

## Anejo C

# PLANOS CONCEPTUALES

Solicitud de Propuesta

CHM-RFP-2026-001

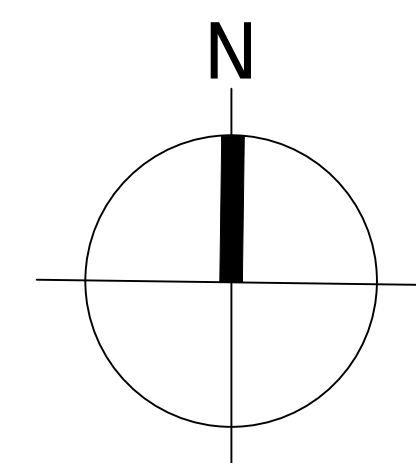
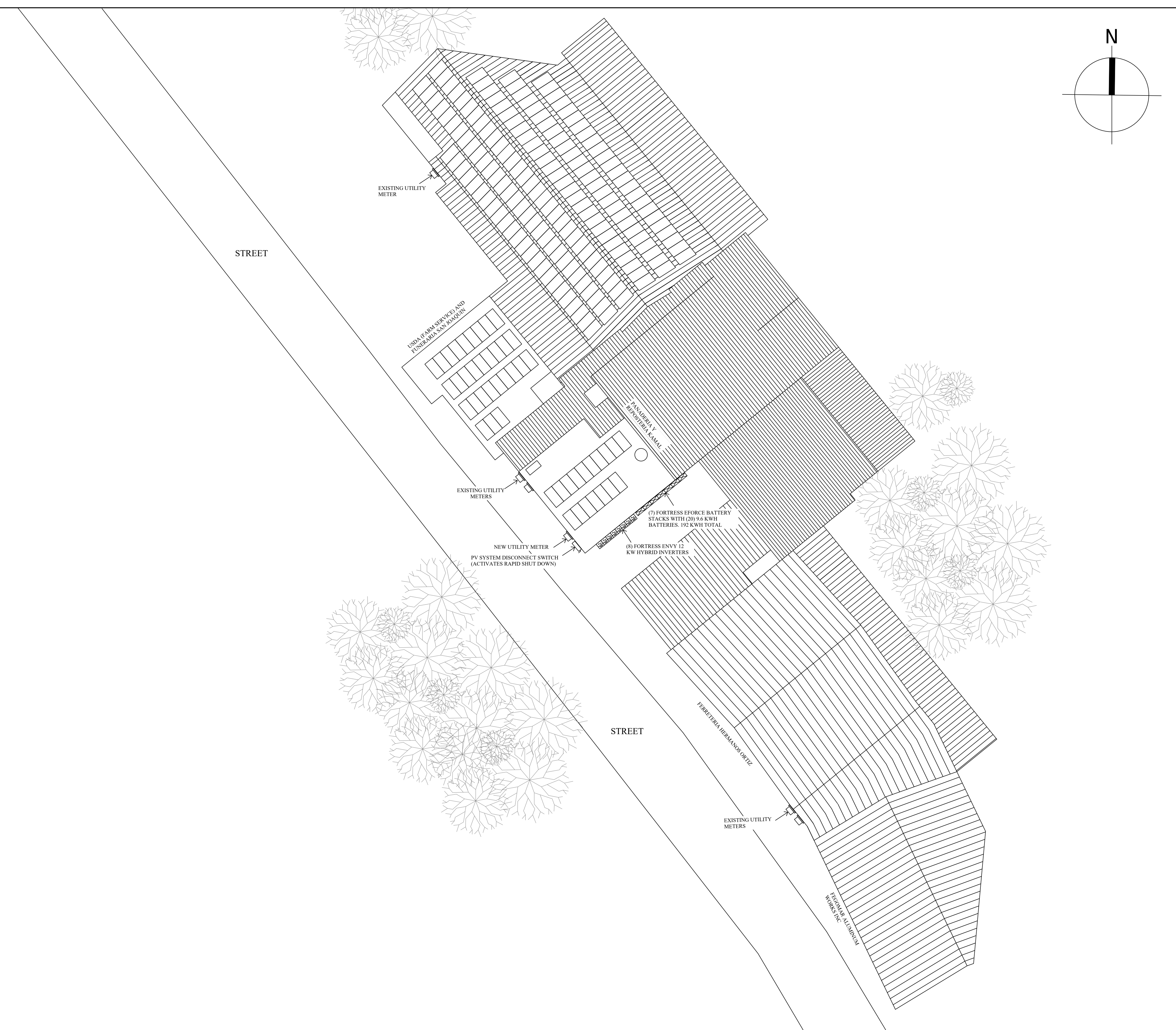
para

Servicios de Instalación y Puesta en Marcha

para

Centros Comunitarios de Resiliencia Energética (CERH)

Cooperativa Hidroeléctrica de la Montaña



**LOCATION PLAN**  
**7B BDA RODRIGUEZ ADJUNTAS PR**  
**00601**

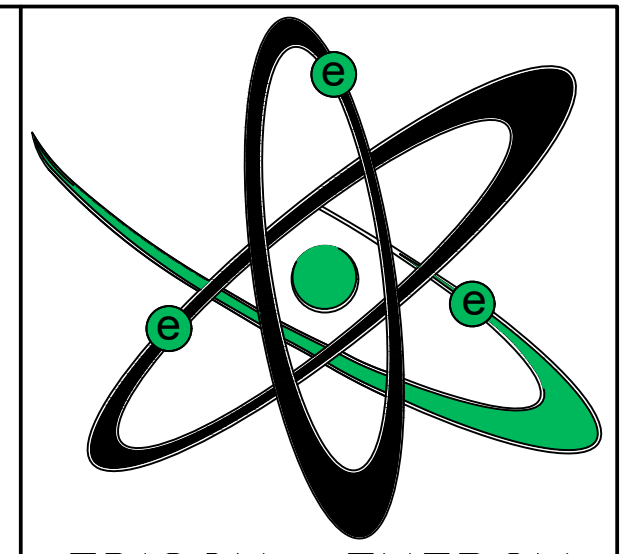
**NAD83 ZONE 19 COORDINATES**  
**X: 741246.89**  
**Y: 2009462.66**

**PV & BESS SYSTEM INFORMATION**

TOTAL STC DC SYSTEM SIZE	124.49KW DC
TOTAL AC RATING	96.00 KW AC
TOTAL BATTERY CAPACITY	192.00 KWH
INTERCONNECTION TYPE	LOAD SIDE GRID TIE
INTERCONNECTION VOLTAGE	120/240
PV MODULE SUPPORT SYSTEM	UNIRAC SOLAR MOUNT
INVERTER MODEL	FORTRESS ENVY 12KW
INVERTER CAPACITY	12 KW
INVERTER QUANTITY	8
INVERTER CEC EFFICIENCY	96.5%
PV MODULE	SEG SOLAR SEG-590-BTA-BG
MODULE STC DC RATING	590W
PV MODULE QTY.	211
SHORT CIRCUIT CURRENT (ISC)	13.94 A
CURRENT AT P <sub>MAX</sub> (IMPP)	13.28A
OPEN CIRCUIT VOLTAGE (VOC)	52.37V
VOLTAGE AT P <sub>MAX</sub> (VMPP)	44.43V
BATTERY MODEL	FORTRESS EFORCE
BATTERY MODULE CAPACITY	9.6 KWH
BATTERY MODULE QTY.	20
BATTERY STACK QTY.	7

**EQUIPMENT LEGEND:**

	NEW SOLAR MODULE MODEL: SEG SOLAR SEG-590-BTA-BG (211 TOTAL MODULES)
	NEW HYBRID INVERTER MODEL: FORTRESS ENVY 12KW (8 TOTAL OF INVERTERS)
	UTILITY METER
	TRANSFER SWITCH
	PV SYSTEM DISCONNECT SWITCH (ACTIVATES RAPID SHUTDOWN)
	INVERTER COMBINER PANEL
	FORTRESS EFORCE BATTERY STACK
	PROPANE GENERATOR



**EDISON ENERGY ENGINEERING**  
 Ave. Esmeralda #53  
 PMB #25 Guaynabo, P.R. 00696  
 Tel: 767-903-7321

**PROJECT**

**PROJECT NAME**  
**CERH**  
**MICRORRED ADJUNTAS**  
**PUEBLO 2**

PROPERTY OF:  
**COOPERATIVA**  
**HIDROELECTRICA DE LA**  
**MONTAÑA**

**IMPORTANT NOTES**

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY DISCREPANCIES, ERRORS AND/OR OMISSIONS.
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- CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCED TO HIM PRIOR TO THE START OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD BEAR A STAMP WITH THE LABEL "FOR CONSTRUCTION ONLY" SIGNED BY THE PROFESSIONAL ENGINEER.

