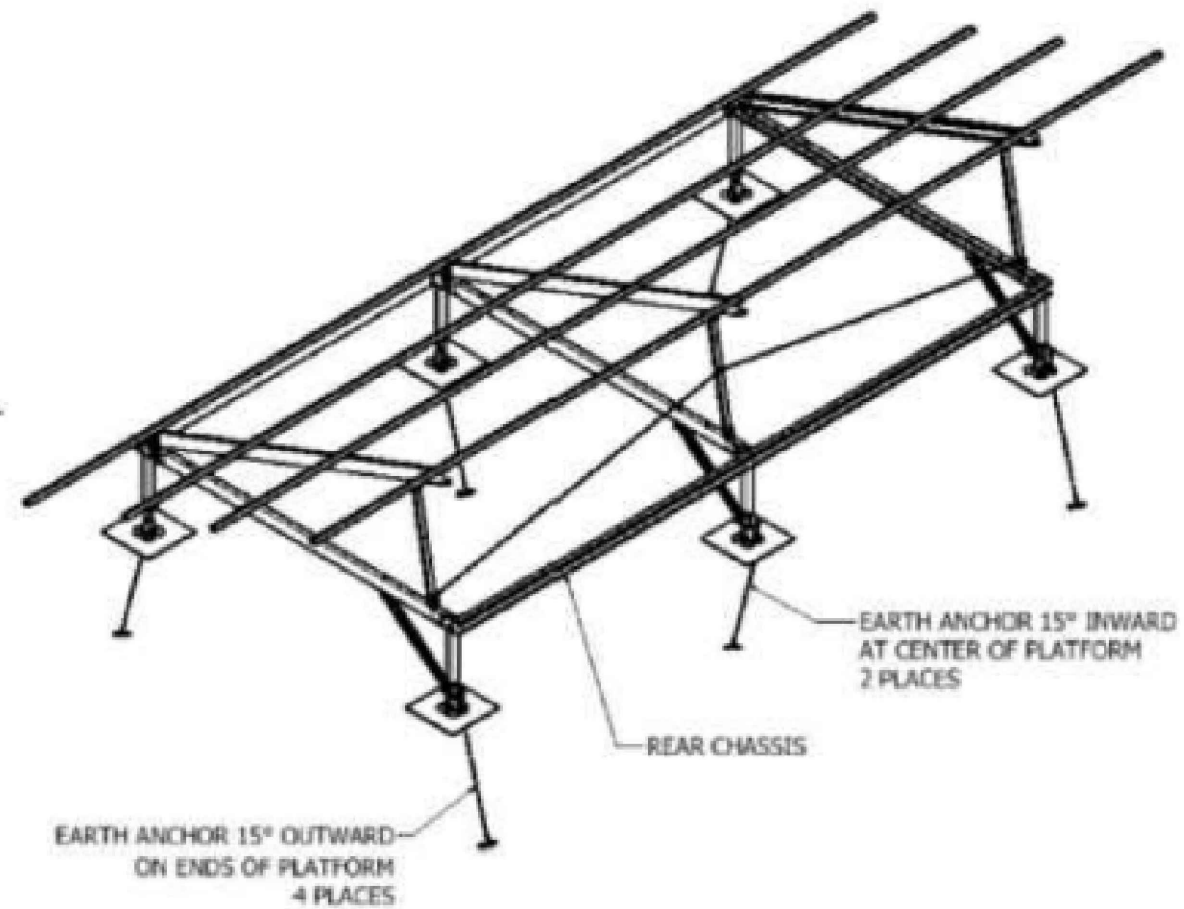
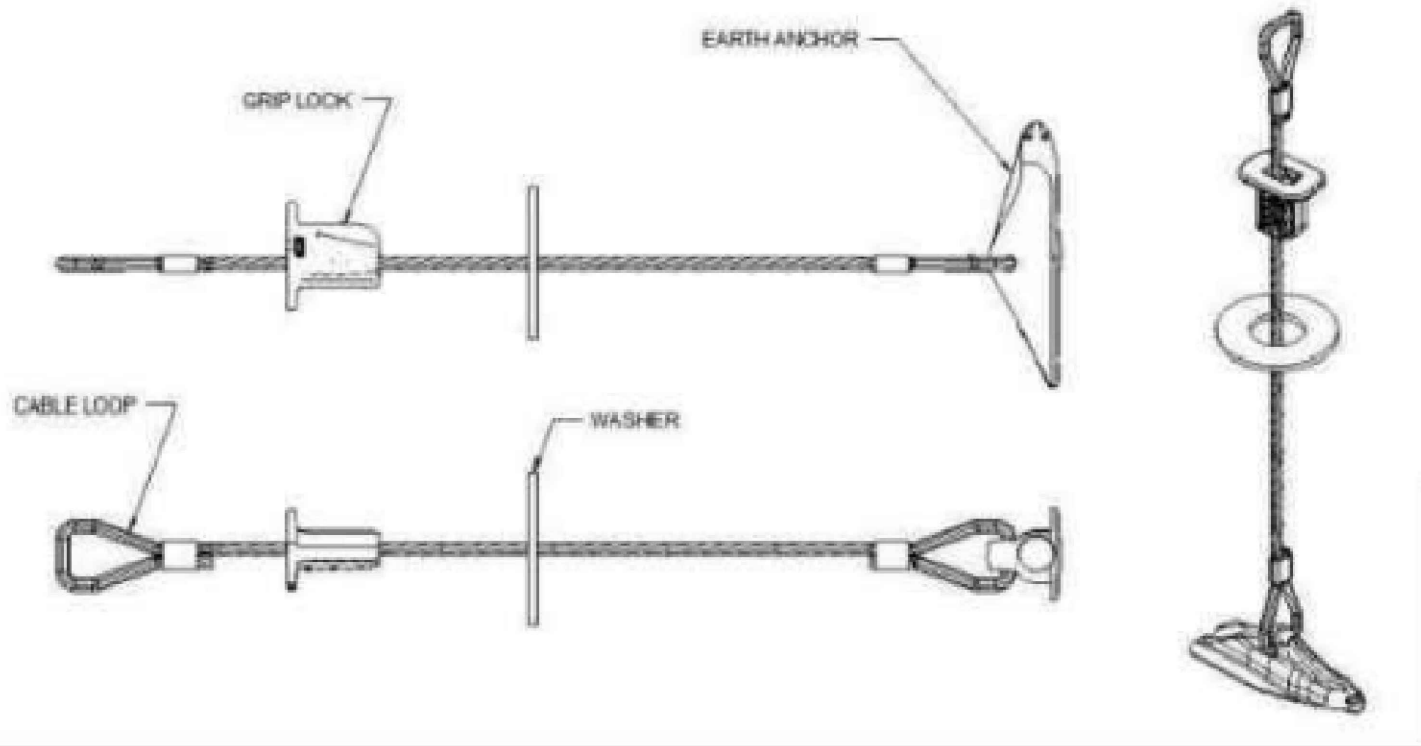


Figure 21: ILSCO GBL-4DBT GROUNDING LUG



CONTRACTOR INFORMATION:
 No Problem Electric Corp.
 6975 HWY 66
 Platteville, CO 80651
 License # EC.0100746

SITE INFORMATION
Christopher Stone
 8829 Marathon Rd
 Longmont, CO 80503
 AC SYSTEM SIZE: 6.96 kW AC
 DC SYSTEM SIZE: 8.64 kW DC
 Lat, 40.099011072655
 Long, -105.147033304382
 (24) Silfab SIL-360 NX mono PERC PV MODULES
 (24) Enphase IQ8PLUS-72-2-US INVERTER(S)
 XCEL Energy CO

DRAWN BY: SoloCAD
 DATE:
 May 30, 2022
 MOUNTING DETAIL - PV04

Silfab SIL-360 NX mono PERC Specs	
POWER MAX (P _{MAX}):	360W
OPEN CIRCUIT VOLTAGE (V _{OC}):	40.4V
MAX POWER-POINT CURRENT (I _{MP}):	7.8A
MAX POWER-POINT VOLTAGE (V _{MP}):	33.1V
SHORT CIRCUIT CURRENT (I _{SC}):	8.2A
SERIES FUSE RATING:	20A

Enphase IQ8PLUS-72-2-US Specs	
MAX INPUT VOLTAGE:	60 V
MAX DC SHORT CIRCUIT CURRENT:	15 A
MAXIMUM OUTPUT POWER:	290 W
MAXIMUM OUTPUT CURRENT:	1.21 A
NOM. OUTPUT VOLTAGE:	240 V
MAX UNITS PER 20A CIRCUIT:	13
1-Phase, 60 HZ, UL 1741 Listed	

