



ADD26427

APPROVED  
Plan Review

07/23/2026 2:42:42 PM

dsdyounger

EPC Planning & Community  
Development Department



This parcel is in a low/moderate/high intensity fire risk area. Please reach out to the local fire district regarding recommendations for compliance with the WRC code.



It is the owner's responsibility to coordinate with easement holders to avoid impact to utilities that may be located in the easements.



ANY APPROVAL GIVEN BY EL PASO COUNTY DOES NOT OBVIATE THE NEED TO COMPLY WITH APPLICABLE FEDERAL, STATE, OR LOCAL LAWS AND/OR REGULATION.

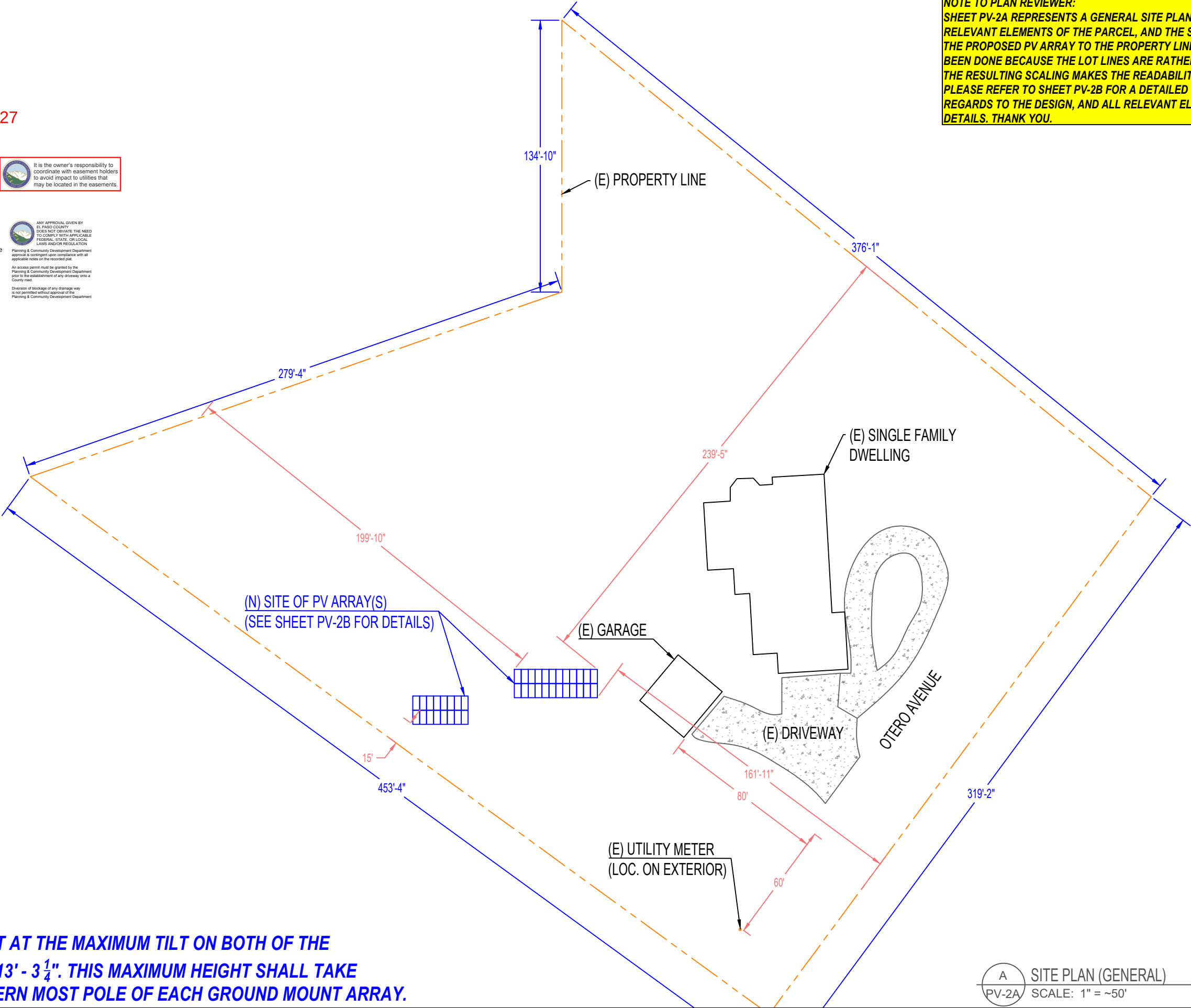
Planning & Community Development Department approval is contingent upon compliance with all applicable notes on the recorded plat.