**REVISIONS**

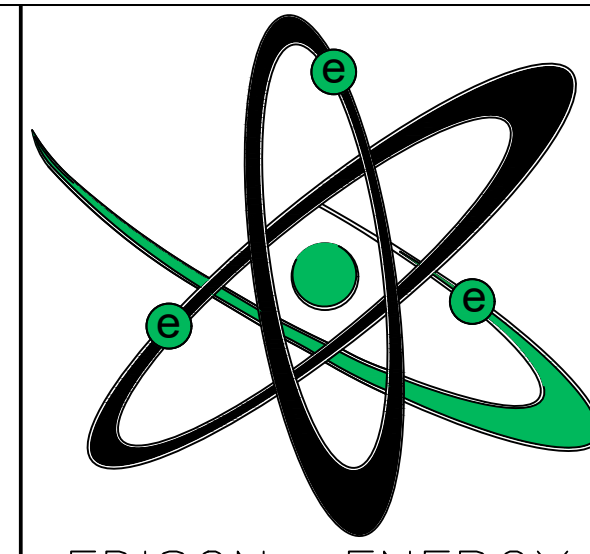
NO.	DATE	REVISION

**SHEET TITLE**

**GENERAL SITEPLAN**

DRAWING BY:  
**WILFREDO PEREZ**  
 DATE: **ABRIL 21, 2026**  
 PROJECT NO.  
 SHEET NO.

**GENERAL SITEPLAN**  
 N.T.S.



**EDISON ENERGY ENGINEERING**  
 Ave. Esmeralda #53  
 PMB #25 Guaynabo, P.R. 00696  
 Tel. 787-903-7321

**PROJECT**

**PROJECT NAME**  
**CERH MICRORRED ADJUNTAS PUEBLO 2**

**PROPERTY OF:**  
**COOPERATIVA HIDROELECTRICA DE LA MONTAÑA**

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**REVISIONS**

NO.	DATE	REVISION

SHEET TITLE

**CONCEPTUAL PHOTOVOLTAIC SYSTEM ONE-LINE DIAGRAM**

DRAWING BY:  
**WILFREDO PEREZ**

DATE  
**ABRIL 21, 2026**

PROJECT NO.

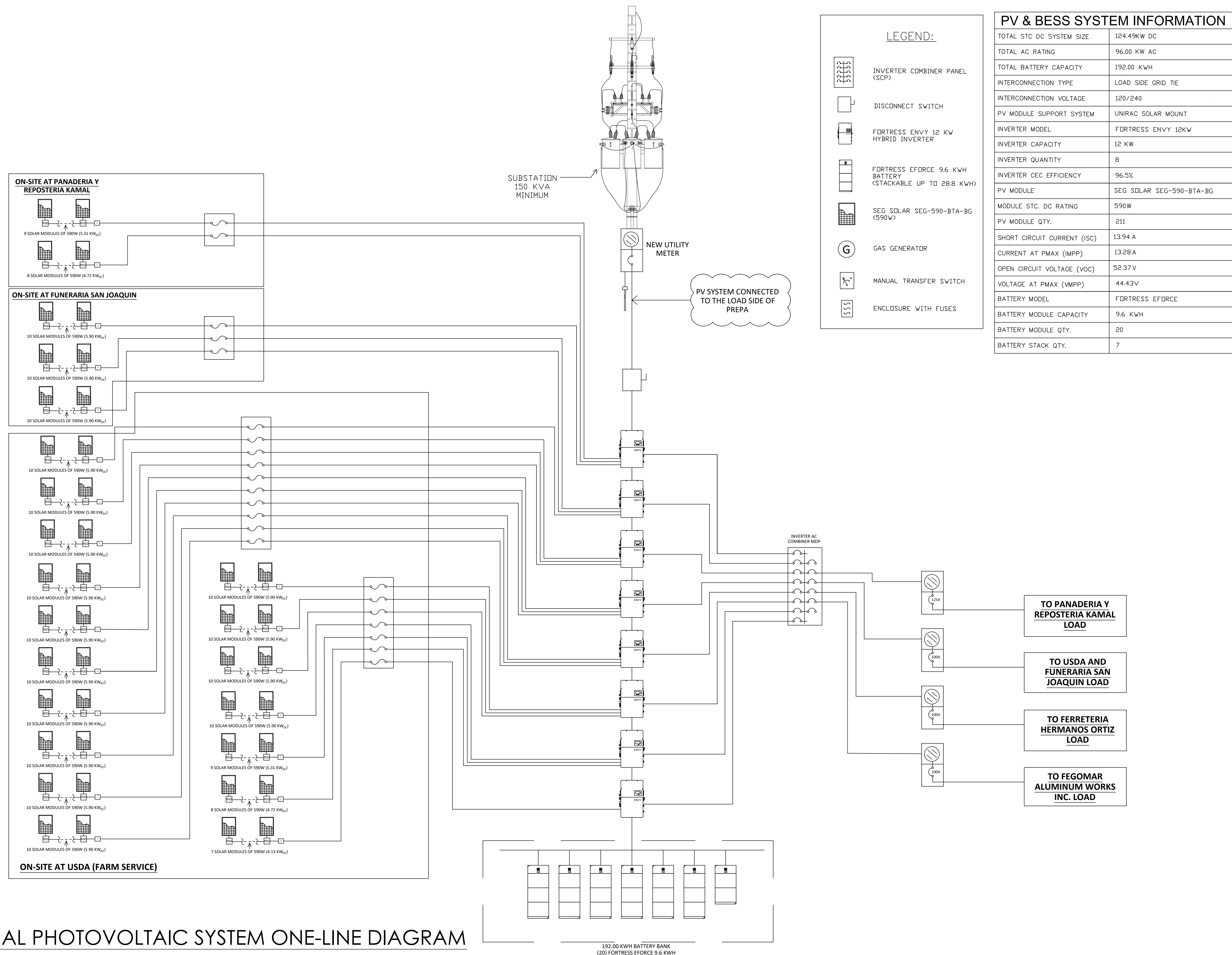
SHEET NO.