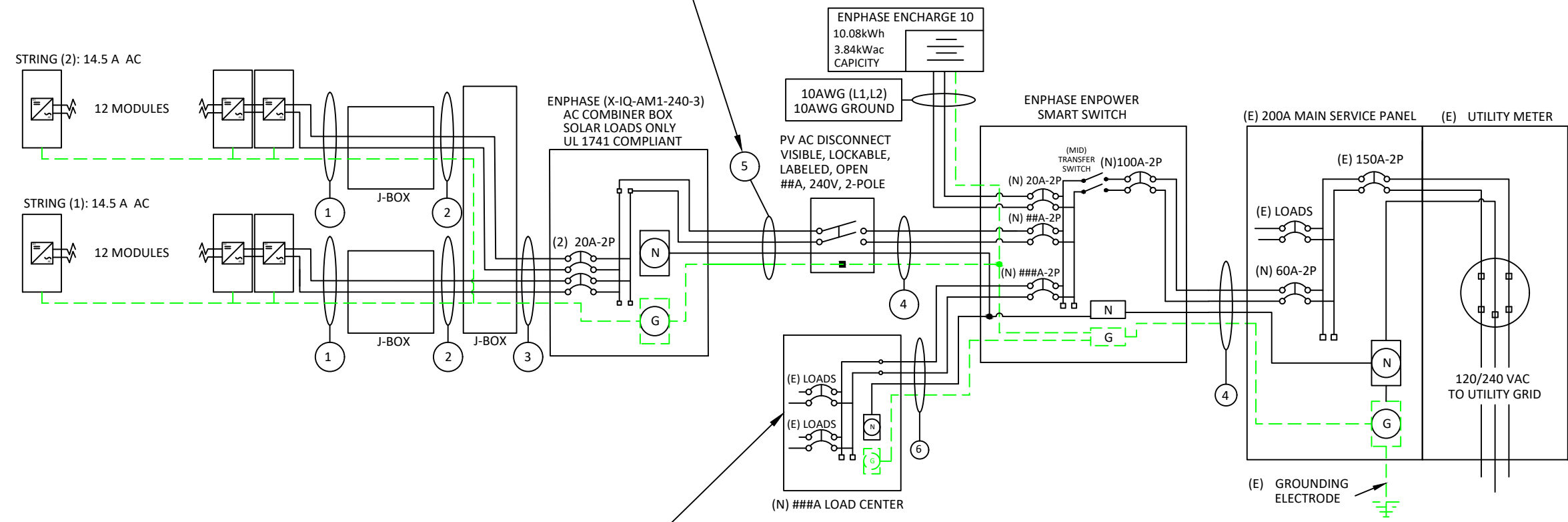
Equipment Schedule			
TYPE:	QTY:	DESCRIPTION:	RATING:
MODULES:	(24)	Silfab SIL-360 NX mono PERC	360 W
INVERTERS:	(24)	Enphase IQ8PLUS-72-2-US	290 W
AC DISCONNECT(S):	(1)	PV AC DISCONNECT, 240V, 2-POLE	60A
ENERGY STORAGE:	(1)	Enphase Encharge 10	10.5 kWh

Conduit & Conductor Schedule				
TAG	QTY	WIRE GAUGE	DESCRIPTION	CONDUIT SIZE
1	(2)	12-2	TC-ER, THWN-2, COPPER (L1, L2)	N/A - FREE AIR
	(1)	6 AWG	BARE, COPPER (GROUND)	
2	(2)	10 AWG	THWN-2, or THHN COPPER - (L1, L2)	3/4" EMT
	(1)	10 AWG	THWN-2, or THHN COPPER - (GROUND)	
3	(4)	10 AWG	THHN/THWN-2, COPPER - (L1, L2)	3/4" EMT
	(1)	10 AWG	THHN/THWN-2 - (GROUND)	
4	(3)	6 AWG	THWN-2 COPPER - (L1, L2, NEUTRAL)	3/4" EMT
	(1)	10 AWG	THWN-2 COPPER - (GROUND)	
5	(3)	6 AWG	THWN-2 COPPER - (L1,L2,NEUTRAL)	1.5" PVC
	(1)	10 AWG	THWN-2 COPPER - (GROUND)	
6	(3)	2 AWG	THWN-2 COPPER - (L1,L2,NEUTRAL)	1.25" EMT
	(1)	8 AWG	THWN-2 COPPER - (GROUND)	



CONTRACTOR INFORMATION:
 No Problem Electric Corp.
 6975 HWY 66
 Platteville, CO 80651
 License # EC.0100746

TRENCHING THROUGH DIRT
 APPROX: 130'
 18" MIN DEPTH PVC SCH40



BACKUP LOADS NOT TO EXCEED 20A

VISIBLE, LOCKABLE,
 LABELED AC DISCONNECT
 LOCATED WITHIN 10'
 OF UTILITY METER

SITE INFORMATION

Christopher Stone
 8829 Marathon Rd
 Longmont, CO 80503
 AC SYSTEM SIZE: 6.96 kW AC
 DC SYSTEM SIZE: 8.64 kW DC
 Lat, 40.099011072655
 Long, -105.147033304382
 (24) Silfab SIL-360 NX mono PERC PV
 MODULES
 (24) Enphase IQ8PLUS-72-2-US INVERTER(S)
 XCEL Energy CO

DRAWN BY: SoloCAD

DATE:
 May 30, 2022

LINE DIAGRAM - PV05

STRING CALCULATIONS		
Enphase IQ8PLUS-72-2-US	STRING #1	STRING #2
OPTIMIZER MAX OUTPUT CURRENT:	14.520000A	14.520000A
OPTIMIZERS IN SERIES:	12	12
NOMINAL STRING VOLTAGE:	240V	240V
ARRAY OPERATING CURRENT:	3480A	3480A
ARRAY DC POWER:	8640W	
TOTAL MAX AC CURRENT:	29.040000A	

SYSTEM OCPD CALCULATIONS	
INVERTER MODEL(S):	Enphase IQ8PLUS-72-2-US
# OF INVERTERS:	24
MAX OUTPUT CURRENT:	1.21A
(# OF INVERTERS) X (MAX OUTPUT CURRENT) X 125% <= OCPD RATING	
(24 X 1.21 A X 1.25) = 36.3A <= 40A, OK	

NUMBER OF CURRENT CARRYING CONDUCTORS	PERCENT OF VALUES
4-6	.80
7-9	.70
10-20	.50

BUSBAR CALCULATIONS - 120% RULE	
MAIN BUSBAR RATING:	200A
MAIN DISCONNECT RATING:	150A
BACKFEED BREAKER RATING:	40A (PV) + 20A (BATTERY) = 60A
(MAIN BUS RATING X 120%) - MAIN DISCONNECT RATING >= OCPD RATING	
(200A X 1.2) - 150A = 90A, >= 60A, OK	

Conduit & Conductor Schedule											
TAG	QTY	WIRE GAUGE	DESCRIPTION	CONDUIT SIZE	CONDUCTOR RATING	CONDUCTOR TEMP. RATE	AMBIENT TEMP	TEMP. DERATE	# OF CONDUCTORS DERATE	CONDUCTOR RATING W/DERATES	CONDUIT FILL
1	(2)	12-2	TC-ER, THWN-2, COPPER (L1, L2)	N/A - FREE AIR	30A	90°C	34°C	0.96	N/A - FREE AIR	28.8A	N/A - FREE AIR
	(1)	6 AWG	BARE, COPPER (GROUND)								
2	(2)	10 AWG	THWN-2, or THHN COPPER - (L1, L2)	3/4" EMT	40A	90°C	34°C	0.96	1	38.4A	11.9%
	(1)	10 AWG	THWN-2 COPPER - (GROUND)								
3	(4)	10 AWG	THHN/THWN-2, COPPER - (L1, L2)	3/4" EMT	40A	90°C	34°C	0.96	0.8	30.72A	19.8%
	(1)	10 AWG	THWN-2 COPPER - (GROUND)								
4	(3)	6 AWG	THWN-2 COPPER - (L1, L2, NEUTRAL)	3/4" EMT	65A	75°C	34°C	0.96	1	62.4A	32.6%
	(1)	10 AWG	THWN-2 COPPER - (GROUND)								
5	(3)	6 AWG	THWN-2 COPPER - (L1,L2,NEUTRAL)	1.5" PVC	65A	75°C	34°C	0.96	1	62.4A	10.12%
	(1)	10 AWG	THWN-2 COPPER - (GROUND)								
6	(3)	2 AWG	THWN-2 COPPER - (L1,L2,NEUTRAL)	1.25" EMT	115A	75°C	34°C	0.96	1	110.4A	25.59%
	(1)	8 AWG	THWN-2 COPPER - (GROUND)								



CONTRACTOR INFORMATION:
 No Problem Electric Corp.
 6975 HWY 66
 Platteville, CO 80651
 License # EC.0100746

SITE INFORMATION

Christopher Stone
 8829 Marathon Rd
 Longmont, CO 80503
 AC SYSTEM SIZE: 6.96 kW AC
 DC SYSTEM SIZE: 8.64 kW DC
 Lat, 40.099011072655
 Long, -105.147033304382
 (24) Silfab SIL-360 NX mono PERC PV MODULES
 (24) Enphase IQ8PLUS-72-2-US INVERTER(S)
 XCEL Energy CO

GROUNDING & GENERAL NOTES:

- PV INVERTER IS UNGROUNDED, TRANSFORMER-LESS TYPE.
- DC GEC AND AC EGC TO BE SPICED TO EXISTING ELECTRODE
- ANY EXISTING WIRING INVOLVED WITH PV SYSTEM CONNECTION THAT IS FOUND TO BE INADEQUATE PER CODE SHALL BE CORRECTED PRIOR TO FINAL INSPECTION.
- JUNCTION BOX QUANTITIES, AND PLACEMENT SUBJECT TO CHANGE IN THE FIELD - JUNCTION BOXES DEPICTED ON ELECTRICAL DIAGRAM REPRESENT WIRE TYPE TRANSITIONS.
- AC DISCONNECT NOTED IN EQUIPMENT SCHEDULE OPTIONAL IF OTHER AC DISCONNECTING MEANS IS LOCATED WITHIN 10' OF SERVICE DISCONNECT.