An address permit must be granted by the Planning & Community Development Department prior to the relocation of any driveway onto a County road.

Division of blockage of any drainage way is not permitted without approval of the Planning & Community Development Department.

NOTE TO PLAN REVIEWER:

SHEET PV-2A REPRESENTS A GENERAL SITE PLAN DEPICTING THE RELEVANT ELEMENTS OF THE PARCEL, AND THE SETBACKS FROM THE PROPOSED PV ARRAY TO THE PROPERTY LINES. THIS HAS BEEN DONE BECAUSE THE LOT LINES ARE RATHER LARGE, AND THE RESULTING SCALING MAKES THE READABILITY DIFFICULT. PLEASE REFER TO SHEET PV-2B FOR A DETAILED SITE PLAN WITH REGARDS TO THE DESIGN, AND ALL RELEVANT ELECTRICAL DETAILS. THANK YOU.



THE MAXIMUM HEIGHT AT THE MAXIMUM TILT ON BOTH OF THE ARRAYS WILL BE AT 13' - 3 1/4". THIS MAXIMUM HEIGHT SHALL TAKE PLACE AT THE WESTERN MOST POLE OF EACH GROUND MOUNT ARRAY.



SITE PLAN (GENERAL)  
SCALE: 1" = ~50'

OWNER-BUILDER

NAME: PAUL MUNCH

PHONE: (303) 819-7797

CONFIDENTIAL: THE INFORMATION CONTAINED IN THIS DRAWING SET IS CONFIDENTIAL AND SHALL NOT BE DISCLOSED IN FULL OR IN PART TO ANYONE EXCEPT THOSE INVOLVED IN THE DESIGN AND INSTALLATION OF THE PV SYSTEM REPRESENTED IN THIS PLAN.

18.00kW GRID-TIED SOLAR SYSTEM  
WITH DC-COUPLED BATTERY STORAGE  
(WHOLE-HOME BACKUP APPLICATION)

MUNCH RESIDENCE  
10020 OTERO AVENUE  
COLORADO SPRINGS, CO 80920

SITE PLAN

PROJECT NO: GSD-20250808-SCM

DRAWN BY: SCM

DATE: 3/13/2026

PV-2A

| DIRECTORY OF PLAN PAGES |                                                               |
|-------------------------|---------------------------------------------------------------|
| PV1                     | PROJECT INFORMATION                                           |
| PV-2A                   | SITE PLAN (GENERAL)                                           |
| PV-2B                   | SITE PLAN (DETAILED)                                          |
| PV-3A                   | SINGLE-LINE DIAGRAM                                           |
| PV-3B                   |                                                               |
| PV-3C                   |                                                               |
| PV4                     | PLACARDS                                                      |
| PV-5A                   | SKY-RACK 2.0 GROUND MOUNT ADJUSTABLE SYSTEM DATASHEET         |
| PV-5B                   | SKY-RACK 2.0 MOUNTING & CONNECTION DETAILS                    |
| PV-5C                   |                                                               |
| PV-5D                   |                                                               |
| PV-5E                   | SKY-RACK 2.0 RACKING DETAILS (STATE OF COLORADO PE STAMP)     |
| PV-5F                   |                                                               |
| PV6                     |                                                               |
| PV6                     | PV MODULE DATASHEET                                           |
| PV-7A                   | EG4 FLEXBOSS21 HYBRID INVERTER DATASHEET                      |
| PV-7B                   | EG4 FLEXBOSS21 HYBRID INVERTER (UL CERTIFICATION)             |
| PV8                     | EG4 GRID BOSS DATASHEET                                       |
| PV-9A                   | EG4 WALLMOUNT INDOOR 280AH LITHIUM BATTERY DATASHEET          |
| PV-9B                   | EG4 WALLMOUNT INDOOR 280AH LITHIUM BATTERY (UL CERTIFICATION) |
| PV-10A                  | TIGO TS4-A-O DATASHEET (MODULE LEVEL RAPID SHUTDOWN)          |
| PV-10B                  | TIGO CCA DATASHEET (CLOUD CONNECT ADVANCED)                   |
| PV-10C                  | TIGO ACCESS POINT DATASHEET (TAP)                             |
| PV11                    | UTILITY AC DISCONNECT DATASHEET                               |
| PV12                    | UTILITY AC DISCONNECT NEUTRAL KIT DATASHEET                   |

