IN WITNESS WHEREOF, the Parties have executed this Amendment #2 as of the date first above written.

Buyer:	Developer
READINGTON TOWSHIP BOARD OF EDUCATION	READINGTON SOLAR PV LLC
By: _____	By: Ameresco, Inc., its sole member
	By: _____ James J. Walker, Vice President

EXHIBIT B

PRELIMINARY DESCRIPTION OF FACILITIES [UPDATE)

Name: Facility 1:Holland Brook School

Address: 52 Readington Road, Readington, NJ 08889

The final Facilities Description shall be the final As-Built drawings to be provided after Commercial Operation Date. The information below is preliminary and subject to change.

General Facilities Description:

1.	Facilities Size DC:	641.52 kW_DC at STC capacity
2.	Facilities Size AC:	492 kW_AC

Solar PV Panels:

1.	Manufacturer:	Heliene
2.	Model Number:	Heliene – 72M360
3.	Module Wattage:	360W
4.	Panel Count:	1,782
5.	Type:	Monocrystalline 72-cell Modules
6.	Array tilt:	25 degrees
7.	Warranty Information:	Free from defects in materials and workmanship for 10 years, 97.5% minimum production on year 1, and 25 year linear power output with 80% minimum production at year 25.

Inverters:

1.	Manufacturer:	Yaskawa Solectria
2.	Model Number:	PVI-28TL-480, PVI-36TL-480, PVI-60TL-480
3.	Number and size to be installed:	(2) 36 kW inverters (7) 60 kW inverters
4.	String size and Quantity:	18 panels per string with 99 total strings.
5.	Warranty Information:	10 Year standard warranty

Mounting Facilities:

1.	Manufacturer:	Genmounts

2.	Model Number:	Vector 1.0 post-driven
3.	Type:	Ground Mounted -Pole Driven

Data Acquisition Facilities (DAS):

1. Manufacturer: Draker Energy
2. Model: Draker PV 250 Base Station or equivalent

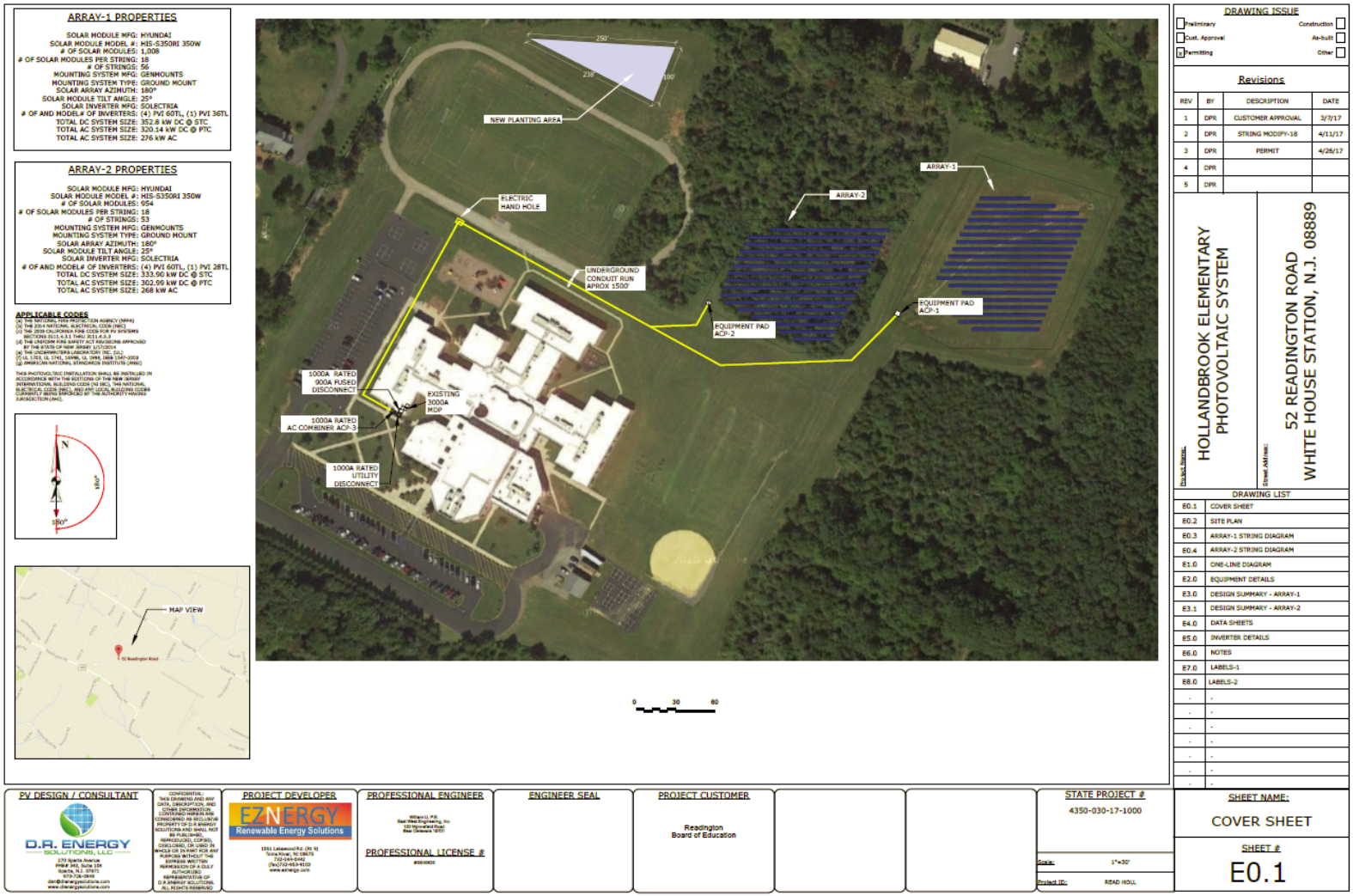
Landscaping:

A specific landscaping layout will be developed for the Holland Brook School that will allocate a portion of the $10,000 landscaping budget to tree replanting in the triangular area north of the track field and as designated in the orange boxes on the Conceptual Layout in Exhibit D. The plan will be a habitat-oriented planting plan developed in consultation with the Buyer. The replanted area will be enclosed by a wildlife resistant fence.

The $10,000 budget includes both Readington Middle School and Holland Brook School. If the Buyer requests landscaping in excess of the landscaping that can be supported by the Developer's $10,000 budget, the Developer shall be entitled to increase the Electricity Price for each $10,000 of additional costs in accordance with the following:

For each increase in landscaping costs of $10,000 in excess of the Developer's $10,000 landscaping budget	Electricity Price Change
For each $10,000 increment	$0.0005/kWh

Solar PV Facilities Layout:



Electrical Facilities Layout:

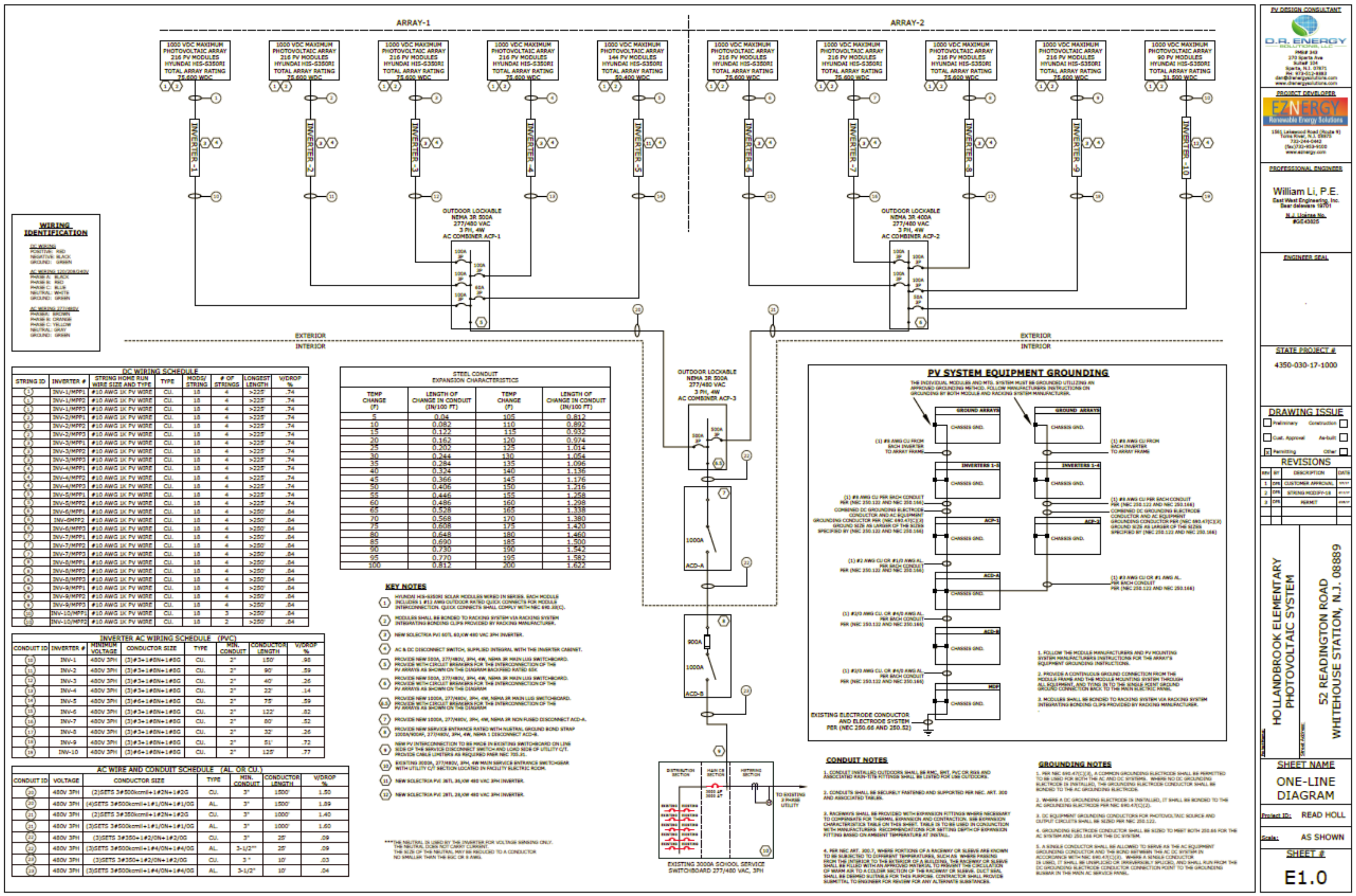


EXHIBIT B [UPDATE]

PRELIMINARY DESCRIPTION OF FACILITIES

Name: Facility 2:Readington Middle School

Address: 52 Readington Road, Readington, NJ 08889

The final Facilities Description shall be the final As-Built drawings to be provided after Commercial Operation Date. The information below is preliminary and subject to change.

General Facilities Description (rooftop):

3.	Facilities Size DC:	162.0 kW_DC at STC capacity
4.	Facilities Size AC:	132 kW_AC

General Facilities Description (ground mount):

5.	Facilities Size DC:	129.6 kW_DC at STC capacity
6.	Facilities Size AC:	110 kW_AC

(For the purpose of the Guaranteed kWh, the rooftop and the ground mount will be deemed one facility).

Solar PV Panels (rooftop):

8.	Manufacturer:	Heliene
9.	Model Number:	Heliene – 72M360
10.	Module Wattage:	360W
11.	Panel Count:	450
12.	Type:	Monocrystalline 72-cell Modules
13.	Array tilt:	5 degrees
14.	Warranty Information:	Free from defects in materials and workmanship for 10 years, 97.5% minimum production on year 1, and 25 year linear power output with 80% minimum production at year 25.

Solar PV Panels (ground mount):

15.	Manufacturer:	Heliene
16.	Model Number:	Heliene – 72M360

17.	Module Wattage:	360W
18.	Panel Count:	360
19.	Type:	Monocrystalline 72-cell Modules
20.	Array tilt:	25 degrees
21.	Warranty Information:	Free from defects in materials and workmanship for 10 years, 97.5% minimum production on year 1, and 25 year linear power output with 80% minimum production at year 25.

Inverters (rooftop):

6.	Manufacturer:	Yaskawa Solectria
7.	Model Number:	PVI-36TL-480, PVI-60TL-480
8.	Number and size to be installed:	(2) 36 kW inverters and (1) 60 kW inverter
9.	String size and Quantity:	18 and Quantity 25
10.	Warranty Information:	10 Year standard warranty

Inverters (ground mount):

11.	Manufacturer:	Yaskawa Solectria
12.	Model Number:	PVI 50-TL, PVI 60-TL
13.	Number and size to be installed:	(1) 50 kW inverter and (1) 60 kW inverters
14.	String size and Quantity:	18 and Quantity 20
15.	Warranty Information:	10 Year standard warranty

Mounting Facilities (rooftop):

4.	Manufacturer:	Genmount
5.	Model Number:	Genmounts LT
6.	Type:	Ballasted Solar Racking

Mounting Facilities (ground mount):

7.	Manufacturer:	Genmounts
8.	Model Number:	Vector 1.0 post-driven
9.	Type:	Ground Mounted -Pole Driven

Data Acquisition Facilities (DAS):