**PV & BESS SYSTEM INFORMATION**

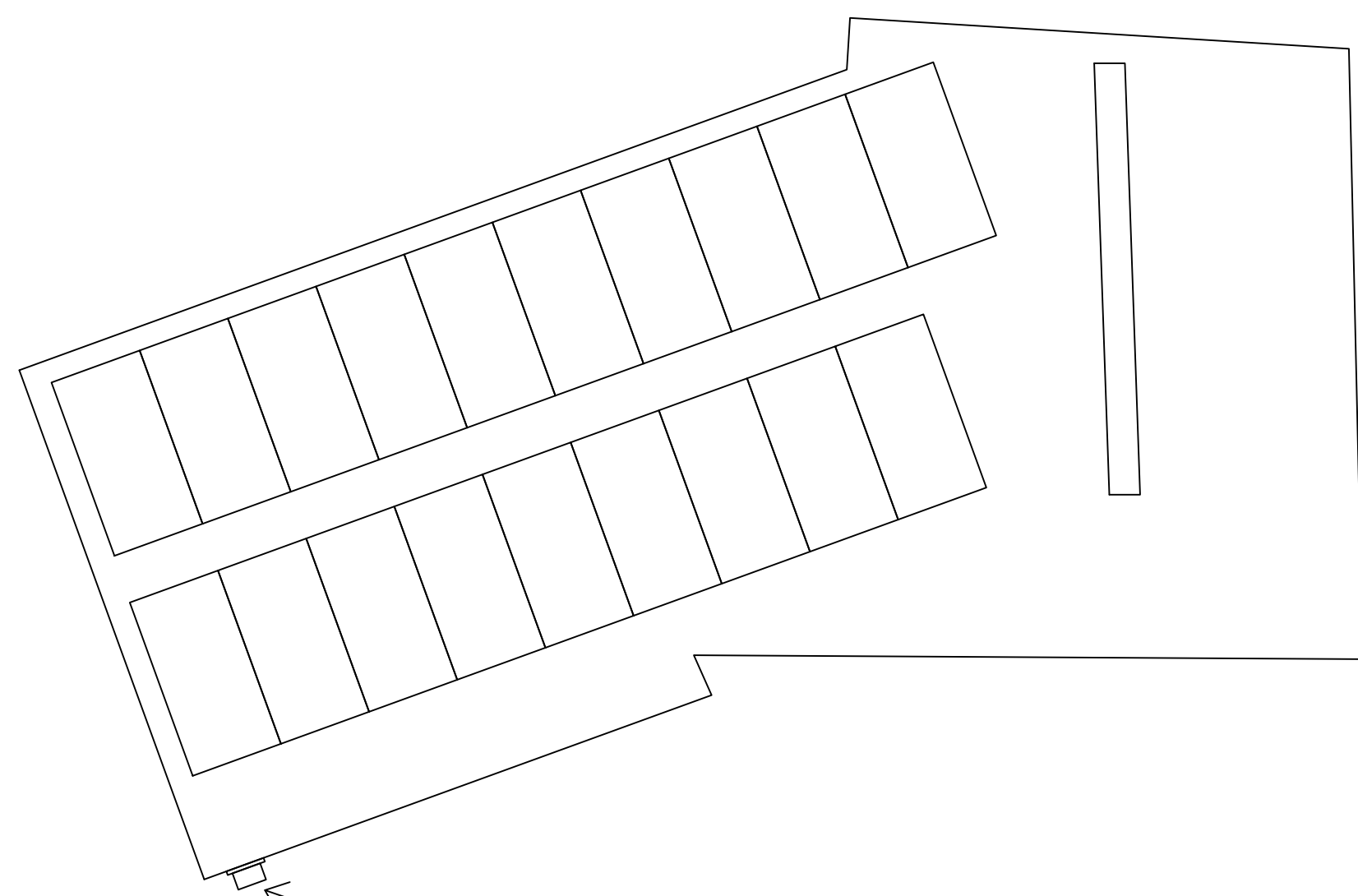
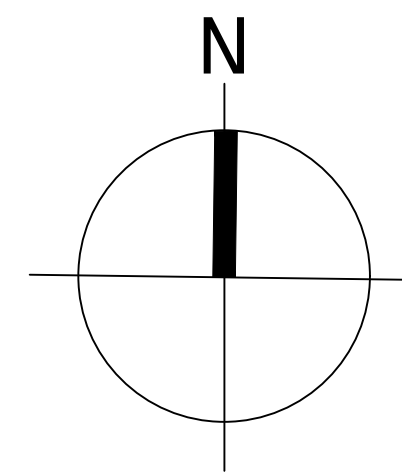
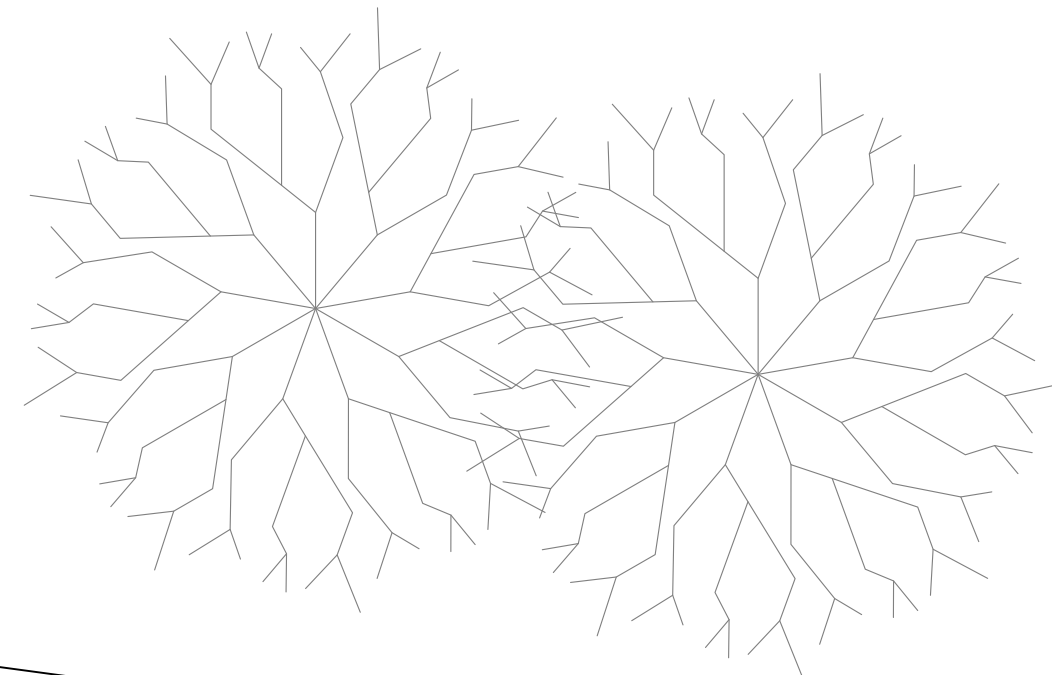
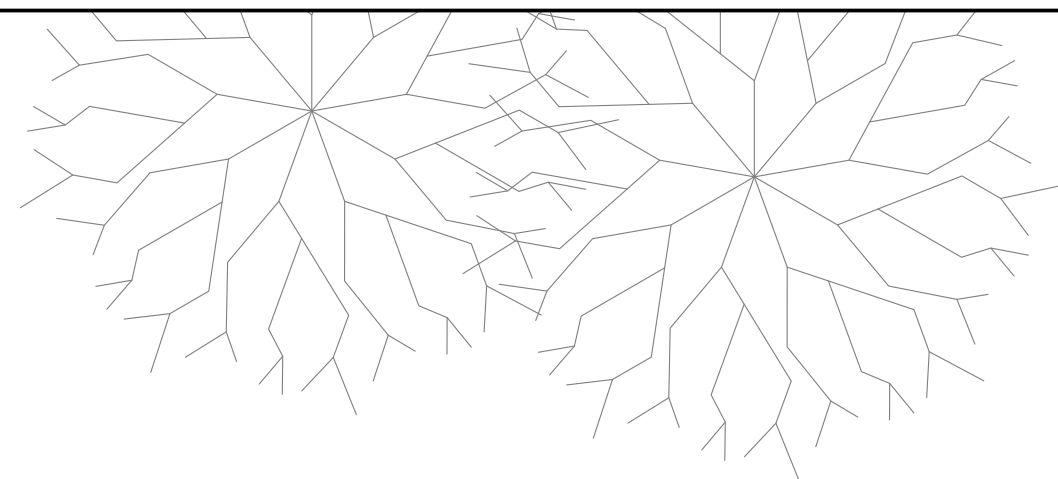
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TOTAL AC RATING	96.00 KW AC
TOTAL BATTERY CAPACITY	192.00 KWH
INTERCONNECTION TYPE	LOAD SIDE GRID TIE
INTERCONNECTION VOLTAGE	120/240
PV MODULE SUPPORT SYSTEM	UNIRAC SOLAR MOUNT
INVERTER MODEL	FORTRESS ENVY 12KW
INVERTER CAPACITY	12 KW
INVERTER QUANTITY	8
INVERTER CEC EFFICIENCY	96.5%
PV MODULE	SEG SOLAR SEG-590-BTA-BG
MODULE STC DC RATING	590W
PV MODULE QTY.	211
SHORT CIRCUIT CURRENT (ISC)	13.94 A
CURRENT AT P <sub>MAX</sub> (I <sub>MPP</sub> )	13.28 A
OPEN CIRCUIT VOLTAGE (V <sub>OC</sub> )	52.37V
VOLTAGE AT P <sub>MAX</sub> (V <sub>MPP</sub> )	44.43V
BATTERY MODEL	FORTRESS EFORCE
BATTERY MODULE CAPACITY	9.6 KWH
BATTERY MODULE QTY.	20
BATTERY STACK QTY.	7