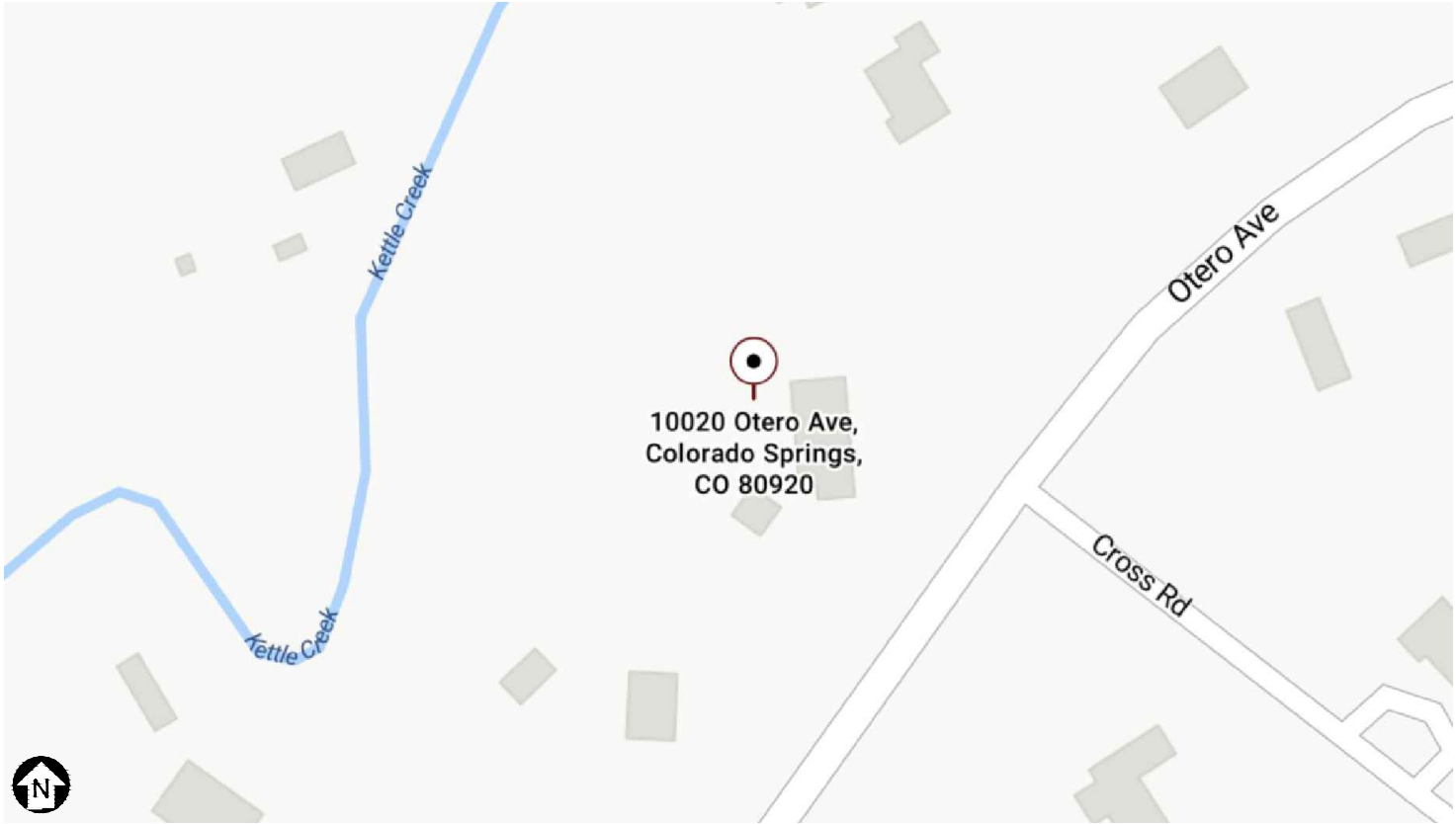
| PROJECT DETAILS  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROPERTY OWNER   | PAUL MUNCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OWNER PHONE      | (303) 819-7797                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| OWNER EMAIL      | PAUL@MUNCHES.NET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| PROPERTY ADDRESS | 10020 OTERO AVENUE<br>COLORADO SPRINGS, CO 80920                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| PARCEL ID        | 6229007005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| AHJ              | PIKES PEAK REGIONAL BUILDING DEPARTMENT (PPRBD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ZONING           | RESIDENTIAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| CONST. TYPE      | GROUND-MOUNTED PHOTOVOLTAIC ARRAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| UTILITY COMPANY  | MOUNTAIN VIEW ELECTRIC ASSOCIATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| OBSERVED CODES   | PIKES PEAK REGIONAL BUILDING CODE, 2023 EDITION, WHICH IS BASED ON THE 2021 INTERNATIONAL CODES AS SEEN BELOW;<br><br>2021 INTERNATIONAL RESIDENTIAL CODE (IRC)<br>2021 INTERNATIONAL SWIMMING POOL AND SPA CODE (ISPS)<br>2021 INTERNATIONAL ENERGY CONSERVATION CODE<br>2020 NATIONAL ELECTRICAL CODE (NEC)<br>2021 INTERNATIONAL BUILDING CODE (IBC), INCLUDING APPENDIX J<br>2021 INTERNATIONAL PLUMBING CODE (IPC)<br>2021 INTERNATIONAL MECHANICAL CODE (IMC)<br>2021 INTERNATIONAL FUEL GAS CODE (IFGC)<br>2021 INTERNATIONAL ENERGY CONSERVATION CODE<br>2021 INTERNATIONAL EXISTING BUILDING CODE<br><br>OSHA 29 CFR 1910.269<br>UNDERWRITERS LABORATORIES (UL) STANDARDS |
| STRUCT. METHOD   | ASCE7-16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| OWNER-BUILDER INFORMATION |                                                  |
|---------------------------|--------------------------------------------------|
| OWNER-BUILDER             | PAUL MUNCH                                       |
| ADDRESS                   | 10020 OTERO AVENUE<br>COLORADO SPRINGS, CO 80920 |
| OWNER PHONE               | (303) 819-7797                                   |
| OWNER EMAIL               | PAUL@MUNCHES.NET                                 |
| OWNER-BUILDER SIGNATURE   |                                                  |