3. Manufacturer: Draker Energy
4. Model: Draker PV 250 Base Station or equivalent

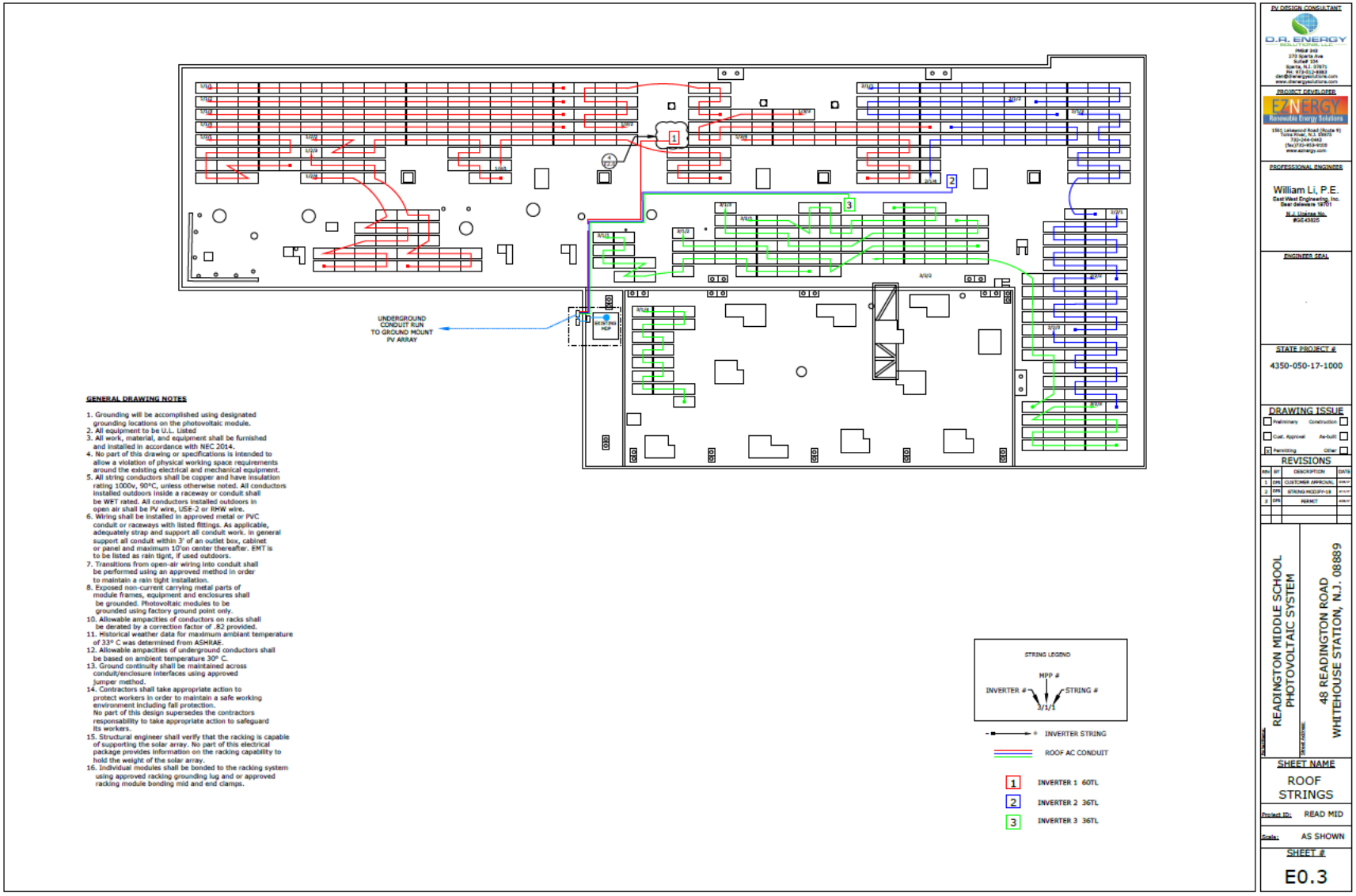
Landscaping:

A landscaping layout will be developed for the Readington Middle School that will allocate a portion of the $10,000 landscaping budget to screen the ground array in the front of the school where the buses currently park, by planting on the East along the driveway and the South along Readington Road, as portrayed in the orange boxes on the Conceptual Layout in Exhibit D. The landscaping will include a diverse mixture of plantings and will not consist of a monotype of a single species of plant.

The $10,000 budget includes both Readington Middle School and Holland Brook School. If the Buyer requests landscaping in excess of the landscaping that can be supported by the Developer's $10,000 budget, the Developer shall be entitled to increase the Electricity Price for each $10,000 of additional costs in accordance with the following:

For each increase in landscaping costs of $10,000 in excess of the Developer's $10,000 landscaping budget	Electricity Price Change
For each $10,000 increment	$0.0005/kWh

Solar PV Facilities Layout (Rooftop):



PV DESIGN CONSULTANT

D.R. ENERGY SOLUTIONS, LLC

PROJECT DEVELOPER

EZNERGY Renewable Energy Solutions

PROFESSIONAL ENGINEER

William Li, P.E.

