

PROJECT DESCRIPTION:

THIS GROUND-MOUNTED SOLAR PHOTOVOLTAIC (PV) SYSTEM, 80 MW (DC)/60 MW (AC), IS TO BE INSTALLED AT THE SPECIFIED LOCATION IN ROSWELL, NEW MEXICO.

REVISIONS

DESCRIPTION	DATE	INIT.
DRAWING PLANS	10/19/2022	ZZ

SIGNATURE & SEAL:

PROJECT NAME & LOCATION:

BLACK & VEATCH
ROSWELL, NEW MEXICO
(CHAVES COUNTY)
PROPERTY ID: 10652755

PROJECT TITLE:

60 MW SOLAR
POWER PLANT

SHEET NAME:

COVER PAGE

SHEET SIZE:

36" x 24"

SHEET NUMBER:

PV-1

SHEET INDEX

S NO.	SHEET NAME
PV-1	COVER PAGE
PV-2	KEY PLAN
PV-3	SOLAR PLANT
PV-4	DETAILED ARRAY
PV-5	COMPONENT LAYOUT
PV-6	RACKING DETAIL
E-1	ELECTRICAL LAYOUT #1: ARRAY (A)
E-2	ELECTRICAL LAYOUT #2: ARRAY (A)
E-3	ELECTRICAL LAYOUT #3: ARRAY (M)
E-4	ELECTRICAL CALCULATIONS

PHOTOVOLTAIC SYSTEM SUMMARY:

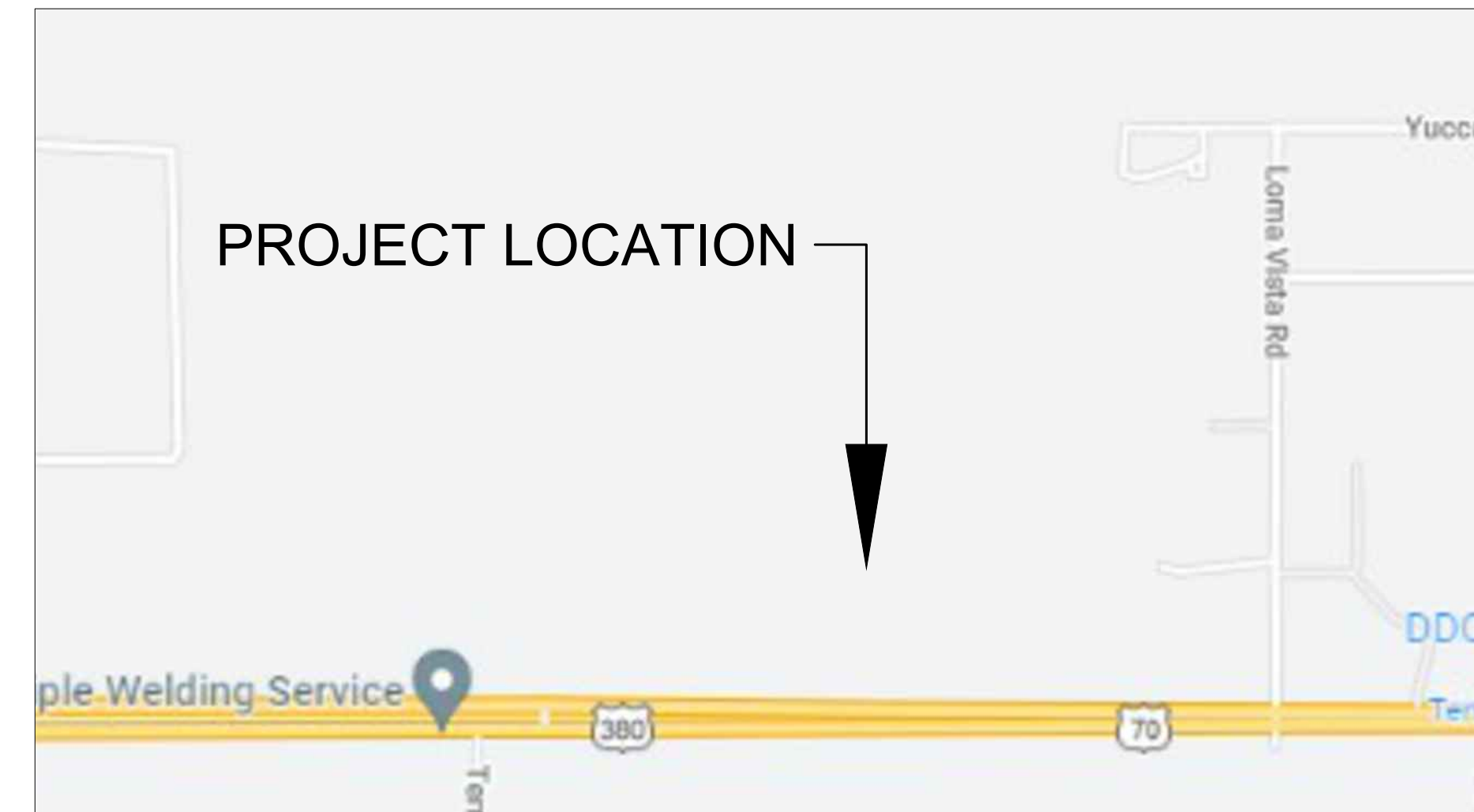
SYSTEM SIZE: DC STC: 80 MW
 INVERTER AC OUTPUT: 60 MW
 SOLAR MODULES: HANWHA 480W (166667 TOTAL)
 MODEL #: Q.PEAK DUO XL G10.2
 INVERTER: ABB 5.0 MVA (13 TOTAL)
 MODEL #: PVS980-58 5.0 MVA-5000KVA-L
 COMBINER BOX: SHOALS 1500V STANDARD COMBINER (292 TOTAL)
 MODEL #: STG.DCB.18.C400DCG.BESN
 MOUNTING SYSTEM: SNAPNRACK GROUND MOUNTED SYSTEM
 MODEL #: 200 SERIES

SOLAR PLANT NOTES:

- SOLAR PLANT SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.
- ALL ELECTRICAL CIRCUITS AND EQUIPMENT SHALL BE MAINTAINED AND OPERATED BY QUALIFIED PERSONNEL.
- THE PV SYSTEM SHALL SAFELY AND EFFECTIVELY CONNECT WITH THE UTILITY SIDE THROUGH SWITCHGEAR, SUBSTATION, OR SWITCH YARD.
- THE ELECTRICAL LOADS WITHIN THE PV ELECTRIC SUPPLY STATION SHALL ONLY BE USED TO POWER AUXILIARY EQUIPMENT FOR THE GENERATION OF THE PV POWER.
- ALL EQUIPMENT SHALL BE NEW AND LISTED BY RECOGNIZED ELECTRICAL TESTING LABORATORY.
- ALL METALLIC EQUIPMENT SHALL BE GROUNDED.
- THE ENGINEERED DESIGN REQUIRED BY NEC 691.6 SHALL DOCUMENT DISCONNECTION PROCEDURES AND MEANS OF ISOLATING EQUIPMENT.
- DIRECT CURRENT OPERATING VOLTAGE CALCULATIONS SHALL BE INCLUDED IN THE DOCUMENTATION REQUIRED IN NEC 691.6.
- ALL PHOTOVOLTAIC MODULES SHALL BE TESTED, LISTED, AND IDENTIFIED BY UL 1703.
- ALL WORK SHALL BE IN ACCORD WITH THE 2020 NEC WITH EMPHASIS ON ARTICLE 691.

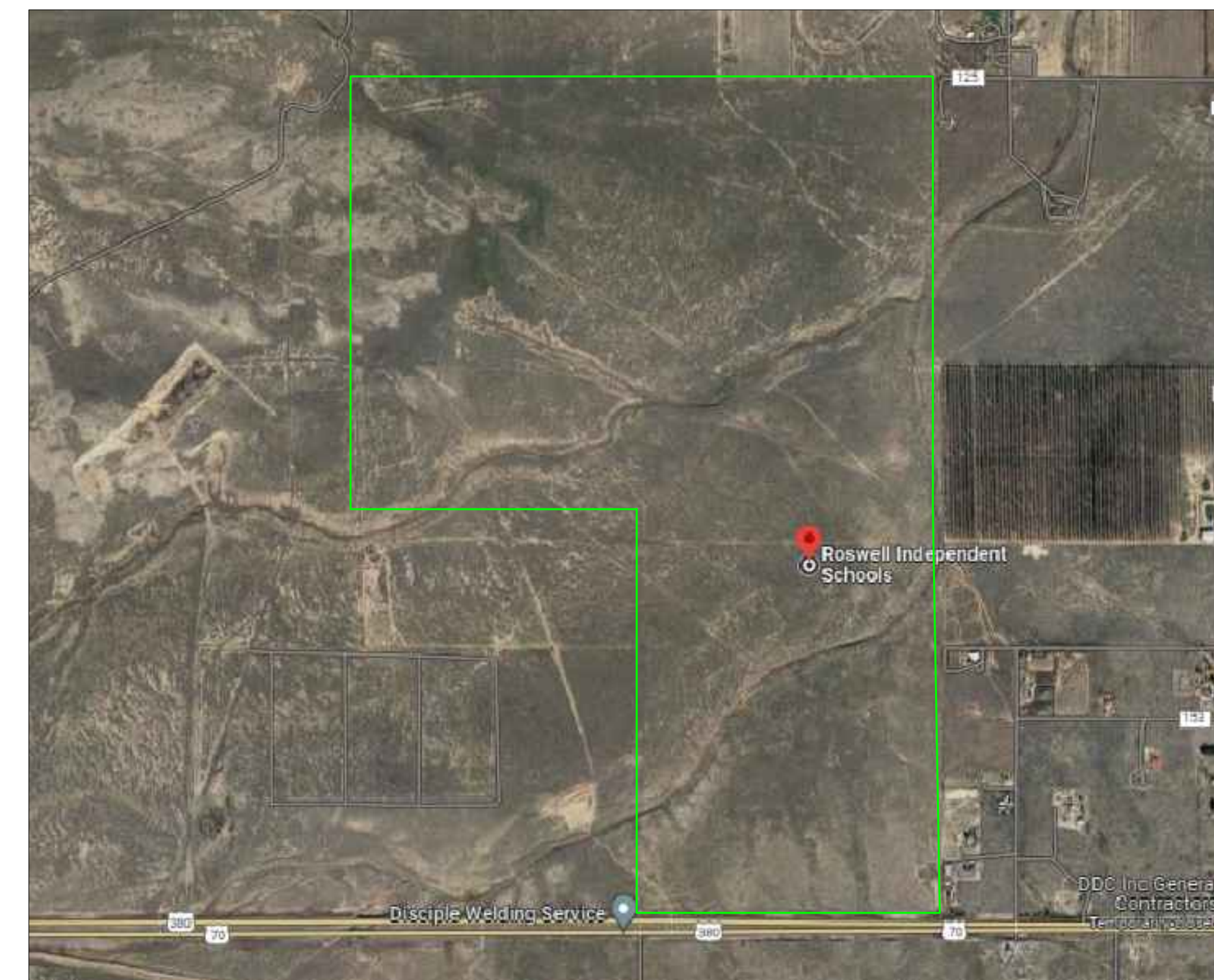
GOVERNING CODES:

- 2020 NFPA 70 (NATIONAL ELECTRICAL CODE)
- 2021 INTERNATIONAL FIRE CODE
- 2021 INTERNATIONAL BUILDING CODE
- 2021 INTERNATIONAL ELECTRICAL CODE
- 2021 INTERNATIONAL GREEN CODE
- 2021 MECHANICAL CODE
- UL 1731
- UL 1703
- UL 61730
- ALL OTHER ORDINANCES ADOPTED BY THE LOCAL GOVERNING AGENCIES



VICINITY MAP

1



AERIAL MAP

2

- PROPERTY LINE
- FENCE
- GATE
- CAB SYSTEM
- SKID
- COMBINER BOX
- SOLAR MODULE
- ACCESS PATHWAY

PROPERTY SPECIFICATIONS

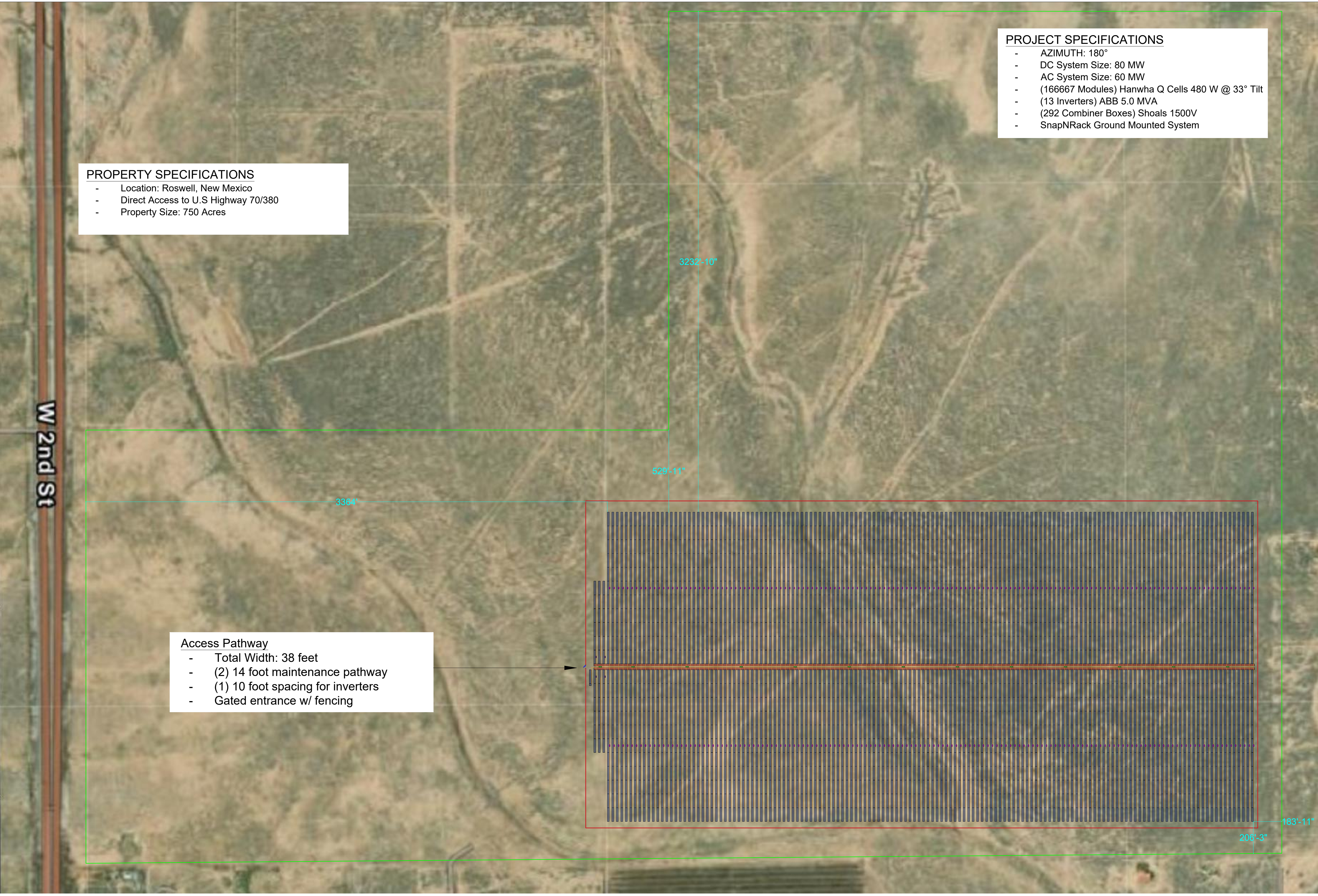
- Location: Roswell, New Mexico
- Direct Access to U.S Highway 70/380
- Property Size: 750 Acres

PROJECT SPECIFICATIONS

- AZIMUTH: 180°
- DC System Size: 80 MW
- AC System Size: 60 MW
- (166667 Modules) Hanwha Q Cells 480 W @ 33° Tilt
- (13 Inverters) ABB 5.0 MVA
- (292 Combiner Boxes) Shoals 1500V
- SnapNRack Ground Mounted System

Access Pathway

- Total Width: 38 feet
- (2) 14 foot maintenance pathway
- (1) 10 foot spacing for inverters
- Gated entrance w/ fencing



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533 MORRILL RD,
AMES, IOWA 50011

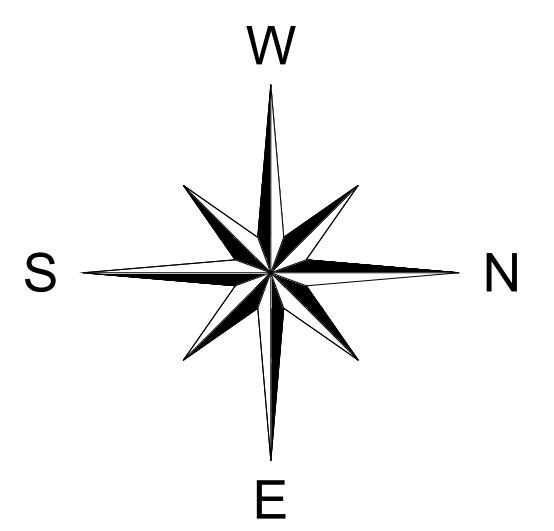
REVISIONS		
DESCRIPTION	DATE	INIT.
DRAWING PLANS	10/19/2022	ZZ

SIGNATURE & SEAL:

PROJECT NAME & LOCATION:

BLACK & VEATCH
 ROSWELL, NEW MEXICO
 (CHAVES COUNTY)
 PROPERTY ID: 10652755

PROJECT TITLE:	60 MW SOLAR POWER PLANT
SHEET NAME:	KEY PLAN
SHEET SIZE:	36" x 24"
SHEET NUMBER:	PV-2



4100 MARSTON HALL,
533 MORRILL RD,
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PROJECT TITLE:

60 MW SOLAR
POWER PLANT

SHEET NAME:

SOLAR PLANT

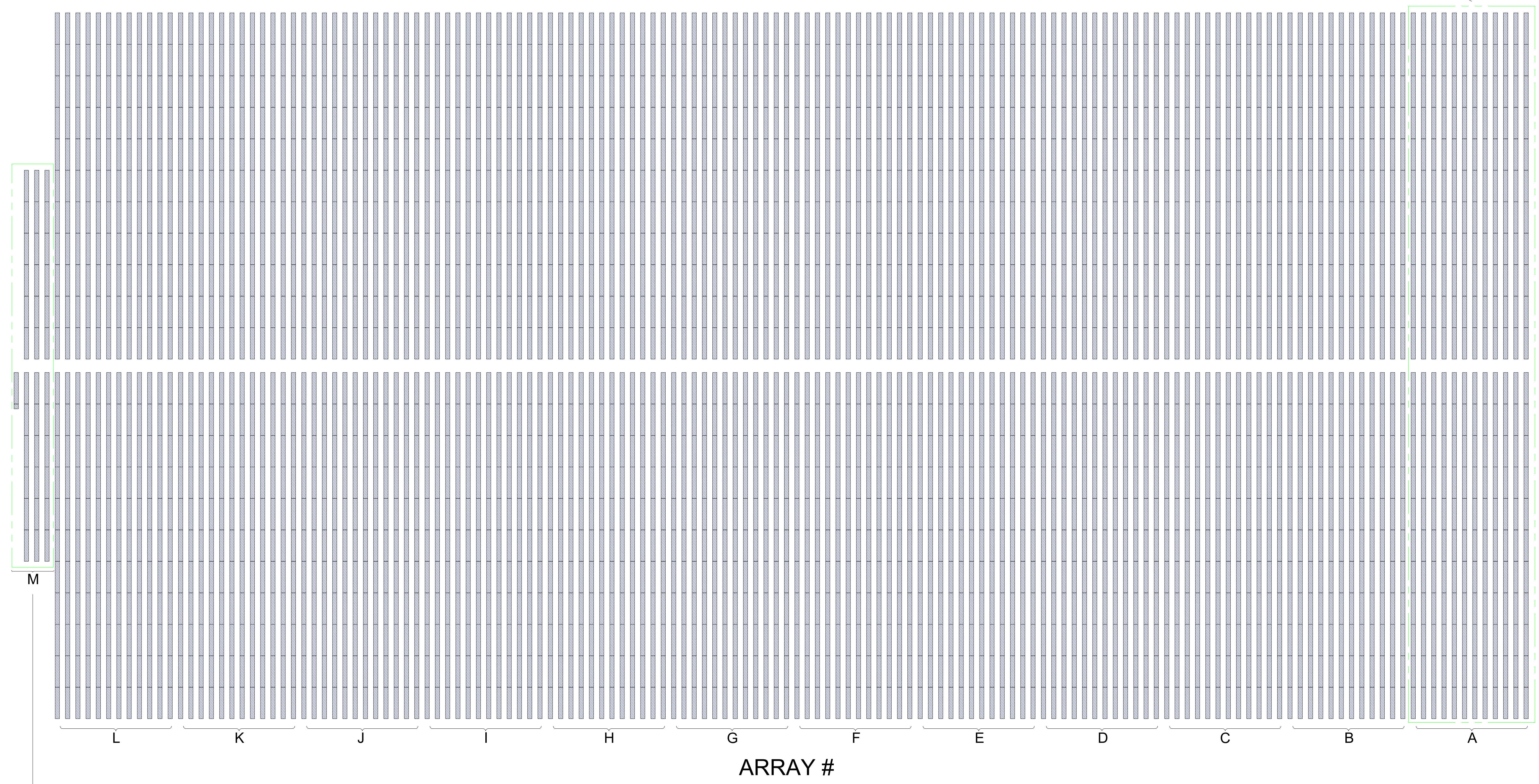
SHEET SIZE:

36" x 24"

SHEET NUMBER:

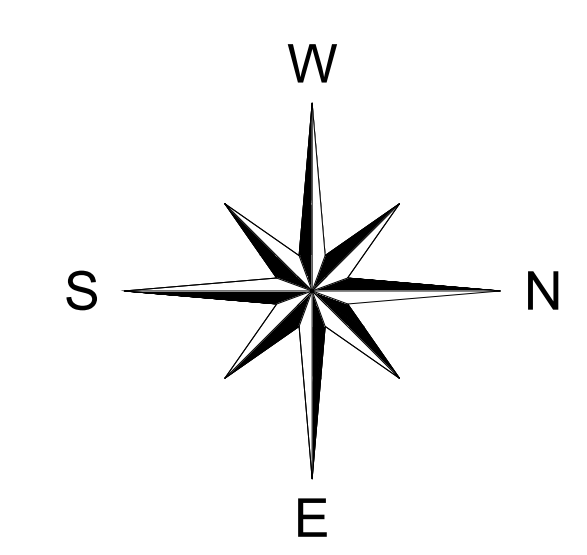
PV-2

ARRAY (A - L) DIMENSIONS (TYP) 1 PV-3



2 PV-3 ARRAY (M) DIMENSIONS

1
PV-2 SOLAR PLANT ARRAY DESIGN
NOT TO SCALE



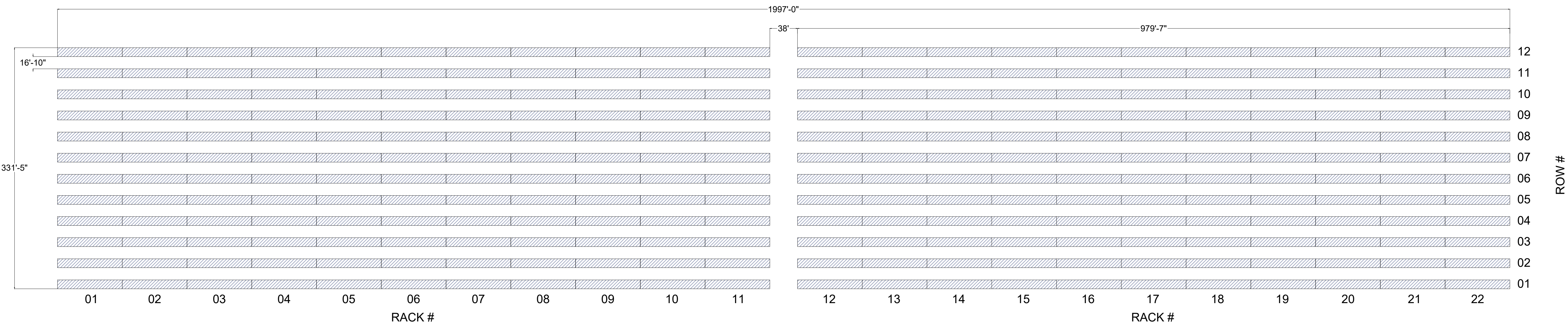
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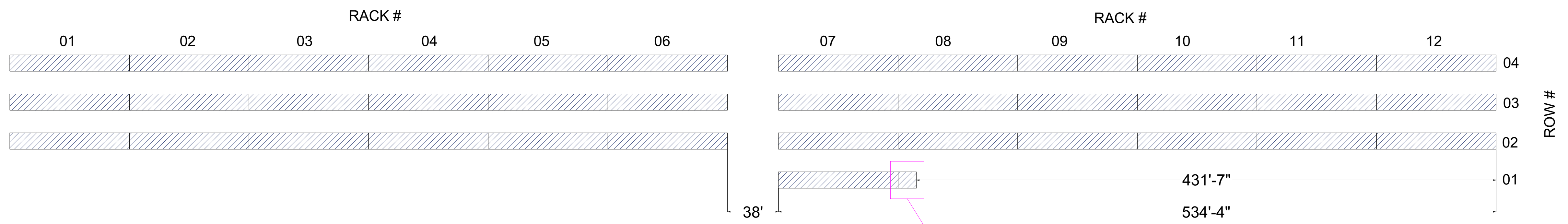
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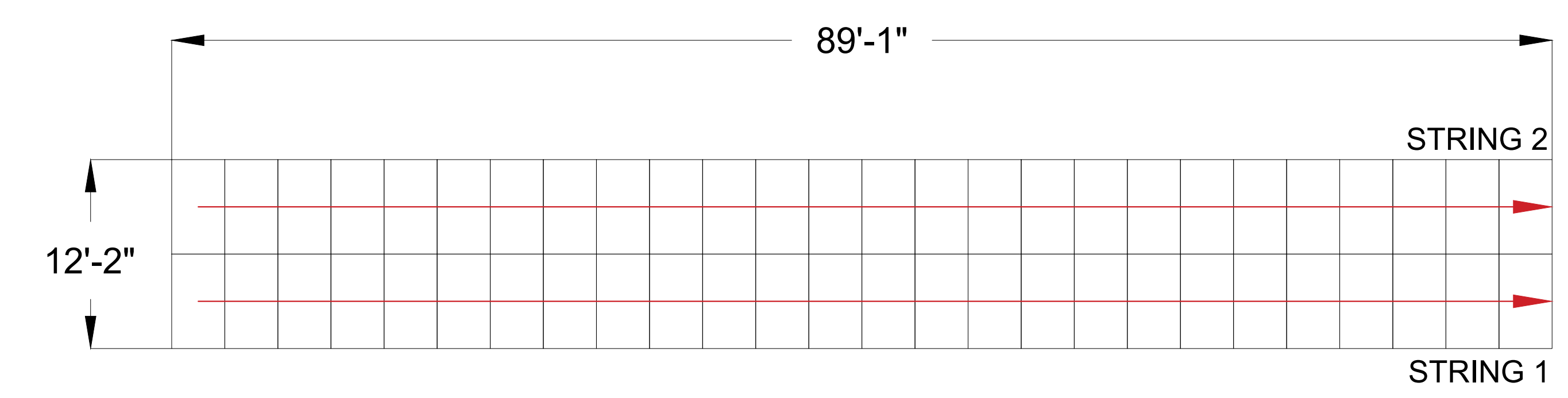
PROJECT TITLE:	60 MW SOLAR POWER PLANT
SHEET NAME:	DETAILED ARRAY
SHEET SIZE:	36" x 24"
SHEET NUMBER:	PV-3



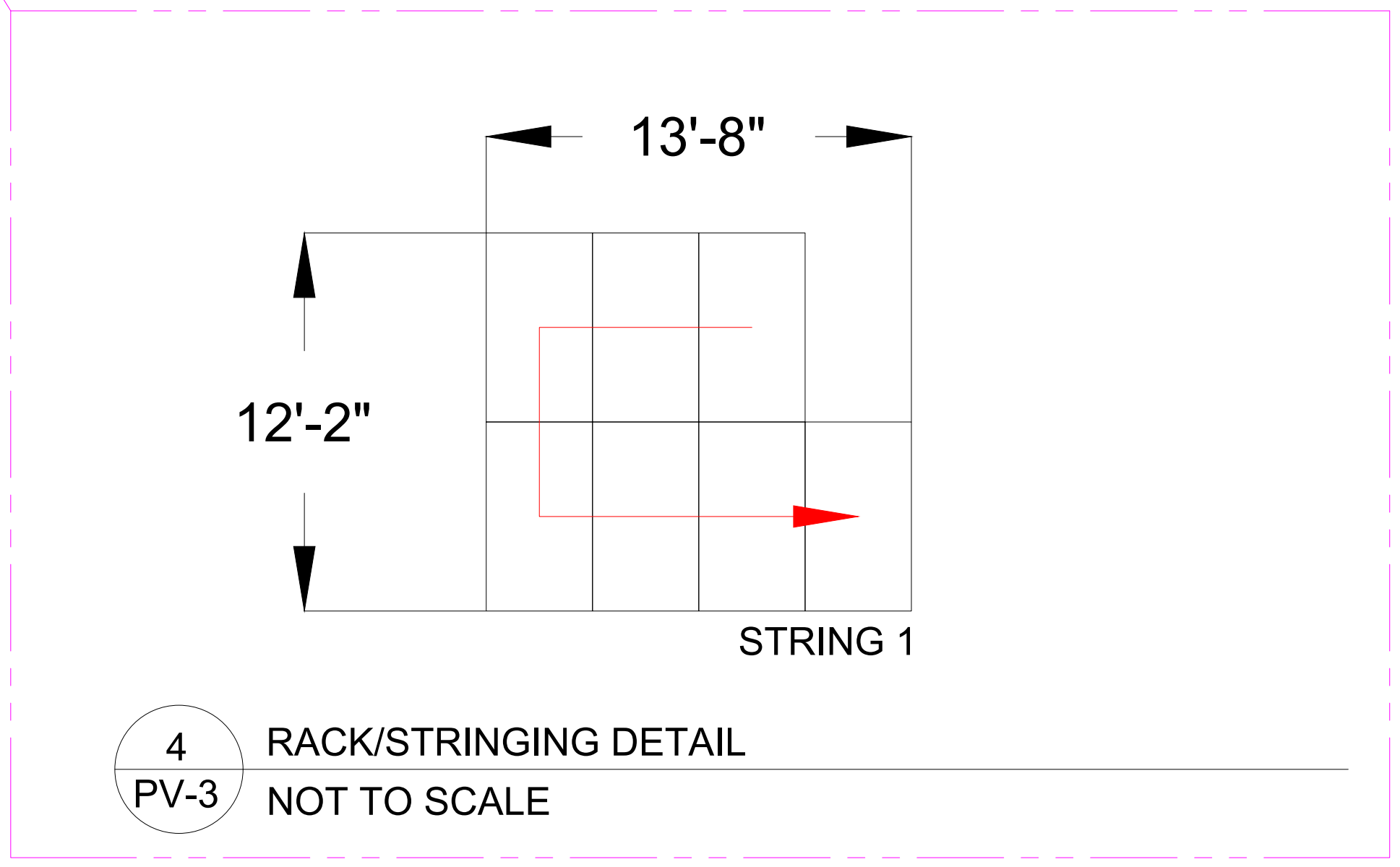
1 ARRAY (A) DIMENSIONS (TYPICAL)
PV-3 NOT TO SCALE