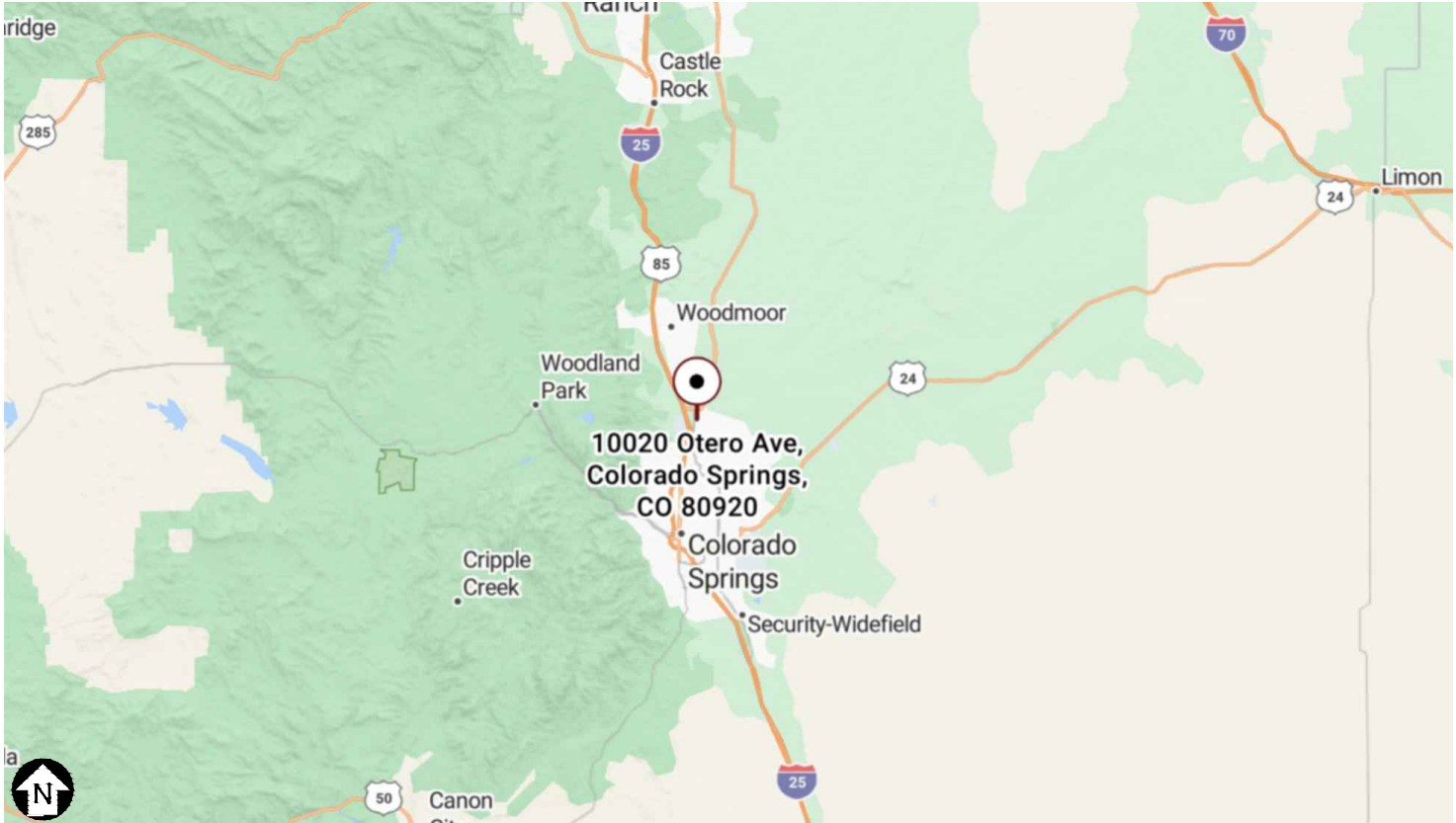
| PLAN DESIGNER INFORMATION |                                                 |
|---------------------------|-------------------------------------------------|
| COMPANY                   | GEMINI SOLAR DESIGN, LLC.                       |
| NAME                      | SANJAY CHRISTOPHER MALLIPUDI                    |
| ADDRESS                   | 495 HOWARD HEIGHTS ROAD<br>FRESHWATER, CA 95503 |
| PHONE                     | (609) 802-5743                                  |
| PLAN DESIGNER SIGNATURE   | Sanjay Mallipudi                                |