ENGINEER SEAL

STATE PROJECT #

4350-050-17-1000

DRAWING ISSUE

REVISIONS

REV	BY	DESCRIPTION	DATE
1	DRN	CUSTOMER APPROVAL	##/##
2	DRN	STRING MODIFY-18	##/##
3	DRN	PERMIT	##/##

READINGTON MIDDLE SCHOOL PHOTOVOLTAIC SYSTEM

48 READINGTON ROAD WHITEHOUSE STATION, N.J. 08889

SHEET NAME

ROOF STRINGS

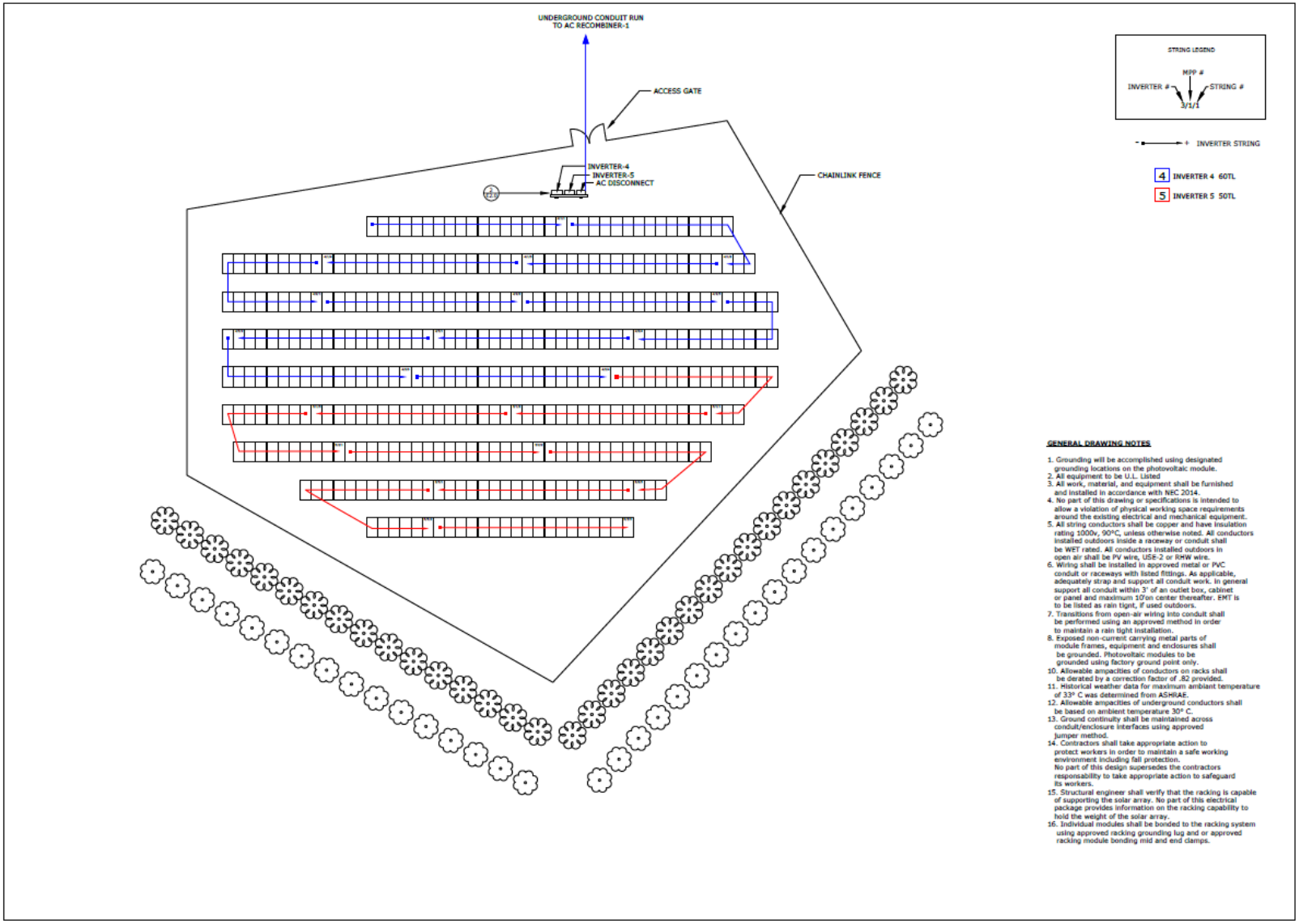
Project ID: READ MID

Scale: AS SHOWN

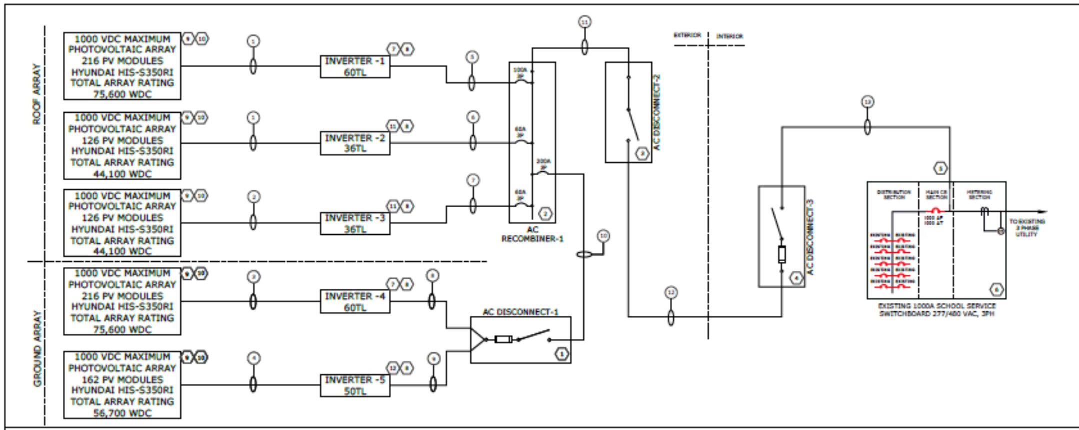
SHEET #

E0.3

Solar Facilities Layout (Ground mount):



Electrical Facilities Layout:



DC WIRING SCHEDULE							
CONDUIT ID	INVERTER #	STRING HOME RUN WIRE SIZE AND TYPE	TYPE	MODS/ STRING	# OF STRINGS	LONGEST LENGTH	V/DROP %
1	INV-1/MPP1	#10 AWG 1K PV WIRE	CU.	18	4	>100'	.34
1	INV-1/MPP2	#10 AWG 1K PV WIRE	CU.	18	4	>100'	.34
1	INV-1/MPP3	#10 AWG 1K PV WIRE	CU.	18	4	>100'	.34
2	INV-2/MPP1	#10 AWG 1K PV WIRE	CU.	18	4	>100'	.34
2	INV-2/MPP2	#10 AWG 1K PV WIRE	CU.	18	3	>100'	.34
3	INV-3/MPP1	#10 AWG 1K PV WIRE	CU.	18	4	>100'	.34
3	INV-3/MPP2	#10 AWG 1K PV WIRE	CU.	18	3	>125'	.34
4	INV-4/MPP1	#10 AWG 1K PV WIRE	CU.	18	4	>125'	.42
4	INV-4/MPP2	#10 AWG 1K PV WIRE	CU.	18	4	>125'	.42
4	INV-4/MPP3	#10 AWG 1K PV WIRE	CU.	18	4	>150'	.42
5	INV-5/MPP1	#10 AWG 1K PV WIRE	CU.	18	3	>150'	.42
5	INV-5/MPP2	#10 AWG 1K PV WIRE	CU.	18	3	>150'	.54
5	INV-5/MPP2	#10 AWG 1K PV WIRE	CU.	18	3	>150'	.54

INVERTER AC WIRING SCHEDULE (EMT)							
CONDUIT ID	INVERTER #	MINIMUM VOLTAGE	CONDUCTOR SIZE AND TYPE	TYPE	MIN. CONDUIT	CONDUCTOR LENGTH	V/DROP %
5	INV-1	480V 3PH	(3)#3+1#8N+1#8G	CU.	2"	100'	.71
6	INV-2	480V 3PH	(3)#6+1#8N+1#8G	CU.	2"	100'	.78
7	INV-3	480V 3PH	(3)#6+1#8N+1#8G	CU.	2"	100'	.78
8	INV-4	480V 3PH	(3)#3+1#8N+1#8G	CU.	2"	25'	.21
9	INV-5	480V 3PH	(3)#4+1#8N+1#8G	CU.	2"	25'	.22

AC WIRE AND CONDUIT SCHEDULE (EMT)						
CONDUIT ID	VOLTAGE	WIRE SIZE AND TYPE	TYPE	MIN. CONDUIT	CONDUCTOR LENGTH	V/DROP %
10	480V 3PH	(1)SET 3#4/0+1#6N+1#6G	CU.	2-1/2"	450'	1.39
10	480V 3PH	(2)SETS 3#3/0+1#4N+1#4G	AL.	2"	450'	1.39
11	480V 3PH	(2)SETS 3#3/0+1#3N+1#3G	CU.	2-1/2"	5'	.02
11	480V 3PH	(2)SETS 3#4/0+1#1/0N+1#1/0G	AL.	2-1/2"	5'	.03
12	480V 3PH	(2)SETS 3#3/0+1#3N+1#3G	CU.	2-1/2"	10'	.04
12	480V 3PH	(2)SETS 3#4/0+1#1/0N+1#1/0G	AL.	2-1/2"	10'	.05
13	480V 3PH	(2)SETS 3#3/0+1#3N+1#3G	CU.	2-1/2"	20'	.09
13	480V 3PH	(2)SETS 3#4/0+1#1/0N+1#1/0G	AL.	2-1/2"	20'	.11

KEY NOTES

1. PROVIDE NEW 100A/200AF, 277/480V, 3PH, 4W, NEMA 3R DISCONNECT.
2. PROVIDE NEW 400A, 277/480V, 3PH, 4W, NEMA 3R MAIN LUG SWITCHBOARD. PROVIDE WITH CIRCUIT BREAKERS FOR THE COMBINED INTERCONNECTION OF THE PV ARRAYS AS SHOWN ON THE DIAGRAM BACKFED RATED 65K.
3. PROVIDE NEW SERVICE ENTRANCE RATED W/NEUTRAL GROUND BOND STRAP 400A, 277/480V, 3PH, 4W, NEMA 3R NON FUSED DISCONNECT.
4. PROVIDE NEW 400A/400AF, 277/480V, 3PH, 4W, NEMA 1 DISCONNECT.
5. NEW PV INTERCONNECTION TO BE MADE IN EXISTING SWITCHBOARD ON LINE SIDE OF THE SERVICE DISCONNECT SWITCH AND LOAD SIDE OF UTILITY C/T. USE CABLE LIMITERS AS REQUIRED PER NEC 705.31.
6. EXISTING 1000A, 277/480V, 3PH, 4W MAIN SERVICE ENTRANCE SWITCHGEAR WITH UTILITY C/T SECTION LOCATED IN FACILITY ELECTRIC ROOM.
7. NEW SOLECTRIA PVI 60TL 60,KW 480 VAC 3PH INVERTER.
8. AC & DC DISCONNECT SWITCH, SUPPLIED INTEGRAL WITH THE INVERTER CABINET.
9. HYUNDAI HIS-S350RI SOLAR MODULES WIRED IN SERIES. EACH MODULE INCLUDES 1 #12 AWG OUTDOOR RATED QUICK CONNECTS FOR MODULE INTERCONNECTION. QUICK CONNECTS SHALL COMPLY WITH NEC 690.33(C).
10. MODULES SHALL BE BONDED TO RACKING SYSTEM VIA RACKING SYSTEM INTEGRATING BONDING CLIPS PROVIDED BY RACKING MANUFACTURER.
11. NEW SOLECTRIA PVI 36TL 36,KW 480 VAC 3PH INVERTER.
12. NEW SOLECTRIA PVI 50TL 50,KW 480 VAC 3PH INVERTER.

