



LARKIN GROUP
 8500 MENAUL NE, SUITE A-440
 ALBUQUERQUE, NEW MEXICO 87112
 (505) 275-7500, FAX (505) 275-0748
 ENGINEER'S FILE NO. 2005-0009

KEYED NOTES ○

1. PHOTOVOLTAIC MODULE 230 WATT VDC, SOLON BLUE #230/01.
2. MICROINVERTER INTERCONNECT CABLES.
3. UTILITY INTER-TIE CO-GENERATION INVERTER, RATED 56 VDC INPUT, 208VAC/190W OUTPUT, ENPHASE MICROINVERTER #M190-72-208. OUTPUT VOLTAGE SHALL BE 208 VOLTS.
4. UTILITY ACCESSIBLE NON-FUSIBLE DISCONNECT SWITCH, 60 AMP, 3-POLE 240 VOLT, NEMA-3R ENCLOSURE. DISCONNECT SHALL BE LOCATED NEAR PV OUTPUT METER.
5. PROVIDE AND INSTALL A 200 AMP, 120/208VOLT, THREE PHASE METER ENCLOSURE FOR USE WITH PV OUTPUT METER, PNM DRAWING MS-2-6.0. COORDINATION REQUIREMENTS AND INSTALLATION WITH PNM.
6. PROVIDE AND INSTALL A PULLBOX AS REQUIRED, FOR TRANSDUCING FROM MICROINVERTER INTERCONNECT CABLES TO CONDUIT AND CONDUCTORS. PULLBOX TO SHALL BE NEMA-3R AND SIZED PER N.E.C.
7. 4#4 AND 1#8 GROUND IN 1-1/4" CONDUIT.
8. 4#10 AND 1#10 GROUND IN 3/4" CONDUIT.
9. PROVIDE AND INSTALL A NEW 70A/3P CIRCUIT BREAKER IN AVAILABLE SPACE.
10. AC DISCONNECT, (9)15A-3P CIRCUIT BREAKERS, 800 VAC, PROVIDE AND INSTALL UL LISTED, NEMA-3R CIRCUIT BREAKER ENCLOSURE.

GENERAL NOTES

1. PV SYSTEM SHALL MEET 2008 N.E.C. ARTICLE 690 REQUIREMENTS.

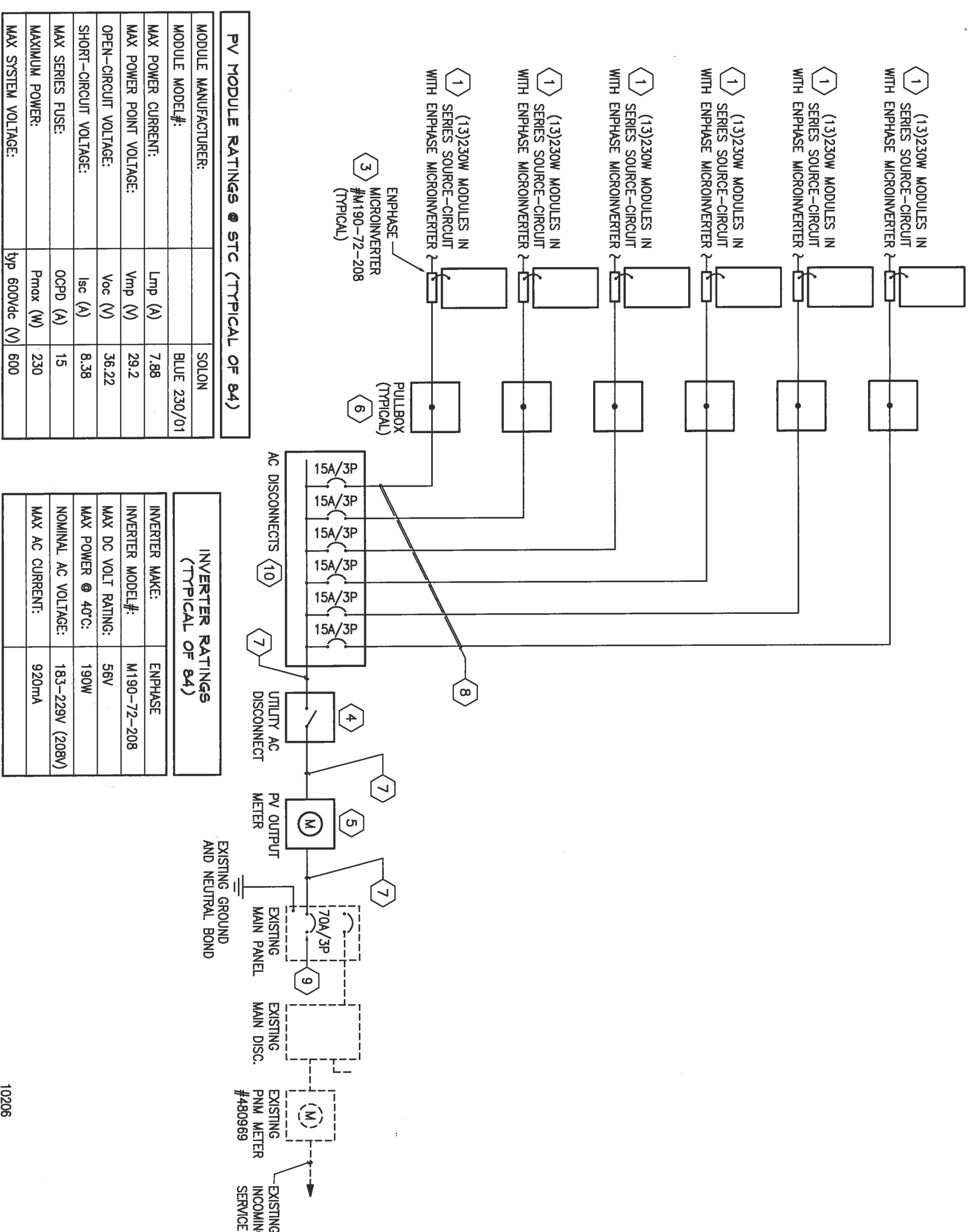
THE RESPONSE GROUP, INC.