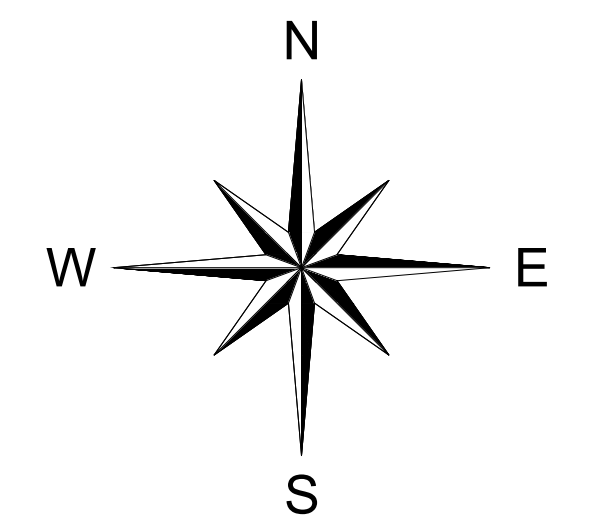
2 ARRAY (M) DIMENSIONS
PV-3 NOT TO SCALE



3 RACK/STRINGING DETAIL (TYPICAL)
PV-3 NOT TO SCALE



4 RACK/STRINGING DETAIL
PV-3 NOT TO SCALE



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PROJECT TITLE:

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POWER PLANT

SHEET NAME:

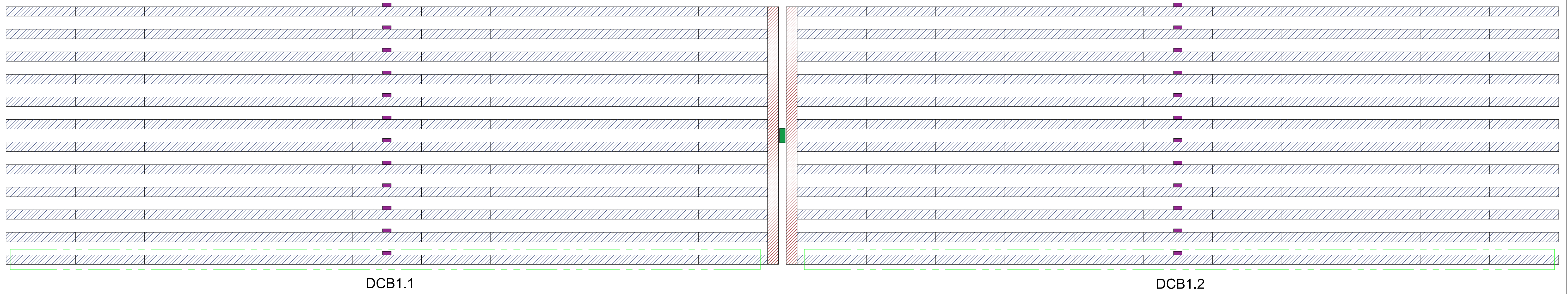
COMPONENT LAYOUT

SHEET SIZE:

36" x 24"

SHEET NUMBER:

PV-4

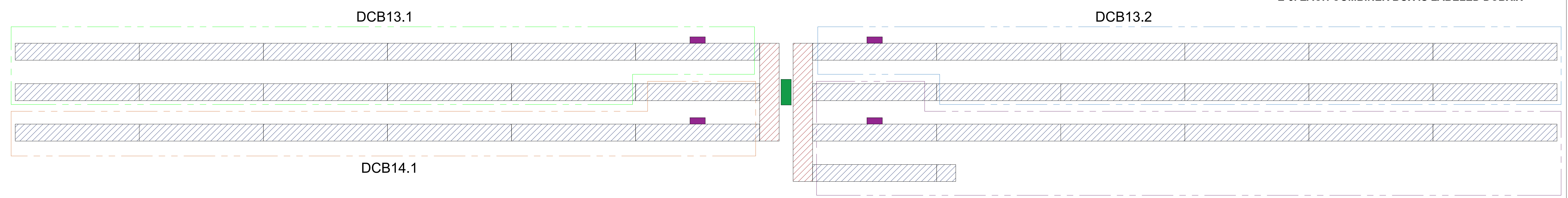


DCB1.1

DCB1.2

NOTE 1: ELECTRICAL DETAIL FOR ARRAY (A) IS SHOWN IN E-1 & E-2. EACH COMBINER BOX IS LABELED DCBX.X

1 ARRAY (A) COMPONENT LAYOUT (TYPICAL)
PV-4 NOT TO SCALE



DCB13.1

DCB13.2

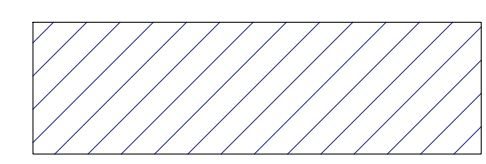
DCB14.1

DCB15.1

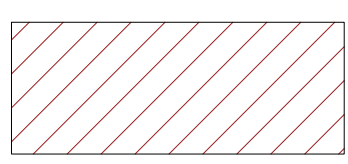
NOTE 2: ELECTRICAL DETAIL FOR ARRAY (M) IS SHOWN IN E-3. EACH COMBINER BOX IS LABELED DCBX.X

2 ARRAY (M) COMPONENT LAYOUT
PV-4 NOT TO SCALE

NOTE 3: CAB SYSTEM IS NOT SHOWN.
REFER TO PAGE PV-2 FOR DETAILS.