GROUNDING NOTES

1. PER NEC 690.47(C)(3), A COMMON GROUNDING ELECTRODE SHALL BE PERMITTED TO BE USED FOR BOTH THE AC AND DC SYSTEMS. WHERE NO DC GROUNDING ELECTRODE IS INSTALLED, THE GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED TO THE AC GROUNDING ELECTRODE.

2. WHERE A DC GROUNDING ELECTRODE IS INSTALLED, IT SHALL BE BONDED TO THE AC GROUNDING ELECTRODE PER NEC 690.47(C)(2).

3. DC EQUIPMENT GROUNDING CONDUCTORS FOR PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUITS SHALL BE SIZED PER NEC 250.122.

4. GROUNDING ELECTRODE CONDUCTOR SHALL BE SIZED TO MEET BOTH 250.66 FOR THE AC SYSTEM AND 250.166 FOR THE DC SYSTEM.

5. A SINGLE CONDUCTOR SHALL BE ALLOWED TO SERVE AS THE AC EQUIPMENT GROUNDING CONDUCTOR AND THE BOND BETWEEN THE AC DC SYSTEM IN ACCORDANCE WITH NEC 690.47(C)(3). WHERE A SINGLE CONDUCTOR IS USED, IT SHALL BE UNSPLICED OR IRREVERSIBLY SPLICED, AND SHALL RUN FROM THE DC GROUNDING ELECTRODE CONDUCTOR CONNECTION POINT TO THE GROUNDING BUSBAR IN THE MAIN AC SERVICE PANEL.

CONDUIT NOTES

1. CONDUIT INSTALLED OUTDOORS SHALL BE RMC, EMT, PVC OR RGS AND ASSOCIATED RAIN-TITE FITTINGS SHALL BE LISTED FOR USE OUTDOORS.

2. CONDUITS SHALL BE SECURELY FASTENED AND SUPPORTED PER NEC. ART. 300 AND ASSOCIATED TABLES.

3. RACEWAYS SHALL BE PROVIDED WITH EXPANSION FITTINGS WHERE NECESSARY TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION. SEE EXPANSION CHARACTERISTICS TABLE ON THIS SHEET. TABLE IS TO BE USED IN CONJUNCTION WITH MANUFACTURERS RECOMMENDATIONS FOR SETTING DEPTH OF EXPANSION FITTING BASED ON AMBIENT TEMPERATURE AT INSTALL.

4. PER NEC ART. 300.7, WHERE PORTIONS OF A RACEWAY OR SLEEVE ARE KNOWN TO BE SUBJECTED TO DIFFERENT TEMPERATURES, SUCH AS WHERE PASSING FROM THE INTERIOR TO THE EXTERIOR OF A BUILDING, THE RACEWAY OR SLEEVE SHALL BE FILLED WITH AN APPROVED MATERIAL TO PREVENT THE CIRCULATION OF WARM AIR TO A COLDER SECTION OF THE RACEWAY OR SLEEVE. DUCT SEAL SHALL BE DEEMED SUITABLE FOR THIS PURPOSE. CONTRACTOR SHALL PROVIDE SUBMITTAL TO ENGINEER FOR REVIEW FOR ANY ALTERNATE SUBSTANCES.

CABLE TRAY NOTES

1. CABLE TRAY AND ALL ASSOCIATED SPLICING/CONNECTION AND MOUNTING HARDWARE INSTALLED OUTDOORS SHALL BE GALVANIZED AND RATED FOR OUTDOOR INSTALLATION.

2. WHERE FIELD CUTS AND BENDS ARE REQUIRED, NO SHARP EDGES OR BURRS SHALL REMAIN AFTER CUTTING. WHERE BENDING RESULTS IN CHAFFING OF WIRE AGAINST EDGES OF TRAY, SUITABLE INSULATING MATERIAL SHALL BE INSTALLED BETWEEN CONDUCTOR AND TRAY TO PREVENT ABRASION.

3. CABLE TRAY SHALL BE GROUNDING AND BONDED PER NEC REQUIREMENTS USING MANUFACTURER APPROVED GROUNDING CONNECTION KIT.

4. CABLE TRAY SHALL PROVIDE INTEGRAL WIRE SUPPORT PER NEC, SUPPORTED EVERY 12" AND SECURED EVERY 4'.

STEEL CONDUIT EXPANSION CHARACTERISTICS			
TEMP CHANGE (F)	LENGTH OF CHANGE IN CONDUIT (IN/100 FT)	TEMP CHANGE (F)	LENGTH OF CHANGE IN CONDUIT (IN/100 FT)
5	0.04	105	0.812
10	0.082	110	0.892
15	0.122	115	0.932
20	0.162	120	0.974
25	0.202	125	1.014
30	0.244	130	1.054
35	0.284	135	1.096
40	0.324	140	1.136
45	0.366	145	1.176
50	0.406	150	1.216
55	0.446	155	1.258
60	0.486	160	1.298
65	0.528	165	1.338
70	0.568	170	1.380
75	0.608	175	1.420
80	0.648	180	1.460
85	0.690	185	1.500
90	0.730	190	1.542
95	0.770	195	1.582
100	0.812	200	1.622

WIRING IDENTIFICATION

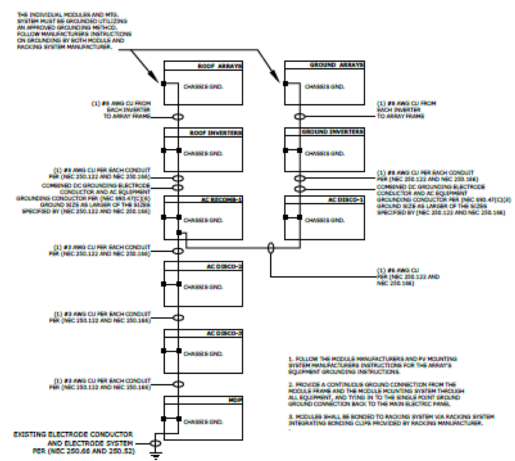
DC WIRING
POSITIVE: RED
NEGATIVE: BLACK
GROUND: GREEN

AC WIRING 120/208/240V
PHASE A: BLACK
PHASE B: RED
PHASE C: BLUE
NEUTRAL: WHITE
GROUND: GREEN

AC WIRING 277/480V
PHASE A: BROWN
PHASE B: ORANGE
PHASE C: YELLOW
NEUTRAL: GRAY
GROUND: GREEN

***THE NEUTRAL IS USED BY THE INVERTER FOR VOLTAGE SENSING ONLY. THE NEUTRAL DOES NOT CARRY CURRENT. THE SIZE OF THE NEUTRAL MAY BE REDUCED TO A CONDUCTOR NO SMALLER THAN THE EGC OR 8 AWG.