INTERCONNECTION NOTES:

- INTERCONNECTION SIZING, INSTALLATION AND COMPLIANCE DETERMINED IN ACCORDANCE WITH NEC [NEC 705.127, 705.128 AND 705.129].
- GROUNDING AND PROTECTION IN ACCORDANCE WITH NEC [NEC 250.2, 250.5, 250.20, 250.21, 250.22, 250.23, 250.24, 250.25, 250.26, 250.27, 250.28, 250.29, 250.30, 250.31, 250.32, 250.33, 250.34, 250.35, 250.36, 250.37, 250.38, 250.39, 250.40, 250.41, 250.42, 250.43, 250.44, 250.45, 250.46, 250.47, 250.48, 250.49, 250.50, 250.51, 250.52, 250.53, 250.54, 250.55, 250.56, 250.57, 250.58, 250.59, 250.60, 250.61, 250.62, 250.63, 250.64, 250.65, 250.66, 250.67, 250.68, 250.69, 250.70, 250.71, 250.72, 250.73, 250.74, 250.75, 250.76, 250.77, 250.78, 250.79, 250.80, 250.81, 250.82, 250.83, 250.84, 250.85, 250.86, 250.87, 250.88, 250.89, 250.90, 250.91, 250.92, 250.93, 250.94, 250.95, 250.96, 250.97, 250.98, 250.99, 250.100].
- ALL EQUIPMENT MUST BE RATED FOR BACK FEEDING.
- PV BREAKER TO BE POSITIONED IN A OPPOSITE END OF BUSBAR SEATTLE TO THE MAIN BREAKER.

DISCONNECT NOTES:

- DISCONNECTING SWITCH SHALL BE SUCH THAT WHEN THE SWITCH IS OPENED CONDUCTORS REMAINING ARE CONNECTED TO TERMINAL MARKERS LINE SIDE OR PLYER UPPER TERMINALS)
- AC DISCONNECT MUST BE ACCESSIBLE TO QUALIFIED PERSONS ON BELOW BREAK AND BE A VISIBLY OPENING SWITCH

DRAWN BY: SoloCAD

DATE:
May 30, 2022

ELECTRICAL CALCS - PV06

MAIN PHOTOVOLTAIC SYSTEM DISCONNECT

LABEL 1
PLACED ON THE MAIN DISCONNECTING MEANS FOR THE PV SYSTEM.
[NEC 690.13(B)]

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

LABEL 2
FOR PV DISCONNECTING MEANS WHERE THE LINE AND
LOAD TERMINALS MAY BE ENERGIZED IN THE OPEN
POSITION.
[NEC 690.13(B)]

WARNING
POWER SOURCE OUTPUT CONNECTION.
DO NOT RELOCATE THIS OVERCURRENT DEVICE.

LABEL 3
PLACED ADJACENT TO THE BACK-FED BREAKER FROM
THE INVERTER IF TIE IN CONSISTS OF LOAD SIDE
CONNECTION TO BUSBAR.
[NEC 705.12(B)(2)(3)(c)]

WARNING DUAL POWER SOURCE
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

LABEL 4
PLACED ON EQUIPMENT CONTAINING OVERCURRENT
DEVICES IN CIRCUITS SUPPLYING POWER TO
A BUSBAR OR CONDUCTOR SUPPLIED FROM MULTIPLE
SOURCES
[NEC 705.10(C)]

WARNING
THIS EQUIPMENT IS FED BY MULTIPLE
SOURCES. TOTAL RATING OF ALL
OVERCURRENT DEVICES, EXCLUDING
MAIN SUPPLY OVERCURRENT
DEVICE, SHALL NOT EXCEED
AMPACITY OF BUSBAR.

LABEL 5
EQUIPMENT CONTAINING OVERCURRENT
DEVICES IN CIRCUITS SUPPLYING POWER TO A
BUSBAR OR CONDUCTOR SUPPLIED FROM
MULTIPLE SOURCES SHALL BE MARKED TO
INDICATE THE PRESENCE OF ALL SOURCES.[NEC
705.12(B)(2)(3)(c)]

PHOTOVOLTAIC AC DISCONNECT
RATED AC OUTPUT CURRENT: 29
NOMINAL OPERATING AC VOLTAGE: 240

LABEL 6
MARKED AT AC DISCONNECTING MEANS.
[NEC 690.54]

LABELING NOTES:

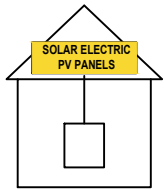
1. LABELS CALLED OUT ACCORDING TO ALL COMMON CONFIGURATIONS. ELECTRICIAN TO DETERMINE EXACT REQUIREMENTS IN THE FIELD PER CURRENT NEC AND LOCAL CODES AND MAKE APPROPRIATE ADJUSTMENTS.
2. LABELING REQUIREMENTS BASED ON THE 2020 NATIONAL ELECTRIC CODE, OSHA STANDARD 19010.145, ANSI Z535.
3. MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
4. LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED [NEC 110.21]
5. LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8", WHITE ON RED BACKGROUND; REFLECTIVE, AND PERMANENTLY AFFIXED [IFC 605.11.1.1]

PHOTOVOLTAIC POWER SOURCE

LABEL 7
AT DIRECT-CURRENT EXPOSED RACEWAYS, CABLE TRAYS, COVERS AND
ENCLOSURES OF JUNCTION BOXES, AND OTHER WIRING METHODS; SPACED
AT MAXIMUM 10FT SECTION OR WHERE SEPARATED BY ENCLOSURES, WALLS,
PARTITIONS, CEILINGS, OR FLOORS.
[NEC 690.31(D)(2)]

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 ARRAY



LABEL 8
FOR PV SYSTEMS THAT SHUT DOWN THE ARRAY AND CONDUCTORS LEAVING THE ARRAY:
SIGN TO BE LOCATED ON OR NO MORE THAN 3 FT AWAY FROM SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED AND SHALL INDICATE THE LOCATION OF ALL IDENTIFIED RAPID SHUTDOWN SWITCHES IF NOT AT THE SAME LOCATION.
[NEC 690.56(C)(1)(A)]

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

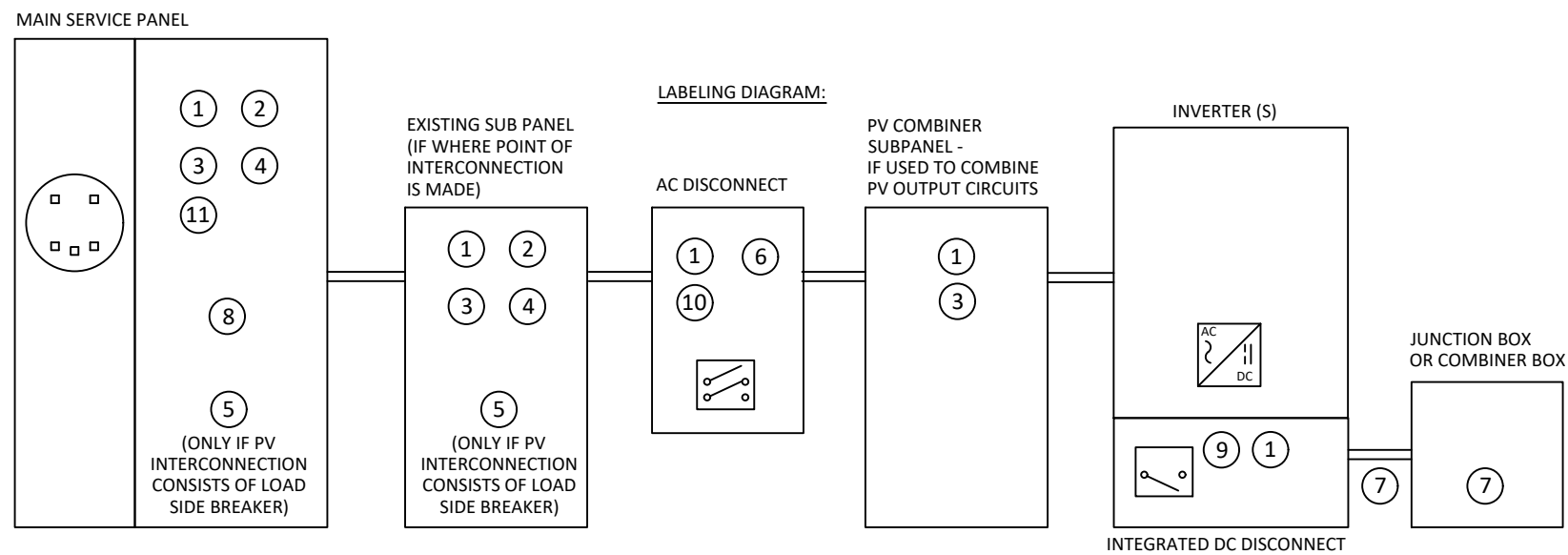
LABEL 9
SIGN LOCATED ON OR NO MORE THAN 3FT FROM INITIATION DEVICE
[NEC 690.56(C)(2)].

