SWITCHBOARD SCHEDULE

PANEL: **PV-1** | RATING: 2500A MCB, NEMA 3R | SERVICE: 600/346V, 3ø, 4W | LUG LOCATION: BOTTOM | MOUNTING: RACK | A.I.C. : 65KAIC | TYPE: TBD

CKT	DESCRIPTION	KVA	CKT BRKR POLE	CKT BRKR TRIP	BRANCH ø	BRANCH N	CIRCUIT GND	CIRCUIT C"	ø	CKT	DESCRIPTION	KVA	CKT BRKR POLE	CKT BRKR TRIP	BRANCH ø	BRANCH N	CIRCUIT GND	CIRCUIT C"
					*				a						*			
1	INV-1	125	3	175	*	–	*	*	b	2	INV-2	125	3	175	*	–	*	*
					*				c						*			
					*				a						*			
3	INV-3	125	3	175	*	–	*	*	b	4	INV-4	125	3	175	*	–	*	*
					*				c						*			
					*				a						*			
5	INV-5	125	3	175	*	–	*	*	b	6	INV-6	125	3	175	*	–	*	*
					*				c						*			
					*				a						*			
7	INV-7	125	3	175	*	–	*	*	b	8	INV-8	125	3	175	*	–	*	*
					*				c						*			
					*				a						*			
9	INV-9	125	3	175	*	–	*	*	b	10	INV-10	125	3	175	*	–	*	*
					*				c						*			
					*				a						*			
11	INV-11	125	3	175	*	–	*	*	b	12	INV-12	125	3	175	*	–	*	*
					*				c						*			
					*				a						*			
13	INV-13	125	3	175	*	–	*	*	b	14	INV-14	125	3	175	*	–	*	*
					*				c						*			
					*				a						*			
15	INV-15	125	3	175	*	–	*	*	b	16	INV-16	125	3	175	*	–	*	*
					*				c						*			
					12				a									
17	REFERENCE VOLTAGE	–	3	15	12	–	12	1	b	18	SPACE							
					12				c									
					8				a									
19	AUX LOAD TRANSFORMER	20	3	40	8	–	10	1	b	20	SURGE PROTECTION DEVICE	–	3	60	6	6	6	1
					8				c						6			

CONNECTED LOAD (KVA) øA | øB | øC

EQUIPMENT SERVED	RATED OUTPUT (KW)	MAX AC OUTPUT POWER (KVA)
INVERTERS	2000	2000
MISC.	20	20
CONNECTED OUTPUT:	2000	2000
AMPS:	1925	1925

REMARKS:
- PROVIDE TYPE WRITTEN DIRECTORY
- PROVIDE NEUTRAL AND GROUND BARS
- NEMA 3R
- PROVIDE CIRCUIT BREAKERS LISTED FOR BACK-FEEDING.
- 2500A BUS
- * REFER TO CONDUCTOR SCHEDULE ON PVE-1.2 FOR WIRE AND CONDUIT SIZES.
- PROVIDE ARC-ENERGY REDUCTION MAINTENANCE SWITCH.
- PROVIDE LSIG TRIP UNIT FOR MAIN.

PANELBOARD SCHEDULE

PANEL: **HP** | RATING: 45A MCB, NEMA 3R | SERVICE: 480/277V, 3ø, 4W | LUG LOCATION: BOTTOM | MOUNTING: RACK | A.I.C. : 18KAIC | TYPE: TBD

CKT	DESCRIPTION	KVA	CKT BRKR POLE	CKT BRKR TRIP	BRANCH ø	BRANCH N	CIRCUIT GND	CIRCUIT C"	ø	CKT	DESCRIPTION	KVA	CKT BRKR POLE	CKT BRKR TRIP	BRANCH ø	BRANCH N	CIRCUIT GND	CIRCUIT C"
					8				a						8			
1	TRACKER MOTOR 1	2.5	3	15	8	–	8	1	b	2	TRACKER MOTOR 2	2.5	3	15	8	–	8	1
					8				c						8			
					8				a		SPACE							
3	TRACKER MOTOR 2	2.5	3	15	8	–	8	1	b	4	AUX LOAD TRANSFORMER	15	2	40	8	–	10	1
					8				c						8			
	SPACE								a									
	SPACE								b	6	MAIN CIRCUIT BREAKER	–	3	45				
	SPACE								c									

CONNECTED LOAD (KVA) øA | øB | øC

EQUIPMENT SERVED	CONNECTED LOAD	LF	DF	DEMAND LOAD
TRACKER MOTORS	7.5		1.0	7.5
MISC.	15			15
TOTAL KVA:				22.5
AMPS:				27

REMARKS:
- PROVIDE TYPE WRITTEN DIRECTORY
- PROVIDE NEUTRAL AND GROUND BARS
- NEMA 3R

PANELBOARD SCHEDULE

PANEL: **PC** | RATING: 80A MCB, NEMA 3R | SERVICE: 120/240V, 1ø, 3W | LUG LOCATION: BOTTOM | MOUNTING: RACK | A.I.C. : 22KAIC | TYPE: TBD