PV SYSTEM EQUIPMENT GROUNDING



1. FOLLOW THE MODULE MANUFACTURERS AND PV MOUNTING SYSTEM MANUFACTURERS INSTRUCTIONS FOR THE ARRAY'S EQUIPMENT GROUNDING INSTRUCTIONS.

2. PROVIDE A CONTINUOUS GROUND CONNECTION FROM THE MODULE FRAME AND THE MODULE MOUNTING SYSTEM THROUGH ALL EQUIPMENT, AND TYING IN TO THE SINGLE POINT GROUND GROUND CONNECTION BACK TO THE MAIN ELECTRIC PANEL.

3. MODULES SHALL BE BONDED TO RACKING SYSTEM VIA RACKING SYSTEM INTEGRATING BONDING CLIPS PROVIDED BY RACKING MANUFACTURER.

PV DESIGN CONSULTANT
D.R. ENERGY SOLUTIONS, LLC
PMB# 343
370 Sparta Ave
Suite# 104
Sparta, N.J. 07871
PH: 973-512-8883
dan@drenergysolutions.com
www.drenergysolutions.com

PROJECT DEVELOPER
EZNERGY Renewable Energy Solutions
1581 Lakewood Road (Route 9)
Toms River, N.J. 08755
732-244-0442
(fax)732-903-9100
www.eznergy.com

PROFESSIONAL ENGINEER
William Li, P.E.
East West Engineering, Inc.
Bear delaware 19701
N.J. License No.
#GE43805

ENGINEER SEAL

STATE PROJECT #
4350-050-17-1000

DRAWING ISSUE
☐ Preliminary ☐ Construction
☐ Cust. Approval ☐ As-built
☒ Permitting ☐ Other

REVISIONS			
REV	BY	DESCRIPTION	DATE
1	DPR	CUSTOMER APPROVAL	[illegible]
2	DPR	STRING MODIFY-18	[illegible]
3	DPR	PERMIT	[illegible]

READINGTON MIDDLE SCHOOL PHOTOVOLTAIC SYSTEM
48 READINGTON ROAD WHITEHOUSE STATION, N.J. 08889

SHEET NAME
ONE-LINE DIAGRAM

Project ID: READ MID

Scale: AS SHOWN

SHEET #
E1.0

EXHIBIT B

PRELIMINARY DESCRIPTION OF FACILITIES

Name: Three Bridges Elementary School

Address: 480 Main Street, Readington, NJ 08887

The final Facilities Description shall be the final As-Built drawings to be provided after Commercial Operation Date. The information below is preliminary and subject to change.

General Facilities Description:

7. Facilities Size DC:	136.08 kW_DC at STC capacity
8. Facilities Size AC:	108 kW_AC

Solar PV Panels:

22. Manufacturer:	Heliene
23. Model Number:	Heliene – 72M360
24. Module Wattage:	360W
25. Panel Count:	378
26. Type:	Monocrystalline 72-cell Modules
27. Array tilt:	5 degrees (flat roof) and 6.5 degrees (pitched)
28. Warranty Information:	Free from defects in materials and workmanship for 10 years, 97.5% minimum production on year 1, and 25 year linear power output with 80% minimum production at year 25.

Inverters:

16. Manufacturer:	Yaskawa Solectria
17. Model Number:	PVI 36-TL
18. Number and size to be installed:	(3) PVI 36-TL
19. String size and Quantity:	18 and Quantity of 21
20. Warranty Information:	10 Year standard warranty

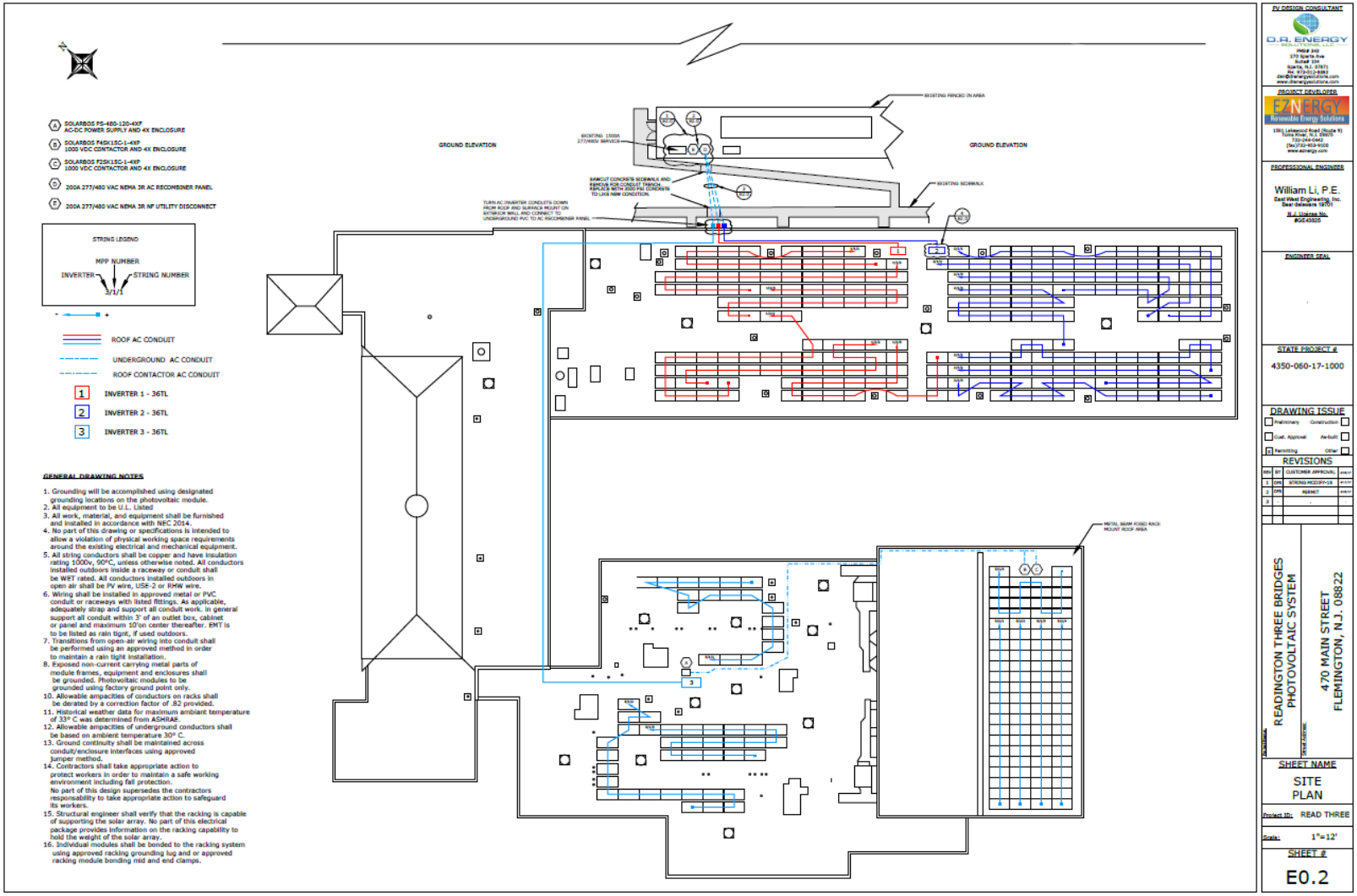
Mounting Facilities:

10. Manufacturer:	Genmounts
11. Model Number:	Gemounts LT , Genmounts FastPitch
12. Type:	Ballasted Rooftop, Pitched Rooftop

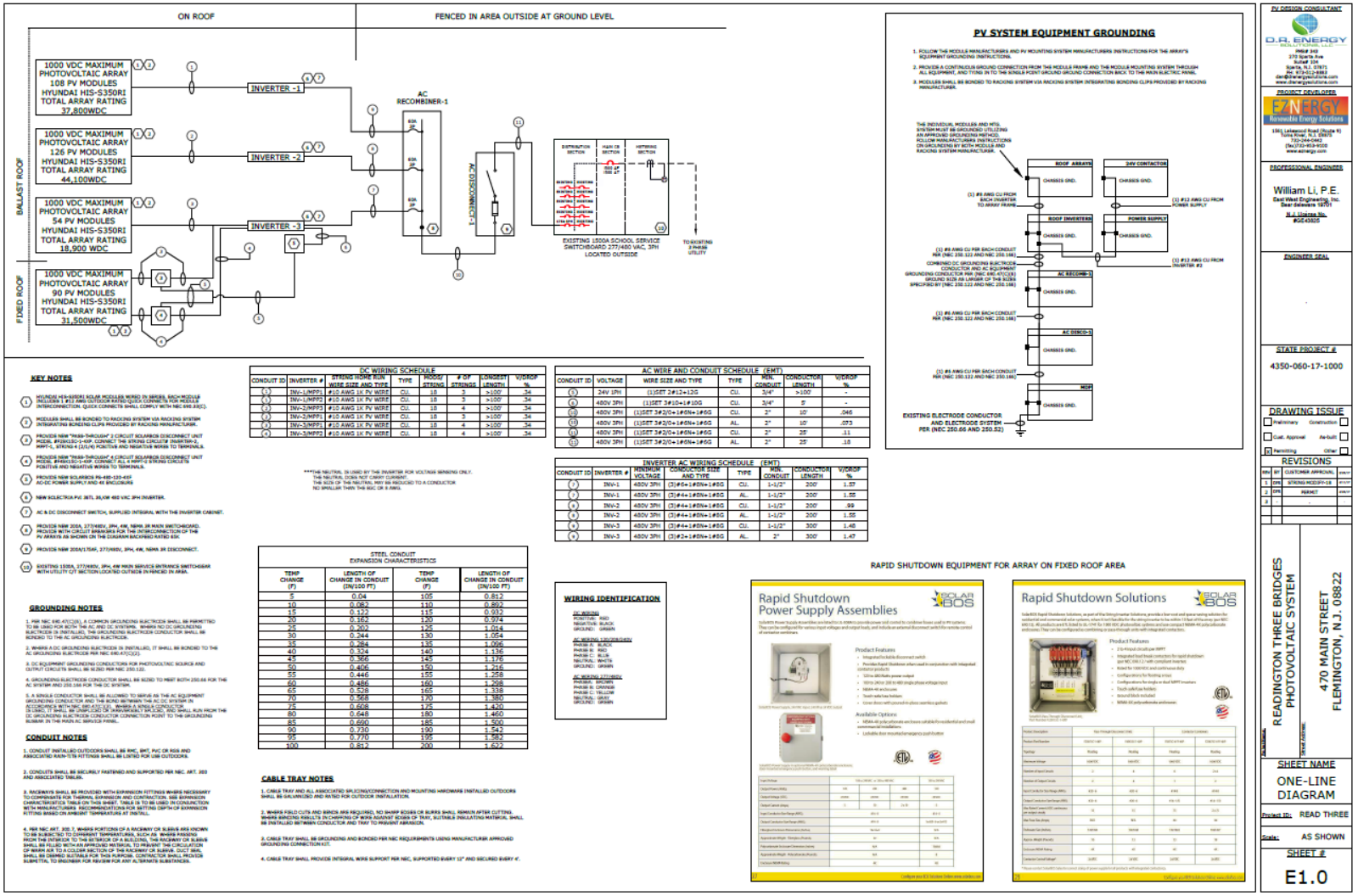
Data Acquisition Facilities (DAS):

5. Manufacturer: Draker Energy
6. Model: Draker PV 250 Base Station or equivalent

Solar PV Facilities Layout:



Electrical Facilities Layout:



PV DESIGN CONSULTANT

D.R. ENERGY SOLUTIONS, LLC

PROJECT DEVELOPER

EZNERGY Renewable Energy Solutions

PROFESSIONAL ENGINEER

William Li, P.E.
East West Engineering, Inc.
Deer Delaware 19701
N.J. License No.
#GE43625

ENGINEER SEAL

STATE PROJECT #

4350-060-17-1000

DRAWING ISSUE

- [ ] Preliminary
- [ ] Construction
- [ ] Cust. Approval
- [ ] As-built
- [x] Permitting
- [ ] Other

REVISIONS

REV.	BY	CUSTOMER APPROVAL	DESCRIPTION
1	DPS		STRING MODIFY-DS
2	DPS		PERMIT
3			
4			

READINGTON THREE BRIDGES PHOTOVOLTAIC SYSTEM

470 MAIN STREET
FLEMINGTON, N.J. 08822

SHEET NAME

ONE-LINE DIAGRAM

Project ID: READ THREE

Scale: AS SHOWN

SHEET #

E1.0

EXHIBIT C

AGREEMENT PROVISIONS

Annual Facilities Degradation Factor	0.5%
EDC	Jersey Central Power and Light
Buyers Representative	***The Buyer's Representative shall be Gabel Associates. Developer shall direct all communications and requests for information to Buyer through the Buyer's Representative at all times until the point of Commercial Operation of all of the Facilities.***

Electricity Price

Readington Board of Education		
Electricity Price		
First Year Rate ($/kWh)	$	0.06799
Annual Rate Escalator		1.99%
Year	**Electricity Price**	
	($/kWh)	
1		0.06799
2		0.06934
3		0.07072
4		0.07213
5		0.07357
6		0.07503
7		0.07652
8		0.07805
9		0.07960
10		0.08118
11		0.08280
12		0.08445
13		0.08613
14		0.08784
15		0.08959

Guaranteed kWh: [on a per facility basis]

True Up Term Years	***Holland Brook School Guaranteed kWh***
Years 1-5	***3,698,375***

Years 6-10	***3,606,836***
Years 11-15	***3,517,562***

True Up Term Years	***Readington Middle School Guaranteed kWh***
Years 1-5	***1,584,113***
Years 6-10	***1,544,904***
Years 11-15	***1,506,666***

True Up Term Years	***Three Bridges School Guaranteed kWh***
Years 1-5	***705,997***
Years 6-10	***688,523***
Years 11-15	***671,481***

EXHIBIT K

Holland Brook School Ground Mount

NREL

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The expected range is based on 30 years of actual weather data at the given location and is intended to provide an indication of the variation you might see. For more information, please refer to this NREL report: The Error Report.

