

SCOPE OF WORK SCOPE OF WORK IS SOLELY FOR THE INSTALLATION OF THE SOLAR ELECTRONIC GENERATING SYSTEM, ALL OTHER WORK IS NOT TO BE RELIED UPON AS BEING APPROVED AND/OR PERMITTED BY THE BUILDINGS DEPARTMENT.

SYSTEM SUMMARY

(448) Solar Modules 395W (7,840 sqft) Solar Connection Racking (3)Chint Power 50.0kW Inverter (1)300A 52IT Solar AC Combiner Panel (1)150 kVa MGM 3 Phase Transformer (1)89L 300A AC Disconnect Switches

APPLICABLE CODES

All materials, equipment, installation and work shall comply with the following applicable codes:

2017 National Electrical Code 2020 New York State Building Code 2020 New York State Existing Building Code 2020 New York State Fire Code

PHOTOVOLTAIC SYSTEM IS COMPLIANT WITH SECTIONS 1204.2, 1204.2.1-3 OF THE NYS 2020 FIRE CODE

PHOTOVOLTAIC SYSTEM IS EQUIPPED WITH RAPID SHUTDOWN

SCALE: 1"=20'-0"			(IN FEET)
0	15'	30'	6

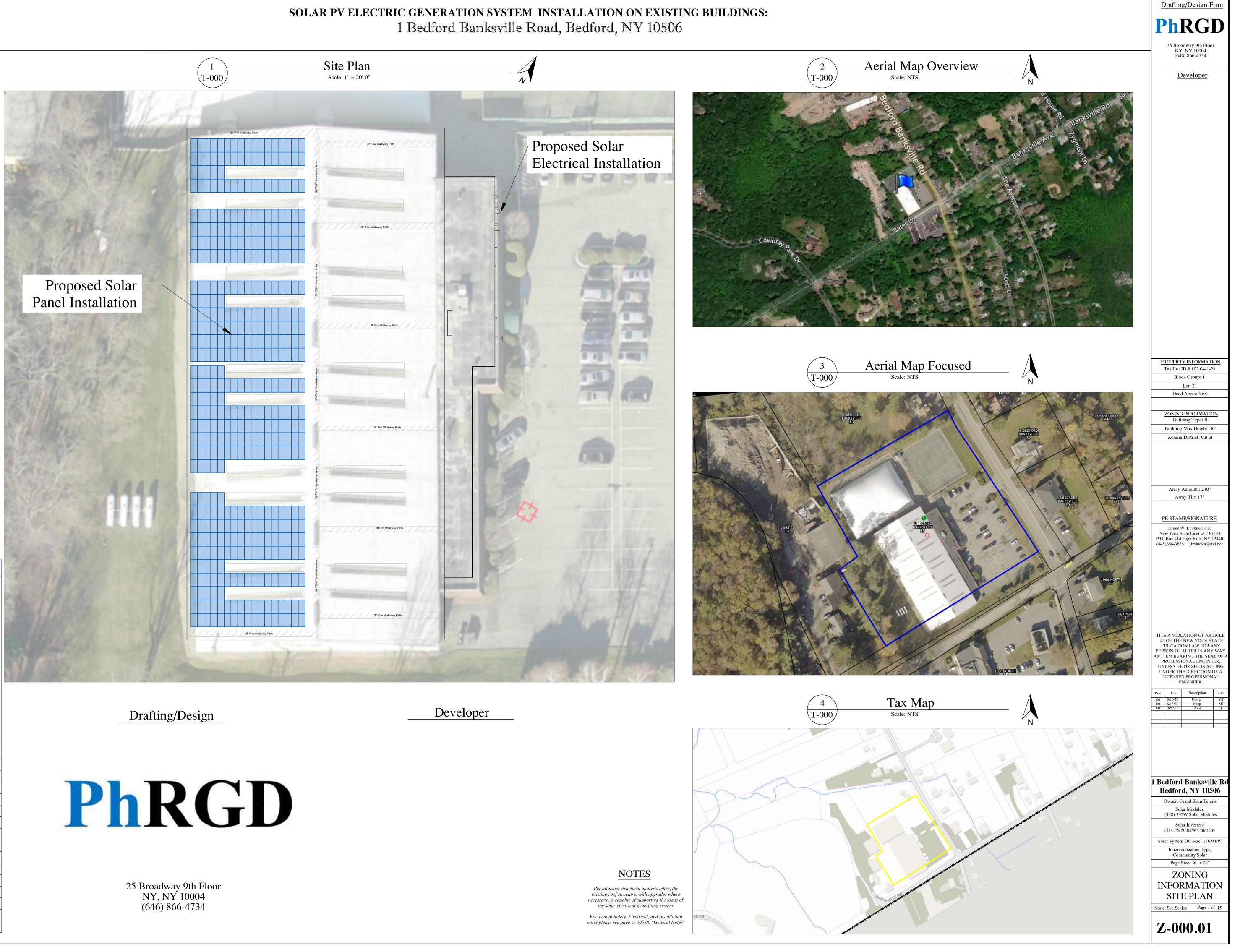
DESIGN CRITERIA

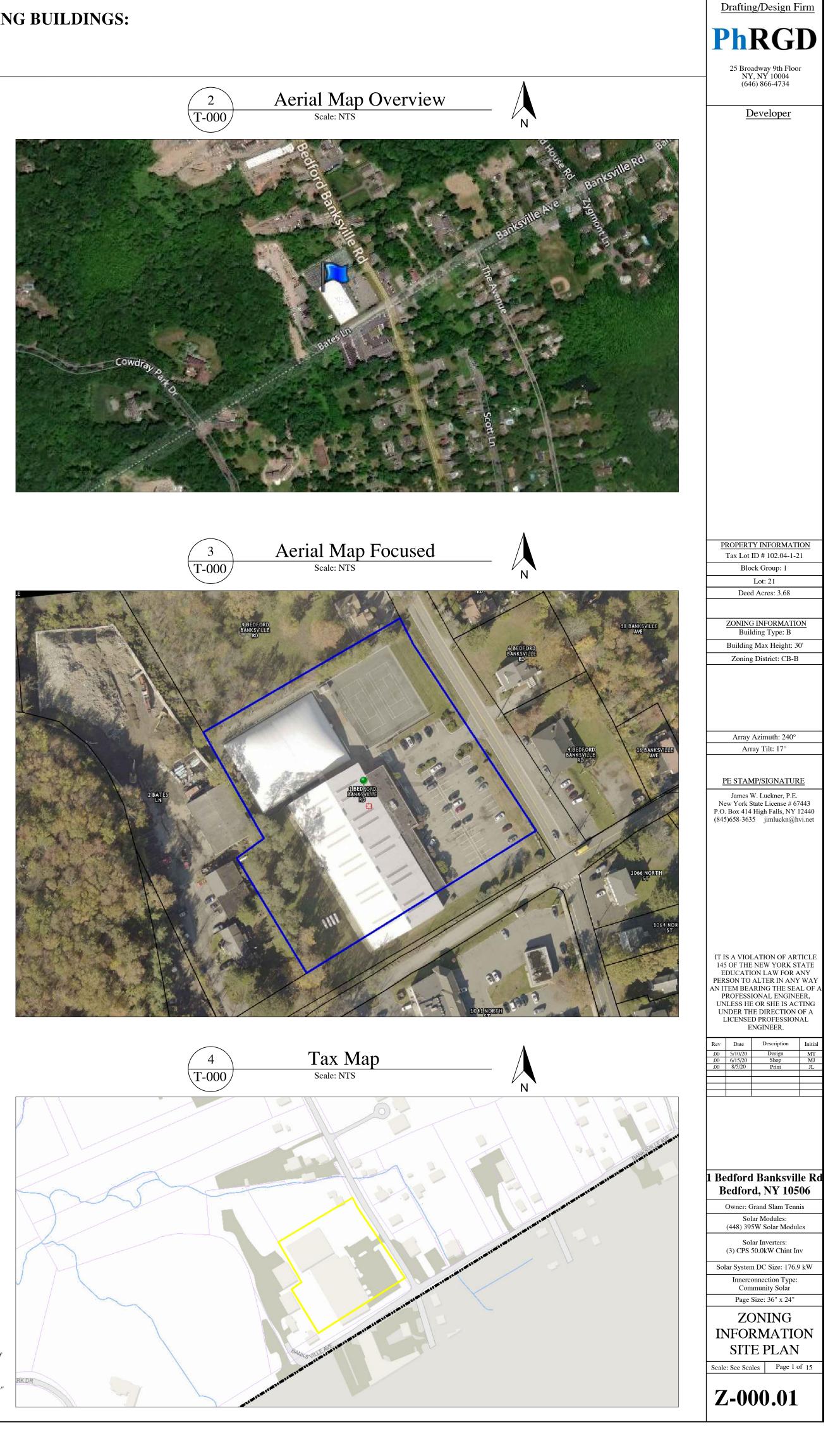
В
44 ft
44 ft
30 ft
n roof shall exceed the allowable
zoning commission of the town.*

Snow Load:	
Ground Snow Load:	30 psf
Exposure Factor:	1.0
Importance Factor:	1.0
Flat Roof Snow Load:	21 psf
Thermal Factor:	1.0
Drift Surcharge:	33.5 psf
Drift Width:	10.9 ft
Wind Design	
Ultimate Design Speed:	115 mph
Risk category:	II
Exposure Category:	В
Topograhic Effects:	no
Special Wind Region:	no