CKT	DESCRIPTION	KVA	CKT BRKR POLE	CKT BRKR TRIP	BRANCH ø	BRANCH N	CIRCUIT GND	CIRCUIT C"	ø	CKT	DESCRIPTION	KVA	CKT BRKR POLE	CKT BRKR TRIP	BRANCH ø	BRANCH N	CIRCUIT GND	CIRCUIT C"
1	DAS	0.7	1	20	12	12	12	1	a	2	SWITCHGEAR HEATER	2.0	1	20	4	4	4	1
3	TRACKER CONTROLLERS	0.7	1	20	12	12	12	1	b	4	SPACE							
5	MIANT. RECEPTACLE	0.36	1	20	12	12	12	1	a	6	SPACE							
7	SPARE		1	20					b	8	SPACE							
9	SPARE		1	20					a	10	SPACE							
11	SPACE								b	12	SPACE							
13	SPACE								a	14	SPACE							
15	SPACE								b	16	SPACE							
17	SPACE								a	18	SPACE							
19	SPACE								b	20	SPACE							
21	SPACE								a	22	MAIN CIRCUIT BREAKER	–	2	80				
23	SPACE								b	24								

CONNECTED LOAD (KVA) øA | øB | øC

EQUIPMENT SERVED	CONNECTED LOAD	LF	DF	DEMAND LOAD
HEATERS	2.0		1.0	2.0
MISC.	1.8			1.8
TOTAL KVA:				3.8
AMPS:				16

REMARKS:
- PROVIDE TYPE WRITTEN DIRECTORY
- PROVIDE NEUTRAL AND GROUND BARS
- NEMA 3R

RECEIVED
JUN 30 2023
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REV#	DATE	REVISION
-	11-04-22	ISSUED FOR PERMITTING
-	02-23-23	ISSUED FOR CONSTRUCTION

2651 FAU CAMPUS BLVD, SUITE A
MELBOURNE, FL 32935
TEL. 321.253.1221
WWW.CEGENGINEERING.COM
CONSTRUCTION ENGINEERING GROUP Consulting Engineers

TEN OAKS SOLAR
NEW PHOTOVOLTAIC SYSTEM
6160 Ten Oaks Rd, Clarksville, MD 21029

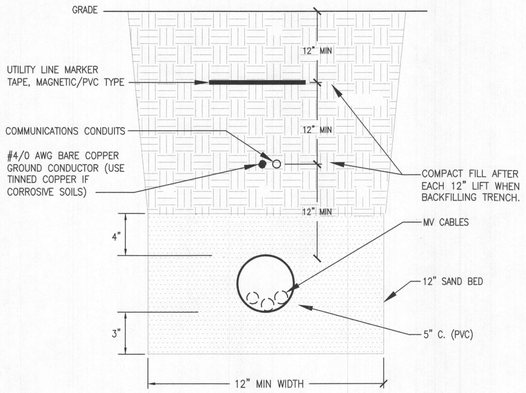
DRAWING TITLE
SCHEDULES

ENGINEER OF RECORD

MARYLAND
PROFESSIONAL ENGINEER
NO. 42678

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 42678, EXPIRATION DATE: 2024-09-12.

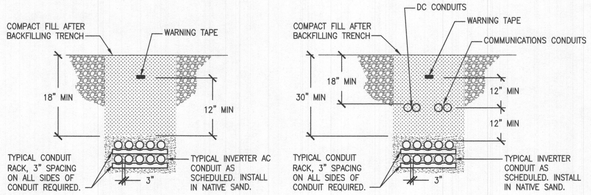
DATE: 11-04-22
SCALE: AS NOTED
PROJ. NO. : 220214
DESIGNED BY: JNH
DRAWN BY: JNH
CHECKED BY: DEA
DRAWING NO.: PVE-4.2



1 TYPICAL DUCTBANK DETAILS

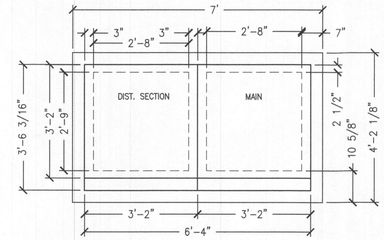
SCALE: N.T.S.

600V SHALL HAVE 18" MINIMUM COVERAGE PER NEC TABLE 300.5, COLUMN 3.
1000V SHALL HAVE 18" MINIMUM COVERAGE PER NEC TABLE 300.50, COLUMN 2.
NUMBER OF CIRCUITS VARY BY LOCATION. PROVIDE 36" COVER UNDER ACCESS ROADS.
PROVIDE 12" SEPARATION BETWEEN AC, DC AND COMMUNICATIONS CONDUITS.