PV AC DISCONNECT

LABEL 10
PLACARD TO BE PLACED AT THE AC DISCONNECT.

PHOTOVOLTAIC SYSTEM CONNECTED

LABEL 11
PLACARD TO BE PLACED AT THE MAIN BILLING METER PER XCEL ENERGY.



*ELECTRICAL DIAGRAM SHOWN ABOVE IS FOR LABELING PURPOSES ONLY. NOT AN ACTUAL REPRESENTATION OF EQUIPMENT AND CONNECTIONS TO BE INSTALLED. LABEL LOCATIONS PRESENTED MAY VARY DEPENDING ON TYPE OF INTERCONNECTION METHOD AND LOCATION PRESENTED ON THE ELECTRICAL DIAGRAM PAGE.



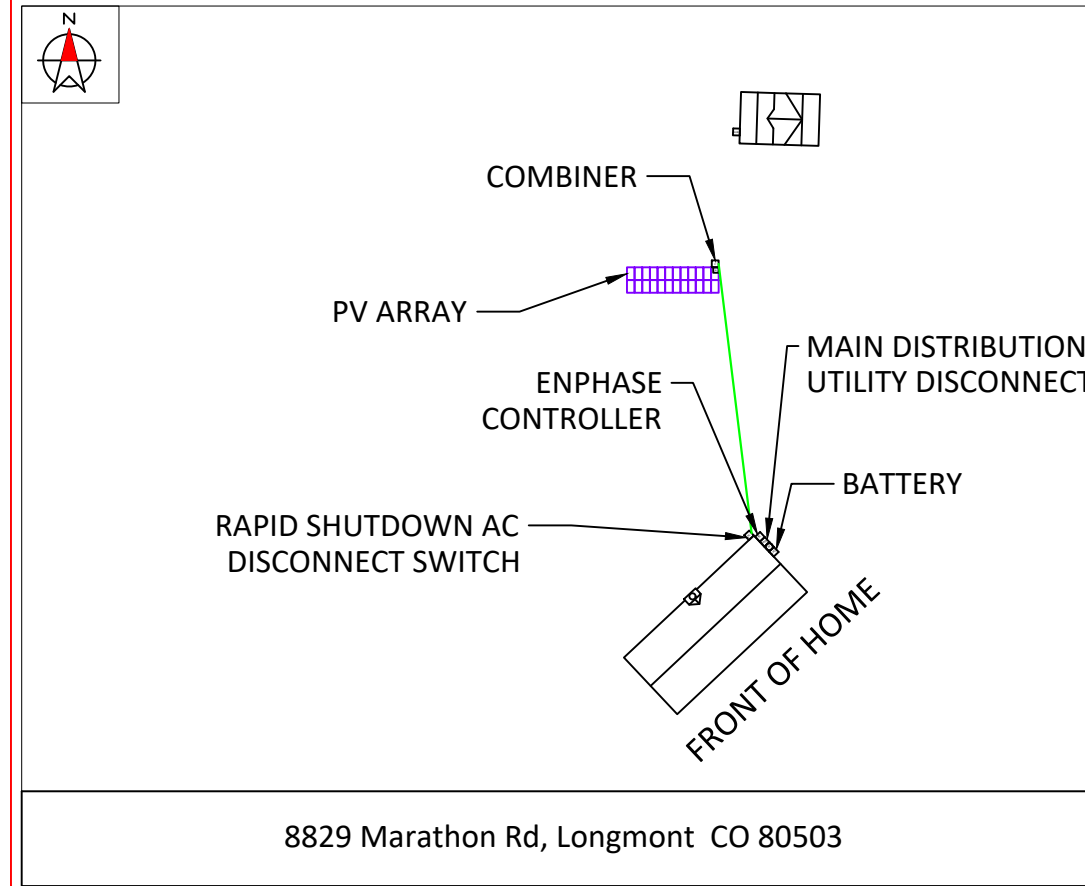
CONTRACTOR INFORMATION:
No Problem Electric Corp.
6975 HWY 66
Platteville, CO 80651
License # EC.0100746

SITE INFORMATION
Christopher Stone
8829 Marathon Rd
Longmont, CO 80503
AC SYSTEM SIZE: 6.96 kW AC
DC SYSTEM SIZE: 8.64 kW DC
Lat, 40.099011072655
Long, -105.147033304382
(24) Silfab SIL-360 NX mono PERC PV MODULES
(24) Enphase IQ8PLUS-72-2-US INVERTER(S)
XCEL Energy CO

DRAWN BY: SoloCAD
DATE: May 30, 2022
TITLE: LABELS - PV07

CAUTION

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM ROOF MOUNTED SOLAR ARRAYS WITH SAFETY DISCONNECTS AS SHOWN:



DIRECTORY

PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM.

(ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS OUTLINED WITHIN:
NEC 690.56(B)&(C), [NEC 705.10])



CONTRACTOR INFORMATION:

No Problem Electric Corp.
6975 HWY 66
Platteville, CO 80651
License # EC.0100746

SITE INFORMATION

Christopher Stone
8829 Marathon Rd
Longmont, CO 80503
AC SYSTEM SIZE: 6.96 kW AC
DC SYSTEM SIZE: 8.64 kW DC
Lat, 40.099011072655
Long, -105.147033304382
(24) Silfab SIL-360 NX mono PERC PV
MODULES
(24) Enphase IQ8PLUS-72-2-US INVERTER(S)
XCEL Energy CO

DRAWN BY: SoloCAD

DATE:
May 30, 2022

PLACARD - PV08

SITE PHOTOS:



CONTRACTOR INFORMATION:
 No Problem Electric Corp.
 6975 HWY 66
 Platteville, CO 80651
 License # EC.0100746

SITE INFORMATION

Christopher Stone
 8829 Marathon Rd
 Longmont, CO 80503
 AC SYSTEM SIZE: 6.96 kW AC
 DC SYSTEM SIZE: 8.64 kW DC
 Lat, 40.099011072655
 Long, -105.147033304382
 (24) Silfab SIL-360 NX mono PERC PV
 MODULES
 (24) Enphase IQ8PLUS-72-2-US INVERTER(S)
 XCEL Energy CO



DRAWN BY: SoloCAD

DATE:
 May 30, 2022

SITE PHOTOS - PV09



SIL-360 NX



HIGH EFFICIENCY PREMIUM MONO-PERC PV MODULE

INDUSTRY LEADING WARRANTY

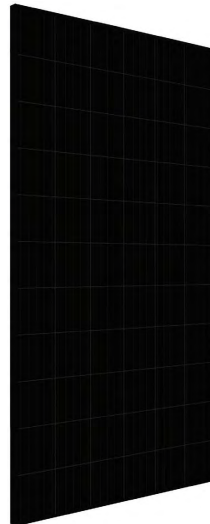
All our products include an industry leading 25-year product workmanship and 30-year performance warranty.

35+ YEARS OF SOLAR INNOVATION

Leveraging over 35+ years of worldwide experience in the solar industry, Silfab is dedicated to superior manufacturing processes and innovations such as Bifacial and Back Contact technologies, to ensure our partners have the latest in solar innovation.

NORTH AMERICAN QUALITY

Silfab is the leading automated solar module manufacturer in North America. Utilizing premium quality materials and strict quality control management to deliver the highest efficiency, premium quality PV modules.



CHUBB
* Chubb provides error and omission insurance to Silfab Solar Inc.

BAA / ARRA COMPLIANT

Silfab panels are designed and manufactured to meet Buy American Act Compliance. The US State Department, US Military and FAA have all utilized Silfab panels in their solar installations.

LIGHT AND DURABLE

Engineered to accommodate high wind load conditions for test loads validated up to 4000Pa uplift. The light-weight frame is exclusively designed for wide-ranging racking compatibility and durability.

QUALITY MATTERS

Total automation ensures strict quality controls during the entire manufacturing process at our ISO certified facilities.

DOMESTIC PRODUCTION

Silfab Solar manufactures PV modules in two automated locations within North America. Our 500+ North American team is ready to help our partners win the hearts and minds of customers, providing customer service and product delivery that is direct, efficient and local.

AESTHETICALLY PLEASING

All black sleek design, ideal for high-profile residential or commercial applications.

PID RESISTANT

PID Resistant due to advanced cell technology and material selection. In accordance to IEC 62804-1.

Electrical Specifications		SIL-360 NX mono PERC	
Test Conditions		STC	NOCT
Module Power (Pmax)	Wp	360	258
Maximum power voltage (Vpmax)	V	36.6	33.1
Maximum power current (Ipmax)	A	9.9	7.8
Open circuit voltage (Voc)	V	44.5	40.4
Short circuit current (Isc)	A	10.5	8.2
Module efficiency	%	19.7	17.6
Maximum system voltage (VDC)	V		1000
Series fuse rating	A		20
Power Tolerance	Wp		0 to +10

Measurement conditions: STC 1000 W/m² • AM 1.5 • Temperature 25 °C • NOCT 800 W/m² • AM 1.5 • Measurement uncertainty ≤ 3%
• Sun simulator calibration reference modules from Fraunhofer Institute. Electrical characteristics may vary by ±5% and power by 0 to +10W.