**LEGEND:**

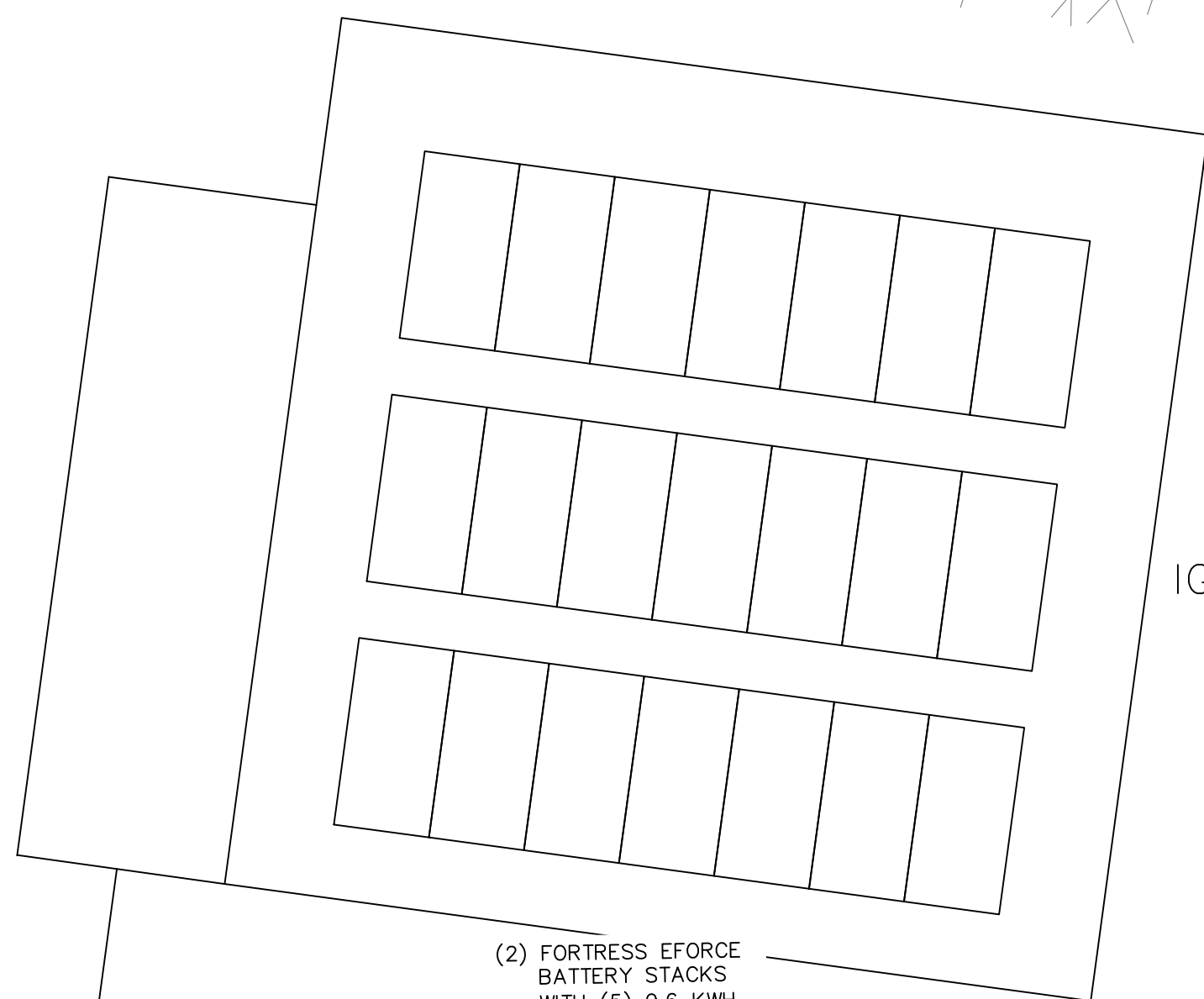
- INVERTER COMBINER PANEL (SCP)
- DISCONNECT SWITCH
- FORTRESS ENVY 12 KW HYBRID INVERTER
- FORTRESS EFORCE 9.6 KWH BATTERY (STACKABLE UP TO 28.8 KWH)
- SEG SOLAR SEG-590-BTA-BG (590W)
- GAS GENERATOR
- MANUAL TRANSFER SWITCH
- ENCLASURE WITH FUSES



**CONCEPTUAL PHOTOVOLTAIC SYSTEM ONE-LINE DIAGRAM**  
 N.T.S.



CASA LADO PANADERIA



IGLESIA COMUNIDAD

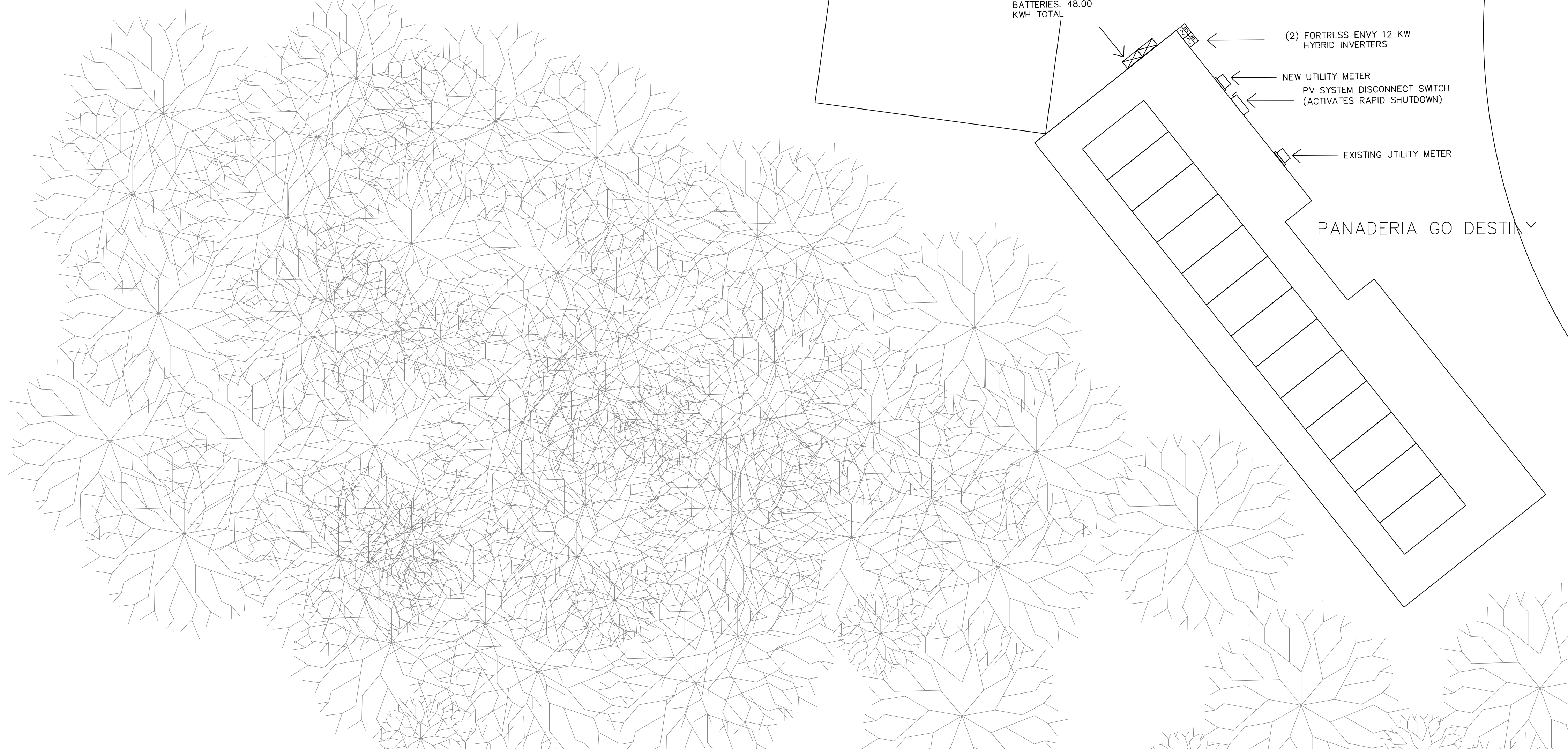
(2) FORTRESS EFORCE BATTERY STACKS WITH (5) 9.6 KWH BATTERIES. 48.00 KWH TOTAL

(2) FORTRESS ENVY 12 KW HYBRID INVERTERS

NEW UTILITY METER  
PV SYSTEM DISCONNECT SWITCH (ACTIVATES RAPID SHUTDOWN)

EXISTING UTILITY METER

PANADERIA GO DESTINY



**LOCATION PLAN**  
CAR 10 R518 K6 H2 BO  
GARZAS ADJUNTAS  
PR 00601

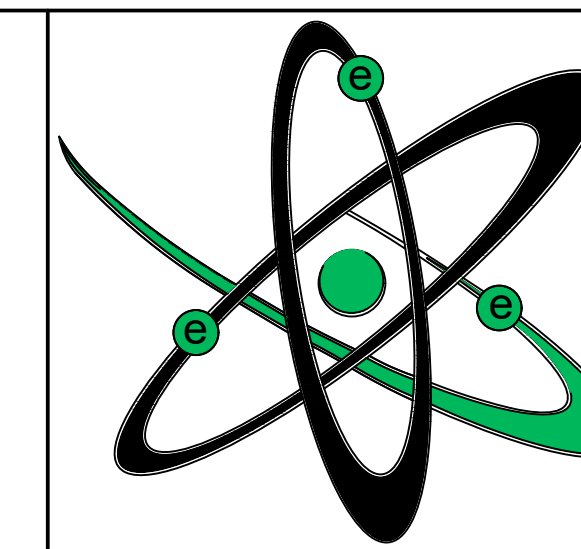
**NAD83 ZONE 19 COORDINATES**  
X: 739653.93  
Y: 2006728.19