DRAWING INDEX

1	Zoning Information, Site Plan	Z-000.00			
2	General Notes	G-000.00			
3	Building Overview	A-000.00			
4	Racking Overview	A-001.00			
5	Racking Details	A-002.00			
6	AC Electrical Wiring Diagram	E-000.00			
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13	Monitoring Diagram	E-200.00			
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CONTRACTOR NOTES

- 1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE SYSTEM DESIGN ENGINEEROF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS.
- 2. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL WORK AS SHOWN IN THE CONSTRUCTION DOCUMENTS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE PERFORMED IN AN ORDERLY, WORKMANLIKE AND SAFE MANNER BY WORKERS SKILLED AND EXPERIENCED IN THEIR TRADES.
- 3. ALL REQUIRED AND NECESSARY PERMITS SHALL BE SECURED FROM ALL MUNICIPAL AGENCIES HAVING JURISDICTION AT THE COST AND EXPENSE OF THE CONTRACTORS PRIOR TO THE START OF WORK.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS TO BE WITNESSED BY THE AHJ AND/OR THE OWNER. THE CONTRACTOR SHALL WORK WITH THE OWNER'S INSPECTION AGENCY TO PLAN THE INSPECTIONS, AND NOTIFY ALL PARTIES INVOLVED SUFFICIENTLY IN ADVANCE TO ALLOW THE INSPECTIONS TO TAKE PLACE IN A TIMELY MANNER AND NOT DELAY THE PROGRESS OF THE WORK. THE OWNER AND SYSTEM DESIGN ENGINEER WILL NOT BE RESPONSIBLE FOR SCHEDULING. ARRANGING OR COORDINATING THE INSPECTIONS.
- 5. CONTRACTOR SHALL FURNISH ALL NECESSARY BOXES, OUTLETS, SUPPORTS, CONDUITS, FITTINGS, AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS, AND THE BEST PRACTICE OF THE TRADE FOR THE INSTALLATION OF ELECTRICAL WORK.
- 6. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION. CONTRACTORS SHALL ARRANGE ALL PARTS OF THIS WORK AND EQUIPMENT IN PROPER RELATION TO THE WORK AND EQUIPMENT OF OTHERS AND WITH BUILDING CONSTRUCTION AND ARCHITECTURAL FINISH SO THAT IT WILL HARMONIZE IN SERVICE AND APPEARANCE.

TENANT SAFETY NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE AREAS WHERE WORK IS TAKING PLACE, AS WELL AS ANY ADJOINING AREAS WHICH MAY BE AFFECTED BY THE WORK, TO PREVENT SUBJECTING THE OCCUPANTS, STRUCTURES, VEHICLES, EQUIPMENT, OR ANY OTHER PARTS OR CONTENTS OF THE SITE TO HAZARD OR DAMAGE.
- 2. CONSTRUCTION SHALL BE PERMITTED DURING NORMAL BUSINESS HOURS 8AM TO 5PM AND SHALL NOT EXCEED PAST THESE TIMES
- 3. THE CONTRACTOR SHALL, AT ALL TIMES DURING THE WORK, MAINTAIN ACCESSIBILITY FROM THE STREET TO ALL FIRE HYDRANTS, POWER OR LIGHT POLES, AND SIMILAR UTILITY AND PUBLIC SERVICE ITEMS WITHIN OR ADJACENT TO THE CONSTRUCTION SITE.
- 4. WORK SHALL NOT RESTRICT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUITION FACILITIES (POWER POLES, PULLBOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTENANCES, ETC.) OR TO THE LOCATION OF THE HOOKUP.
- 5. THE OWNERS AND THE AHJ SHALL BE NOTIFIED IN WRITING IN ADVANCE OF ANY REQUIRED CONSTRUCTION OPERATION THAT WILL INVOLVE INTERRUPTION OF THE HEATING, WATER, FIRE PROTECTION SYSTEMS, TELEPHONE, GAS OR ELECTRICAL SERVICES TO THE OTHER BUILDINGS AND AREAS OF THE SITE. THE CONTRACTOR SHALL COORDINATE ANY REQUIRED SHUTDOWN OF THE UTILITIES WITH THE OWNERS, THE AHJ, AND THE UTILITY COMPANY.
- 6. ANY DAMAGE TO SURROUNDING PROPERTIES INCLUDING SIDEWALKS, CURBS, TREES, AND STREET SHALL BE REPAIRED SATISFACTORILY TO ORIGINAL CONDITIONS.
- 7. PERSONAL PROTECTIVE EQUIPMENT (PE) SHALL BE PROVIDED AS REQUIRED IN ACCORDANCE WITH NEC 70E AND OSHA REQUIREMENTS

GENERAL NOTES

- 1. THE GENERAL NOTES APPLY TO ALL DRAWINGS UNDER THE CONTRACT. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.
- 2. UNFORESEEN OBSTRUCTIONS ON THE ROOF MAY REOUIRE A CHANGE IN THE LAYOUT, ANY CHANGES TO THE RACKING LAYOUT SHOULD BE ES TO THE ARRAY LAYOUT SHOUI BE MADE AS TO NOT IMPACT THE NUMBER OF MODULES ON A COMBINER BOX OR INVERTER.
- 3. DRAWINGS ARE DIAGRAMS AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT OF WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS.