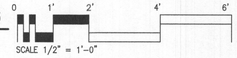
2 TYPICAL TRENCH DETAILS

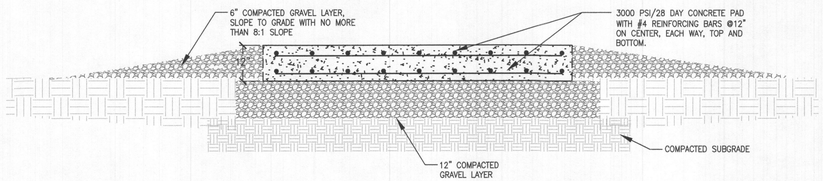
SCALE: NTS



3 SWITCHBOARD PAD CUTOUT DIMENSIONS

SCALE: 1/2" = 1'-0"



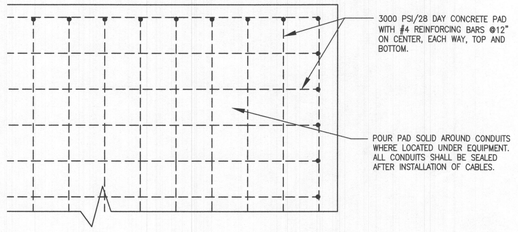


4 TYPICAL CONCRETE PAD SECTION

SCALE: 1/2" = 1'-0"

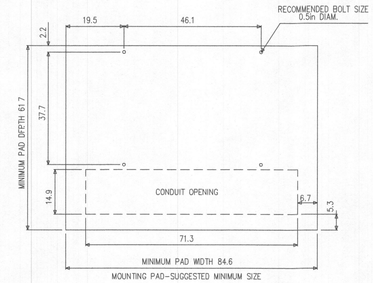
CONCRETE PAD:

1. CONCRETE: ALL CONCRETE DESIGN AND PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 318 AND ACI 301, LATEST EDITIONS. CONCRETE 28 DAY COMPRESSIVE STRENGTH AND PROPERTIES SHALL BE: fc 3000 PSI, SLUMP 5"(±1"), AGGREGATE 3/4". SUBMIT DESIGN MIXES FOR APPROVAL MAX. WATER/CEMENT RATIO 0.57. LAP SPLICE 40 BAR DIAMETERS U.O.N. TYPICAL CLEAR COVER TO REINFORCING U.O.N. 3" EXPOSED TO EARTH.
2. REINFORCING STEEL: ASTM A615 GRADE 60, DEFORMED ALL FOUNDATION AND SLAB REINFORCING TO BE SUPPORTED BY BRICKS OR STANDEES.
3. DESIGN LOADS, AS SCHEDULED.
4. VERIFY CONDUIT OPENING WINDOWS WITH INVERTER MANUFACTURER PRIOR TO CONSTRUCTION. INSTALL ANCHORAGE DEVICES PER MANUFACTURERS REQUIREMENTS.
5. COMPACT SUBGRADE TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.



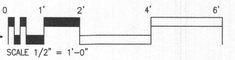
5 TYPICAL CONCRETE PAD PLAN

SCALE: 1/2" = 1'-0"

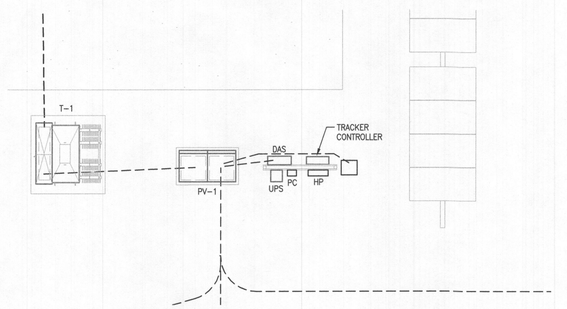


6 TRANSFORMER PAD CUTOUT DIMENSIONS

SCALE: 1/2" = 1'-0"

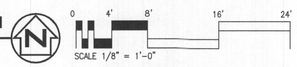


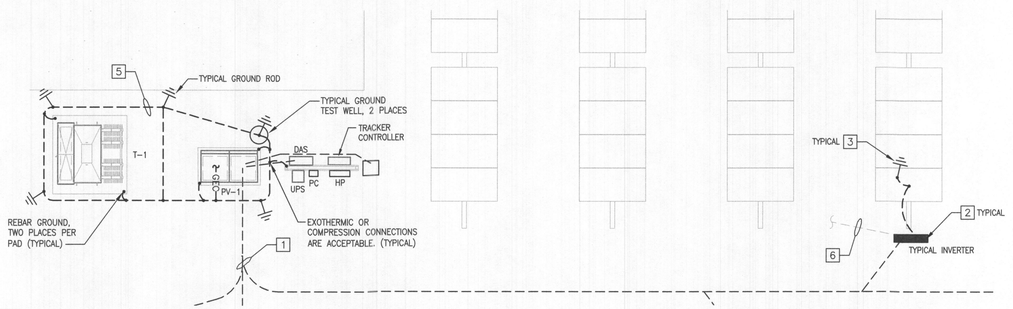
PAD DIMENSIONS SHALL BE ADJUSTED ONCE FINAL EQUIPMENT SELECTION IS COMPLETED. PROVIDE SPARE CONDUITS FOR EACH UNDERGROUND AC FEEDER AND COMMUNICATIONS CONDUIT. COORDINATE WITH SHOP DRAWINGS.