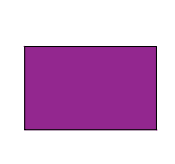
SOLAR MODULE



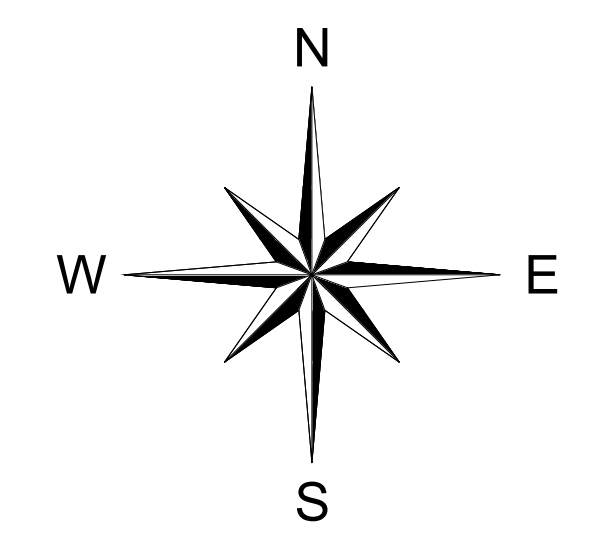
ACCESS PATHWAY



SKID



COMBINER BOX

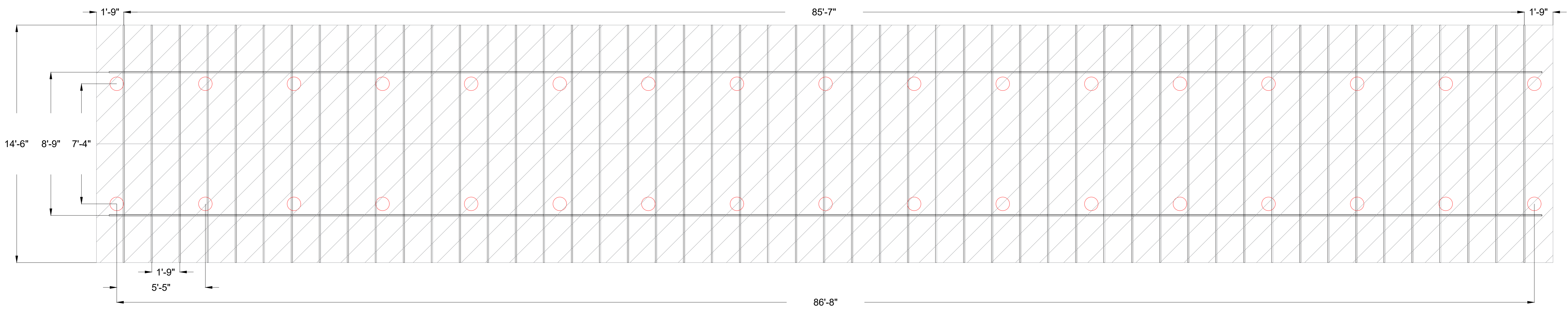


REVISIONS

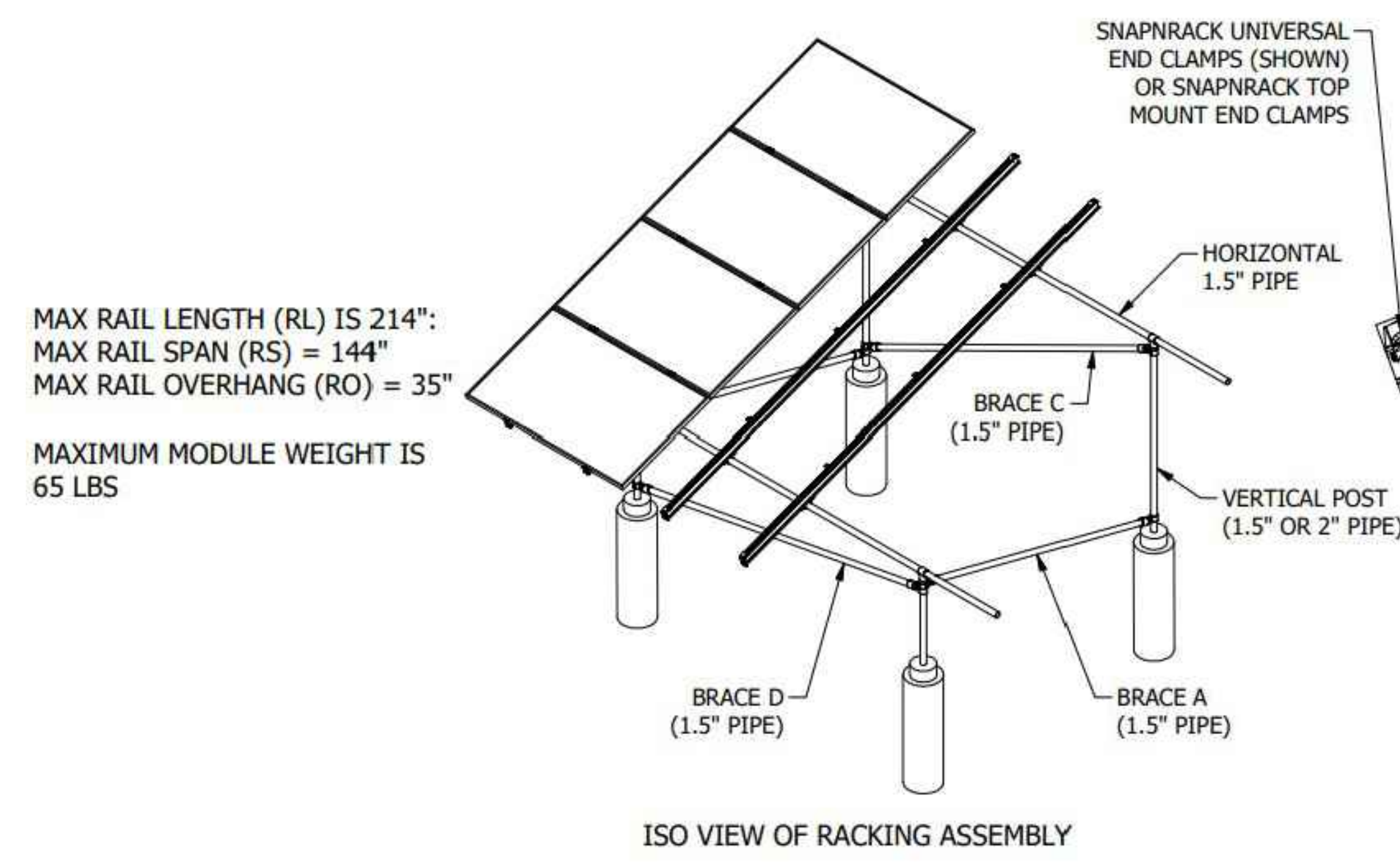
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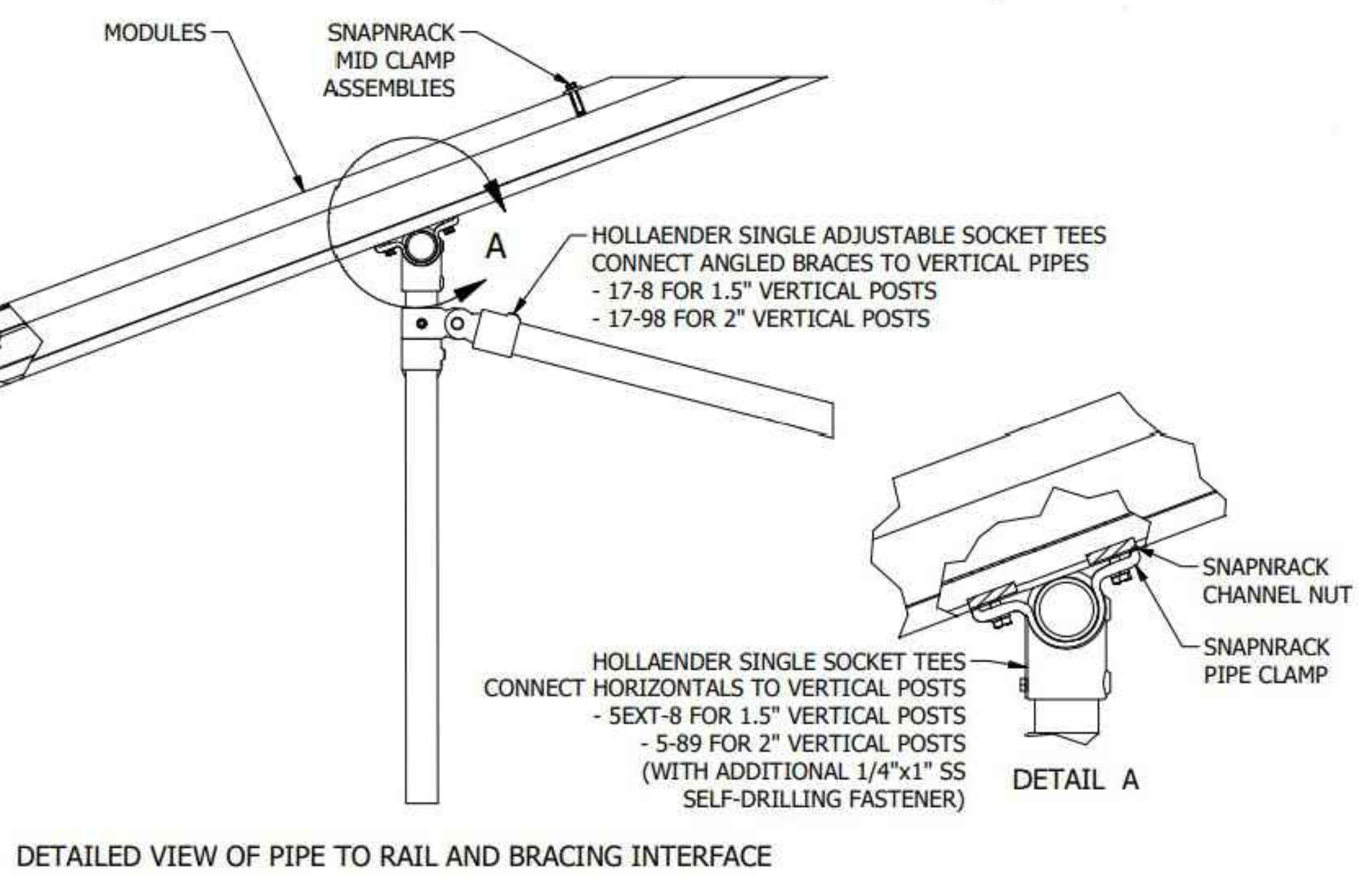


1 RACK DETAIL: ATTACHMENT POINTS & COLUMNS
PV-5 NOT TO SCALE

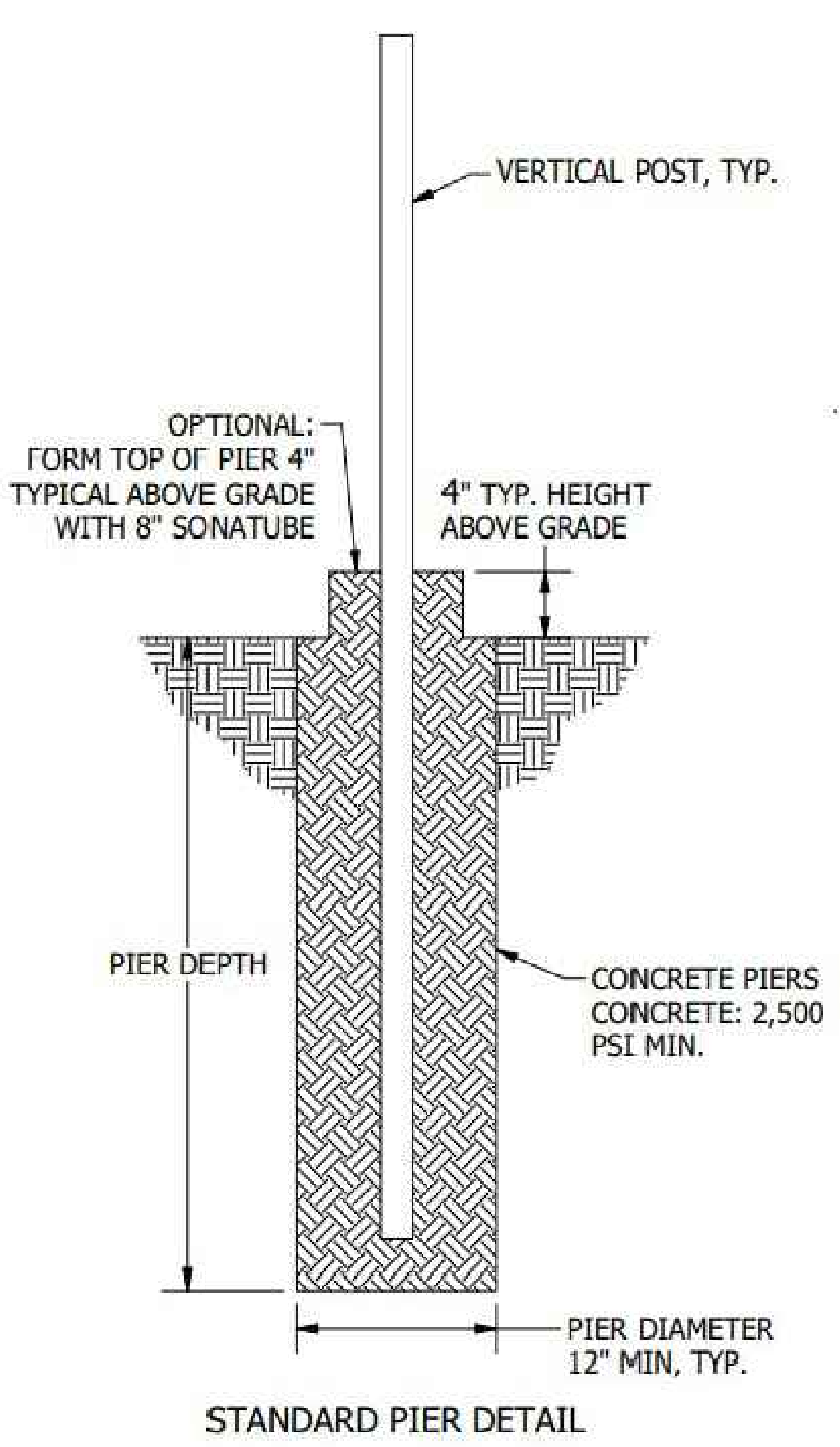


MAX RAIL LENGTH (RL) IS 214"
MAX RAIL SPAN (RS) = 144"
MAX RAIL OVERHANG (RO) = 35"