| SYSTEM DETAILS                              |                                                                              |
|---------------------------------------------|------------------------------------------------------------------------------|
| DC RATING OF SYSTEM                         | 18,000W                                                                      |
| TOTAL COMBINED CONTINUOUS AC OUTPUT CURRENT | 133.34A @ 240VAC                                                             |
| HYBRID INVERTER                             | (2) EG4 FLEXBOSS 21 (IV-16000-HYB-AW-FX-00)                                  |
| SOLAR MODULE                                | (40) BOVIET SOLAR BVM6612M-450S-H-HC-BF-D-G                                  |
| MODULE LEVEL RAPID SHUTDOWN                 | (40) TIGO TS4-A-O                                                            |
| BATTERY MODULE                              | (4) EG4 WALLMOUNT INDOOR 280AH LITHIUM BATTERY                               |
| PROJECT TYPE                                | GRID-TIED WITH DC-COUPLED BATTERY STORAGE<br>(WHOLE-HOME BACKUP APPLICATION) |

| SITE SPECIFICATIONS                                       |                                             |
|-----------------------------------------------------------|---------------------------------------------|
| MAIN SERVICE PANEL                                        | 200A RATED BUSBAR<br>200A / 2P MAIN BREAKER |
| ASHRAE EXTREME ANNUAL MEAN MINIMUM DENSITY DRY BULB TEMP. | -35°C                                       |
| ASHRAE 2% ANNUAL DRY DENSITY BULB TEMP.                   | 32°C                                        |
| DESIGN WIND SPEED                                         | 130 MPH (AS PER TABLE R301.2)               |
| DESIGN GROUND SNOW LOAD                                   | 43 PSF (AS PER TABLE R301.2)                |
| WIND EXPOSURE CATEGORY                                    | C (AS PER TABLE R301.2)                     |
| SEISMIC DESIGN CATEGORY                                   | B (AS PER TABLE R301.2)                     |
| RISK CATEGORY                                             | II (AS PER TABLE R301.2)                    |



1 PLOT  
PV-1 SCALE: NTS



2 LOCALE  