7 ENLARGED EQUIPMENT PLAN

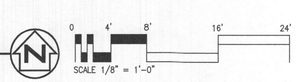
SCALE: 1/8" = 1'-0"





8 PARTIAL GROUNDING PLAN

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



GROUNDING NOTES:

1. EQUIPMENT GROUNDING CONDUCTOR RUN WITH EACH INVERTER OUTPUT CIRCUIT FROM INVERTER TO AC CONSOLIDATION PANEL AS SCHEDULED. (NOT ALL SHOWN.)
2. BOND #6 INSULATED COPPER FROM INVERTER EQUIPMENT GROUNDING TERMINAL TO NEW LAY IN TYPE GROUND LUG AT MODULE RACKING STRUCTURE COLUMN AND INVERTER RACKING STRUCTURE COLUMN.
3. BOND #6 INSULATED COPPER FROM RACKING SUPPORT COLUMN TO SUPPLEMENTAL GROUND ROD WITH LAY IN TYPE LUG. MINIMUM ONE GROUND ROD PER RACKING SUB-ARRAY.
4. BOND NON-CONTINUOUS RACKS WITH #6 GROUNDING STRAPS TO ENSURE ALL RACKS WITHIN ROW ARE ADEQUATELY BONDED.
5. BURIED #4/0 AWG BARE CU GROUNDING ELECTRODE CONDUCTOR. GROUND RING SHALL ENCIRCLE THE EQUIPMENT PAD BURIED 18" BELOW GRADE.
6. ROUTE #6 CU EGC IN EACH DC JUMPER RACEWAY AND BOND INVERTER SUPPORT STRUCTURES AND MODULE RACKING STRUCTURES TO FORM A CONTINUOUSLY GROUNDED SYSTEM.

REV#	DATE	REVISION
-	11-04-22	ISSUED FOR PERMITTING
-	02-23-23	ISSUED FOR CONSTRUCTION

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TEN OAKS SOLAR
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6160 Ten Oaks Rd, Clarksville, MD 21029

DRAWING TITLE
DETAILS

ENGINEER OF RECORD

MARYLAND
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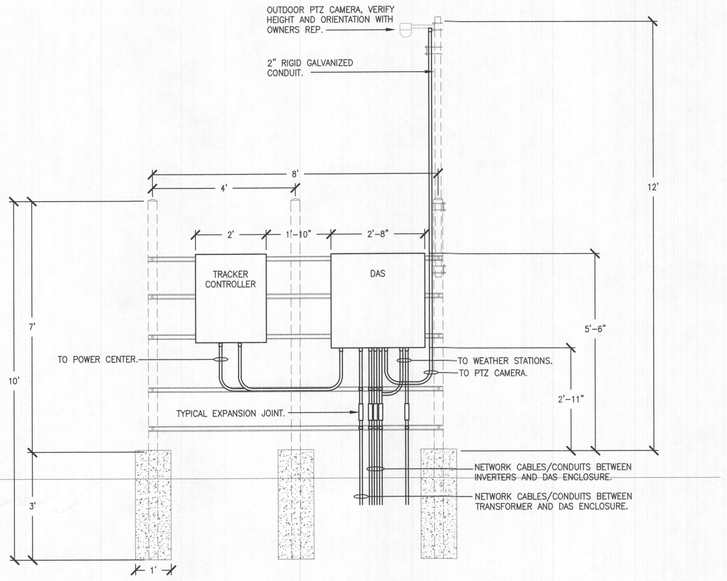
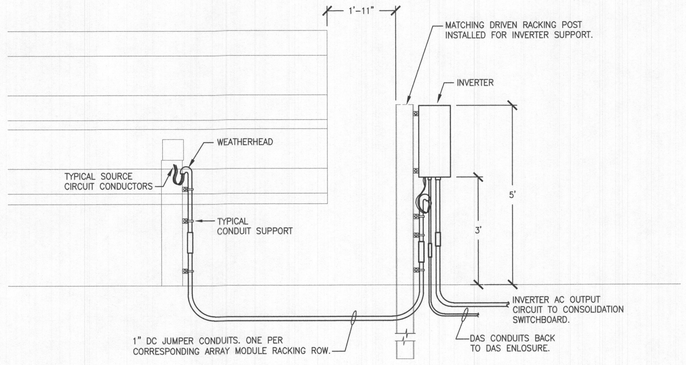
DATE:	11-04-22
SCALE:	AS NOTED
PROJ. NO. :	220214
DESIGNED BY:	JNH
DRAWN BY:	JNH
CHECKED BY:	DEA
DRAWING NO.:	PVE-5.1



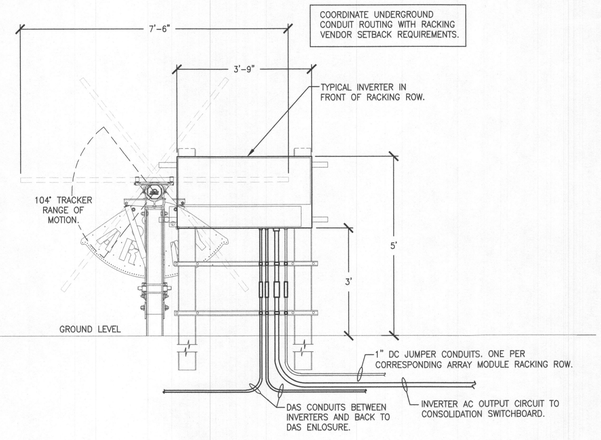
1 EQUIPMENT RACK ELEVATION

SCALE: 1/2" = 1'-0"