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 11930 Menaul N.E. Suite 214
 Albuquerque, New Mexico 87112
 Phone: (505) 323-7629 Fax: (505) 323-7394
 Email: responsegr@qwest.net

**VILLAGE OF CORRALES
 MAIN FIRE STATION PV SYSTEM
 4920 CORRALES RD
 CORRALES, NM 87048**

**SHEET TITLE
 PV ONE-LINE DIAGRAM**

SHEET NUMBER	1 OF 3	PROJECT:	10206
SCALE:		DWN BY:	TRR
CHK BY:	DDR	DATE:	10-21-10



**INVERTER RATINGS
 (TYPICAL OF 84)**

INVERTER MAKE:	ENPHASE
INVERTER MODEL#:	M190-72-208
MAX DC VOLT RATING:	56V
MAX POWER @ 40°C:	190W
NOMINAL AC VOLTAGE:	183-229V (208V)
MAX AC CURRENT:	920mA

PV MODULE RATINGS @ STC (TYPICAL OF 84)

MODULE MANUFACTURER:	SOLON
MODULE MODEL#:	BLUE 230/01
MAX POWER CURRENT:	Lmp (A) 7.88
MAX POWER POINT VOLTAGE:	Vmp (V) 29.2
OPEN-CIRCUIT VOLTAGE:	Voc (V) 36.22
SHORT-CIRCUIT VOLTAGE:	Isc (A) 8.38
MAX SERIES FUSE:	OCPD (A) 15
MAXIMUM POWER:	Pmax (W) 230
MAX SYSTEM VOLTAGE:	typ 600Vdc (V) 600

KEYED NOTES

1. PHOTOVOLTAIC MODULE 230 WATT VDC, SOLON BLUE #230/01.
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3. UTILITY INTER-TIE CO-GENERATION INVERTER, RATED 66 VDC INPUT, 208VAC/190W OUTPUT, ENPHASE MICROINVERTER #M190-72-208. OUTPUT VOLTAGE SHALL BE 208 VOLTS.
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7. **4x4** AND 1 ϕ 6 GROUND IN 1-1/4" CONDUIT.
8. **4/10** AND 1 ϕ 10 GROUND IN 3/4" CONDUIT.
9. PROVIDE AND INSTALL A NEW 70A/3P CIRCUIT BREAKER IN AVAILABLE SPACE.
10. AC DISCONNECT, (Ø)154-3P CIRCUIT BREAKERS, 600 VAC, PROVIDE AND INSTALL UL LISTED, NEMA-3R CIRCUIT BREAKER ENCLOSURE.

