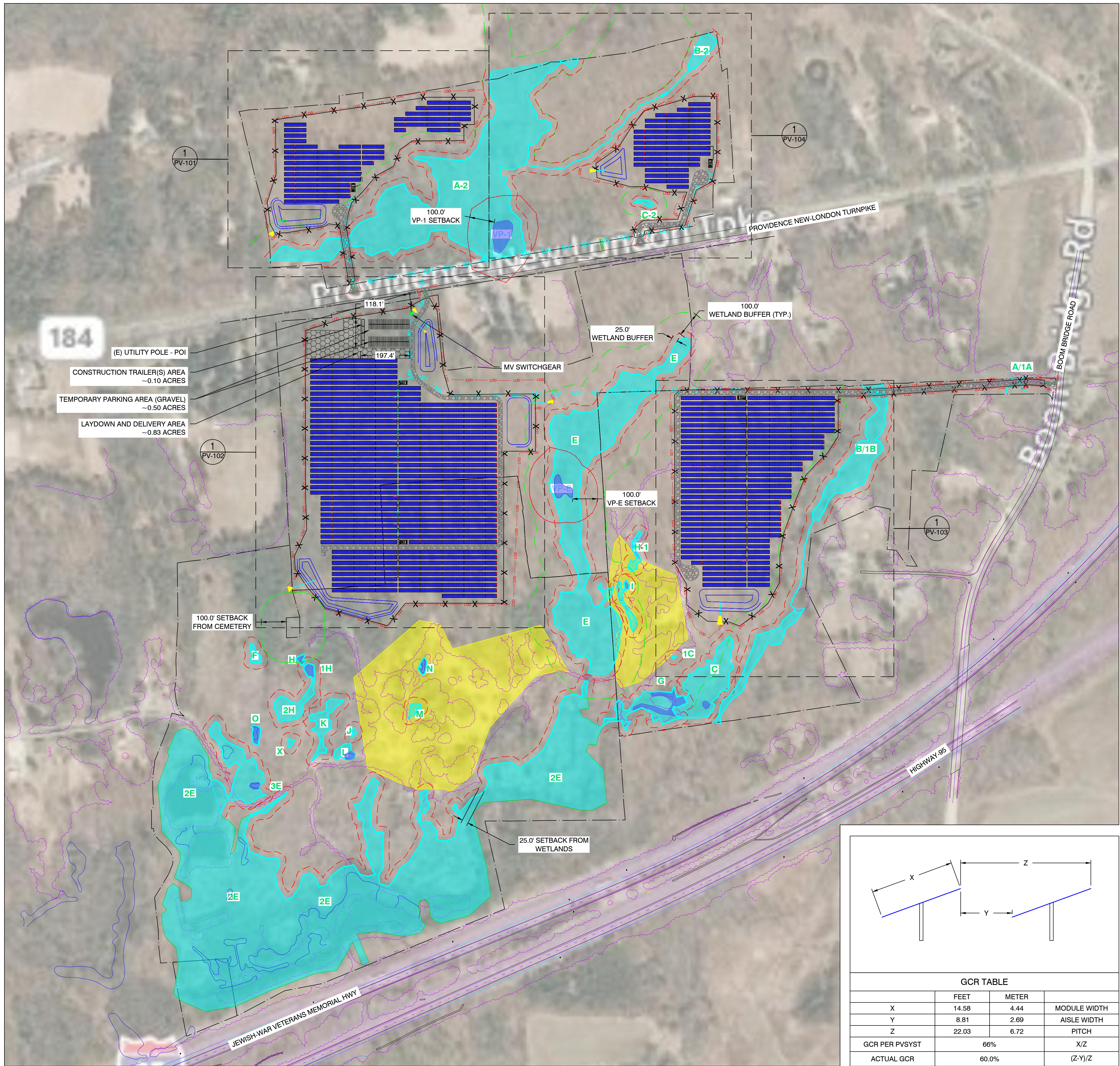
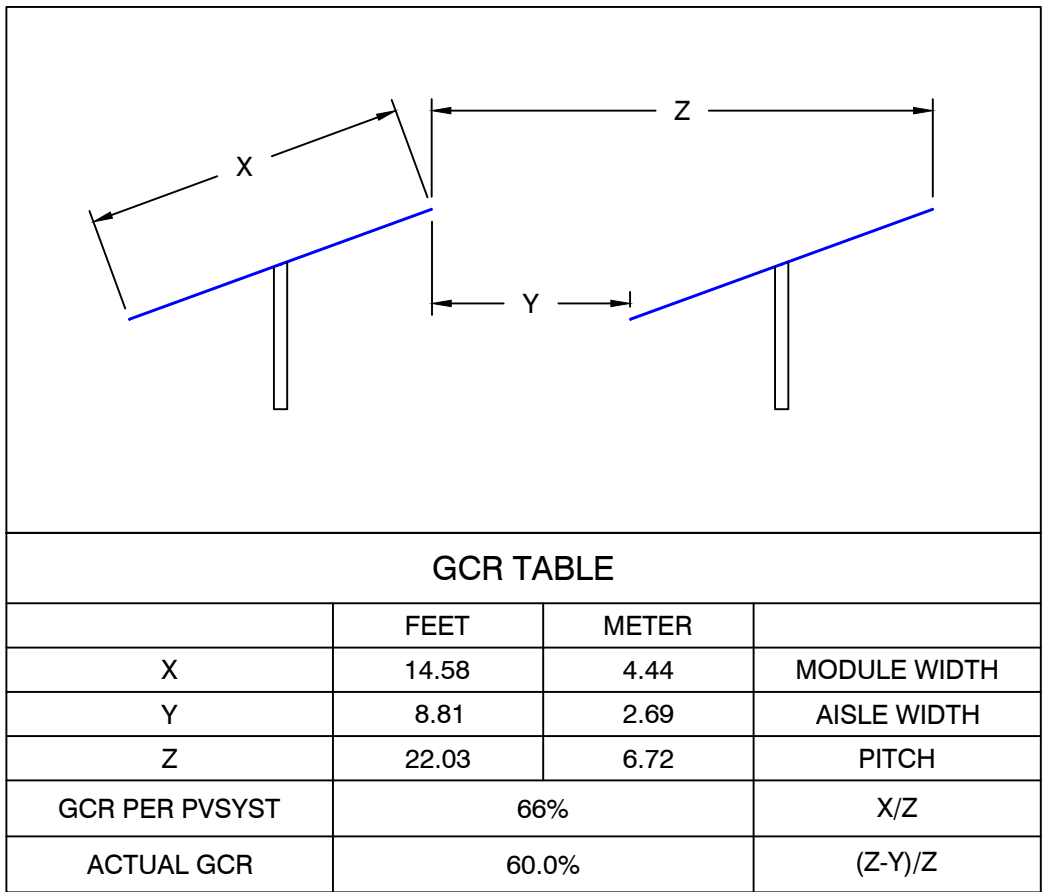