Temperature Ratings		SIL-360 NX mono PERC	
Temperature Coefficient Isc		+0.064 %/°C	
Temperature Coefficient Voc		-0.279 %/°C	
Temperature Coefficient Pmax		-0.36 %/°C	
NOCT (± 2°C)		46 °C	
Operating temperature		-40/+85 °C	

Mechanical Properties and Components		SIL-360 NX mono PERC	
	Metric	Imperial	
Module weight	20±0.2 kg	44±0.4 lbs	
Dimensions (H x L x D)	1832 mm x 1000 mm x 38 mm	72.13 in x 39.4 in x 1.5 in	
Maximum surface load (wind/snow)*	4000 Pa rear load / 5400 Pa front load	83.5/112.8 lb/ft ²	
Hail impact resistance	ø 25 mm at 83 km/h	ø 1 in at 51.6 mph	
Cells	66 - Si mono-PERC - 5 busbar 158.75 x 158.75 mm	66 - Si mono-PERC - 5 busbar 62.25 x 62.25 in	
Glass	3.2 mm high transmittance, tempered, DSM anti-reflective coating	0.126 in high transmittance, tempered, DSM anti-reflective coating	
Cables and connectors (refer to installation manual)	1200 mm ø 5.7 mm, MC4 from Staubli	47.2 in, ø 0.22 (12AWG), MC4 from Staubli	
Backsheet	High durability, superior hydrolysis and UV resistance, multi-layer dielectric film, fluorine-free PV backsheet		
Frame	Anodized Aluminum (Black)		
Bypass diodes	3 diodes-30SQ045T (45V max DC blocking voltage, 30A max forward rectified current)		
Junction Box	UL 3730 Certified, IEC 62790 Certified, IP67 rated		

Warranties		SIL-360 NX mono PERC	
Module product workmanship warranty		25 years**	
Linear power performance guarantee		30 years	
		≥ 97.1% end 1 st year	≥ 91.6% end 12 th year ≥ 85.1% end 25 th year ≥ 82.6% end 30 th year

Certifications		SIL-360 NX mono PERC	
Product		ULC ORD C1703, UL1703, CEC listed***, UL 61215-1/-1-1/-2, UL 61730-1/-2, IEC 61215-1/-1-1/-2***, IEC 61730-1/-2***, CSA C22.2#61730-1/-2, IEC 62716 Ammonia Corrosion; IEC61701:2011 Salt Mist Corrosion Certified, UL Fire Rating: Type 2	
Factory		ISO9001:2015	

All states except California California
 Modules Per Pallet: 26 Modules Per Pallet: 26
 Pallets Per Truck: 34 Pallets Per Truck: 32
 Modules Per Truck: 884 Modules Per Truck: 832

*Warning: Read the Safety and Installation Manual for mounting specifications and before handling, installing and operating modules.

**12 year extendable to 25 years subject to registration and conditions outlined under "Warranty" at www.silfabsolar.com.

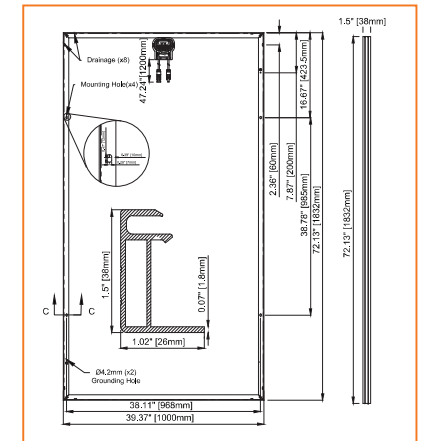
***Certification and CEC listing in progress.

PAN files generated from 3rd party performance data are available for download at: www.silfabsolar.com/downloads.



Silfab Solar Inc.
 240 Courtneypark Drive East
 Mississauga ON L5T 2Y3 Canada
 Tel +1 905-255-2501 | Fax +1 905-696-0267
 info@silfabsolar.com | www.silfabsolar.com

Silfab Solar Inc.
 800 Cornwall Ave
 Bellingham WA 98225 USA
 Tel +1 360-569-4733



Enphase IQ Combiner 4/4C

X-IQ-AM1-240-4
X-IQ-AM1-240-4C



To learn more about Enphase offerings, visit enphase.com

The **Enphase IQ Combiner 4/4C** with Enphase IQ Gateway and integrated LTE-M cell modem (included only with IQ Combiner 4C) consolidates interconnection equipment into a single enclosure and streamlines IQ microinverters and storage installations by providing a consistent, pre-wired solution for residential applications. It offers up to four 2-pole input circuits and Eaton BR series busbar assembly.

Smart

- Includes IQ Gateway for communication and control
- Includes Enphase Mobile Connect cellular modem (CELLM00EM-M1-06-SP-05), included only with IQ Combiner 4C
- Includes solar shield to match Enphase IQ Battery aesthetics and deflect heat
- Facile networking supports Wi-Fi, Ethernet, or cellular
- Optional AC receptacle available for PLC bridge (plug-in breakers not included)
- Provides production metering and consumption monitoring

Simple

- Centered mounting brackets support single stud mounting
- Supports bottom, back and side conduit entry
- Up to four 2-pole branch circuits for 240 VAC (plug-in breakers not included)
- 80A total PV or storage branch circuits

Reliable

- Durable NRTL-certified NEMA type 3R enclosure
- Five-year limited warranty
- Two-year labor reimbursement program coverage included for both IQ Combiner SKUs
- UL listed

Enphase IQ Combiner 4/4C

MODEL NUMBER	
IQ Combiner 4 (X-IQ-AM1-240-4)	IQ Combiner 4 with Enphase IQ Gateway printed circuit board for integrated remote-grade PV production metering (ANSI C12.20 ACS-3N) and consumption monitoring (> 2.5 ft). Includes a solar solar shield to match the IQ Battery system and IQ Combiner 4C (not included).
IQ Combiner 4C (X-IQ-AM1-240-4C)	IQ Combiner 4C with Enphase IQ Gateway printed circuit board for integrated remote-grade PV production metering (ANSI C12.20 ACS-3N) and consumption monitoring (> 2.5 ft). Includes Enphase Mobile Connect cellular modem (CELLM00EM-M1-06-SP-05), plug-and-play industrial-grade cell modem for systems up to 40 microinverters. Available for US, Canada, Mexico, Puerto Rico, and other US territories. When there is a dedicated cellular service to the installation area, it includes a fiber optic shield to match the IQ Battery and IQ System Controller, and a drilled heat sink.

ACCESSORIES AND REPLACEMENT PARTS

ACCESSORIES AND REPLACEMENT PARTS	(Not included, order separately)
Enphase Communication Kit	Includes COMMKIT-01 or CELLM00EM-M1-06-SP-05 with System Sprint data plan for Enphase sites
480 Volt UL754M 4-pole breaker	480 Volt UL754M 4-pole breaker modern with System Sprint data plan
480 Volt UL754M 2-pole breaker	480 Volt UL754M 2-pole breaker modern with System Sprint data plan
Supports Eaton BR1, BR2, BR3, BR2UL, BR2UL, BR3UL, BR3UL, BR200 and BR200 circuit breakers.	
Circuit Breaker	Supports Eaton BR1, BR2, BR3, BR2UL, BR2UL, BR3UL, BR3UL, BR200 and BR200 circuit breakers.
BR1-30-0-040V	Circuit breaker, 2 pole, 15A, Eaton BR120
BR1-30-0-040V	Circuit breaker, 2 pole, 15A, Eaton BR120
BR1-30-0-240V	Circuit breaker, 2 pole, 15A, Eaton BR120
BR1-30-0-240V	Circuit breaker, 2 pole, 15A, Eaton BR120 with built-down kit support
BR1-30-2-240V	Circuit breaker, 2 pole, 20A, Eaton BR200
BR1-30-2-240V	Circuit breaker, 2 pole, 20A, Eaton BR200 with built-down kit support
PLC-01	Power line carrier (communication board), quantity one pair
X-IQ-ACR-01-04C	Reg breaker cable shield for IQ Combiner 4/4C
X-IQ-PLD-05C	Accessory receptacle for Power Line Carrier in IQ Combiner 4/4C (pair for PLD-01)
X-IQ-EM-PCB-01	Reg breaker cable shield for IQ Combiner 4/4C
X-IQ-AM-01-25A	Hub/Down kit for Eaton circuit breaker with screws

ELECTRICAL SPECIFICATIONS

Rating	Continuous duty
System voltage	120/240 VAC, 60 Hz
Eaton BR series busbar rating	125 A
Max. continuous current rating	65 A
Max. continuous operating input from PV/storage	84 A
Max. fault-current rating (output)	90 A
Branch circuits (cable and/or storage)	Up to four 3-pole Eaton BR series Distributed Generation (DG) breakers only (not included)
Max. total-branch-circuit breaker rating (input)	80 A of distributed generation / 85A with IQ Gateway breaker (not included)
Input breaker	15A or 20A rating IEC (European) breakers (not included)
Production metering CT	200 A 480 core pre-wired and wired to IQ Gateway
Consumption monitoring CT (CTD90-PLF)	A pair of 200 A 480 core current transformers

