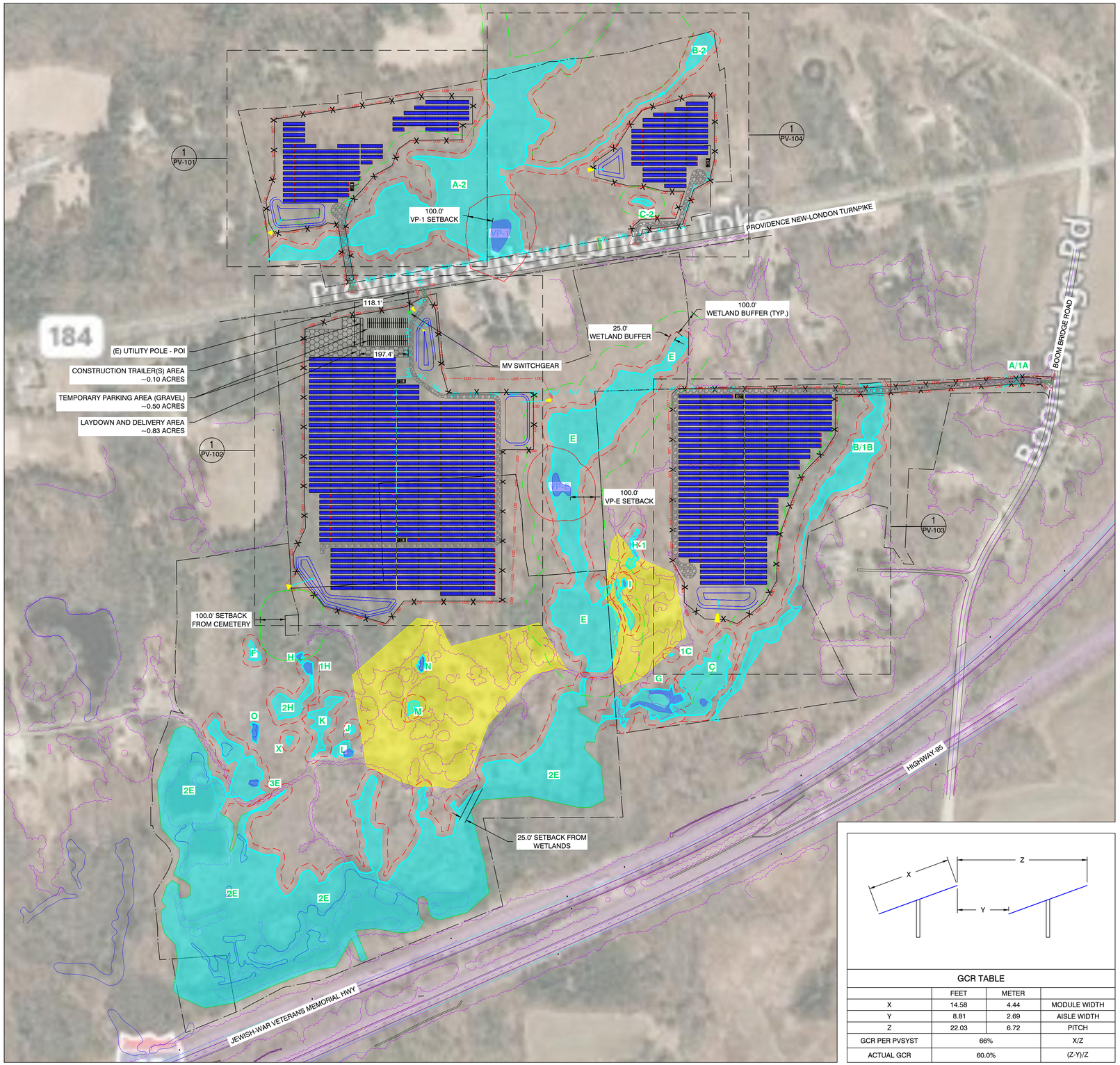


LEGEND

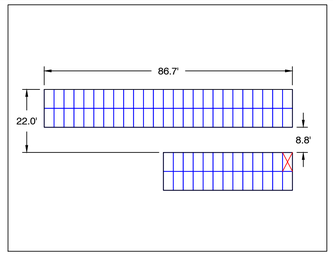
	2P X 25 HANWHA Q-CELLS 475W @25° TILT
	2P X 13 HANWHA Q-CELLS 475W @25° TILT
	EQUIPMENT RACK (TYP. OF 5) (1) LV SWITCHGEAR (1) MV TRANSFORMER
	SUNGROW 250kW INVERTER (TYP. OF 45)
	EQUIPMENT RACK WITH 2 STRING INVERTERS (TYP. OF 2 LOCATION)
	EQUIPMENT RACK WITH 3 STRING INVERTERS (TYP. OF 7 LOCATIONS)
	EQUIPMENT RACK WITH 4 STRING INVERTERS (TYP. OF 5 LOCATIONS)
OVE	OVERHEAD ELECTRICAL
MV MV MV	UNDERGROUND MEDIUM VOLTAGE CABLE
AC AC	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
LOD LOD	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	29,625
# 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 PV-100 ARRAY PLAN
Scale: 1"=200'

N

2 PV-100 GCR DETAILS
Scale: NTS

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

SOLVIDA
DESIGN + ENGINEERING
1400 Shattuck Avenue, Suite 3
Berkeley, California 94709

SILICON RANCH

MILLER BROS.

STONINGTON SOLAR

428, PROVIDENCE-NEW LONDON TURNPIKE
NORTH STONINGTON, CT 06359, USA

LAT: 41.431830°N
LON: 71.821514°W

REV. NO	DESCRIPTION	DATE
0	PRELIMINARY	05/14/21

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