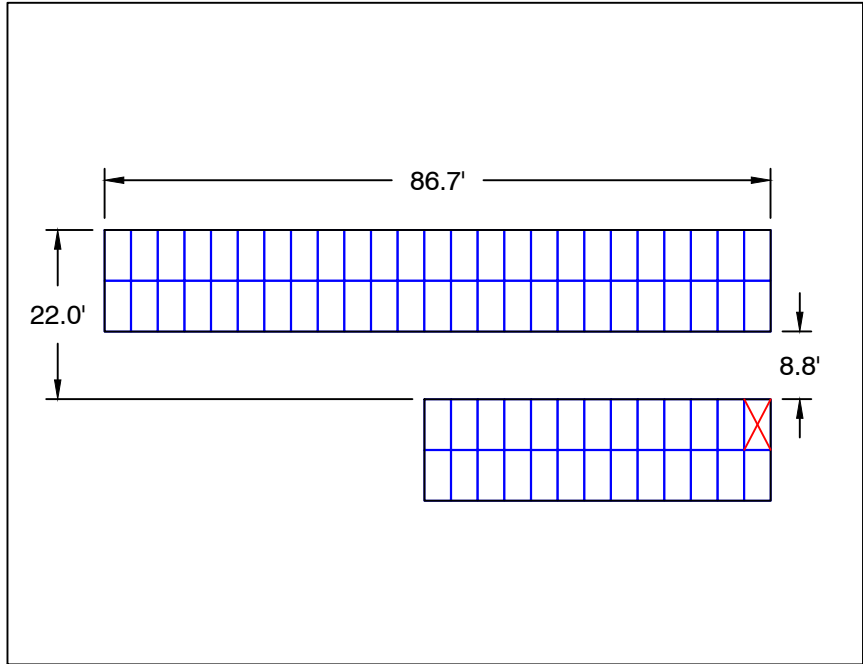


LEGEND	
	2P X 25 HANWHA Q-CELLS 475W @25° TILT
	2P X 13 HANWHA Q-CELLS 475W @25° TILT
	EQUIPMENT RACK (TYP. OF 5) (1) LV SWITCHGEAR (1) MV TRANSFORMER
	SUNGROW 250kW INVERTER (TYP. OF 45)
	EQUIPMENT RACK WITH 2 STRING INVERTERS (TYP. OF 2 LOCATION)
	EQUIPMENT RACK WITH 3 STRING INVERTERS (TYP. OF 7 LOCATIONS)
	EQUIPMENT RACK WITH 4 STRING INVERTERS (TYP. OF 5 LOCATIONS)
	OVERHEAD ELECTRICAL
	UNDERGROUND MEDIUM VOLTAGE CABLE
	UNDERGROUND AC CABLE
	FENCE LINE
	16' ACCESS ROADS
	QUARRY
	WETLANDS
	25' WETLAND BUFFER
	100' WETLAND BUFFER
	VERNAL POOL
	WETLAND ID
	VERNAL POOL ID
	LINE OF DISTURBANCE
	TREE LINES
	STORMWATER BASIN
	PARCEL BOUNDARY
	LAYDOWN AREA

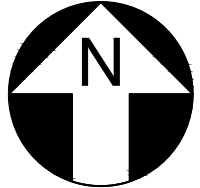
PROJECT DETAILS	
SYSTEM SIZE AC	9,900.00 kW
SYSTEM SIZE DC	14,071.88 kW
DC/AC RATIO	1.42
MODULE MODEL	HANWHA Q CELLS Q.PEAK DUO XL-G10.3/BFG 475W
MODULE RATING	475 W
TOTAL MODULE QTY	28,625
# OF MODULES PER STRINGS	25
TOTAL # OF STRINGS	1,185
INVERTER MODEL	SUNGROW SG250HX
INVERTER RATING	250 kW
TOTAL INVERTER QTY	45
RACKING	GROUND MOUNT FIXED TILT
TILT ANGLE	25°
AZIMUTH	180°
PITCH	22.03'
INTER ROW SPACING	8.81'
GCR	60%
FENCED AREA	40.34 ACRES
PROPERTY AREA	157.36 ACRES
LINE OF DISTURBANCE AREA	43.56 ACRES