PHOTOVOLTAIC NOTES

- 1. ALL ASPECTS OF WORK RELATED TO THE SOLAR PHOTOVOLTAIC (PV) SYSTEM SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES, UTILITY REOUIREMENTS, AND THE NEC, ESPECIALLY ARTICLE 690.
- 2. SOLAR PV MODULE FRAMES SHALL BE BONDED TO RACKING RAIL OR BARE COPPER E.G.C. PER THE MODULE MANUFACTURER'S LISTED INSTRUCTION SHEET.
- 3. SOLAR PV SYSTEMS SHALL BE GROUNDED IN ACCORDANCE WITH NEC 690 PART V: GROUNDING.
- 4. COMBINER BOXES, FUSING, WIRE SIZES, QUANTITIES AND CONDUIT SIZES BETWEEN SOLAR ARRAYS AND INVERTERS TO BE VERIFIED BY CONTRACTOR WITH SOLAR MODULE AND INVERTER MANUFACTURERS BEFORE INSTALLATION.
- 5. ALL PV SOURCE CIRCUIT CONDUCTORS AND CONNECTORS SHALL BE SUPPORTED AND SECURED WITHOUT EXCESSIVE STRESS. NO WIRING SHALL BE
- PERMITTED TO TOUCH THE ROOF SURFACE. 6. PV SOURCE CIRCUIT CONDUCTORS EXPOSED BETWEEN ARRAYS SHALL BE SECURED ON BOTH SIDES, AND BE PROTECTED FROM PHYSICAL DAMAGE
- AND ABRASION, INCLUDING FROM EDGES OF RACKING, CHANNEL EDGES, WIRE TRAYS, ETC.
- 7. ANY CABLE TIES USED SHALL BE HEAT STABILIZED (-40C TO 105C), UV STABILIZED AND OUTDOOR RATED, SUITABLE AND DURABLE FOR THE ENVIRONMENT AND LIFE OF THE PV SYSTEM.
- 8. WHERE EXPOSED TO SUNLIGHT, CONDUCTORS SHALL BE LISTED AND MARKED AS SUNLIGHT RESISTANT.
- 9. ALL EQUIPMENT GROUND CONDUCTORS SMALLER THAN AWG #6 SHALL BE PROTECTED FROM PHYSICAL DAMAGE BY AN IDENTIFIED RACEWAY OR CABLE ARMOR UNLESS INSTALLED WITHIN THE HOLLOW SPACES OF THE FRAMING MEMBERS OF BUILDINGS OR STRUCTURES AND WHERE NOT SUBJECT TO PHYSICAL DAMAGE.

EQUIPMENT NOTES

1. ALL MATERIALS, SUPPLIES, AND EQUIPMENT SHALL BE LISTED, USED, AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS, AND APPLICABLE NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) REQUIREMENTS.

- 2. ALL EQUIPMENT SHALL BE RATED FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.
- 3. WORKING SPACE AROUND ELECTRIAL EQUPMENT SHALL COMPLY WITH NEC 110.26.
- 4. THE APPROXIMATE LOCATIONS OF ALL JUNCTION BOXES, COMBINER BOXES, CONDUITS, ETC. SHALL BE DETERMINED FROM THE DRAWINGS, AND VERIFIED BY THE CONTRACTOR FOR INSTALLATION.
- 5. ALL JUNCTION BOXES, COMBINER BOXES, AND DISCONNECTS SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION.
- 6. PROVIDE NEMA 3R RATED EQUIPMENT OR BETTER WHERE EXPOSED TO OUTDOORS.
- 7. WHERE SIZES OF RACEWAYS OR BOXES ARE NOT INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL SIZE THESE ITEMS AS REQUIRED FOR THE INSTALLATION.
- 8. ALL VERTICAL RUNS OF CONDUIT OR TUBING TERMINATING IN THE BOTTOM OF WALL BOXES OR CABINETS OR SIMILAR LOCATIONS, SHALL BE PROTECTED FROM THE ENTRANCE OF FOREIGN MATERIAL PRIOR TO THE INSTALLATION OF CONDUCTORS.
- 9. METAL RACEWAYS, METAL ENCLOSURES OF ELECTRICAL DEVICES AND EQUIPMENT, MODULE FRAMES, AND OTHER EQUIPMENT SHALL BE COMPLETELY GROUNDED IN ACCORDANCE WITH THE NEC. PROPER HARDWARE FOR A COMPLETE GROUNDING AND BONDING SYSTEM SHALL BE INSTALLED BY THE CONTRACTOR, IF NECESSARY.
- 10. GROUNDING RODS SHALL HAVE A RESISTANCE TO GROUND OF 25 OHMS OR LESS AND SHALL BE 5/8" x 8' MIN, COPPER-BONDED STEEL. ALL GROUND CLAMPS USED SHALL BE UL 467 LISTED.
- 11. ALL PVC CONDUIT EXPOSED TO SUNLIGHT SHALL BE SCHEDULE 80 AND MARKED AS SUNLIGHT RESISTANT. ALL UNDERGROUND PVC CONDUIT SHALL BE SCHEDULE 40 OR 80.
- 12. ALL CONDUIT SHALL BE MOUNTED AT A MINIMUM OF 1 INCHES ABOVE THE ROOF SURFACE.