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The energy output range is based on analysis of 30 years of historical weather data for nearby , and is intended to provide an indication of the possible interannual variability in generation for a fixed (open rack) PV system at this location.

RESULTS

830,121 kWh per Year *

System output may range from 798,494 to 869,552kWh per year near this location.

Month	Solar Radiation (kWh / m² / day)	AC Energy (kWh)	Energy Value ($)
January	2.94	51,300	6,464
February	3.67	56,965	7,178
March	4.44	74,234	9,353
April	4.97	77,566	9,773
May	5.65	88,481	11,149
June	5.78	85,451	10,767
July	5.67	85,553	10,780
August	5.46	81,813	10,308
September	4.99	74,375	9,371
October	4.15	66,002	8,316
November	2.82	45,549	5,739
December	2.49	42,833	5,397
Annual	4.42	830,122	$ 104,595

User Comments

Readington Holland Brook School

Location and Station Identification

Requested Location	Whitehouse Station New Jersey
Weather Data Source	(TMY2) NEWARK, NJ 31 mi
Latitude	40.7° N
Longitude	74.17° W

PV System Specifications *(Residential)*

DC System Size	641.52 kW
Module Type	Standard
Array Type	Fixed (open rack)
Array Tilt	25°
Array Azimuth	180°
System Losses	14%
Inverter Efficiency	96%
DC to AC Size Ratio	1.1

Economics

Average Cost of Electricity Purchased from Utility	0.13 $/kWh

Performance Metrics

Readington Middle School Rooftop

NREL

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The energy output range is based on analysis of 30 years of historical weather data for nearby , and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

RESULTS

187,862 kWh per Year *

System output may range from 180,704 to 196,785kWh per year near this location.

Month	Solar Radiation (kWh / m² / day)	AC Energy (kWh)	Energy Value ($)
January	2.17	9,293	1,171
February	2.96	11,394	1,436
March	3.90	16,338	2,059
April	4.73	18,572	2,340
May	5.65	22,227	2,801
June	5.93	21,966	2,768
July	5.73	21,714	2,736
August	5.29	19,879	2,505
September	4.48	16,755	2,111
October	3.39	13,462	1,696
November	2.17	8,624	1,087
December	1.83	7,637	962
Annual	4.02	187,861	$ 23,672

User Comments

Readington Middle School Roof

Location and Station Identification

Requested Location	Whitehouse Station New Jersey
Weather Data Source	(TMY2) NEWARK, NJ 31 mi
Latitude	40.7° N
Longitude	74.17° W

PV System Specifications *(Residential)*

DC System Size	162 kW
Module Type	Standard
Array Type	Fixed (roof mount)
Array Tilt	5°
Array Azimuth	171°
System Losses	14%
Inverter Efficiency	96%
DC to AC Size Ratio	1.1

Economics

Average Cost of Electricity Purchased from Utility	0.13 $/kWh

Performance Metrics

Readington Middle School Ground Mount

NREL

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The energy output range is based on analysis of 30 years of historical weather data for nearby , and is intended to provide an indication of the possible interannual variability in generation for a fixed (open rack) PV system at this location.

RESULTS

167,701 kWh per Year *

System output may range from 161,312 to 175,867kWh per year near this location.

Month	Solar Radiation (kWh / m² / day)	AC Energy (kWh)	Energy Value ($)
January	2.94	10,364	1,306
February	3.67	11,508	1,450
March	4.44	14,997	1,890
April	4.97	15,670	1,974
May	5.65	17,875	2,252
June	5.78	17,263	2,175
July	5.67	17,283	2,178
August	5.46	16,528	2,083
September	4.99	15,025	1,893
October	4.15	13,334	1,680
November	2.82	9,202	1,159
December	2.49	8,653	1,090
Annual	4.42	167,702	$ 21,130

User Comments

Readington Middle School Ground

Location and Station Identification

Requested Location	Whitehouse Station New Jersey
Weather Data Source	(TMY2) NEWARK, NJ 31 mi
Latitude	40.7° N
Longitude	74.17° W

PV System Specifications *(Residential)*

DC System Size	129.6 kW
Module Type	Standard
Array Type	Fixed (open rack)
Array Tilt	25°
Array Azimuth	180°
System Losses	14%
Inverter Efficiency	96%
DC to AC Size Ratio	1.1

Economics

Average Cost of Electricity Purchased from Utility	0.13 $/kWh

Performance Metrics

Three Bridges Elementary School Rooftop

NREL

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The energy output range is based on analysis of 30 years of historical weather data for nearby , and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

RESULTS

158,465 kWh per Year *

System output may range from 152,428 to 165,992kWh per year near this location.

Month	Solar Radiation (kWh / m^2 / day)	AC Energy (kWh)	Energy Value ($)
January	2.20	7,914	997
February	2.98	9,652	1,216
March	3.92	13,793	1,738
April	4.74	15,638	1,970
May	5.66	18,690	2,355
June	5.93	18,451	2,325
July	5.74	18,260	2,301
August	5.30	16,730	2,108
September	4.50	14,135	1,781
October	3.42	11,394	1,436
November	2.19	7,310	921
December	1.85	6,499	819
Annual	4.04	158,466	$ 19,967

User Comments

Readington Three Bridges

Location and Station Identification

Requested Location	Whitehouse Station New Jersey
Weather Data Source	(TMY2) NEWARK, NJ 31 mi
Latitude	40.7° N
Longitude	74.17° W

PV System Specifications *(Residential)*

DC System Size	136.08 kW
Module Type	Standard
Array Type	Fixed (roof mount)
Array Tilt	5.5°
Array Azimuth	181°
System Losses	14%
Inverter Efficiency	96%
DC to AC Size Ratio	1.1

Economics

Average Cost of Electricity Purchased from Utility	0.13 $/kWh

Performance Metrics

For the Weather Adjustment Factor = X/Y, the monthly insolation values for X, from PVWatts, are:

Holland Brook Middle School:

Month	Solar Radiation (kWh / m^2 / day)
January	2.94
February	3.67
March	4.44
April	4.97
May	5.65
June	5.78
July	5.67
August	5.46
September	4.99
October	4.15
November	2.82
December	2.49

Readington Middle School:

Month	Solar Radiation (kWh / m^2 / day)
January	2.17
February	2.96
March	3.90
April	4.73
May	5.65
June	5.93
July	5.73
August	5.29
September	4.48
October	3.39
November	2.17
December	1.83

Three Bridges School:

Month	Solar Radiation (kWh / m^2 / day)
January	2.20
February	2.98
March	3.92
April	4.74
May	5.66
June	5.93
July	5.74
August	5.30
September	4.50
October	3.42
November	2.19
December	1.85

Sample annual Weather Adjustment Factor X/Y calculation for Three Bridges School:

Month	Actual Measured Insolation (X)	Estimated Insolation from PVWatts (Y)	X/Y
January	2.13	2.12	1.00
February	2.6	2.89	0.90
March	3.64	3.84	0.95
April	4.69	4.69	1.00
May	5.6	5.63	0.99
June	5.9	5.9	1.00
July	5.89	5.72	1.03
August	5.3	5.25	1.01
September	4.12	4.42	0.93
October	3.1	3.31	0.94
November	2.09	2.09	1.00
December	1.65	1.77	0.93
		Average Annual Weather Adjustment Factor	0.97