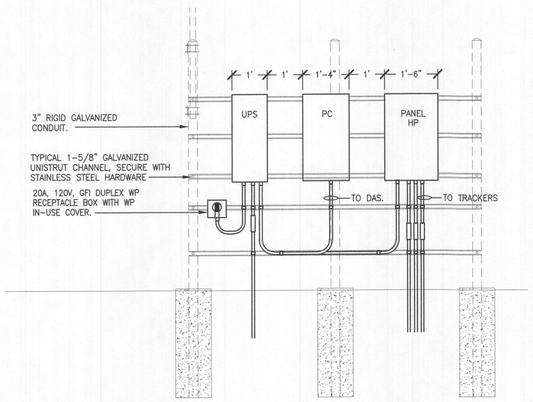
2 INVERTER SECTION

SCALE: 1/2" = 1'-0"



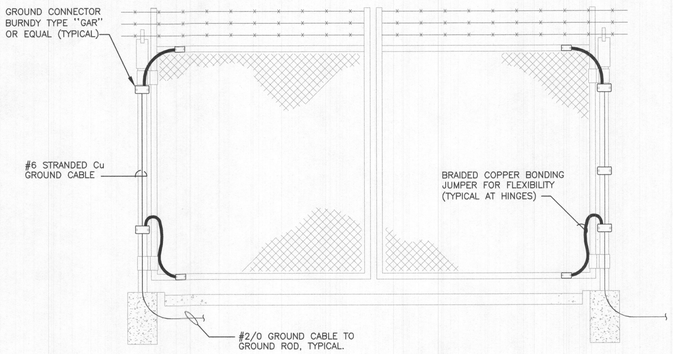
3 INVERTER ELEVATION

SCALE: 1/2" = 1'-0"



4 EQUIPMENT RACK ELEVATION

SCALE: 1/2" = 1'-0"



5 GATE GROUNDING DETAILS

SCALE: NONE

REV#	DATE	REVISION
-	11-04-22	ISSUED FOR PERMITTING
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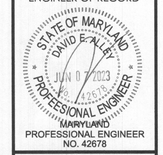
DRAWING TITLE
SECTIONS & ELEVATIONS

ENGINEER OF RECORD



MARYLAND
PROFESSIONAL ENGINEER
NO. 42678

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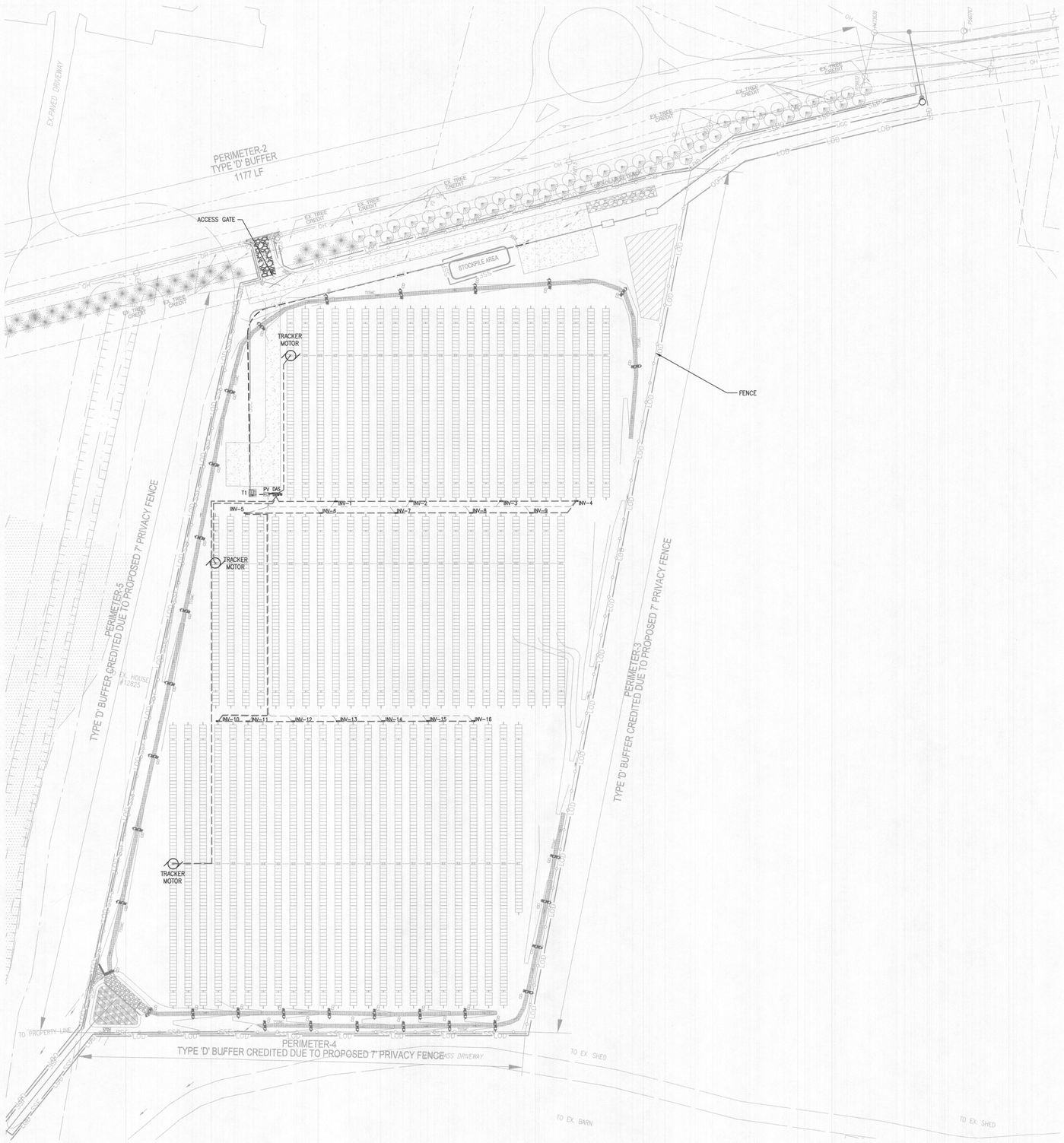
DATE:	11-04-22
SCALE:	AS NOTED
PROJ. NO.:	220214
DESIGNED BY:	JNH
DRAWN BY:	JNH
CHECKED BY:	DEA
DRAWING NO.:	PVE-5.2