ELECTRICAL NOTES

- 1. ELECTRICAL POWER MUST BE SHUT OFF PRIOR TO THE CONTRACTOR PERFORMING ANY WORK IN RACEWAYS WITH LIVE ELECTRICAL CIRCUITS OR ANY OTHER EQUIPMENT. WHEN SWITCHES OR CIRCUIT BREAKERS ARE OPENED FOR WORK ON ELECTRICAL EQUIPMENT OR WIRING, SIGNS OR TAGS SHOULD BE INSTALLED AT THE SWITCH OR BREAKER STATING THAT WORK IS BEING PERFORMED ON THEM. INCLUDE THE TIME, DATE, AND CONTRACTOR'S NAME ON THE SIGN OR TAG. IF DEVICE IS LOCKABLE, IT SHOULD BE PADLOCKED.
- 2. THE ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE AHJ, NATIONAL FIRE PROTECTION AGENCY (NFPA), NATIONAL ELECTRICAL CODE (NEC), AND OSHA.
- 3. PHASING OF NEW CONDUCTORS TO MATCH EXISTING CONDUCTORS. IF INSTALLATING A NEW CIRCUIT, THEN CONTRACTOR SHALL FOLLOW THE PHASING SCHEMES PROVIDED IN THE ELECTRICAL DIAGRAM.
- 4. ALL CONDUCTORS SHALL BE COPPER, RATED FOR 90°C WET ENVIRONMENT, AND 1000 VOLTS DC OR 600 VOLTS AC, UNLESS OTHERWISE NOTED.
- 5. EQUIPMENT GROUNDING CONDUCTOR FOR PV MODULES SMALLER THAN 6AWG SHALL BE PROTECTED FROM PHYSICAL DAMAGE BY A RACEWAY OR CABLE ARMOR.
- 6. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250.
- 7. GROUNDING ELECTRODE CONDUCTOR (G.E.C.) SHALL BE CONTINUOUS AND/OR IRREVERSIBLY SPLICED/WELDED.
- 8. FLEXIBLE, FINE-STRANDED CABLES SHALL BE TERMINATED ONLY WITH TERMINALS, LUGS, DEVICES, OR CONNECTORS THAT ARE IDENTIFIED AND LISTED FOR SUCH USE PER NEC 690.31(F).
- 9. THE UTILITY INTERACTIVE INVERTER SHALL AUTOMATICALLY DE-ENERGIZE ITS OUTPUT TO THE CONNECTED ELECTRICAL PRODUCTION AND DISTRIBUTION NETWORK UPON LOSS OF VOLTAGE IN THE SYSTEM AND SHALL REMAIN IN THE STATE UNTIL THE ELECTRICAL PRODUCTION AND DISTRIBUTION NETWORK VOLTAGE HAS BEEN RESTORED.
- 10. DUE TO THE FACTS THAT PV MODULES ARE ENERGIZED WHENEVER EXPOSED TO LIGHT, PV CONTRACTOR SHALL DISABLE THE ARRAY DURING INSTALLATION AND SERVICE BY SHORT CIRCUITING. OPEN CIRCUITING, OR COVERING THE ARRAY WITH OPAOUE COVERING
- 11. ALL WIRES SHALL BE IDENTIFIED BY CIRCUITS IN ALL CABINETS, BOXES, WIRING TROUGHS, AND OTHER ENCLOSURES, AND AT ALL TERMINAL POINTS, I.E., RECEPTACLES, MECHANICAL LUGS, COMPRESSION FITTINGS. THE CIRCUIT DESIGNATIONS SHALL BE AS SHOWN ON THE CONTRACT DRAWINGS OR AS DIRECTED BY THE SYSTEM DESIGN ENGINEER. LABELS OR TAGS SHALL BE APPLIED TO WIRES SO THAT THEY WILL BE READILY VISIBLE.
- 12. BREAKERS SHALL BE 80% RATED UNLESS OTHERWISE SPECIFIED.
- 13. FUSES FOR SWITCHES SHALL BE CURRENT-LIMITING TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 200,000 AMPERES RMS (UNLESS OTHERWISE NOTED) AND OF THE CONTINUOUS CURRENT RATINGS AS INDICATED ON THE DRAWINGS OR AS RECOMMENDED BY THE MANUFACTURER.