GENERAL NOTES

1. PV SYSTEM SHALL MEET 2009 N.E.C. ARTICLE 690 REQUIREMENTS.

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 MAIN FIRE STATION PV SYSTEM
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 CORRALES, NM 87048**

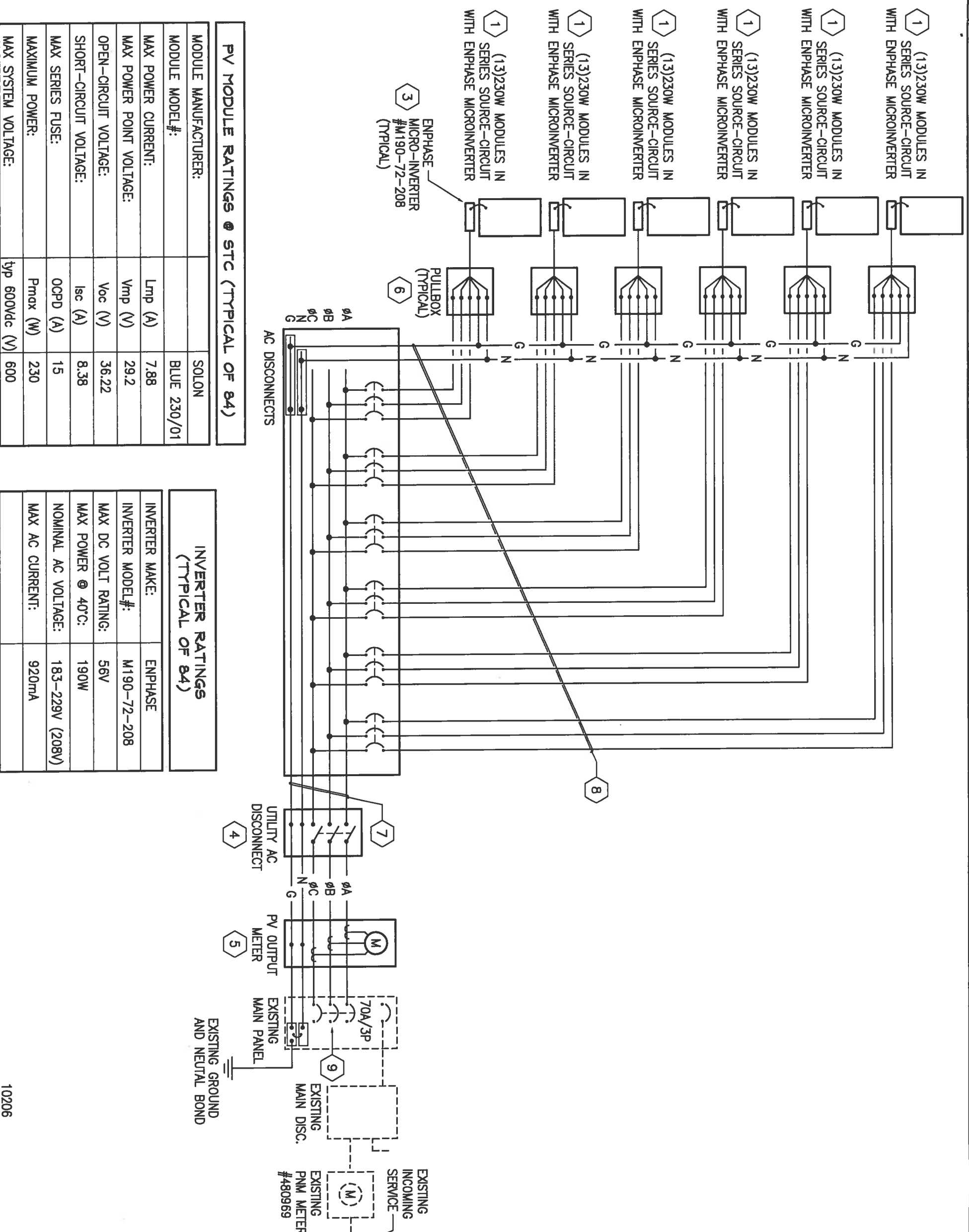
SHEET TITLE

PV ONE-LINE DIAGRAM

SHEET NUMBER 2 OF 3

PROJECT:	10206
SCALE:	
DWN BY:	TTR
CHK BY:	DDR
DATE:	10-21-10

10206



PV MODULE RATINGS @ STC (TYPICAL OF 84)