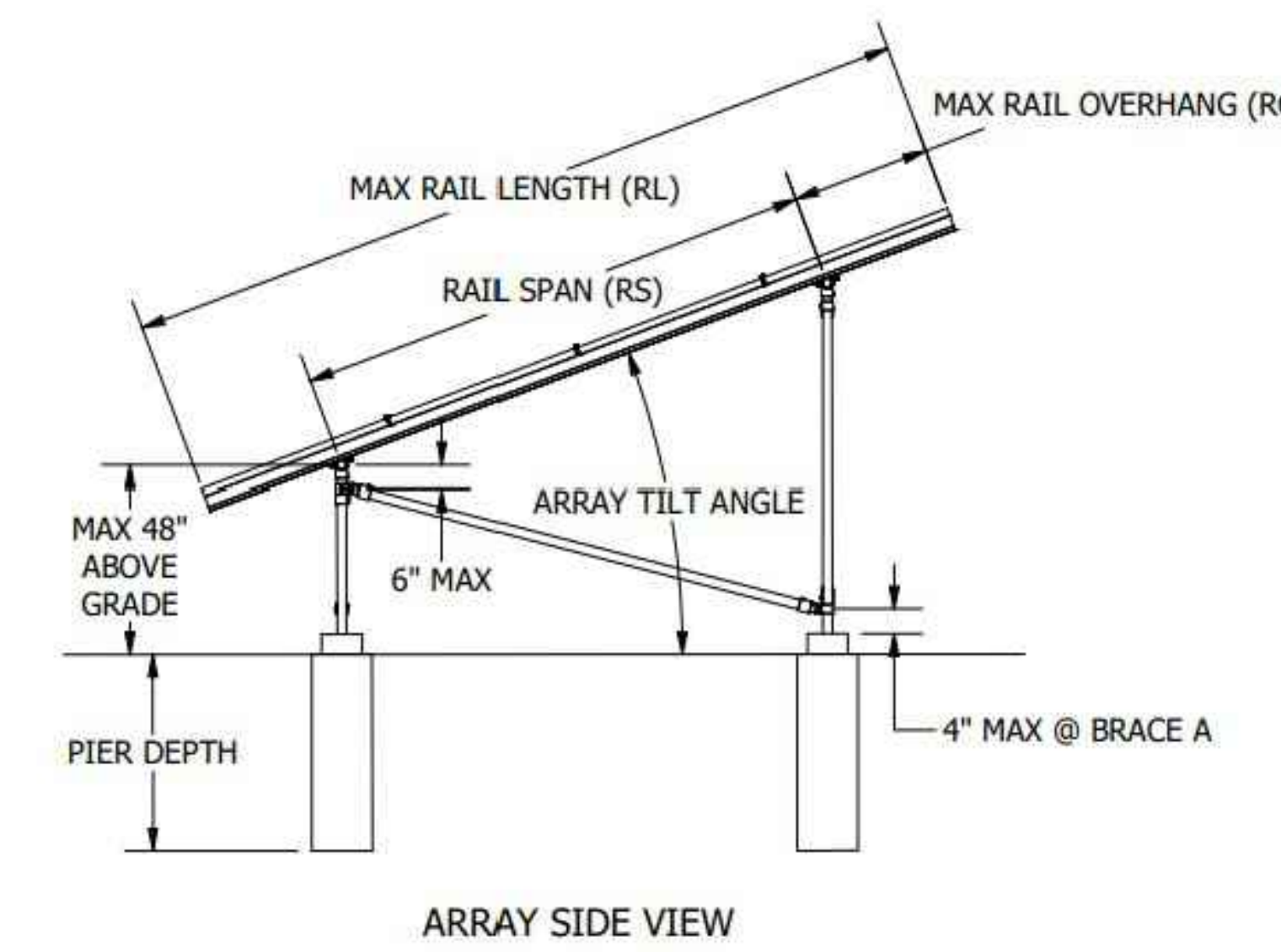
MAXIMUM MODULE WEIGHT IS
65 LBS



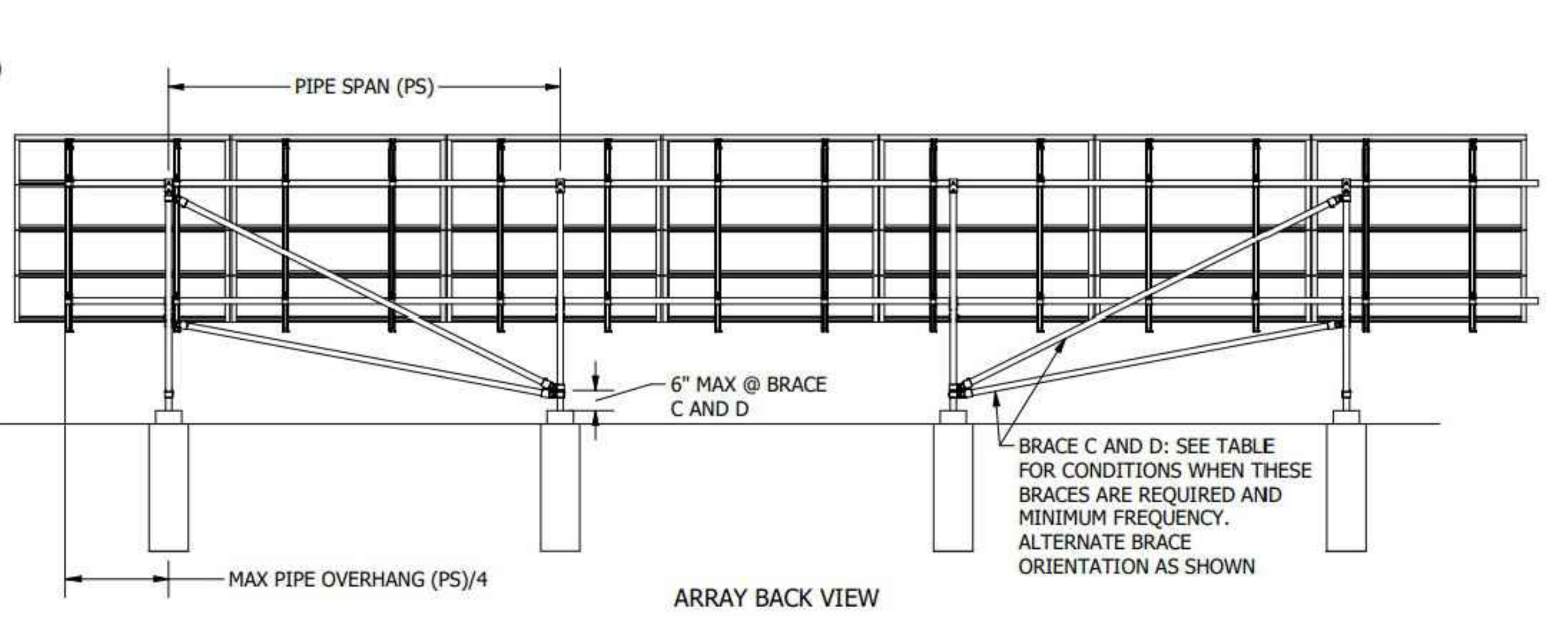
DETAILED VIEW OF PIPE TO RAIL AND BRACING INTERFACE



STANDARD PIER DETAIL



ARRAY SIDE VIEW



ARRAY BACK VIEW

BLACK & VEATCH
ROSWELL, NEW MEXICO
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PROJECT TITLE:

60 MW SOLAR
POWER PLANT

SHEET NAME:

RACK DETAIL

SHEET SIZE:

36" x 24"

SHEET NUMBER:

PV-5

REVISIONS

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PROJECT TITLE:

60 MW SOLAR
POWER PLANT
SHEET NAME:

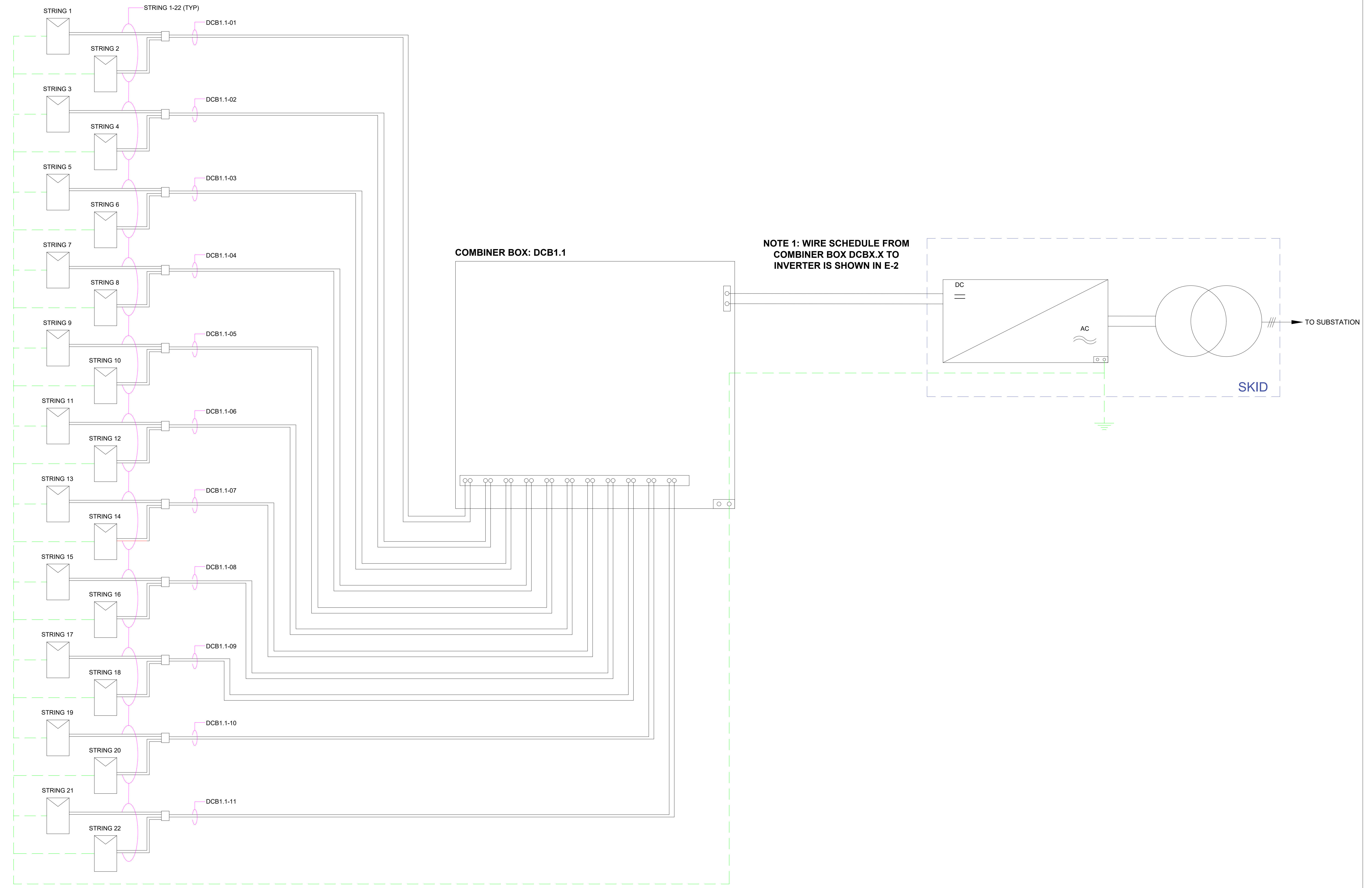
ELECTRICAL LAYOUT #1:
ARRAY (A)