**PV & BESS SYSTEM INFORMATION**

TOTAL STC DC SYSTEM SIZE	31.27 KW DC
TOTAL AC RATING	24.00 KW AC
TOTAL BATTERY CAPACITY	48.00 KWH
INTERCONNECTION TYPE	LOAD SIDE GRID TIE
INTERCONNECTION VOLTAGE	120/240
PV MODULE SUPPORT SYSTEM	UNIRAC SOLAR MOUNT
INVERTER MODEL	FORTRESS ESPIRE MINI
INVERTER CAPACITY	12 KW
INVERTER QUANTITY	2
INVERTER CEC EFFICIENCY	96.5%
PV MODULE	SEG SOLAR SEG-590-BTA-BG
MODULE STC DC RATING	590W
PV MODULE QTY.	53
SHORT CIRCUIT CURRENT (ISC)	13.94 A
CURRENT AT P <sub>MAX</sub> (MPP)	13.28 A
OPEN CIRCUIT VOLTAGE (VOC)	52.37 V
VOLTAGE AT P <sub>MAX</sub> (VMPP)	44.43 V
BATTERY MODEL	FORTRESS EFORCE
BATTERY MODULE CAPACITY	9.6 KWH
BATTERY MODULE QTY.	5
BATTERY STACK QTY.	2

**EQUIPMENT LEGEND:**

	NEW SOLAR MODULE MODEL: SEG SOLAR SEG-590-BTA-BG (53 TOTAL MODULES)
	NEW HYBRID INVERTER MODEL: FORTRESS ESPIRE MINI (2 TOTAL OF INVERTERS)
	UTILITY METER
	TRANSFER SWITCH
	PV SYSTEM DISCONNECT SWITCH (ACTIVATES RAPID SHUTDOWN)
	INVERTER COMBINER PANEL
	FORTRESS EFORCE BATTERY STACK
	PROPANE GENERATOR



**EDISON ENERGY ENGINEERING**

Ave. Esmeralda #53  
PMB #25 Guaynabo, P.R. 00696  
Tel: 767-903-7321

**PROJECT**

**PROJECT NAME**

**CERH  
MICORRED ADJUNTAS  
LAGO GARZAS 1**

**PROPERTY OF:**

**COOPERATIVA  
HIDROELECTRICA DE LA  
MONTAÑA**

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**REVISIONS**

NO.	DATE	REVISION

SHEET TITLE

**GENERAL SITEPLAN**

DRAWING BY:  
**CHRISTOPHER MONTALVO**

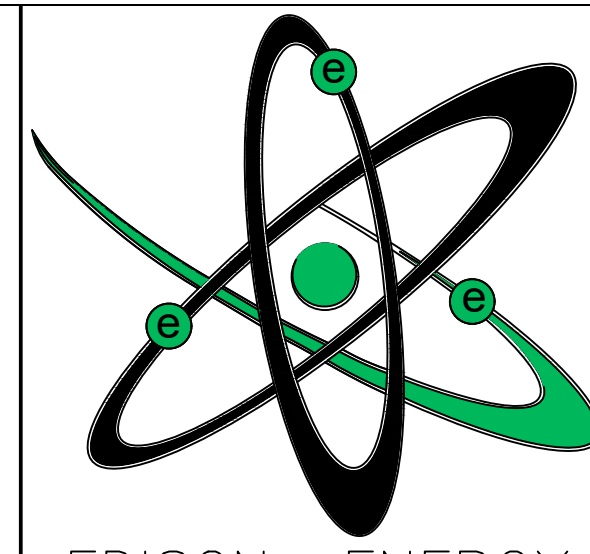
DATE  
APRIL 6, 2026

PROJECT NO.

SHEET NO.

**GENERAL SITEPLAN**

N.T.S.