GCR TABLE			
	FEET	METER	
X	14.58	4.44	MODULE WIDTH
Y	8.81	2.69	aisle width
Z	22.03	6.72	PITCH
GCR PER PVSYST	66%		X/Z
ACTUAL GCR	60.0%		(Z-Y)/Z

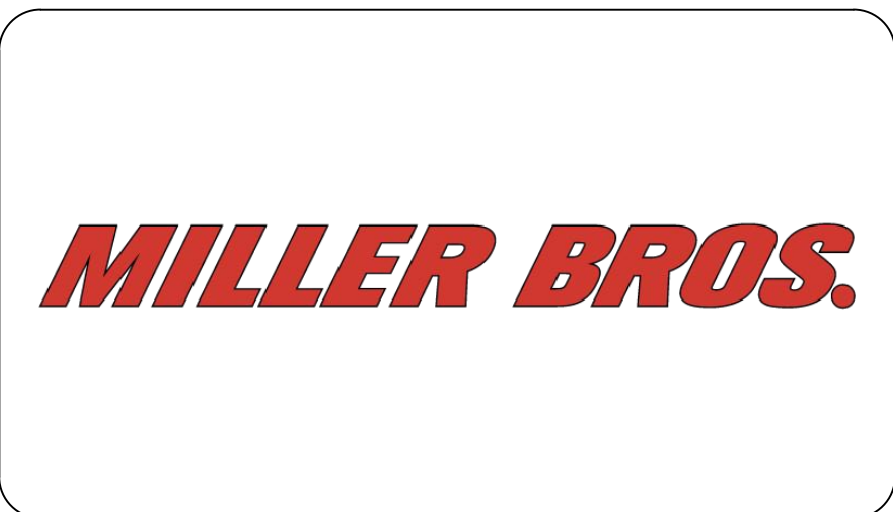
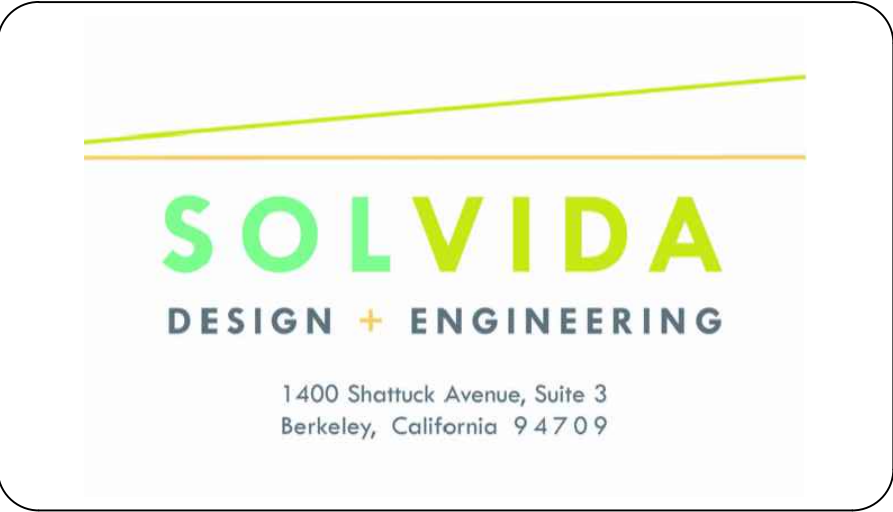


1 ARRAY PLAN
PV-100 Scale: 1"=200'



2 GCR DETAILS
PV-100 Scale: NTS

3 TYP. MODULE RACKS
PV-100 Scale: 1"=25'



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LON: 71.821514°W

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REV. NO	DESCRIPTION	DATE

SHEET TITLE:
PRELIMINARY LAYOUT

PROJ. MGR.