TESTING

- 1. FINAL TEST AND INSPECTION SHALL BE HELD IN THE PRESENCE OF OWNER'S REPRESENTATIVES AND TO THEIR SATISFACTION.
- 2. MEGGER ALL: STRING WIRING, COMBINER BOX OUTPUT FEEDERS, AND AC FEEDERS. SUBMIT RESULTS TO OWNER FOR REVIEW.
- 3. IV CURVE TRACES OF STRINGS SHALL BE GENERATED USING THE SOLMETRIC PV ANALYZER (OR EQUIVALENT DEVICE) AND SUBMITTED TO OWNER FOR APPROVAL.

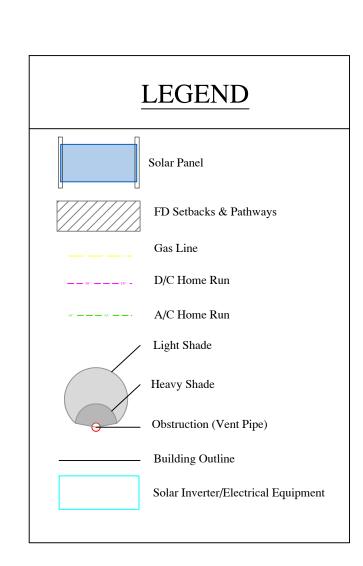
ABB	REVIATIONS	

ABBRI	EVIATIONS
A	AMPERES
AC	ALTERNATING CURRENT
AF AFDI	AMP FRAME ARC FAULT DETECTION INTERRUPTER
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG BIL	AMERICAN WIRE GAUGE BASIC IMPULSE LEVEL
BIB	BYPASS ISOLATION BREAKER
BPS	BOLT PRESSURE SWITCH
CA CB	CIRCULAR MILS AREA COMBINER BOX
COMM	COMMUNICATIONS
CT	CURRENT TRANSFORMER
CP CPT	CONTROL PANEL CONTROL POWER TRANSFORMER
CU	COPPER
CO	CONTINUOUS OPERATION CURRENT
CYC D	CYCLE DISTANCE
DC	DIRECT CURRENT
DISC EDP	DISCONNECT EMERGENCY DISTRIBUTION TRANSFORMER
EGC	EQUIPMENT GROUNDING CONDUCTOR
EHDP	EMERGENCY HIGH VOLTAGE DISTRIBUTION PANELBOARD
ELDP EMT	EMERGENCY LOW VOLTAGE DISTRIBUTION PANELBOARD ELECTRICAL METALLIC TUBING
EPR	ETHYLENE PROPYLENE RUBBER
EQUIP	EQUIPMENT
EXIST GND	EXISTING GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFD HWG	GROUND FAULT DEVICE HEATER WATER GAS LINE
INV	INVERTER
Ipmax	NOMINAL CURRENT (AMPS)
IMC KCMIL	INTERMEDIATE METAL CONDUIT THOUSAND CIRCULAR MILS
KU	THOUSAND VOLT
KVA	THOUSAND VOLT-AMP
KW LFMC	THOUSAND WATT LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
LSC	SHORT CIRCUIT CURRENT
LSIG	LONG, SHORT, INSTANTANEOUS, GROUND TIME
MAU MBP	MAKEUP AIR UNIT MAINTENANCE BYPASS BREAKER
MCB	MINI CIRCUIT BREAKERS
MCCB MIB	MOLDED CASE CIRCUIT BREAKERS MAINTENANCE ISOLATION BREAKER
MISC	MISCELLANEOUS
MFG	MANUFACTURER
MPPT MV	MAXIMUM POWER POINT TRACKING MEDIUM VOLTAGE
NEC	NATIONAL ELECTRIC CODE
NEMA NESC	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NATIONAL ELECTRIC SAFETY CODE
NTS	NATIONAL ELECTRIC SAFET F CODE NOT TO SCALE
OCPD	OVERCURRENT PROTECTION DEVICE
PCC PDU	POINT OF COMMON COUPLING POWER DISTRIBUTION UNIT
PF	POWER FACTOR
POI	POINT OF INTERCONNECTION
PRI PT	PRIMARY POTENTIAL (VOLTAGE) TRANSFORMER
PV	PHOTOVOLTAIC
PVC PWR	POLYVINYL CHLORIDE POWER
RCA	RECYCLED CONCRETE AGGREGATE
RIB	UPS RECTIFIER
RMC RS	RIGID METAL CONDUIT RAPID SHUTDOWN
RTU	ROOFTOP AIR HANDLING UNIT
SA SCH	SURGE ARRESTER SCHEDULE
SEC	SECONDARY
SPD	SURGE PROTECTION DEVICE
TBD UL	TO BE DETERMINED UNDERWRITER's LAB
UPS	UNINTERRUPTED POWER SUPPLY
V VA	VOLT VOLT-AMPERE
VA Vin	INPUT VOLTAGE
VOC	OPEN CIRCUIT VOLTAGE
VOC Low Vout	MAXIMUM OPEN CIRCUIT VOLTAGE IN LOWEST TEMPERATURE CONDITIONS OUTPUT VOLTAGE
W	WATT
WP XFMR	WEATHER PROOF TRANSFORMER
Z	IMPEDANCE