PV-1 SCALE: NTS

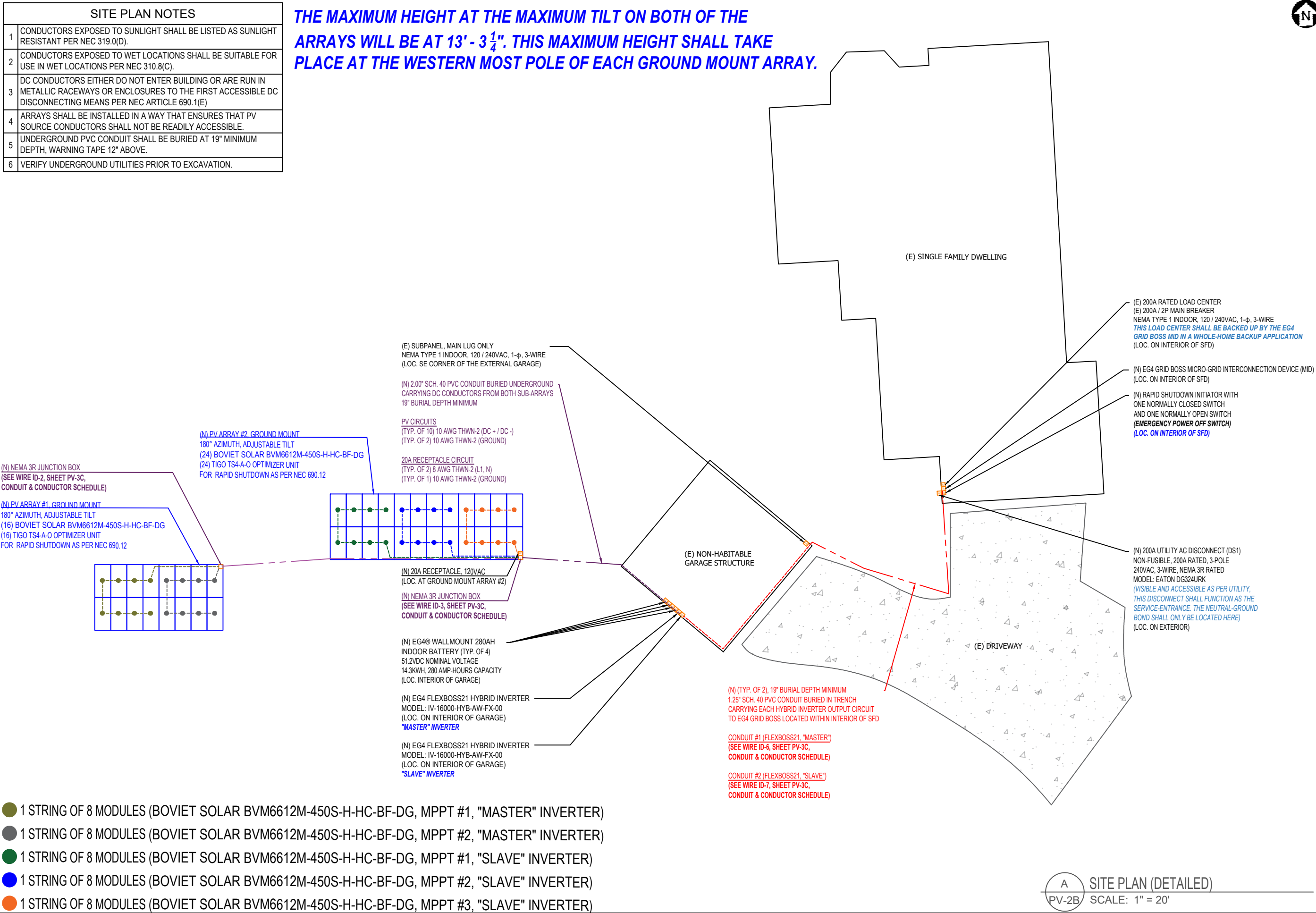
| CONSTRUCTION NOTES |                                                                                                                                    |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1                  | CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO INITIATING CONSTRUCTION.                                                     |
| 2                  | CONTRACTOR SHALL REVIEW ALL MANUFACTURER INSTALLATION DOCUMENTS PRIOR TO INITIATING CONSTRUCTION.                                  |
| 3                  | ALL EQUIPMENT SHALL BE LISTED BY THE U.L. (OR EQUAL) AND LISTED FOR ITS SPECIFIC APPLICATION.                                      |
| 4                  | ALL EQUIPMENT SHALL BE RATED FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.                                                         |
| 5                  | ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.                                  |
| 6                  | ACCESS TO ELECTRICAL COMPONENTS OVER 150 VOLTS TO GROUND SHALL BE RESTRICTED TO QUALIFIED PERSONNEL.                               |
| 7                  | ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 VOLTS AND 90°C WET ENVIRONMENT, UNLESS OTHERWISE NOTED.                              |
| 8                  | WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, CONTRACTOR SHALL SIZE THEM ACCORDING TO APPLICABLE CODES. |
| 9                  | PV MODULES FRAMES SHALL BE BONDED TO RACKING RAIL OR BARE COPPER G.E.C. PER THE MODULE MANUFACTURER'S LISTED INSTRUCTION SHEET.    |
| 10                 | PV MODULES RACKING RAIL SHALL BE BONDED TO BARE COPPER G.E.C VIA WEEB LUG, ILSCO GBL-4DBT LAY-IN LUG, OR EQUIVALENT LISTED LUG.    |
| 11                 | GROUNDING ELECTRODE CONDUCTOR (G.E.C) SHALL BE CONTINUOUS AND/OR IRREVERSIBLY SPLICED                                              |
| 12                 | ALL JUNCTION BOXES, COMBINER BOXES, AND DISCONNECTS SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION.                                  |
| 13                 | WORKING SPACE AROUND ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC SECTION 110.26.                                                    |