PROJ. ENGR.
SDE

DATE:
05/14/21

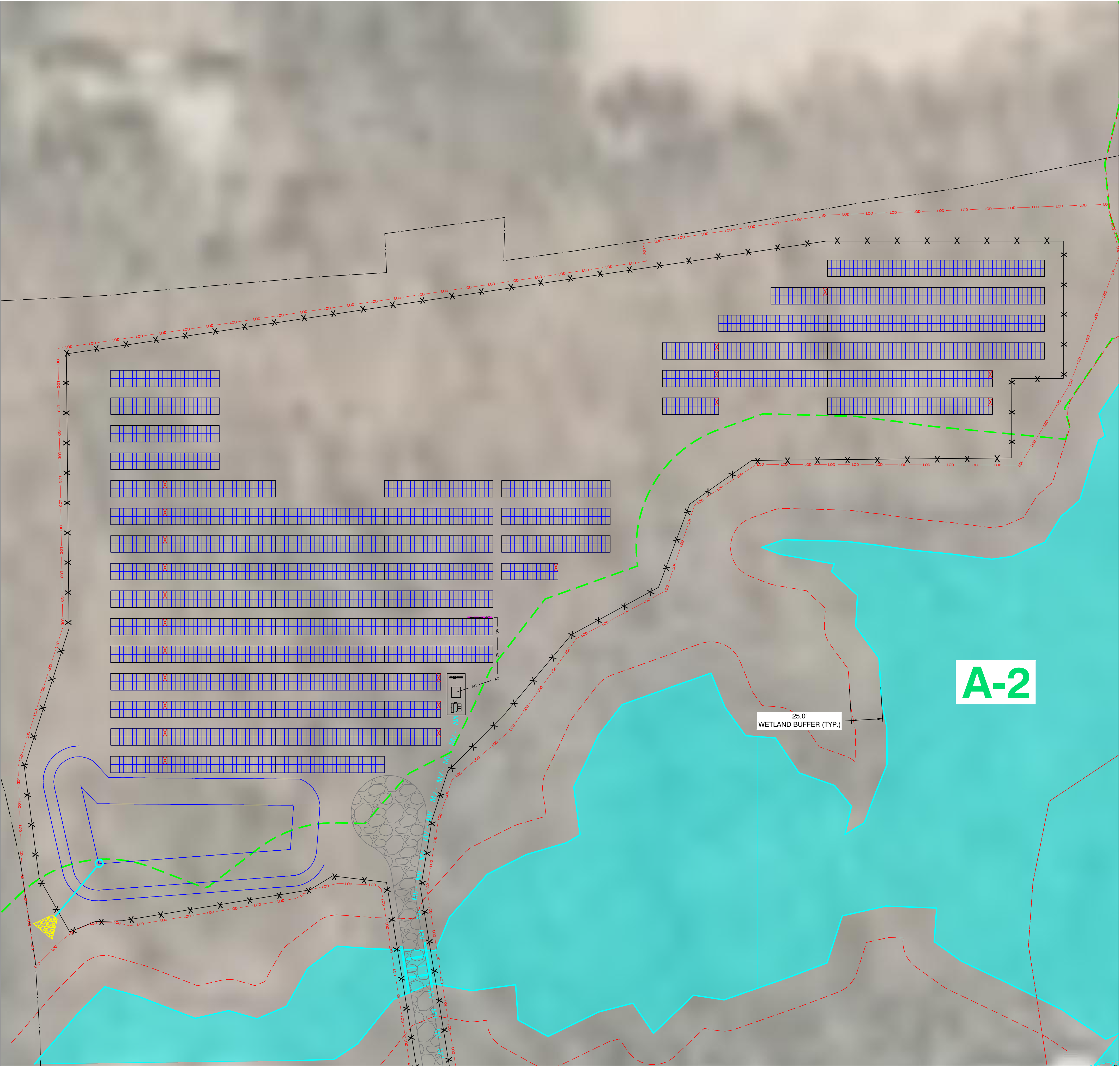
DRAWN BY:
LR

CHECKED BY:

SCALE:
AS SHOWN

DRAWING NO.

PV-100



LEGEND	
	2P X 25 HANWHA Q-CELLS 475W @25° TILT
	2P X 13 HANWHA Q-CELLS 475W @25° TILT
	EQUIPMENT RACK (1) LV SWITCHGEAR (1) MV TRANSFORMER
	SUNGROW 250kW INVERTER
	EQUIPMENT RACK WITH 2 STRING INVERTERS (TYP. OF 2 LOCATION)
	EQUIPMENT RACK WITH 3 STRING INVERTERS (TYP. OF 7 LOCATIONS)
	EQUIPMENT RACK WITH 4 STRING INVERTERS (TYP. OF 5 LOCATIONS)
	OVERHEAD ELECTRICAL
	UNDERGROUND MEDIUM VOLTAGE CABLE
	UNDERGROUND AC CABLE
	FENCE LINE
	16' ACCESS ROADS
	QUARRY
	WETLANDS
	25' WETLAND BUFFER
	100' WETLAND BUFFER
	VERNAL POOL
	B/1B WETLAND ID
	VP-1 VERNAL POOL ID
	LINE OF DISTURBANCE
	TREE LINES
	STORMWATER BASIN
	PARCEL BOUNDARY

DESIGN + ENGINEERING

1400 Shattuck Avenue, Suite 3
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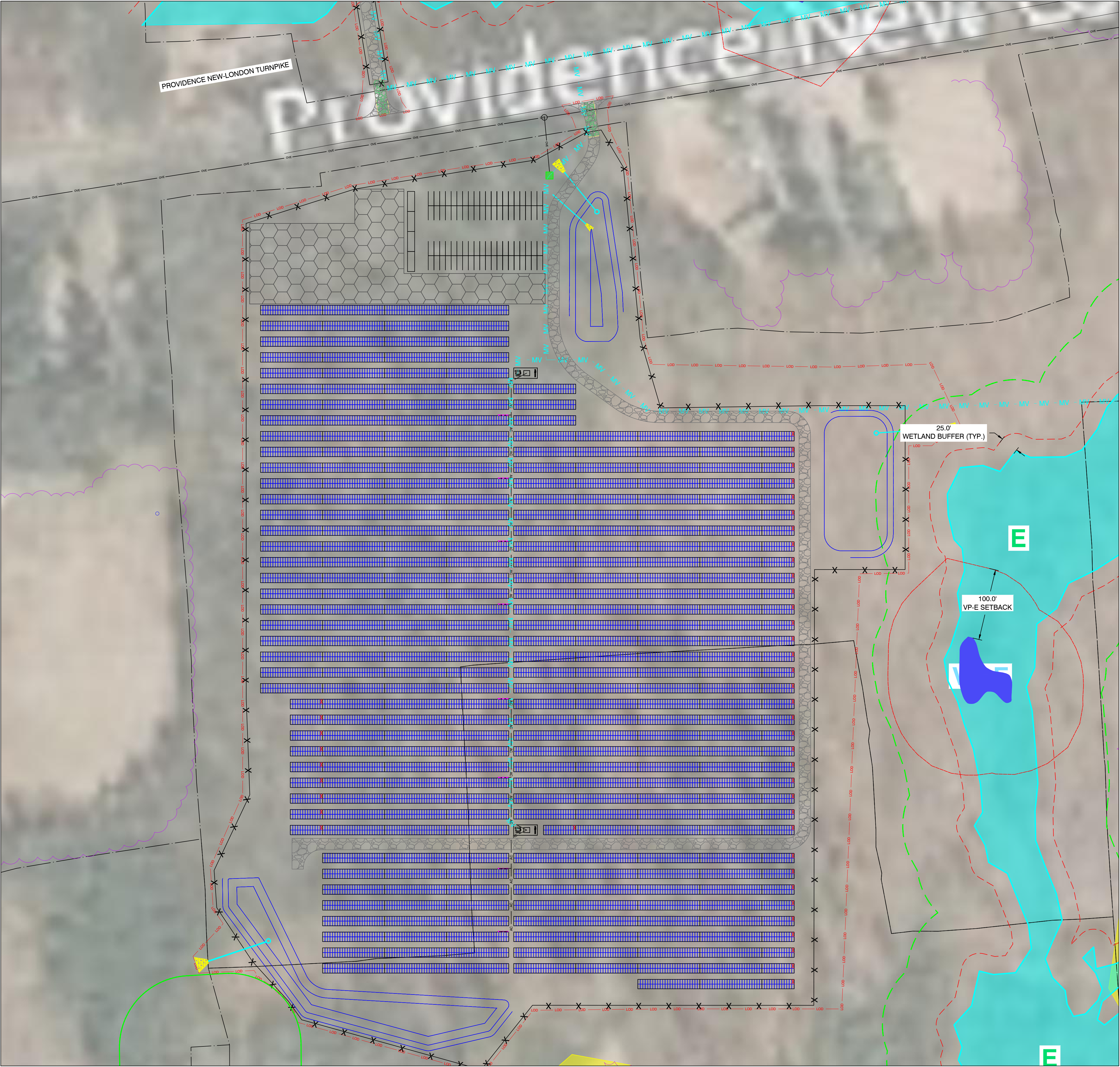
SHEET TITLE:

ARRAY DETAILS

PROJ. MGR.	PROJ. ENGR. SDE	DATE: 05/14/21
DRAWN BY: LR	CHECKED BY:	SCALE: AS SHOWN

DRAWING NO.

PV-101



LEGEND	
	2P X 25 HANWHA Q-CELLS 475W @25° TILT
	2P X 13 HANWHA Q-CELLS 475W @25° TILT
	EQUIPMENT RACK (1) LV SWITCHGEAR (1) MV TRANSFORMER
	SUNGROW 250kW INVERTER
	EQUIPMENT RACK WITH 2 STRING INVERTERS (TYP. OF 2 LOCATION)
	EQUIPMENT RACK WITH 3 STRING INVERTERS (TYP. OF 7 LOCATIONS)
	EQUIPMENT RACK WITH 4 STRING INVERTERS (TYP. OF 5 LOCATIONS)
	OVERHEAD ELECTRICAL
	UNDERGROUND MEDIUM VOLTAGE CABLE
	UNDERGROUND AC CABLE
	FENCE LINE
	16' ACCESS ROADS
	QUARRY
	WETLANDS
	25' WETLAND BUFFER
	100' WETLAND BUFFER
	VERNAL POOL
	WETLAND ID
	VERNAL POOL ID
	LINE OF DISTURBANCE
	TREE LINES
	STORMWATER BASIN
	PARCEL BOUNDARY
	LAYDOWN AREA

DESIGN + ENGINEERING

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Berkeley, California 94709

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REV. NO	DESCRIPTION	DATE

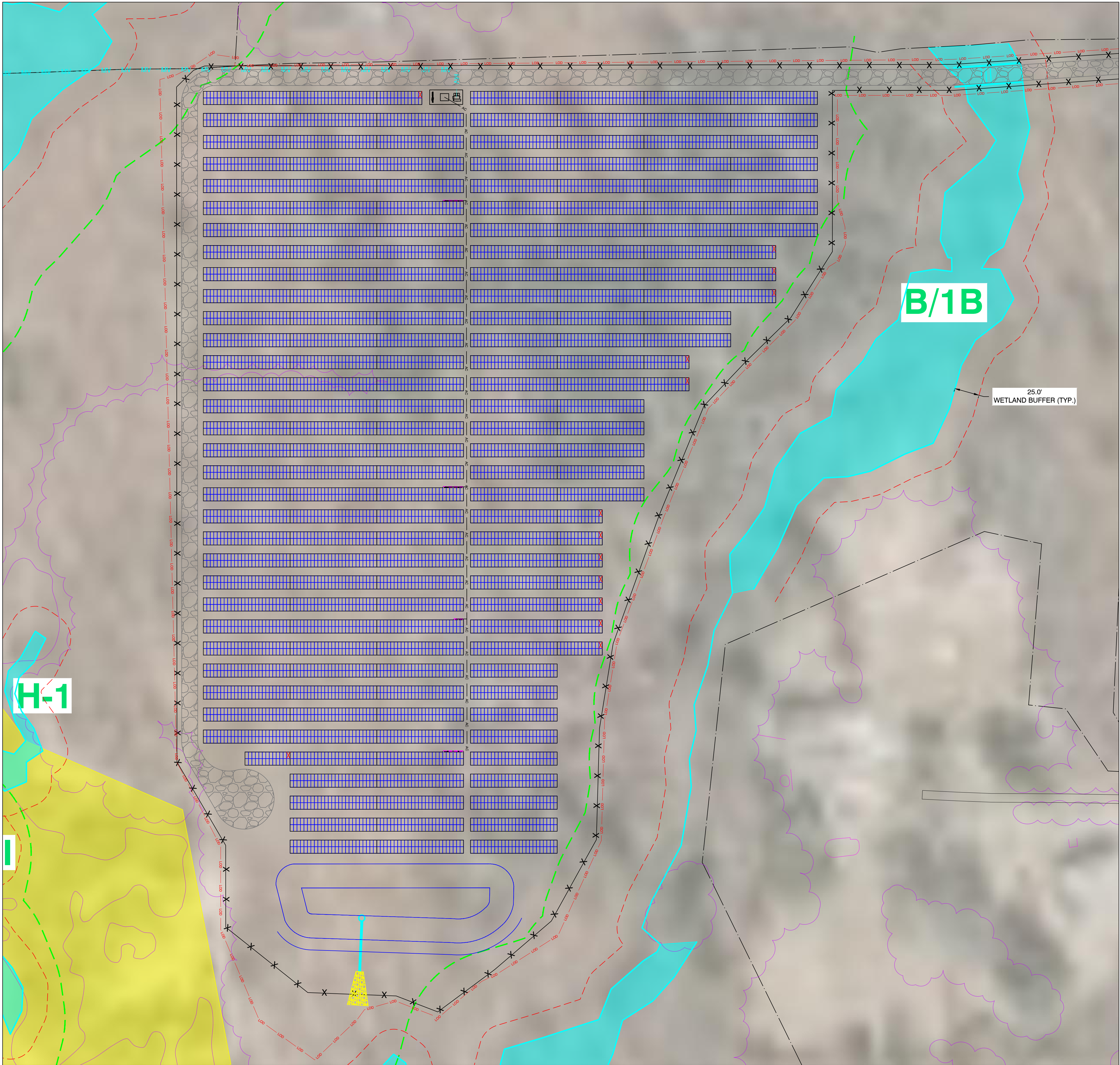
SHEET TITLE:

ARRAY DETAILS

PROJ. MGR.	PROJ. ENGR. SDE	DATE: 05/14/21
DRAWN BY: LR	CHECKED BY:	SCALE: AS SHOWN

DRAWING NO.

PV-102



LEGEND	
	2P X 25 HANWHA Q-CELLS 475W @25° TILT
	2P X 13 HANWHA Q-CELLS 475W @25° TILT
	EQUIPMENT RACK (1) LV SWITCHGEAR (1) MV TRANSFORMER
	SUNGROW 250kW INVERTER
	EQUIPMENT RACK WITH 2 STRING INVERTERS (TYP. OF 2 LOCATION)
	EQUIPMENT RACK WITH 3 STRING INVERTERS (TYP. OF 7 LOCATIONS)
	EQUIPMENT RACK WITH 4 STRING INVERTERS (TYP. OF 5 LOCATIONS)
	OVERHEAD ELECTRICAL
	UNDERGROUND MEDIUM VOLTAGE CABLE
	UNDERGROUND AC CABLE
	FENCE LINE
	16' ACCESS ROADS
	QUARRY
	WETLANDS
	25' WETLAND BUFFER
	100' WETLAND BUFFER
	VERNAL POOL
	B/1B WETLAND ID
	VP-1 VERNAL POOL ID
	LINE OF DISTURBANCE
	TREE LINES
	STORMWATER BASIN
	PARCEL BOUNDARY

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REV. NO	DESCRIPTION	DATE

SHEET TITLE:

ARRAY DETAILS

PROJ. MGR.	PROJ. ENGR. SDE	DATE: 05/14/21
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DRAWING NO.

PV-103



LEGEND	
	2P X 27 LONGI SOLAR 455W @25° TILT
	2P X 14 LONGI SOLAR 455W @25° TILT
	EQUIPMENT RACK (1) LV SWITCHGEAR (1) MV TRANSFORMER
	SUNGROW 250kW INVERTER
	EQUIPMENT RACK WITH 1 STRING INVERTER
	EQUIPMENT RACK WITH 2 STRING INVERTERS
	EQUIPMENT RACK WITH 3 STRING INVERTERS
	EQUIPMENT RACK WITH 4 STRING INVERTERS
	OVERHEAD ELECTRICAL
	UNDERGROUND MEDIUM VOLTAGE CABLE
	UNDERGROUND AC CABLE
	FENCE LINE
	16' ACCESS ROADS
	QUARRY
	WETLANDS
	25' WETLAND BUFFER
	100' WETLAND BUFFER
	VERNAL POOL
	WETLAND ID
	VERNAL POOL ID
	LINE OF DISTURBANCE
	TREE LINES
	STORMWATER BASIN
	PARCEL BOUNDARY