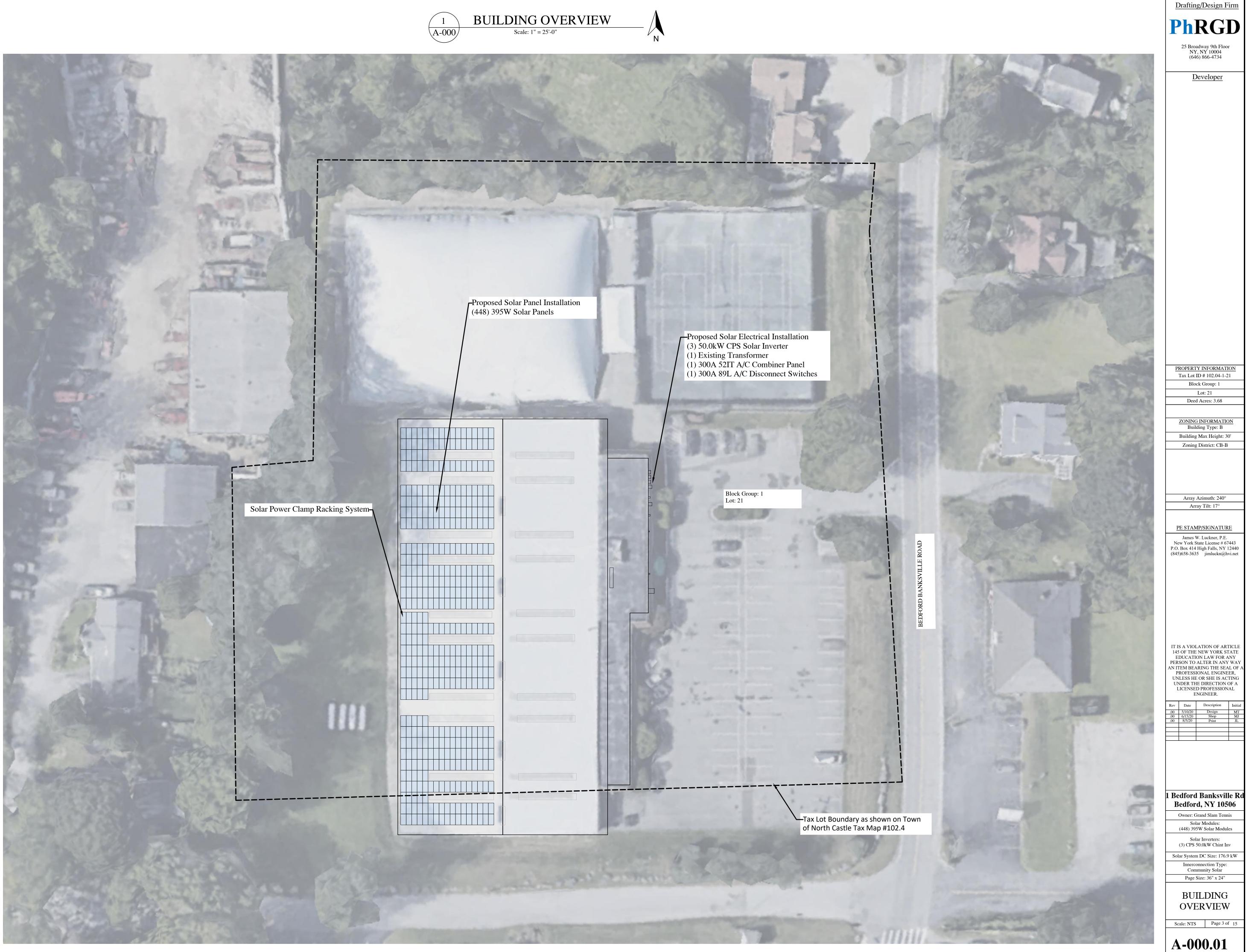
LEGEND				
Solar Panel				
FD Setbacks & Pathways				
Gas Line				
$ \sim$ $ \sim$ \sim $ \sim$ D/C Home Run				
$AC AC \cdot A/C$ Home Run				
Light Shade				
Heavy Shade				
Obstruction (Vent Pipe)				
Building Outline				
Solar Inverter/Electrical Equipment				