**EDISON ENERGY ENGINEERING**  
 Ave. Esmeralda #53  
 P.M.B. #25 Guaynabo, P.R. 00696  
 Tel. 787-903-7321

**PROJECT**

**PROJECT NAME**  
 CERH MICORRED ADJUNTAS LAGO GARZAS 1

**PROPERTY OF:**  
 COOPERATIVA HIDROELECTRICA DE LA MONTAÑA

**IMPORTANT NOTES**

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**REVISIONS**

NO.	DATE	REVISION

**SHEET TITLE**  
 CONCEPTUAL PHOTOVOLTAIC SYSTEM ONE-LINE DIAGRAM

**DRAWING BY:**  
 CHRISTOPHER MONTALVO

**DATE**  
 APRIL 6, 2026

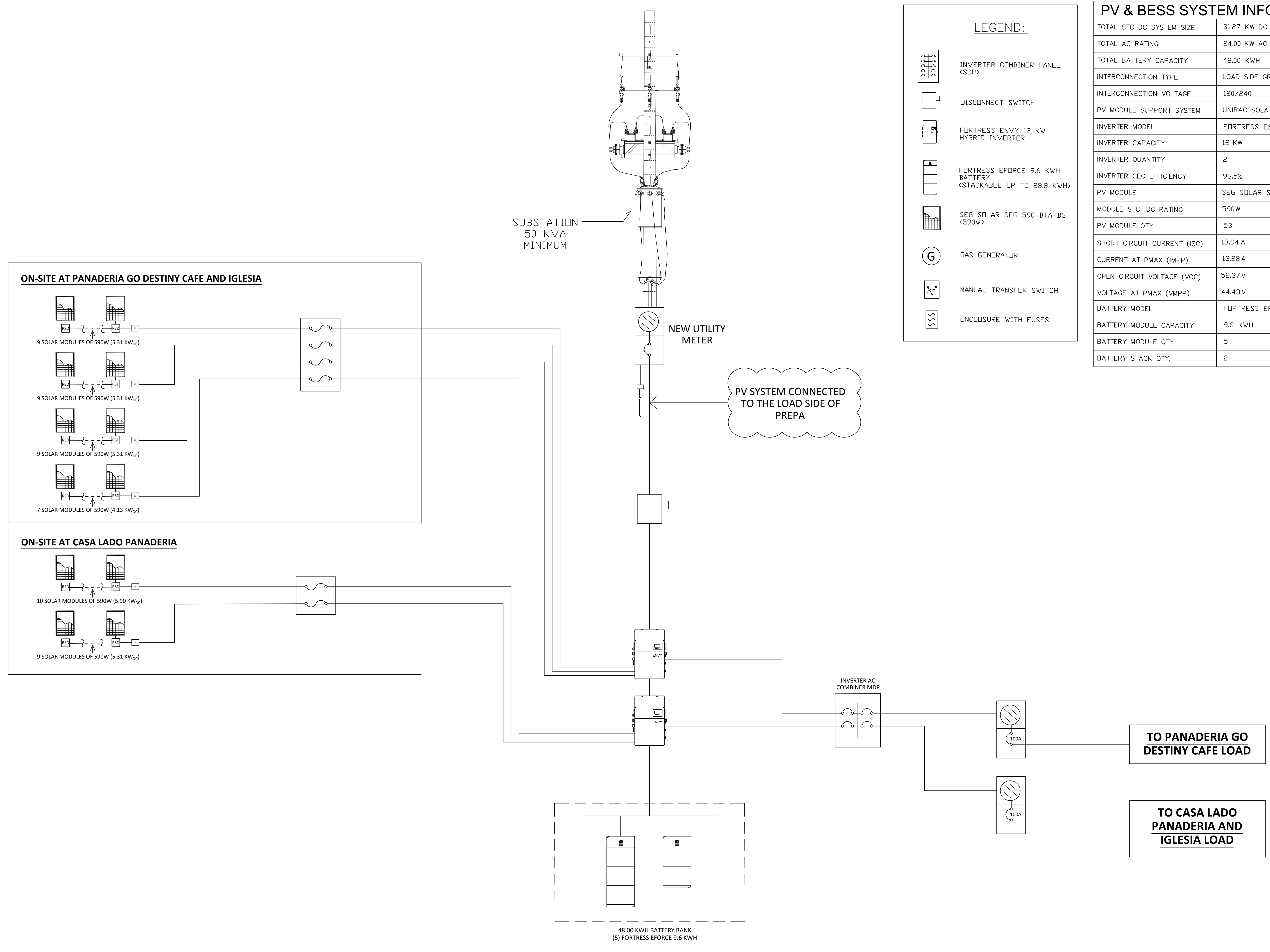
**PROJECT NO.**

**SHEET NO.**

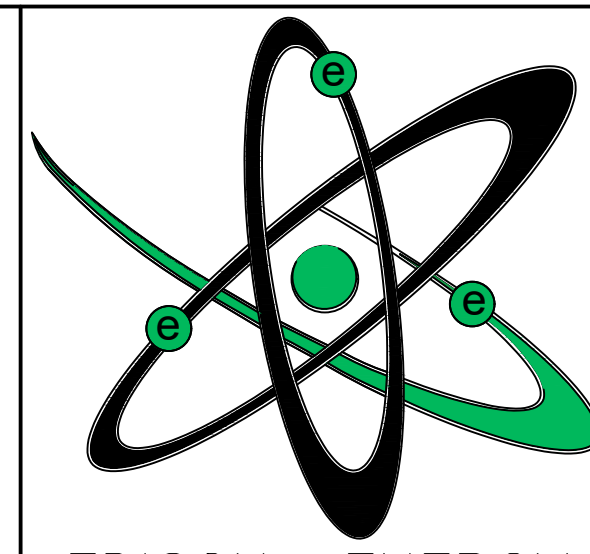
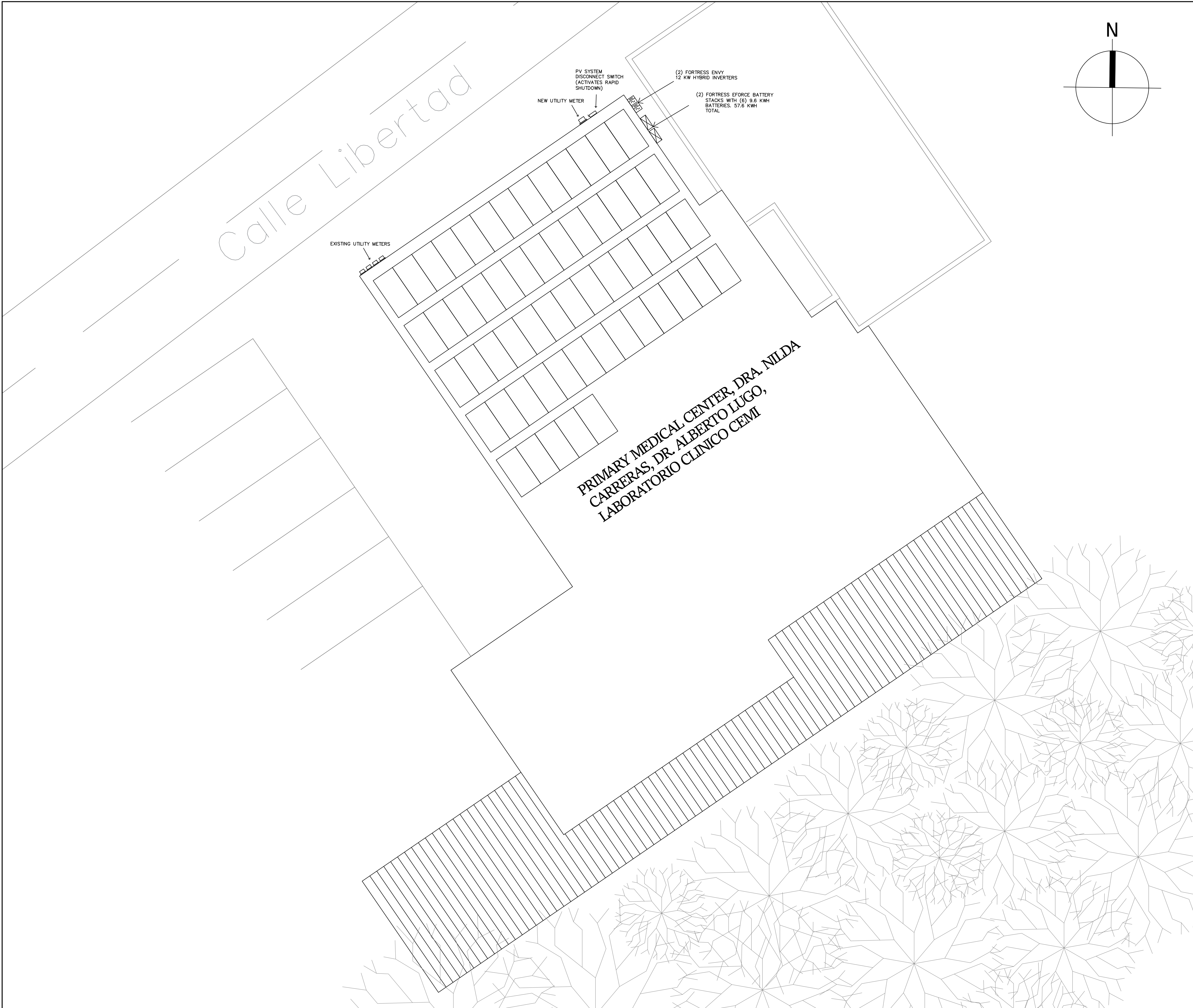
PV & BESS SYSTEM INFORMATION	
TOTAL STC DC SYSTEM SIZE	31.27 KW DC
TOTAL AC RATING	24.00 KW AC
TOTAL BATTERY CAPACITY	48.00 KWH
INTERCONNECTION TYPE	LOAD SIDE GRID TIE
INTERCONNECTION VOLTAGE	120/240
PV MODULE SUPPORT SYSTEM	UNIRAC SOLAR MOUNT
INVERTER MODEL	FORTRESS ESPIRE MINI
INVERTER CAPACITY	12 KW
INVERTER QUANTITY	2
INVERTER CEC EFFICIENCY	96.5%
PV MODULE	SEG SOLAR SEG-590-BTA-BG
MODULE STC DC RATING	590W
PV MODULE QTY.	53
SHORT CIRCUIT CURRENT (ISC)	13.94 A
CURRENT AT PMAX (IMPP)	13.28A
OPEN CIRCUIT VOLTAGE (VOC)	52.37V
VOLTAGE AT PMAX (VMPP)	44.43V
BATTERY MODEL	FORTRESS EFORCE
BATTERY MODULE CAPACITY	9.6 KWH
BATTERY MODULE QTY.	5
BATTERY STACK QTY.	2

**LEGEND:**

- INVERTER COMBINER PANEL (SCP)
- DISCONNECT SWITCH
- FORTRESS ENVY 12 KW HYBRID INVERTER
- FORTRESS EFORCE 9.6 KWH BATTERY (STACKABLE UP TO 28.8 KWH)
- SEG SOLAR SEG-590-BTA-BG (590W)
- GAS GENERATOR
- MANUAL TRANSFER SWITCH
- ENCLOSURE WITH FUSES



**CONCEPTUAL PHOTOVOLTAIC SYSTEM ONE-LINE DIAGRAM**  
 N.T.S.



**EDISON ENERGY ENGINEERING**  
 Ave. Esmeralda #53  
 PMB #25 Guaynabo, P.R. 00696  
 Tel: 767-903-7321

**PROJECT**

**PROJECT NAME**  
 CERH  
 MICORRED JAYUYA  
 PUEBLO 2

PROPERTY OF:  
**COOPERATIVA  
 HIDROELECTRICA DE LA  
 MONTAÑA**

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**LOCATION PLAN**  
 49 C LIBERTAD JAYUYA PR  
 00664

**NAD83 ZONE 19 COORDINATES**  
 X: 754824.26  
 Y: 2016058.20

**PV & BESS SYSTEM INFORMATION**

TOTAL STC DC SYSTEM SIZE	33.63 KW DC
TOTAL AC RATING	24.00 KW AC
TOTAL BATTERY CAPACITY	57.6 KWH
INTERCONNECTION TYPE	LOAD SIDE GRID TIE
INTERCONNECTION VOLTAGE	120/240
PV MODULE SUPPORT SYSTEM	UNIRAC SOLAR MOUNT
INVERTER MODEL	FORTRESS ENVY 12KW
INVERTER CAPACITY	12 KW
INVERTER QUANTITY	2
INVERTER CEC EFFICIENCY	96.5%
PV MODULE	SEG SOLAR SEG-590-BTA-BG
MODULE STC DC RATING	590W
PV MODULE QTY.	57
SHORT CIRCUIT CURRENT (ISC)	13.94 A
CURRENT AT P <sub>MAX</sub> (IMPP)	13.28 A
OPEN CIRCUIT VOLTAGE (VOC)	52.37 V
VOLTAGE AT P <sub>MAX</sub> (VMPP)	44.43 V
BATTERY MODEL	FORTRESS EFORCE
BATTERY MODULE CAPACITY	9.6 KWH
BATTERY MODULE QTY.	6
BATTERY STACK QTY.	2

**EQUIPMENT LEGEND:**

	NEW SOLAR MODULE MODEL: SEG SOLAR SEG-590-BTA-BG (57 TOTAL MODULES)
	NEW HYBRID INVERTER MODEL: FORTRESS ENVY 12KW (2 TOTAL OF INVERTERS)
	UTILITY METER
	TRANSFER SWITCH
	PV SYSTEM DISCONNECT SWITCH (ACTIVATES RAPID SHUTDOWN)
	INVERTER COMBINER PANEL
	FORTRESS EFORCE BATTERY STACK
	PROPANE GENERATOR

**REVISIONS**

NO.	DATE	REVISION

SHEET TITLE

**GENERAL SITEPLAN**

DRAWING BY:  
**EDISON PARES JIMENEZ**

DATE  
 APRIL 22, 2026

PROJECT NO.