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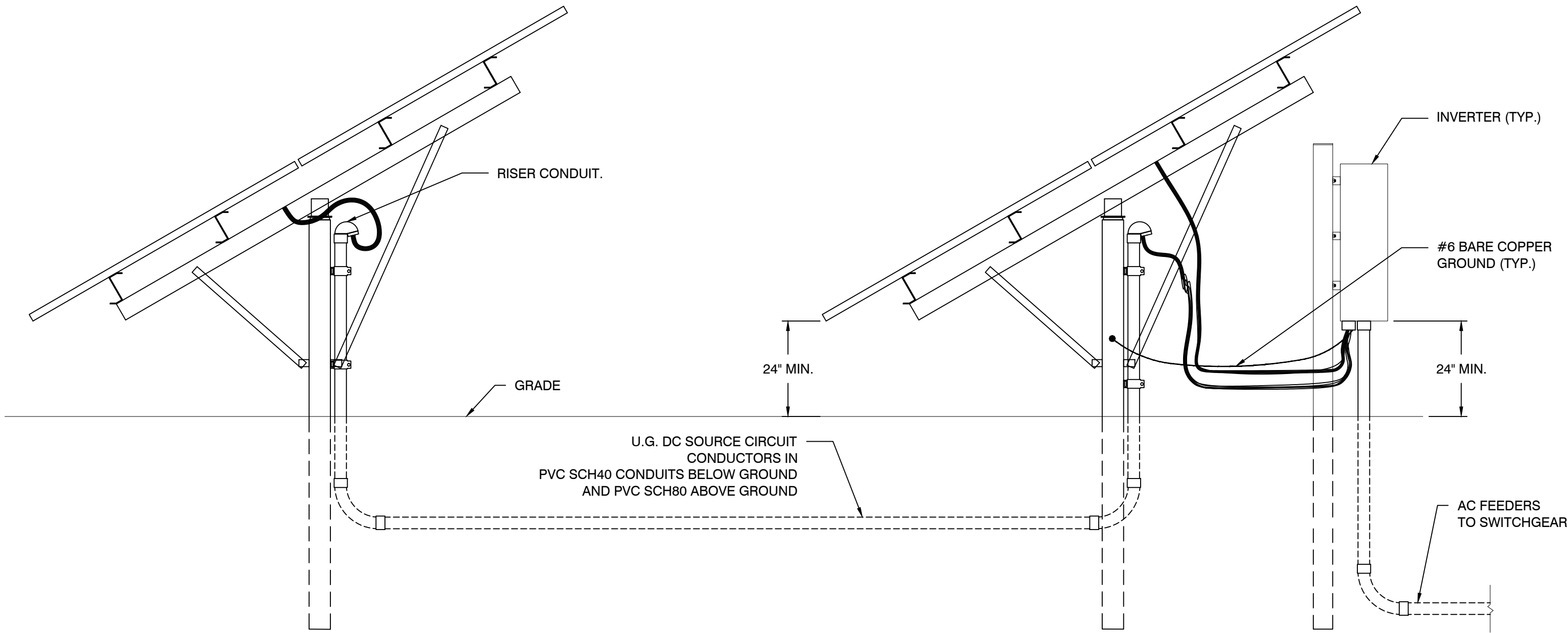
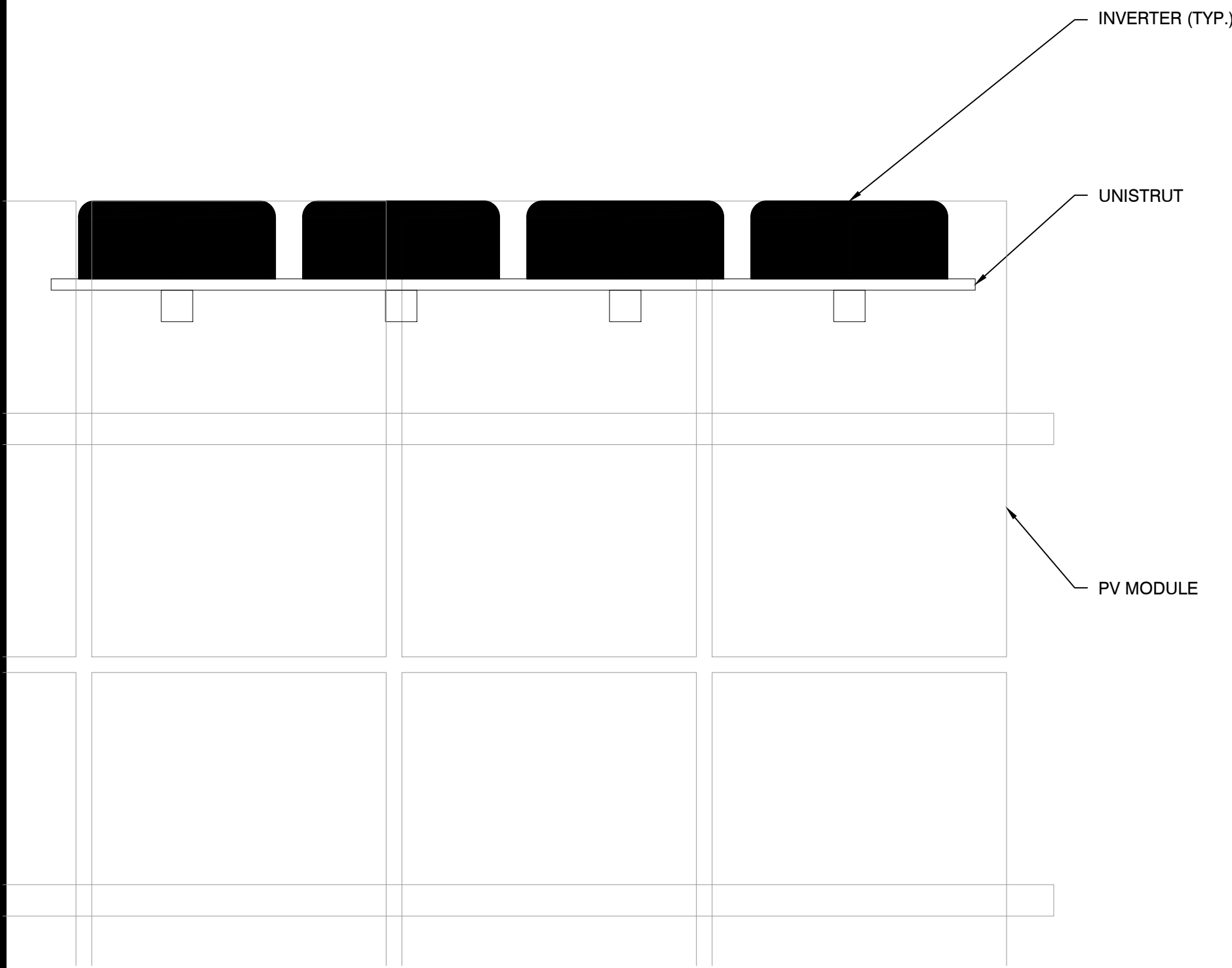
SHEET TITLE:

ARRAY DETAILS

PROJ. MGR.	PROJ. ENGR. SDE	DATE: 05/14/21
DRAWN BY: LR	CHECKED BY:	SCALE: AS SHOWN

DRAWING NO.