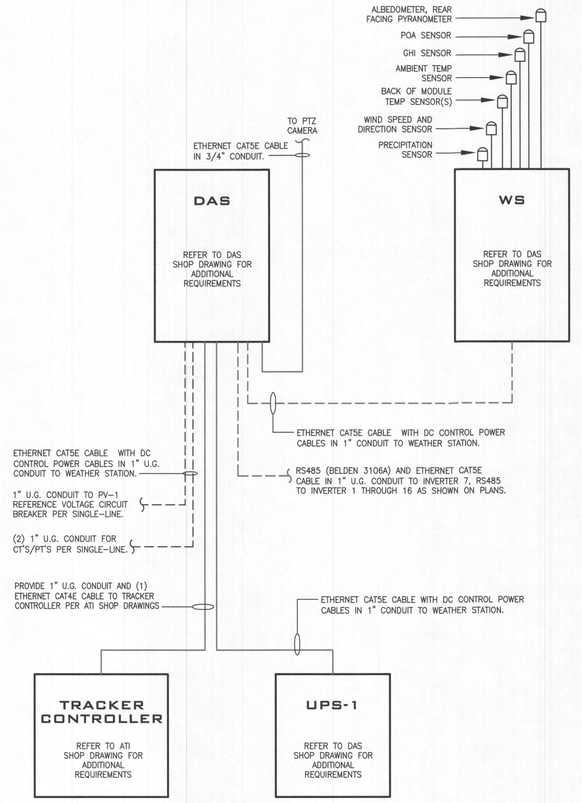


PV SITE PLAN

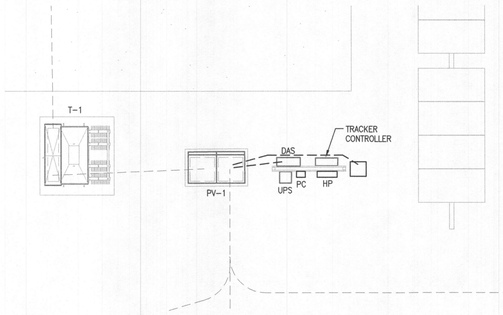
0 30' 60' 120' 180'
SCALE 1" = 60'

DAS NOTES:

1. CONNECT CABLES AT INVERTER DATA CONNECTION PORT INSIDE INVERTER. ROUTE CABLES THROUGH CABLE GLANDS.
2. SENSORS SHALL NOT BE INSTALLED IN A LOCATION THAT MAY CAUSE SHADING OF MODULES. FIELD LOCATE WITH DEVELOPER APPROVAL PRIOR TO INSTALLING.
3. CAT5E SHIELD CONTINUITY SHOULD BE MAINTAINED FOR THE ENTIRE LENGTH OF THE DAISY CHAIN AND SHOULD BE CONNECTED TO GROUND AT THE DAS. THE SHIELD SHOULD NOT CONNECT TO ANY OF THE INVERTERS, METERS, OR SENSORS.
4. INVERTER MODBUS ID'S SHALL BE SET PER DAS SHOP DRAWINGS.
5. INSTALL ETHERNET CARDS IN INVERTERS PER INVERTER INSTALLATION MANUAL.
6. CONNECT CABLES AT INVERTER DATA CONNECTION PORT INSIDE INVERTER. ROUTE CABLES THROUGH CABLE GLANDS.