| PROJECT DESCRIPTION                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| THE PROPOSED SYSTEM IS A GROUND MOUNTED PHOTOVOLTAIC ARRAY. THE PHOTOVOLTAIC (PV) SYSTEM IS TO BE INSTALLED ON THE RESIDENTIAL ZONED PROPERTY IN THE CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, COLORADO. THE ENERGY PRODUCED BY THE PV SYSTEM SHALL BE INTERCONNECTED WITH THE UTILITY GRID THROUGH THE EXISTING ON-SITE ELECTRICAL EQUIPMENT. |
| THE PROJECT WILL INCLUDE DC-COUPLED STORAGE BATTERIES EMPLOYED IN A WHOLE-HOME BACKUP CONFIGURATION.                                                                                                                                                                                                                                              |

| OWNER-BUILDER                                                                                                                                                                                                                       |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| NAME: PAUL MUNCH                                                                                                                                                                                                                    |                                                                     |
| PHONE: (303) 819-7797                                                                                                                                                                                                               |                                                                     |
| CONFIDENTIAL: THE INFORMATION CONTAINED IN THIS DRAWING SET IS CONFIDENTIAL AND SHALL NOT BE DISCLOSED IN FULL OR IN PART TO ANYONE EXCEPT THOSE INVOLVED IN THE DESIGN AND INSTALLATION OF THE PV SYSTEM REPRESENTED IN THIS PLAN. |                                                                     |
| 18.00kW GRID-TIED SOLAR SYSTEM<br>WITH DC-COUPLED BATTERY STORAGE<br>(WHOLE-HOME BACKUP APPLICATION)                                                                                                                                | MUNCH RESIDENCE<br>10020 OTERO AVENUE<br>COLORADO SPRINGS, CO 80920 |
| PROJECT INFO                                                                                                                                                                                                                        |                                                                     |
| PROJECT NO: GSD-20250808-SCM                                                                                                                                                                                                        |                                                                     |
| DRAWN BY: SCM                                                                                                                                                                                                                       |                                                                     |
| DATE: 3/13/2026                                                                                                                                                                                                                     |                                                                     |
| PV-1                                                                                                                                                                                                                                |                                                                     |