PV-104



1

INVERTER MOUNTING (PLAN VIEW)

PV-105

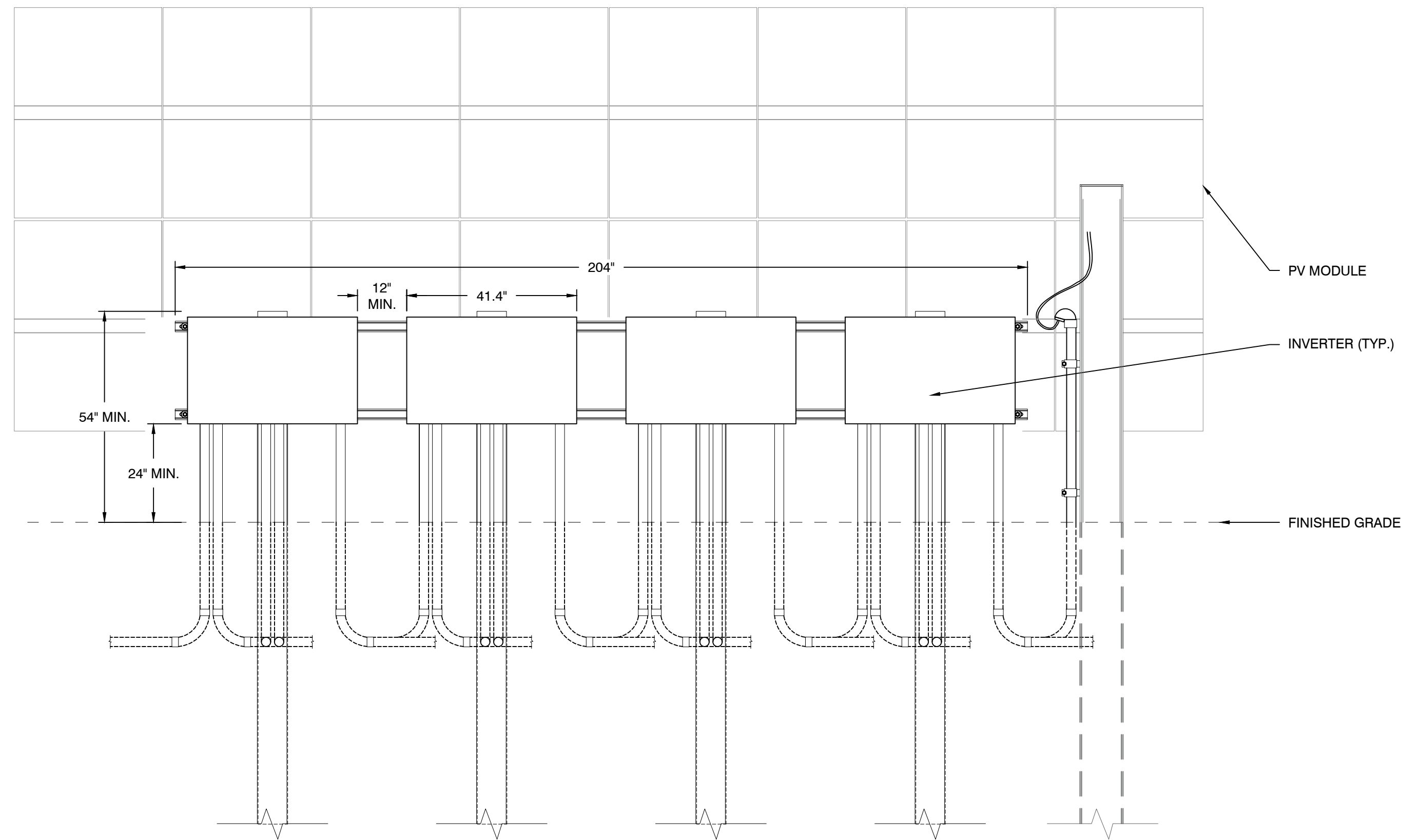
Scale: NTS

2

INVERTER ELEVATION (SIDE VIEW) AND DC SOURCE CIRCUIT (JUMPER) TRENCH DETAIL

PV-105

Scale: NTS



3

INVERTER ELEVATION (FRONT VIEW)

PV-105

Scale: NTS



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REV. NO	DESCRIPTION	DATE

SHEET TITLE:

INVERTER MOUNTING DETAILS

PROJ. MGR.	PROJ. ENGR. SDE	DATE: 05/14/21
DRAWN BY: LR	CHECKED BY:	SCALE: AS SHOWN

DRAWING NO.

PV-105



GENERAL NOTES	
1.	AC MV CIRCUITS SHALL BE INSTALLED AND INTERCONNECTED WITH UTILITY CIRCUITS, PER UTILITY SPECIFICATIONS.
2.	ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2017 EDITION OF NATIONAL ELECTRIC CODE.
3.	ALL DC AND AC EQUIPMENT, WHERE APPLICABLE, SHALL BE LISTED AND LABELED PER RECOGNIZED ELECTRICAL TESTING LABORATORY AND INSTALLED PER THE LISTING REQUIREMENTS, THE MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH NEC.
4.	RECLOSER CONTROL SETTINGS TO BE COORDINATED WITH UTILITY AND CONTRACTOR.