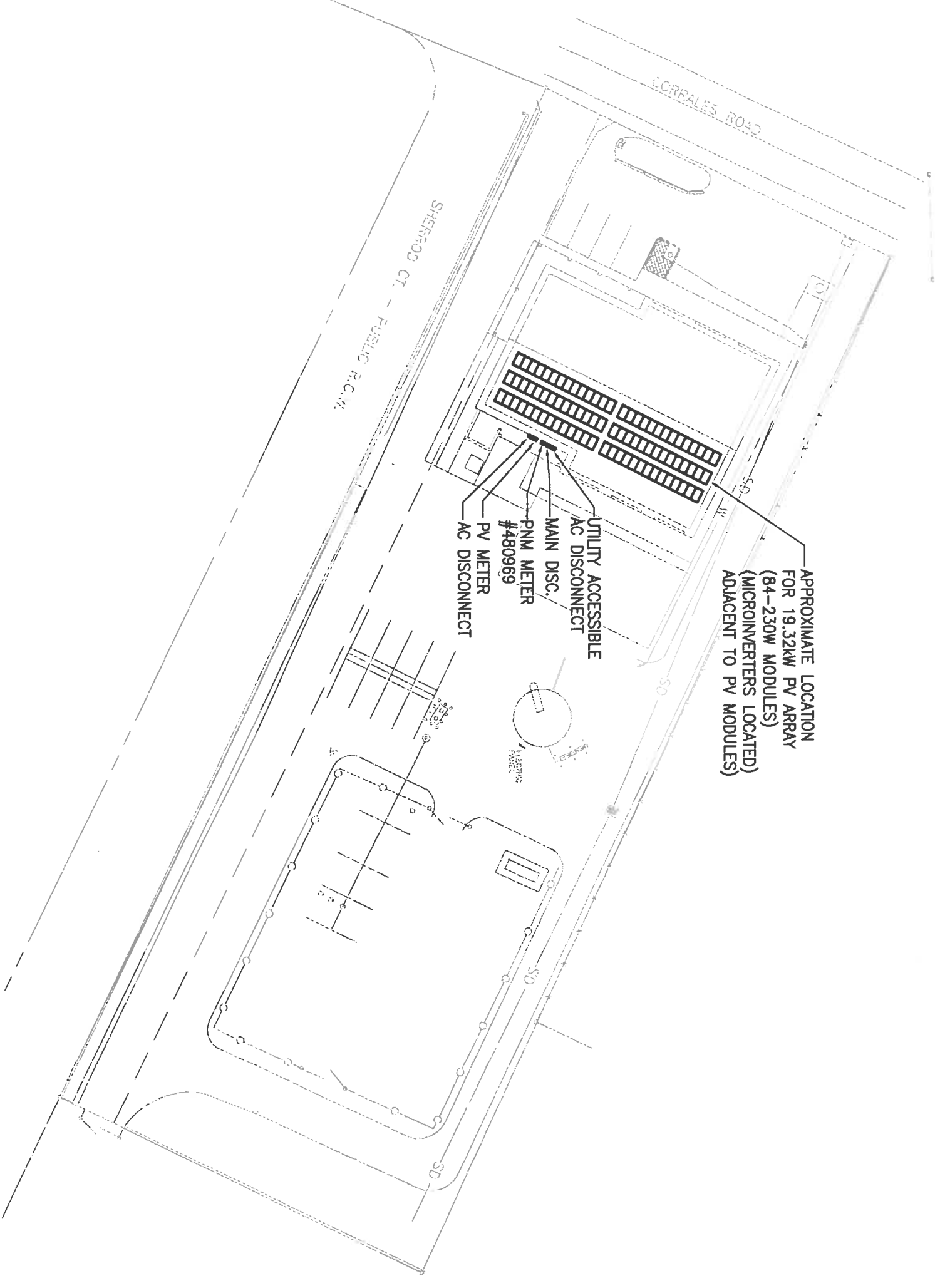
MODULE MANUFACTURER:	SOLON
MODULE MODEL#:	BLUE 230/01
MAX POWER CURRENT:	Lmp (A) 7.88
MAX POWER POINT VOLTAGE:	Vmp (V) 29.2
OPEN-CIRCUIT VOLTAGE:	Voc (V) 36.22
SHORT-CIRCUIT VOLTAGE:	Isc (A) 8.38
MAX SERIES FUSE:	OCPD (A) 15
MAXIMUM POWER:	Pmax (W) 230
MAX SYSTEM VOLTAGE:	typ 600Vdc (V) 600

INVERTER RATINGS (TYPICAL OF 84)

INVERTER MAKE:	ENPHASE
INVERTER MODEL#:	M190-72-208
MAX DC VOLT RATING:	56V
MAX POWER @ 40°C:	190W
NOMINAL AC VOLTAGE:	183-229V (208V)
MAX AC CURRENT:	920mA



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PHOTOVOLTAIC SITE PLAN

SCALE: 1"=50'-0"



SHEET TITLE
PV SITE PLAN

**VILLAGE OF CORRALES
 MAIN FIRE STATION PV SYSTEM
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PROJECT:	10206
SCALE:	
DNW BY:	TFR
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SHEET NUMBER 3 OF 3
E-3

10206