MECHANICAL DATA

Dimensions (height)	275.8 (10.85) x 176.0 (6.93) x 19.3" (0.76") Height in 21.0" (53.3) cm with mounting brackets
Weight	7.6 kg (16.8 lbs)
Ambient temperature range	+40°C to +49°C (+104°F to 118°F F)
Coating	Natural formation, plus heat shield
Enclosure environmental rating	Durable, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire sizes	<ul style="list-style-type: none"> 20 to 18 AWG breaker inputs, 14 to 8 AWG copper conductors 40 A breaker branch input: 4 to 1/0 AWG copper conductors Main bus combined output: 10 to 4/0 AWG copper conductors Neutral and ground: 14 to 1/0 copper conductors Always follow local code requirements for conductor sizing.
Altitude	To 2000 meters (6,560 feet)

INTERNET CONNECTION OPTIONS

Program wire	802.3 Ethernet
Cellular	CELLM00EM-M1-06-SP-05, CELLM00EM-M1-06-CT-05 (4G) based LTE-M cellular modem. Note that an Enphase Mobile Connect cellular modem is required for all Enphase installations.
Ethernet	Optional 802.3, GIGaset (or Cat 4) VPP Ethernet cable (not included)

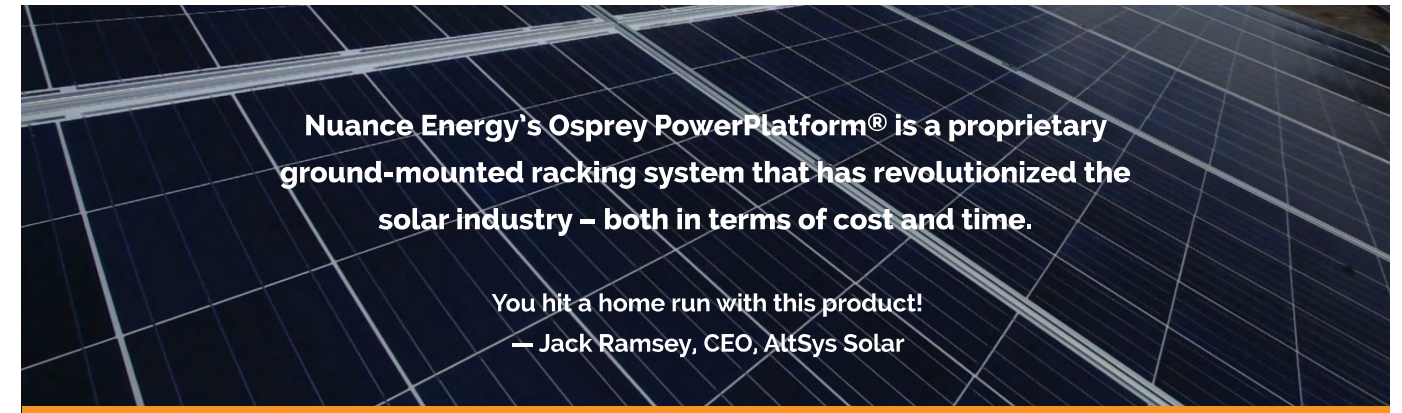
COMPLIANCE

Compliance, IQ Combiner	UL 716, CAN/CSA C22.2 No. 107.1, 47 CFR, Part 15, Class B, FCCS 003
Production metering, ANSI C12.20 accuracy class 0.3 (PV production)	Consumption metering accuracy class 2.5
Compliance, IQ Gateway	UL 6056-1, CAN/CSA 22.2 No. 610/504

To learn more about Enphase offerings, visit enphase.com

© 2022 Enphase Energy. All rights reserved. Enphase, the Enphase logo, IQ Combiner 4/4C, and other names are trademarks of Enphase Energy Inc. Links subject to change. (QC-17022)





Nuance Energy's Osprey PowerPlatform® is a proprietary ground-mounted racking system that has revolutionized the solar industry – both in terms of cost and time.

You hit a home run with this product!
— Jack Ramsey, CEO, AltSys Solar



KEY SPECIFICATIONS

- Each unit holds as many as 16 panels; average installation time: 59 minutes, 4-person crew
- Average labor cost: \$0.0125/watt installed
- Total power output per unit up to 6kW
- Panel technology neutral; UL2703 certified
- Wind loads <150 mph and snow loads <60+ psf, CPP fully tested
- Anchors hold in all permafrost conditions
- 25-year "bumper to bumper" warranty protection
- Fixed tilt orientation (15° to 35°)
- Independent power adjustable legs
- Engineered for sloped terrain (up to 12°)
- Custom engineering for sloped terrain (up to 23°)
- Galvanized (G90) steel finish (standard); other options available
- Self-bonding mid clamps
- Tamper-proof module fasteners (optional)
- Integrated wire management
- Ideal for mounting string inverters

Quick & Easy Installation = Lower Costs

Installation is blazing fast with six main steel components to assemble. Osprey PowerPlatform solar structures assemble on site using standard power hand tools. Eliminate the higher cost of skilled labor and on site heavy machinery.

- **No foundations, no concrete**
- **No cutting, welding or drilling**
- **Minimal site prep and clean up**

Sustainable Solution

A geotechnical report or 3rd party special inspection is usually not required. Real-time soil verification and load (pull) test is achieved through proprietary use of earth anchors during installation. Anchors act like underground toggle bolts to secure structure to ground. Up to 30 cubic feet of earth and sediment above each earth anchor support and ballast these versatile solar racking structures.

Structural Engineering

A site specific Structural Calculation and Engineering Report complete with vertical and lateral analysis (dead load, live load, wind load and seismic load, etc.) is provided.

MODEL	PANEL TYPE	DIMENSIONS ³	TILT	LEG ADJUSTMENT	SOLAR PANEL LAYOUT ⁴	WIND/MPH ^{**}
OSP - STD	(60, 72 Cell) & SPR ²	12ft x 26ft	15° - 35°	up to 26"	2x5 2x6 2x7 2x8'	< 150mph
OSP - HD ¹	(60, 72 Cell) & SPR ²	12ft x 26ft	15° - 35°	up to 26"	2x5 2x6 2x7 2x8'	< 150mph

¹ Available in HD: Heavy Duty Snow Load or XHD: Extra Heavy Duty Snow Load; ² SunPower Modules
³ Based on 2x8 footprint; smaller footprint available; ⁴ All Sizes Portrait Design; Landscape available

^{*}Standard
^{**}110mph Standard



INDUSTRY'S FASTEST INSTALLATION TIME + DRAMATIC COST REDUCTIONS

OSPREY POWERPLATFORM® 2MW INSTALLATION

16

DAYS TO INSTALL

*Fully trained, 16-person crew installing the foundation, racking and modules

\$130,000+

SAVINGS

*Savings due to lower field labor costs, no pile driving, and no geotechnical reports

VS

CONVENTIONAL FOUNDATION INSTALLATION 2MW INSTALLATION

60+

DAYS TO INSTALL

SAVE TIME AND MONEY



No Geotechnical Reports¹



No Heavy Equipment



No Ground Screws



No Concrete



No Skilled Labor²

¹ In atypical soil conditions, a geotechnical report may be advisable. ² May not be applicable under certain instances (i.e., union labor wages).

Enphase IQ Battery 10



The **Enphase IQ Battery 10** all-in-one AC-coupled storage system is **reliable, smart, simple, and safe**. It is comprised of three base IQ Battery 3 units, has a total usable energy capacity of 10.08 kWh and twelve embedded Grid-Forming Microinverters with 3.84 kW power rating. It provides backup capability and installers can quickly design the right system size to meet the needs of both new and retrofit solar customers.