| SITE PLAN NOTES |                                                                                                                                                                  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1               | CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC 319.0(D).                                                                           |
| 2               | CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC 310.8(C).                                                                 |
| 3               | DC CONDUCTORS EITHER DO NOT ENTER BUILDING OR ARE RUN IN METALLIC RACEWAYS OR ENCLOSURES TO THE FIRST ACCESSIBLE DC DISCONNECTING MEANS PER NEC ARTICLE 690.1(E) |
| 4               | ARRAYS SHALL BE INSTALLED IN A WAY THAT ENSURES THAT PV SOURCE CONDUCTORS SHALL NOT BE READILY ACCESSIBLE.                                                       |
| 5               | UNDERGROUND PVC CONDUIT SHALL BE BURIED AT 19" MINIMUM DEPTH, WARNING TAPE 12" ABOVE.                                                                            |
| 6               | VERIFY UNDERGROUND UTILITIES PRIOR TO EXCAVATION.                                                                                                                |

THE MAXIMUM HEIGHT AT THE MAXIMUM TILT ON BOTH OF THE ARRAYS WILL BE AT 13' - 3 1/4". THIS MAXIMUM HEIGHT SHALL TAKE PLACE AT THE WESTERN MOST POLE OF EACH GROUND MOUNT ARRAY.



|                                                                                                                                                                                                                                     |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| OWNER-BUILDER                                                                                                                                                                                                                       |                                                                     |
| NAME: PAUL MUNCH                                                                                                                                                                                                                    |                                                                     |
| PHONE: (303) 819-7797                                                                                                                                                                                                               |                                                                     |
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| 18.00kW GRID-TIED SOLAR SYSTEM WITH DC-COUPLED BATTERY STORAGE (WHOLE-HOME BACKUP APPLICATION)                                                                                                                                      | MUNCH RESIDENCE<br>10020 OTERO AVENUE<br>COLORADO SPRINGS, CO 80920 |
|                                                                                                                                                                                                                                     |                                                                     |
| SITE PLAN                                                                                                                                                                                                                           |                                                                     |
| PROJECT NO: GSD-20250808-SCM                                                                                                                                                                                                        |                                                                     |
| DRAWN BY: SCM                                                                                                                                                                                                                       |                                                                     |
| DATE: 3/13/2026                                                                                                                                                                                                                     |                                                                     |
| PV-2B                                                                                                                                                                                                                               |                                                                     |



SITE PLAN (DETAILED)  
SCALE: 1" = 20'



# RESIDENTIAL



2023 PPRBC  
IECC: N/A

Address: 10020 OTERO AVE, COLORADO SPRINGS

Parcel: 6229007005

Plan Track #: 208849  Received: 26-Dec-2025 (MELISSAF)

## Description:

**PV SOLAR W/ESS GROUND MOUNT OVER  
7FT**

Contractor: HOMEOWNER

Type of Unit:

## Required PPRBD Departments (4)

### Floodplain

N/A  
12/26/2025 2:38:11 PM  
  
Becky A  
FLOODPLAIN

### Construction

### Electrical

Released for Permit  
01/12/2026 8:55:26 AM  
  
Connerm  
ELECTRICAL

### Mechanical

## Required Outside Departments (3)

### County Zoning

APPROVED  
Plan Review  
07/23/2026 2:44:07 PM  
dsdyounger  
EPC Planning & Community  
Development Department

### Donald Wescott Fire (CSFD)

N/A  
01/13/2026 9:09:03 AM  
  
Phil Valdez  
Colorado Springs Fire Department

Release of this plan does not preclude compliance with all  
applicable codes, ordinances and other pertinent regulations.  
This plan set must be present on the job site for every inspection.

## Required Outside Departments -- CONT

**Donald Wescott Hazmat (CSFD)**

N/A

01/13/2026 9:09:11 AM

Phil Valdez

Colorado Springs Hazmat