PRIOR TO PURCHASING ANY CABLES, CONTRACTOR SHALL REVIEW SELECTED COMMUNICATIONS VENDOR'S (MONITORING/DAS) SHOP DRAWINGS FOR VERIFICATION OF THE CORRECT CABLES AND CONDUITS REQUIRED FOR THE INVERTERS USED ON THIS SPECIFIC PROJECT. THERE ARE MULTIPLE VENDORS WITH DIFFERENT CABLING REQUIREMENTS (ETHERNET, RS-485) THAT USE DIFFERENT COMMUNICATION PROTOCOLS (MODBUS TCP, MODBUS RTU). FIELD VERIFY ALL REQUIREMENTS WITH EPC, INVERTER MANUFACTURER AND THE COMMUNICATIONS VENDOR.



ENLARGED DAS EQUIPMENT PLAN

0 4' 8' 16' 24'
SCALE 1/8" = 1'-0"

RECEIVED
JUN 30 2023
LICENSES & PERMITS DIVISION

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TEN OAKS SOLAR
NEW PHOTOVOLTAIC SYSTEM
6160 Ten Oaks Rd, Clarksville, MD 21029

DRAWING TITLE
DATA ACQUISITION PLAN

ENGINEER OF RECORD

STATE OF MARYLAND · DAVID E. ALEY · JUN 07 2023 · PROFESSIONAL ENGINEER

MARYLAND
PROFESSIONAL ENGINEER
NO. 42678

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DATE:	11-04-22
SCALE:	AS NOTED
PROJ. NO.:	220214
DESIGNED BY:	JNH
DRAWN BY:	JNH
CHECKED BY:	DEA
DRAWING NO.:	PVE-6.1

GENERAL NOTES:

1. LABELS AND MARKINGS SHALL BE APPLIED TO ALL APPROPRIATE COMPONENTS IN ACCORDANCE WITH THE NEC AND ANSI Z535.4-2011.
2. LABELS AND MARKINGS SHALL BE PERMANENTLY AFFIXED IN CONSPICUOUS SPACES TO THE APPROPRIATE EQUIPMENT ENCLOSURES, RACEWAYS AND/OR WIRING METHODS AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT WHERE THEY ARE INSTALLED.
3. SOLAR MODULES AND INVERTER(S) ARE SUPPLIED FROM THE MANUFACTURER WITH SUPPLEMENTAL MARKINGS PRE-APPLIED TO MEET ADDITIONAL REQUIREMENTS OF THE NEC.
4. ADJUST AND REPLACE "#" ON LABELS PER LABEL DESCRIPTIONS AND MATCHING THE SINGLE LINE DIAGRAM ON PVE-4.1. EXAMPLE, REPLACE INV-# WITH INV-1.
5. LOCATE FENCE SIGNAGE AT GATE AND ALONG FENCE PER NESC RULE 110A1.

4" × 3"

INV-#

125KW PV INVERTER

MAX AC OUTPUT CURRENT: 120.3A
NOMINAL AC VOLTAGE: 600/346V

RATED MAX POWER-POINT CURRENT: 141A
RATED MAX POWER-POINT VOLTAGE: 1124V
MAXIMUM SYSTEM VOLTAGE: 1124V
MAXIMUM CIRCUIT CURRENT: 187A

A PHENOLIC LABEL — 3 REQUIRED
SCALE: 1" = 1" — ONE PER 11 STRING INVERTER

4" × 3"

INV-#

125KW PV INVERTER

MAX AC OUTPUT CURRENT: 120.3A
NOMINAL AC VOLTAGE: 600/346V

RATED MAX POWER-POINT CURRENT: 129A
RATED MAX POWER-POINT VOLTAGE: 1124V
MAXIMUM SYSTEM VOLTAGE: 1124V
MAXIMUM CIRCUIT CURRENT: 170A

B PHENOLIC LABEL — 13 REQUIRED
SCALE: 1" = 1" — ONE PER 10 STRING INVERTER

4" × 3"

PV-1

PHOTOVOLTAIC 2500A AC SWITCHBOARD

MAX AC OPERATING CURRENT: 1925A
NOMINAL AC VOLTAGE: 600/346V

FED FROM
TRANSFORMER T-1 AND
INVERTERS INV-1 THROUGH INV-16

C PHENOLIC LABEL — 1 REQUIRED
SCALE: 1" = 1" — ONE FOR AC SWITCHBOARD

4" × 3"

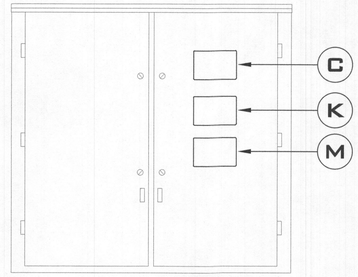
HP

HOUSE PANEL

NOMINAL AC VOLTAGE: 120/240V

FED FROM
AC CONSOLIDATION SWITCHBOARD PV-1

D PHENOLIC LABEL — 1 REQUIRED
SCALE: 1" = 1" — ONE FOR HOUSE PANEL



SWBD LABELING
SCALE: NONE

4" × 1-1/2"