SHEET NO.

**GENERAL SITEPLAN**  
 N.T.S.



**EDISON ENERGY ENGINEERING**  
 Ave. Esmeralda #53  
 PMB #25 Guaynabo, P.R. 00696  
 Tel. 787-903-7321

**PROJECT**  
 PROJECT NAME  
**CERH MICRORRED JAYUYA PUEBLO 2**

PROPERTY OF:  
**COOPERATIVA HIDROELECTRICA DE LA MONTAÑA**

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**REVISIONS**

NO.	DATE	REVISION

SHEET TITLE  
**CONCEPTUAL PHOTOVOLTAIC SYSTEM ONE-LINE DIAGRAM**

DRAWING BY:  
**EDISON PARES JIMENEZ**

DATE  
**APRIL 22, 2026**

PROJECT NO.

SHEET NO.

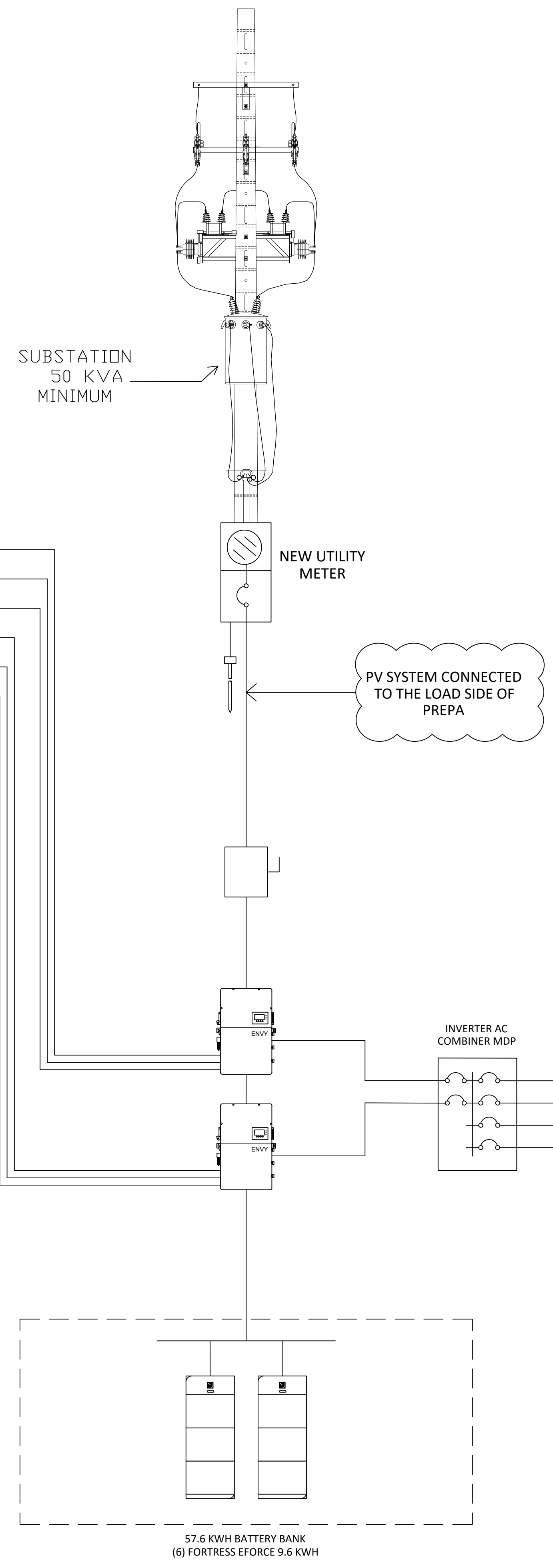
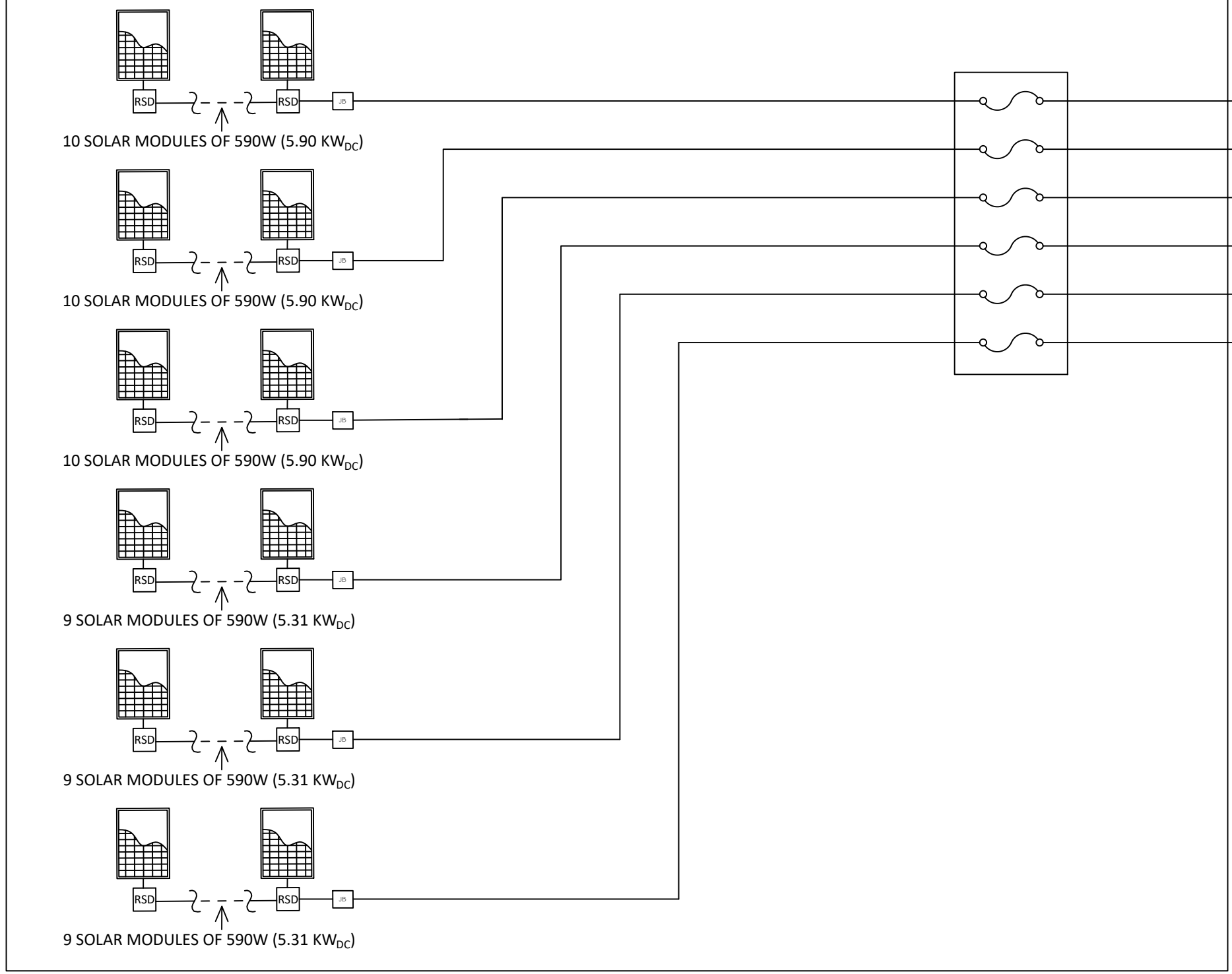
**PV & BESS SYSTEM INFORMATION**