SHEET SIZE:

36" x 24"

SHEET NUMBER:

E-1



1 ELECTRICAL LINE DIAGRAM: ARRAY (A) ROW 01.1 (TYPICAL)
E-1 NOT TO SCALE

REVISIONS

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PROPERTY ID: 10652755

PROJECT TITLE:

60 MW SOLAR
POWER PLANT
SHEET NAME:

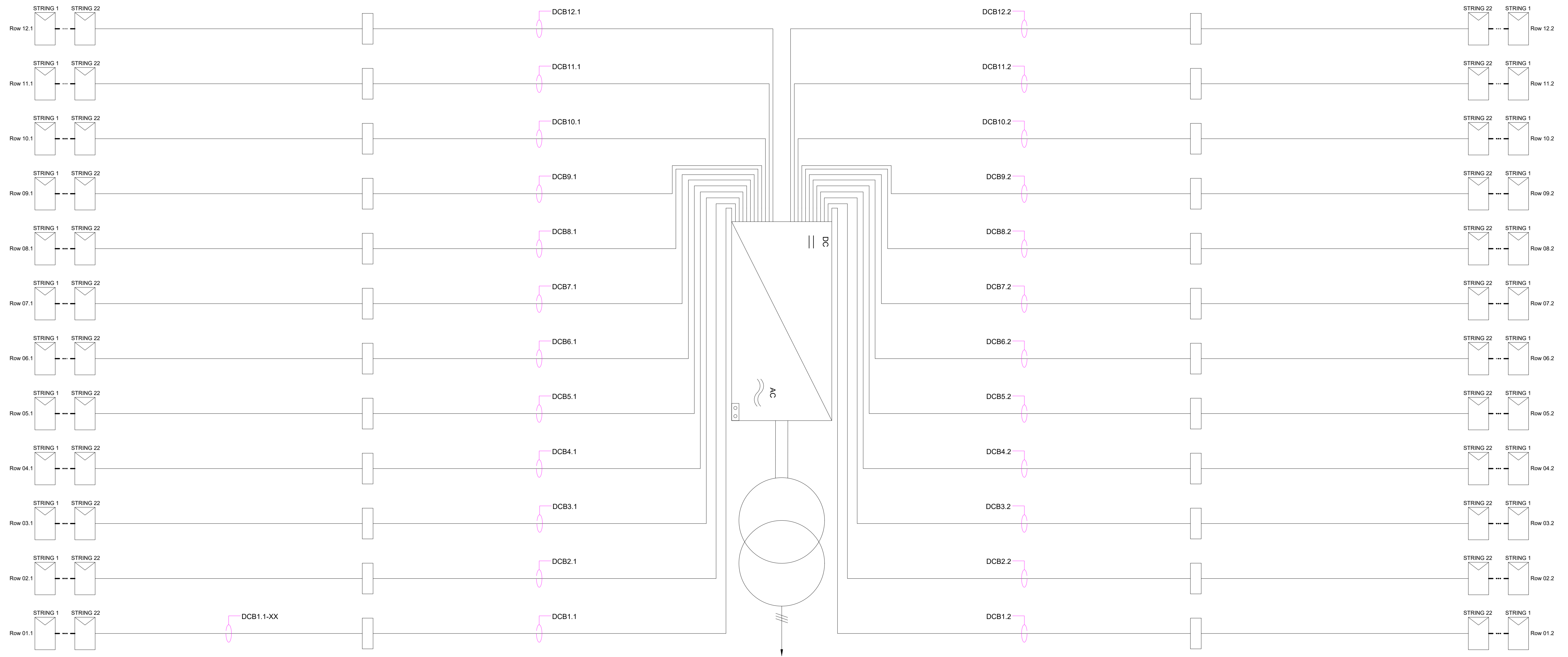
ELECTRICAL LAYOUT #2:
ARRAY (A)

SHEET SIZE:

36" x 24"

SHEET NUMBER:

E-2



NOTE 1: WIRE SCHEDULE FROM STRING TO
DCB1.1-XX IS SHOWN IN E-1

TO SUBSTATION

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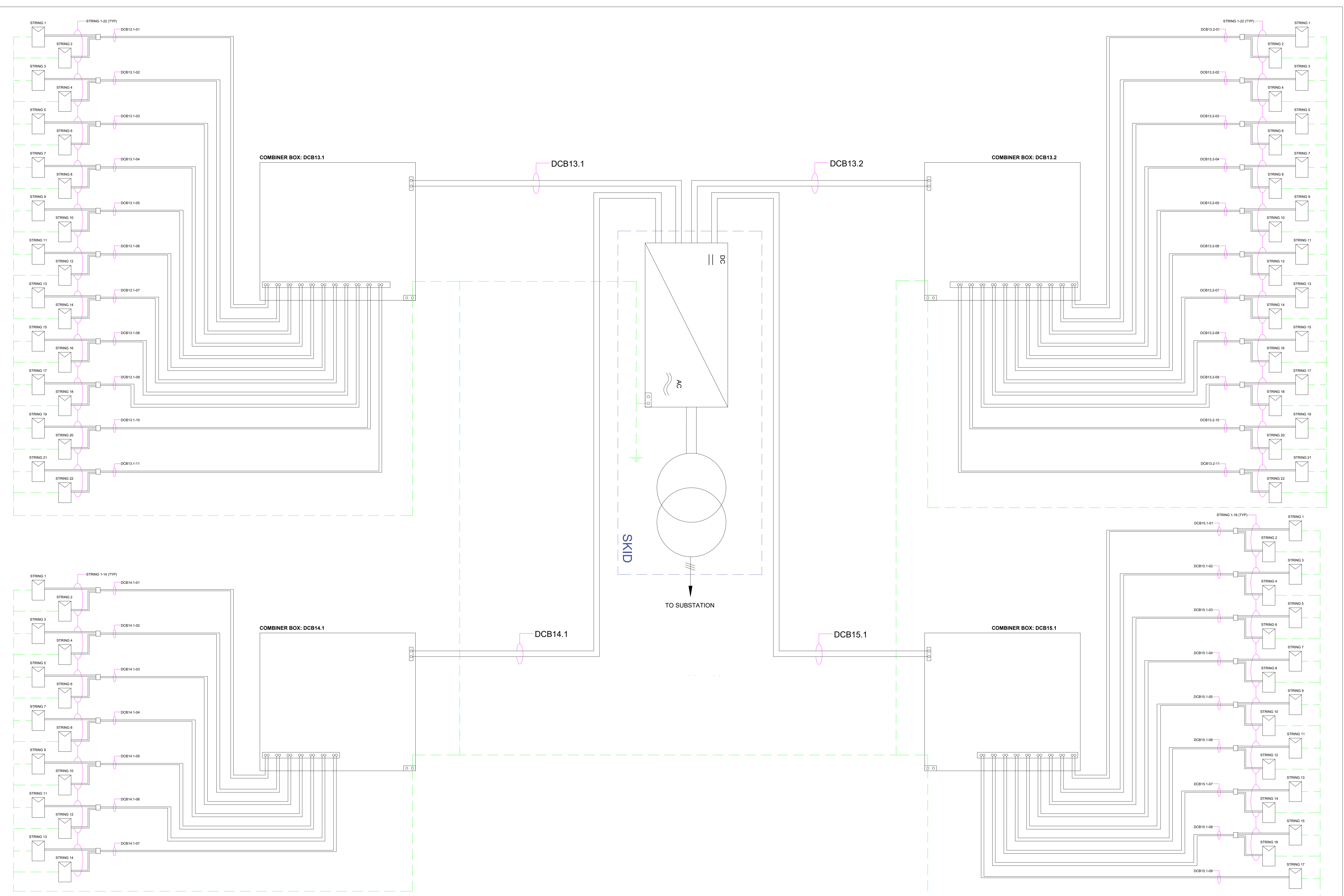
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ROSWELL, NEW MEXICO
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PROJECT TITLE:
60 MW SOLAR POWER PLANT SHEET NAME:
ELECTRICAL LAYOUT #3: ARRAY (M)
SHEET SIZE: 36" x 24"
SHEET NUMBER: E-3



1 ELECTRICAL LINE DIAGRAM: ARRAY (M)
E-3 NOT TO SCALE

STRING SIZING CALC.		
Min Temp.	-1.1100	°C
Voc	53.6100	V
Ref Temp.	25	°C
Temp. Coeff. of Voc	-0.0027	/°C
Temp. Delta	-26.1100	°C
Temp. Correction	1.0705	°C
Voc Corrected	57.3900	V
String Volt.	1500	V
String Size	26	
Voc Corrected = 53.61 + (53.61 * -26.11 * -0.0027)		
String Size = 1500 / (Voc Corrected)		

CB SIZING CALC.		
mod/string Isc	11.260	A
NEC Multiplier	1.250	
nom Isc	14.075	A
NEC Multiplier	1.250	
Max Isc	17.594	A
Allowed Current	400.000	A
Strings per CB	22	
Racks per CB	11	
Stings per CB = (Allowed Current) / (Max Isc)		

AMBIENT TEMPERATURE		
Mean Low	-1.110	°C
Mean	16.380	°C
Mean High	34.300	°C

PV MODULE SPECIFICATIONS	
Model Number	HANWHA QCELL Q.PEAK DUO XL G10.2 480W MODULES
Weight	58.40 lbs
Dimensions	87.2 x 41.1 x 1.38 Inches
Power @ STC	480 Watts
Rated Voltage (Vmpp)	42.72 Volts
Rated Current (Impp)	8.43 Amps
Open-Circuit Voltage (Voc)	53.61 Volts
Short-Circuit Current (Isc)	11.26 Amps
Voc Temp. Coeff.	-0.0027 %/°C