T-1

PRIMARY VOLTAGE: 7.62/13.2KV
SECONDARY VOLTAGE: 600/346V
RATING: 2200KVA

E PHENOLIC LABEL — 1 REQUIRED
SCALE: 1" = 1" — ONE FOR MV TRANSFORMER

4" × 1-1/2"

DAS

COMMUNICATIONS ENCLOSURE
DATA ACQUISITION SYSTEM

F PHENOLIC LABEL — 1 REQUIRED
SCALE: 1" = 1" — ONE FOR DAS ENCLOSURE

4" × 1-1/2"

UPS-#

DATA ACQUISITION SYSTEM
UNINTERRUPTIBLE POWER SUPPLY

G PHENOLIC LABEL — 2 REQUIRED
SCALE: 1" = 1" — ONE PER UPS

4" × 1-1/2"

WS-#

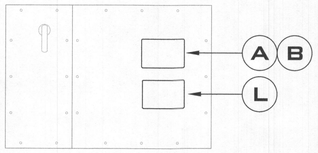
WEATHER STATION

H PHENOLIC LABEL — 2 REQUIRED
SCALE: 1" = 1" — ONE PER WEATHER STATION

4" × 1-1/2"

ROW #

I PHENOLIC LABEL
SCALE: 1" = 1" — PLACE ON EACH END OF ALL ROWS



INVERTER LABELING
SCALE: NONE

4" × 2"

⚠ WARNING

PV POWER SOURCE
TURN OFF PHOTOVOLTAIC
AC DISCONNECT PRIOR TO
WORKING INSIDE ENCLOSURE

J LABEL — 1 REQUIRED
SCALE: 1" = 1" — ONE FOR MV TRANSFORMER

4" × 2"

⚠ CAUTION

PHOTOVOLTAIC SYSTEM
CIRCUITS ARE BACKFED

K LABEL — 1 REQUIRED
SCALE: 1" = 1" — ONE PER AC CONSOLIDATION SWITCHBOARD

4" × 4"

⚠ WARNING

ARC FLASH AND SHOCK HAZARD
APPROPRIATE PPE REQUIRED

IF A GROUND FAULT IS INDICATED
NORMALLY GROUNDED CONDUCTORS
MAY BE UNGROUNDED AND ENERGIZED

FLASH HAZARD BOUNDARY: 18 in
RADIANT ENERGY AT 18 INCHES: 10.2 cal/cm2
HAZARD RISK CATEGORY: 3
ARC FLASH BOUNDARY: 52.8 in
MAX SYSTEM VOLTAGE: 1369V

REFER TO NFPA 70E FOR MINIMUM PPE REQUIREMENTS.
DATE ISSUED: 10-18-2022

L LABEL — 16 REQUIRED
SCALE: 1" = 1" — ONE PER INVERTER

4" × 4"

⚠ WARNING

ARC FLASH AND SHOCK HAZARD
APPROPRIATE PPE REQUIRED

DO NOT TOUCH TERMINALS. TERMINALS ON
BOTH THE LINE AND LOAD SIDES MAY BE
ENERGIZED IN THE OPEN POSITION.

DO NOT OPERATE CONTROLS OR OPEN COVERS WITHOUT APPROPRIATE PERSONAL PROTECTION EQUIPMENT. TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE ENCLOSURE. FAILURE TO COMPLY MAY RESULT IN SERIOUS INJURY OR DEATH!

REFER TO NFPA 70E FOR MINIMUM PPE REQUIREMENTS.
DATE ISSUED: 10-18-2022

M LABEL — 2 REQUIRED
SCALE: 1" = 1" — ONE PER AC SWBD & HOUSE PANEL

16" × 8"

⚠ DANGER

HIGH VOLTAGE
KEEP OUT

AUTHORIZED PERSONNEL ONLY

N PRINTED ALUMINUM SIGN — AT EACH GATE
SCALE: 1" = 2" — & EVERY 200' ALONG FENCE

REV#	DATE	REVISION
-	11-04-22	ISSUED FOR PERMITTING
-	02-23-23	ISSUED FOR CONSTRUCTION

CONSTRUCTION ENGINEERING GROUP
Consulting Engineers
2451 EAU GALLIE BLVD, SUITE A
MELBOURNE, FL 32935
TEL: 321.253.1221
WWW.CEGENGINEERING.COM

TEN OAKS SOLAR
NEW PHOTOVOLTAIC SYSTEM
6160 Ten Oaks Rd, Clarksville, MD 21029

DRAWING TITLE
SIGNAGE

ENGINEER OF RECORD

STATE OF MARYLAND
DAVID E. ALLEN
JUN 0 7 2023
42678
PROFESSIONAL ENGINEER
MARYLAND
PROFESSIONAL ENGINEER
NO. 42678

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 42678, EXPIRATION DATE: 2024-06-12.

DATE:	11-04-22
SCALE:	AS NOTED
PROJ. NO. :	220214
DESIGNED BY:	JNH
DRAWN BY:	JNH
CHECKED BY:	DEA
DRAWING NO.:	PVE-7.1