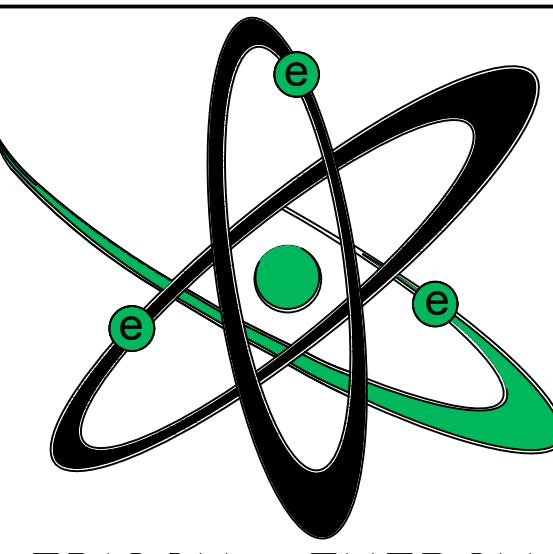
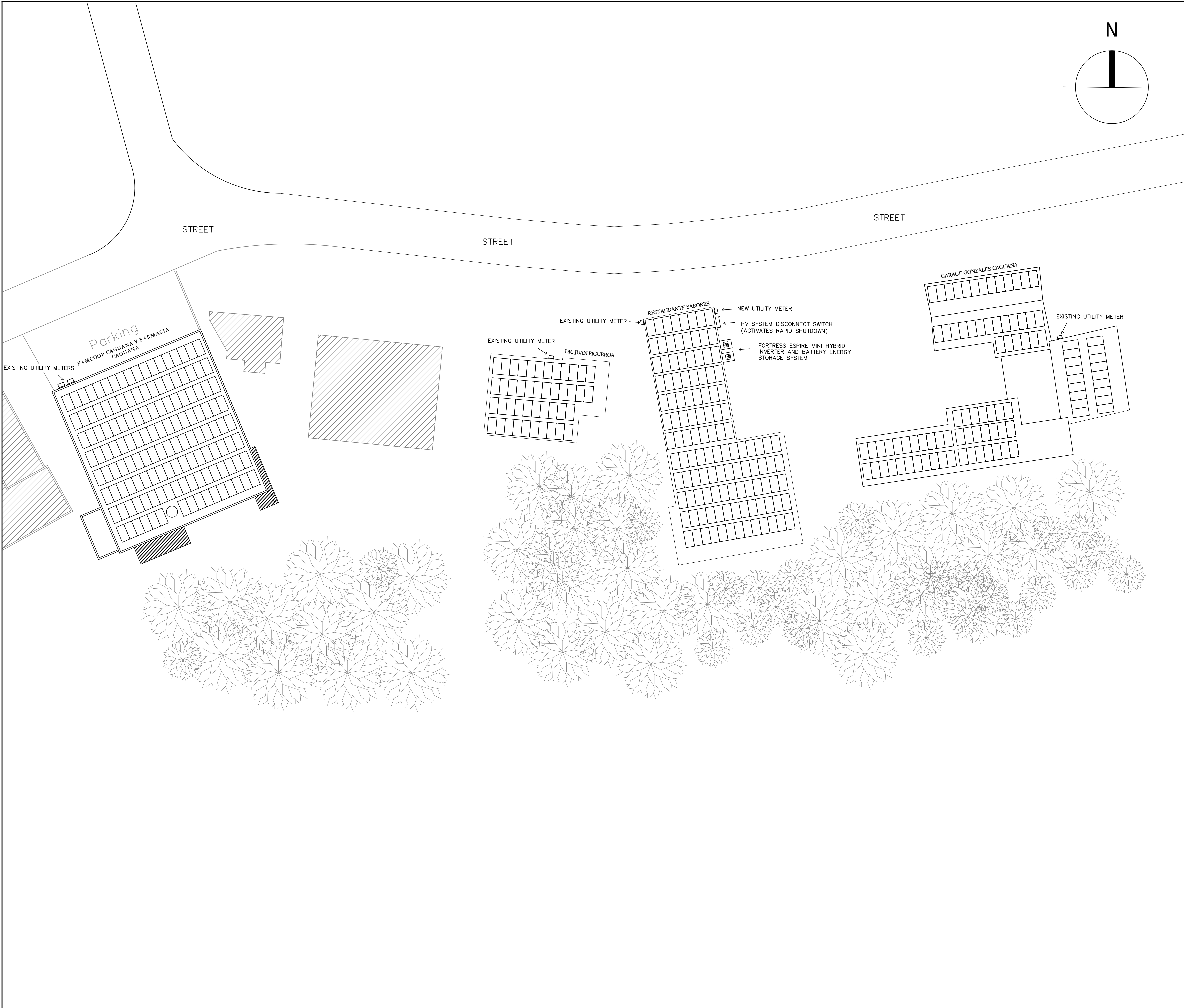
TOTAL STC DC SYSTEM SIZE	33.63 KW DC
TOTAL AC RATING	24.00 KW AC
TOTAL BATTERY CAPACITY	57.6 KWH
INTERCONNECTION TYPE	LOAD SIDE GRID TIE
INTERCONNECTION VOLTAGE	120/240
PV MODULE SUPPORT SYSTEM	UNIRAC SOLAR MOUNT
INVERTER MODEL	FORTRESS ENVY 12KW
INVERTER CAPACITY	12 KW
INVERTER QUANTITY	2
INVERTER CEC EFFICIENCY	96.5%
PV MODULE	SEG SOLAR SEG-590-BTA-BG
MODULE STC, DC RATING	590W
PV MODULE QTY.	57
SHORT CIRCUIT CURRENT (ISC)	13.94 A
CURRENT AT PMAX (IMPP)	13.28 A
OPEN CIRCUIT VOLTAGE (VOC)	52.37 V
VOLTAGE AT PMAX (VMPP)	44.43 V
BATTERY MODEL	FORTRESS EFORCE
BATTERY MODULE CAPACITY	9.6 KWH
BATTERY MODULE QTY.	6
BATTERY STACK QTY.	2

**LEGEND:**

- INVERTER COMBINER PANEL (SCP)
- DISCONNECT SWITCH
- FORTRESS ENVY 12 KW HYBRID INVERTER
- FORTRESS EFORCE 9.6 KWH BATTERY (STACKABLE UP TO 28.8 KWH)
- SEG SOLAR SEG-590-BTA-BG (590W)
- GAS GENERATOR
- MANUAL TRANSFER SWITCH
- ENCLOSURE WITH FUSES

**ON-SITE AT PRIMARY MEDICAL CENTER, DR. ADALBERTO LUGO, DRA. NILDA CARRERAS AND LAB. CLINICO CEMI**





**EDISON ENERGY ENGINEERING**  
 Ave. Esmeralda #53  
 PMB #25 Guaynabo, P.R. 00696  
 Tel: 767-903-7321

**PROJECT**

**PROJECT NAME**  
**CERH MICRORRED UTUADO CAGUANAS**

**PROPERTY OF:**  
**COOPERATIVA HIDROELECTRICA DE LA MONTAÑA**

**IMPORTANT NOTES**

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY DISCREPANCIES, ERRORS AND/OR OMISSIONS.
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**LOCATION PLAN**  
**CAR. 111 K8.2 BO CAGUANA**  
**UTUADO PR 00641**

**NAD83 ZONE 19 COORDINATES**  
**X: 737683.29**  
**Y: 2022698.48**

PV SYSTEM INFORMATION	
TOTAL STC DC SYSTEM SIZE	236.00 KW DC
TOTAL AC RATING	150.00 KW AC
TOTAL BATTERY CAPACITY	368 KWH
INTERCONNECTION TYPE	LOAD SIDE GRID TIE
INTERCONNECTION VOLTAGE	120/240
PV MODULE SUPPORT SYSTEM	UNIRAC SOLAR MOUNT
INVERTER MODEL	FORTRESS ESPIRE MINI
INVERTER CAPACITY	90 KW AND 60 KW
INVERTER QUANTITY	2
INVERTER CEC EFFICIENCY	96.5 %
PV MODULE	SEG SOLAR SEG-590-BTA-BG
MODULE STC. DC RATING	590W
PV MODULE QTY.	400
SHORT CIRCUIT CURRENT (ISC)	13.94 A
CURRENT AT PMAX (IMPP)	13.28 A
OPEN CIRCUIT VOLTAGE (VOC)	52.37V
VOLTAGE AT PMAX (VMPP)	44.43V

**REVISIONS**

NO.	DATE	REVISION

EQUIPMENT LEGEND:	
	NEW SOLAR MODULE MODEL: SEG SOLAR SEG-590-BTA-BG (400 TOTAL MODULES)
	NEW HYBRID INVERTER MODEL: FORTRESS ESPIRE MINI ( 2 TOTAL OF INVERTERS)
	UTILITY METER
	TRANSFER SWITCH
	PV SYSTEM DISCONNECT SWITCH (ACTIVATES RAPID SHUTDOWN)
	INVERTER COMBINER PANEL
	PROPANE GENERATOR

SHEET TITLE

**GENERAL SITEPLAN**

DRAWING BY:  
**WILFREDO PEREZ**

DATE  
**APRIL 6, 2026**

PROJECT NO.

SHEET NO.

**GENERAL SITEPLAN**  
 N.T.S.