Reliable

- Proven high reliability IQ Series Microinverters
- Ten-year limited warranty
- Three independent IQ Battery base units
- Twelve embedded IQ8-BAT Microinverters
- Passive cooling (no moving parts/fans)

Smart

- Grid-forming capability for backup operation
- Remote software and firmware upgrade
- Mobile app-based monitoring and control
- Support for self consumption
- Utility time of use (TOU) optimization

Simple

- Fully integrated AC battery system
- Quick and easy plug-and-play installation
- Interconnects with standard household AC wiring

Safe

- Cells safety tested
- Lithium iron phosphate (LFP) chemistry for maximum safety and longevity

Enphase IQ Battery 10

MODEL NUMBER	
ENCHARGE-IQ8-10-NA	IQ Battery 10 system with integrated Enphase IQ8 Microinverters and battery management unit (BMU) includes: <ul style="list-style-type: none"> • Three IQ Battery 3 3.84 kWh base units (IQ8-A01-US00-1-0) • One IQ Battery 10 cover kit with cover, wall mounting bracket, watertight conduit tube, and interconnect kit for wiring between batteries (IQ8-C-US00-0)
ACCESSORIES	
ENCHARGE4IN0LR1	One set of IQ Battery base unit installation hardware
GUTPUT (AC)	
Rated (continuous) output power	3.84 kW ¹
Peak output power	5.7 kVA (10 seconds)
Nominal voltage / range	240 / 231 – 264 VAC
Nominal frequency / range	60 / 57 – 61 Hz
Rated output current	16 A
Peak output current	24.6A (10 seconds)
Power factor (adjustable)	0.85 leading... 0.85 lagging
Maximum units per 20 A branch circuit	1 unit (single phase)
Interconnection	Single-phase
Maximum AC short circuit fault current over 3 cycles	69.6 Arms
Round trip efficiency ²	89%
BATTERY	
Total capacity	10.5 kWh
Usable capacity	10.08 kWh
Round trip efficiency	96%
Nominal DC voltage	67.2 V
Maximum DC voltage	73.5 V
Ambient operating temperature range	-10° C to 50° C (0° F to 133° F) non-condensing
Optimum operating temperature range	0° C to 38° C (32° F to 98° F)
Chemistry	Lithium iron phosphate (LFP)
MECHANICAL DATA	
Dimensions (WxHxD)	1070 mm x 664 mm x 319 mm (42.13 in x 26.14 in x 12.56 in)
Weight	Three individual 44.2 kg (97.4 lb) base units plus 21.1 kg (48.7 lb) cover and mounting brackets, total 154.7 kg (341.8 lb)
Enclosure	Outdoor – NEMA type 3R
IQ 8-BAT Microinverter enclosure	NEMA type 6
Cabling	Natural convection – No fans
Altitude	Up to 2500 meters (8200 feet)
Mounting	Wall mount
FEATURES AND COMPLIANCE	
Compatibility	Compatible with grid-tied PV systems. Compatible with Enphase M215/M250 and IQ Series Micro, Enphase IQ System Controller, and Enphase IQ Gateway for backup operation.
Communication	Wireless 2.4 GHz
Services	Backup, self-consumption, TOU, Demand Charge, NEM Integrity
Monitoring	Enphase Installer Platform and Enphase App monitoring options, API integration
Compliance	UL 9540; UL 9810; UL 9814; UL 9840; UL 1998; UL 1991; NEMA Type 3R; AC156 DMJ 47 CFR, Part 15, Class B; FCC5 003 Cell Module: UL 1973, UL 383 Inverters: UL 62109-1, IEC 62109-2, UL 1741SA, CAN/CSA C22.2 No. 1071-16, and IEEE 1547
LIMITED WARRANTY	
Limited Warranty ³	~70% capacity, up to 10 years or 4000 cycles
<ol style="list-style-type: none"> Supported in backhaul grid operations AC to Battery to AC at 5% power rating Whichever occurs first. Restrictions apply. 	

To learn more about Enphase offerings, visit enphase.com



To learn more about Enphase offerings, visit enphase.com

© 2021 Enphase Energy, All rights reserved. Enphase, the 'E' logo, IQ Battery, IQ, and other trademarks or service names are the trademarks of Enphase Energy Inc. Data subject to change. 19C780201



Enphase IQ System Controller 2

The **Enphase IQ System Controller 2** connects the home to grid power, the IQ Battery system, and solar PV. It provides microgrid interconnection device (MID) functionality by automatically detecting and seamlessly transitioning the home energy system from grid power to backup power in the event of a grid failure. It consolidates interconnection equipment into a single enclosure and streamlines grid independent capabilities of PV and storage installations by providing a consistent, pre-wired solution for residential applications.

Reliable

- Durable NEMA type 3R enclosure
- Ten-year limited warranty

Smart

- Controls safe connectivity to the grid
- Automatically detects grid outage
- Provides seamless transition to backup

Simple

- Connects to the load or service equipment¹ side of the main load panel
- Centered mounting brackets support single stud mounting
- Supports conduit entry from the bottom, bottom left side, and bottom right side
- Supports whole home and partial home backup and subpanel backup
- Up to 200A main breaker support
- Includes neutral forming transformer for split phase 120V/240V backup operation
- IQ System Controller supports backward compatibility with older generations of PV microinverters (M610, M210 and S series), making it simple for home owners to upgrade their systems
- Easy integration with generator from major manufacturers

1. IQ System Controller 2 is not suitable for use as an interconnection device.



To learn more about Enphase offerings, visit enphase.com



Enphase IQ System Controller 2

MODEL NUMBER

EP12012040000001

Enphase IQ System Controller 2 with neutral forming transformer (NFT), Microgrid Measurement Device (MID), Breaker, and Service Disconnect (SD) (pre-wired enclosure) (includes PV and Battery connections)

ACCESSORIES and REPLACEMENT PARTS

EP12012040000001

Mid-enclosure IQ System Controller System Disconnect

EP12012040000001

Enphase IQ circuit breaker (breaker series 60, breaker 10)

IC2400P4T

200 A light duty current transformer for Generator (model 10-2, 15V)

Circuit breaker (see model 1)

Not included, see order reference

BP61000020000

BP61000020000 Circuit breaker 2-pole, 100A, 250VAC, C300100

BP61200020000

BP61200020000 Circuit breaker 2-pole, 200A, 100VAC, B301000

BP61300020000

BP61300020000 Circuit breaker 2-pole, 300A, 100VAC, B320100

BP61400020000

BP61400020000 Circuit breaker 2-pole, 400A, 100VAC, B330100

BP61500020000

BP61500020000 Circuit breaker 2-pole, 500A, 100VAC, B350100

EP12012040000001

IQ System Controller 2 enclosure kit, including Breaker, backthrough breaker, service, meter, bus, plates, and QFI

EP12012040000001

2-pole, 200A, 100VAC, B3220100

ELECTRICAL SPECIFICATIONS

Assemble rating

Continuous operation at 100% of rating

Normal voltage range (1-pole)

240 VAC ± 10% to 270 VAC

SD (generator disconnect) voltage

0 to 270 VAC (0 to 29 VAC and 0 to 27 VAC)

Auxiliary contact for load control, access PV control, and generator breakers control

240, 1A

Normal frequency range

50 Hz | 60 Hz

Frequency measurement accuracy

±0.1 Hz

Maximum distributed load rating

100A

Maximum rapid disconnect protection device

30A

Maximum rapid disconnect protection device

30A

Maximum measured generator device rating for generator circuit²

30A

Maximum measured protection device rating for storage inverter circuit³

30A (30 storage breakers listed on the National Electrical Code⁴)

Maximum measured protection device rating for RDP-IV combiner branch circuit⁵

30A

Neutral forming transformer (NFT)

• Breaker rating (generator): 40A between L1 and L2; 40A between L2 and L3; and 40A between L3 and L1

• Maximum continuous ampere current: 20A @ 120V

• Peak rated power: 8000VA for 30 seconds

• Peak short-circuit current: 80A @ 120V for 30 seconds

MECHANICAL DATA

Dimensions (width)

300mm (11.81in ± 0.63mm) 118.7 (3.9) (3.9) (3.9)

Weight

21.4 kg (47.3lb)

Operating temperature range

-40°C (-40°F) to 60°C (140°F)

Busbar

Material: aluminum, 4-bar bus (4-bar)

Enclosure environmental rating

Outdoor NEMA type 3R, IP30, corrosion construction

Finish

To 200 series (2000) text

WIRE SIZES

Connections

• Main Bus and Backup Breaker Bus Coupled 1, 600V – 200 KW

• Coupled between inverter and bus Coupled 2, 600V – 200 KW

• 10 Breakers (one protected) 4, 60A

• 200 Ampere Bus, Emergency and generator bus Coupled 3, 600V – 200 KW

• Neutral (breakers) 4, 60A

Neutral and ground bus

Large (600V) (1-1/2" x 1/2")

14 AWG ± 0.002

Small (600V) (1-1/2" x 1/2")

14 AWG ± 0.002

COMPLIANCE

Compliance

UL 100, UL 147, UL 184, UL 199, IEC 60398, IEC 60398-2, IEC 60398-3, IEC 60398-4, IEC 60398-5, IEC 60398-6, IEC 60398-7, IEC 60398-8, IEC 60398-9, IEC 60398-10, IEC 60398-11, IEC 60398-12, IEC 60398-13, IEC 60398-14, IEC 60398-15, IEC 60398-16, IEC 60398-17, IEC 60398-18, IEC 60398-19, IEC 60398-20, IEC 60398-21, IEC 60398-22, IEC 60398-23, IEC 60398-24, IEC 60398-25, IEC 60398-26, IEC 60398-27, IEC 60398-28, IEC 60398-29, IEC 60398-30, IEC 60398-31, IEC 60398-32, IEC 60398-33, IEC 60398-34, IEC 60398-35, IEC 60398-36, IEC 60398-37, IEC 60398-38, IEC 60398-39, IEC 60398-40, IEC 60398-41, IEC 60398-42, IEC 60398-43, IEC 60398-44, IEC 60398-45, IEC 60398-46, IEC 60398-47, IEC 60398-48, IEC 60398-49, IEC 60398-50, IEC 60398-51, IEC 60398-52, IEC 60398-53, IEC 60398-54, IEC 60398-55, IEC 60398-56, IEC 60398-57, IEC 60398-58, IEC 60398-59, IEC 60398-60, IEC 60398-61, IEC 60398-62, IEC 60398-63, IEC 60398-64, IEC 60398-65, IEC 60398-66, IEC 60398-67, IEC 60398-68, IEC 60398-69, IEC 60398-70, IEC 60398-71, IEC 60398-72, IEC 60398-73, IEC 60398-74, IEC 60398-75, IEC 60398-76, IEC 60398-77, IEC 60398-78, IEC 60398-79, IEC 60398-80, IEC 60398-81, IEC 60398-82, IEC 60398-83, IEC 60398-84, IEC 60398-85, IEC 60398-86, IEC 60398-87, IEC 60398-88, IEC 60398-89, IEC 60398-90, IEC 60398-91, IEC 60398-92, IEC 60398-93, IEC 60398-94, IEC 60398-95, IEC 60398-96, IEC 60398-97, IEC 60398-98, IEC 60398-99, IEC 60398-100