INVERTER SPECIFICATIONS	
Model Number	ABB 5.0 MVA PVS980-58 5.0 MVA-5000KVA-L
Weight	6000 kg
Dimensions	5600 x 2200 x 1600 mm
Nominal AC Power	5000 kW
Nominal Output Voltage	690 Volts
Nominal Output Current	4184 Amps
Max DC Input Voltage	1500 Volts
Efficiency	98.8 %
Maximum Input Power	10000 kW
Maximum Output Power	5000 kW
Number DC Inputs	20-36

COMBINER BOX SPECIFICATIONS	
Model Number	SHOALS 1500V STG.DCB.18.C400DCG.BESN
Weight	75 lbs
Dimensions	30 x 24 x 10 Inches
Maximum System Voltage	1500 Volts
Rated Output Current	400 Amps
Rated Input Current	25.60 Amps
Maximum OCPD	32 Amps
Maximum DC Inputs	18

JUMPER VOLTAGE DROP CALCULATIONS: ARRAY A - L (TYP)													
DCB	Strings per Rack	IMP for String	String Length	String wire size	String Conductor resistance	String resistance	Voltage Drop of String	IMP for Jumper	Jumper Length	Jumper wire size	Jumper resistance	Jumper resistance	Voltage Drop of Jumper
DCB#-##	PER RACK	AMP	FEET	AWG	OHM/KFT	OHM	VOLTS	AMP	FEET	AWG	OHM/KFT	OHM	VOLTS
DCB1-01	2	10.7	85.7	10	2.000	0.332	3.668	21.4	490.00	6	0.808	0.766	16.945
DCB1-02	2	10.7	85.7	10	2.000	0.332	3.668	21.4	400.95	6	0.808	0.627	13.866
DCB1-03	2	10.7	85.7	10	2.000	0.332	3.668	21.4	311.90	6	0.808	0.488	10.786
DCB1-04	2	10.7	85.7	10	2.000	0.332	3.668	21.4	222.85	6	0.808	0.348	7.707
DCB1-05	2	10.7	85.7	10	2.000	0.332	3.668	21.4	133.80	6	0.808	0.209	4.627
DCB1-06	2	10.7	85.7	10	2.000	0.332	3.668	21.4	44.75	6	0.808	0.070	1.548
DCB1-07	2	10.7	85.7	10	2.000	0.332	3.668	21.4	44.75	6	0.808	0.070	1.548
DCB1-08	2	10.7	85.7	10	2.000	0.332	3.668	21.4	133.80	6	0.808	0.209	4.627
DCB1-09	2	10.7	85.7	10	2.000	0.332	3.668	21.4	222.85	6	0.808	0.348	7.707
DCB1-10	2	10.7	85.7	10	2.000	0.332	3.668	21.4	311.90	6	0.808	0.488	10.786
DCB1-11	2	10.7	85.7	10	2.000	0.332	3.668	21.4	400.95	6	0.808	0.627	13.866

FEEDER VOLTAGE DROP CALCULATIONS: ARRAY A - L (TYP)											
DCB	No. of Rack Inputs	IMP for DCB circuit	Feeder length	Feeder wire size	Feeder resistance	Feeder resistance	Voltage drop for feeder	Voltage drop for feeder	Voltage drop for circuit	VMP for circuit	Voltage drop for circuit
DCB#-##	#	AMP	FEET	KCMIL	OHM/KFT	OHM	VOLT	PERCENT	VOLT	VOLT	PERCENT
DCB1.1	11	235.400	641	600	0.035	0.044	10.653	0.91%	48.338	1165	4.15%
DCB1.2	11	235.400	641	600	0.035	0.044	10.653	0.91%	48.338	1165	4.15%
DCB2.1	11	235.400	612	600	0.035	0.042	10.171	0.87%	48.177	1165	4.14%
DCB2.2	11	235.400	612	600	0.035	0.042	10.171	0.87%	48.177	1165	4.14%
DCB3.1	11	235.400	583	600	0.035	0.040	9.689	0.83%	48.016	1165	4.12%
DCB3.2	11	235.400	583	600	0.035	0.040	9.689	0.83%	48.016	1165	4.12%
DCB4.1	11	235.400	553	600	0.035	0.038	9.190	0.79%	47.850	1165	4.11%
DCB4.2	11	235.400	553	600	0.035	0.038	9.190	0.79%	47.850	1165	4.11%
DCB5.1	11	235.400	524	600	0.035	0.036	8.708	0.75%	47.689	1165	4.09%
DCB5.2	11	235.400	524	600	0.035	0.036	8.708	0.75%	47.689	1165	4.09%
DCB6.1	11	235.400	494	600	0.035	0.034	8.210	0.70%	47.523	1165	4.08%
DCB6.2	11	235.400	494	600	0.035	0.034	8.210	0.70%	47.523	1165	4.08%
DCB7.1	11	235.400	494	600	0.035	0.034	8.210	0.70%	47.523	1165	4.08%
DCB7.2	11	235.400	494	600	0.035	0.034	8.210	0.70%	47.523	1165	4.08%
DCB8.1	11	235.400	524	600	0.035	0.036	8.708	0.75%	47.689	1165	4.09%
DCB8.2	11	235.400	524	600	0.035	0.036	8.708	0.75%	47.689	1165	4.09%
DCB9.1	11	235.400	553	600	0.035	0.038	9.190	0.79%	47.850	1165	4.11%
DCB9.2	11	235.400	553	600	0.035	0.038	9.190	0.79%	47.850	1165	4.11%
DCB10.1	11	235.400	583	600	0.035	0.040	9.689	0.83%	48.016	1165	4.12%
DCB10.2	11	235.400	583	600	0.035	0.040	9.689	0.83%	48.016	1165	4.12%
DCB11.1	11	235.400	612	600	0.035	0.042	10.171	0.87%	48.177	1165	4.14%
DCB11.2	11	235.400	612	600	0.035	0.042	10.171	0.87%	48.177	1165	4.14%
DCB12.1	11	235.400	641	600	0.035	0.044	10.653	0.91%	48.338	1165	4.15%
DCB12.2	11	235.400	641	600	0.035	0.044	10.653	0.91%	48.338	1165	4.15%

JUMPER VOLTAGE DROP CALCULATIONS: ARRAY M													
DCB	Strings per Rack	IMP for String	String Length	String wire size	String Conductor resistance	String resistance	Voltage Drop of String	IMP for Jumper	Jumper Length	Jumper wire size	Jumper resistance	Jumper resistance	Voltage Drop of Jumper
DCB#-##	PER RACK	AMP	FEET	AWG	OHM/KFT	OHM	VOLTS	AMP	FEET	AWG	OHM/KFT	OHM	VOLTS
DCB13.x-01	2	10.7	85.7	10	2.000	0.332	3.668	21.4	396	6	0.808	0.619	13.695
DCB13.x-02	2	10.7	85.7	10	2.000	0.332	3.668	21.4	310	6	0.808	0.485	10.721
DCB13.x-03	2	10.7	85.7	10	2.000	0.332	3.668	21.4	224	6	0.808	0.350	7.746
DCB13.x-04	2	10.7	85.7	10	2.000	0.332	3.668	21.4	138	6	0.808	0.216	4.772
DCB13.x-05	2	10.7	85.7	10	2.000	0.332	3.668	21.4	52	6	0.808	0.081	1.798
DCB13.x-06	2	10.7	85.7	10	2.000	0.332	3.668	21.4	43	6	0.808	0.067	1.487
DCB13.x-07	2	10.7	85.7	10	2.000	0.332	3.668	21.4	468	6	0.808	0.732	16.185
DCB13.x-08	2	10.7	85.7	10	2.000	0.332	3.668	21.4	382	6	0.808	0.597	13.210
DCB13.x-09	2	10.7	85.7	10	2.000	0.332	3.668	21.4	296	6	0.808	0.463	10.236
DCB13.x-10	2	10.7	85.7	10	2.000	0.332	3.668	21.4	210	6	0.808	0.328	7.262
DCB13.x-11	2	10.7	85.7	10	2.000	0.332	3.668	21.4	74	6	0.808	0.116	2.559
DCB14.1-01	2	10.7	85.7	10	2.000	0.332	3.668	21.4	396	6	0.808	0.619	13.695
DCB14.1-02	2	10.7	85.7	10	2.000	0.332	3.668	21.4	310	6	0.808	0.485	10.721
DCB14.1-03	2	10.7	85.7	10	2.000	0.332	3.668	21.4	224	6	0.808	0.350	7.746
DCB14.1-04	2	10.7	85.7	10	2.000	0.332	3.668	21.4	138	6	0.808	0.216	4.772
DCB14.1-05	2	10.7	85.7	10	2.000	0.332	3.668	21.4	52	6	0.808	0.081	1.798
DCB14.1-06	2	10.7	85.7	10	2.000	0.332	3.668	21.4	43	6	0.808	0.067	1.487
DCB14.1-07	2	10.7	85.7	10	2.000	0.332	3.668	21.4	74	6	0.808	0.116	2.559
DCB15.1-01	2	10.7	85.7	10	2.000	0.332	3.668	21.4	396	6	0.808	0.619	13.695
DCB15.1-02	2	10.7	85.7	10	2.000	0.332	3.668	21.4	310	6	0.808	0.485	10.721
DCB15.1-03	2	10.7	85.7	10	2.000	0.332	3.668	21.4	224	6	0.808	0.350	7.746
DCB15.1-04	2	10.7	85.7	10	2.000	0.332	3.668	21.4	138	6	0.808	0.216	4.772
DCB15.1-05	2	10.7	85.7	10	2.000	0.332	3.668	21.4	52	6	0.808	0.081	1.798
DCB15.1-06	2	10.7	85.7	10	2.000	0.332	3.668	21.4	43	6	0.808	0.067	1.487
DCB15.1-07	2	10.7	85.7	10	2.000	0.332	3.668	21.4	74	6	0.808	0.116	2.559
DCB15.1-08	2	10.7	85.7	10	2.000	0.332	3.668	21.4	74	6	0.808	0.116	2.559
DCB15.1-09	1	10.7	13.7	10	2.000	0.053	0.586	10.7	74	6	0.808	0.116	1.280

FEEDER VOLTAGE DROP CALCULATIONS: ARRAY M											
DCB	No. of Rack Inputs	IMP for DCB circuit	Feeder length	Feeder wire size	Feeder resistance	Feeder resistance	Voltage drop for feeder	Voltage drop for feeder	Voltage drop for circuit	VMP for circuit	Voltage drop for circuit
DCB#-##	#	AMP	FEET	KCMIL	OHM/KFT	OHM	VOLT	PERCENT	VOLT	VOLT	PERCENT
DCB13.1	11	235.40	106.5	600	0.035	0.007	1.770	0.15%	43.930	1165.00	3.77%
DCB13.2											