2. Compliance with 800-415-113 (allowance) is to comply with 2017 NEC 710 for bus and circuit breakers.

3. The IQ System Controller 2 is rated 200A.

4. See the National Electrical Code for generator disconnect breaker per circuit breaker 40-60A.

5. See the National Electrical Code for generator disconnect breaker per circuit breaker 40-60A.

6. Excludes from these standards when used during the safety inspection and listed in the UL 1000 listing.

To learn more about Enphase offerings, visit enphase.com

© 2021 Enphase Energy. All rights reserved. Enphase, the Enphase logo, IQ System Controller 2, and other names are the trademarks of Enphase Energy Inc. Data subject to change. 10000021





Community Planning & Permitting

Courthouse Annex • 2045 13th Street • Boulder, Colorado 80302 • Tel: 303.441.3930

Mailing Address: P.O. Box 471 • Boulder, Colorado 80306 • www.bouldercounty.org

November 15, 2022

TO: Jonathan Tardif, Planner I; Community Planning & Permitting, Development Review Team - Zoning

FROM: Jena Van Gerwen, Planner I; Community Planning & Permitting, Development Review Team – Access & Engineering

SUBJECT: Docket # SPRW-22-0053: Stone Ground Mount Solar
8829 Marathon Road

The Development Review Team – Access & Engineering staff has reviewed the above referenced docket and has the following comments:

1. The subject property is accessed via Marathon Road, a paved Boulder County owned and maintained right-of-way (ROW) with a Functional Classification of Local. Legal access has been demonstrated via adjacency to this public ROW.
2. Based on aerial imagery, the existing driveway appears to measure approximately 12-14 feet in width, which complies with the [Boulder County Multimodal Transportation Standards \(the “Standards”\)](#) for residential development in the plains. Per the standards, a parcel may only have one access unless approved by the County Engineer. However, the second access is consistent with other properties in the subdivision and Marathon Road is a low-volume/low-speed road; therefore, the second access is allowed.
3. During construction, all materials, machinery, dumpsters, and other items must be staged on the subject property; no items shall be stored or staged on Marathon Road. All worker vehicles must be parked on site or to one side of Marathon Road so as to not impede the travel way.

This concludes our comments at this time.



Community Planning & Permitting

Courthouse Annex • 2045 13th Street • Boulder, Colorado 80302 • Tel: 303.441.3930 • Fax: 303.441.4856
Mailing Address: P.O. Box 471 • Boulder, Colorado 80306 • www.bouldercounty.org

Building Safety & Inspection Services Team

MEMO

TO: Jonathan Tardif, Planner I
FROM: Michelle Huebner, Plans Examiner Supervisor
DATE: November 7, 2022

RE: Referral Response Referral packet for Solar Site Plan Review Waiver SPRW-22-0053: Stone Ground Mount Solar. Site Plan Review Waiver for construction of a ground-mounted solar array on a 1.03-acre parcel.

Location: 8829 MARATHON ROAD

Thank you for the referral. We have the following comments for the applicants:

- 1. Building Permit.** A building permit and plan review and inspections approvals are required for the construction of the solar array and the associated electrical equipment.

Boulder County's adopted codes are based upon the 2020 editions of the International Codes, along with other amendments, and the latest National Electrical Code ("NEC") as adopted by the State Electrical Board (currently the 2020 edition). Our adopted building codes and code amendments can be found via the internet at:

Please refer to the county's [adopted 2015 editions of the International Codes and code amendments](#), which can be found via the internet under the link:

2015 Building Code Adoption & Amendments, at the following URL:

<https://assets.bouldercounty.org/wp-content/uploads/2017/03/building-code-2015.pdf>

- 2. Design Wind and Snow Loads.** The design wind and ground snow loads for the property are 145 mph (Vult) and 40 psf, respectively.
- 3. Plan Review.** The items listed above are a general summary of some of the county's building code requirements. A much more detailed plan review will be performed at the time of building permit application, when full details are available for review, to assure that all applicable minimum building codes requirements are to be met. Our [Solar Photovoltaic Systems Checklist](#) and other Building Safety publications can be found at: <https://www.bouldercounty.org/property-and-land/land-use/building/building-publications/>

Please also refer to our Solar Photovoltaic Systems Checklist, which is available at:
<https://assets.bouldercounty.org/wp-content/uploads/2017/03/b46-solar-photovoltaic-systems-checklist.pdf>

If the applicants should have questions or need additional information, we'd be happy to work with them toward solutions that meet minimum building code requirements. Please call (720) 564-2640 or contact us via e-mail at building@bouldercounty.org

Tardif, Jonathan

From: LuAnn Penfold <lpenfold@mvfpd.org>
Sent: Tuesday, November 8, 2022 8:42 AM
To: LU Land Use Planner
Subject: [EXTERNAL] SPRW-22-0053

We have no objection to the installation of a ground mounted solar or waiver from site plan review at 8829 Marathon Road.

Thank you for including us in the planning process.

LuAnn Penfold, Fire Prevention Specialist

Mountain View Fire Rescue

3561 N. Stagecoach Road, Longmont, CO 80504

720-678-9890 | lpenfold@mvfpd.org | www.mvfpd.org





Parks & Open Space

5201 St. Vrain Road • Longmont, CO 80503
303-678-6200 • POSinfo@bouldercounty.org
www.BoulderCountyOpenSpace.org

TO: Jonathan Tardif, Community Planning & Permitting Department
FROM: Ron West, Natural Resource Planner
DATE: November 17, 2022
SUBJECT: Docket SPRW-22-0053, Stone, 8829 Marathon Road

Staff has reviewed the submitted materials. No significant natural resource impacts are expected from the proposed solar array.

Tardif, Jonathan

From: noreply_accela@bouldercounty.org
Sent: Wednesday, November 16, 2022 8:56 AM
To: Tardif, Jonathan
Subject: SPRW-22-0053 - Public Health Water Quality - Environmental Review

The Public Health Water Quality - Environmental Review workflow task for SPRW-22-0053 has been updated to **No Comments/No Conflict** and the following comments entered:

null

Please see the Accela record for more information.

email sent by EMSE: PLN_Referrals_Entered



Right of Way & Permits

1123 West 3rd Avenue
Denver, Colorado 80223
Telephone: **303.571.3306**
Facsimile: 303. 571. 3284
donna.l.george@xcelenergy.com

November 12, 2022

Boulder County Community Planning and Permitting
PO Box 471
Boulder, CO 80306

Attn: Jonathan Tardif

Re: Stone Ground Mount Solar, Case # SPRW-22-0053

Public Service Company of Colorado's (PSCo) Right of Way & Permits Referral Desk has reviewed the site plan for **Stone Ground Mount Solar**. Please be aware PSCo owns and operates existing overhead electric distribution facilities along the west and northwest property lines. For any new natural gas or electric service or modification to existing facilities, the property owner/developer/contractor must complete the application process via xcelenergy.com/InstallAndConnect.

If additional easements need to be acquired by separate PSCo document (i.e. transformer), a Right-of-Way Agent will need to be contacted.

As a safety precaution, PSCo would like to remind the developer to contact Colorado 811 for utility locates prior to construction.

Donna George
Right of Way and Permits
Public Service Company of Colorado dba Xcel Energy
Office: 303-571-3306 – Email: donna.l.george@xcelenergy.com

To: Jonathan Tardif, Planner 1

From: Linda Dziadyk

Subject: Request fo waive site plan review at 8829 Marathon Rd.,
unincorporated, Co. 80503

Docket: SPRW-22-0053 Stone Ground Mount Solar

Date: 11/07/2022

Dear Jonathan,

In response to the concerns or comments I have regarding
the installation of solar panels at 8829 Marathon Rd., I have
discussed them with the property owner Christopher Stone.

Here is a summary of my concerns. Many homes in the
neighborhood have solar but it is on the roof not in the yard.

My deck, family room, dining room and kitchen large windows will
face the approximately 9 ft high x 20+ ft array of solar panels. My
property faces north west so I have a mountain view that is very
important to me. I was assured by Christopher Stone and the
contractor No Problem Electric Corp. that the panels would not
face my house or reflect glare. I am putting my trust in their
assessment of the impact on my property and views. We shall see.
Apparently it doesn't matter what my concerns are because the ditch

and wiring have been completed.

My comments and concerns are on file with the county.

Regards,

Linda Dziadyk
8847 Marathon Rd.
Longmont, Co. 80503