Developer	
PROPERTY INFORMATION Tax Lot ID # 102.04-1-21	-
Block Group: 1 Lot: 21	
Deed Acres: 3.68	
ZONING INFORMATION Building Type: B	
Building Max Height: 30'	
Zoning District: CB-B	
Array Azimuth: 240° Array Tilt: 17°	
PE STAMP/SIGNATURE James W. Luckner, P.E. New York State License # 67443	
P.O. Box 414 High Falls, NY 12440 (845)658-3635 jimluckn@hvi.net	
IT IS A VIOLATION OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY	
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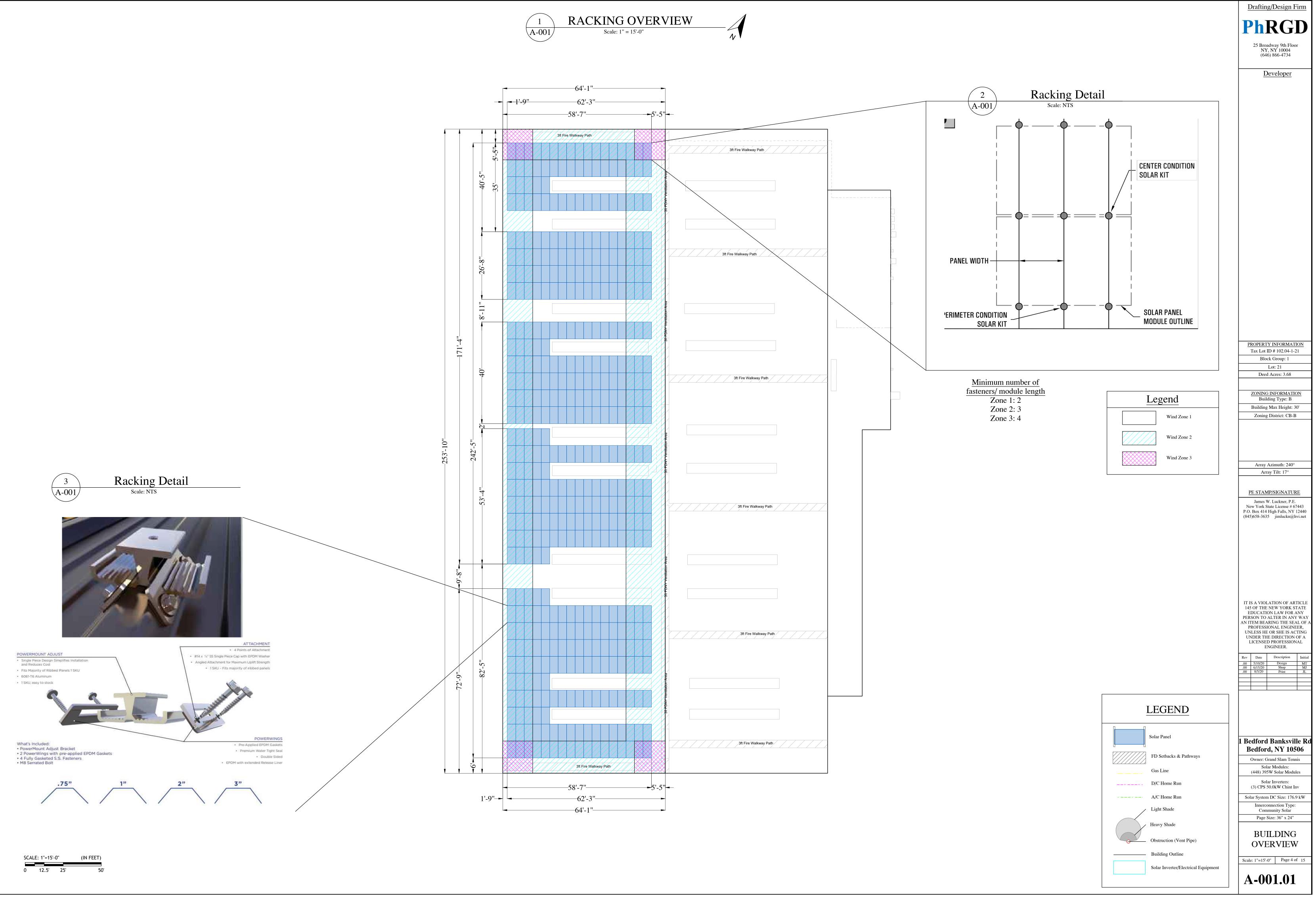
Drafting/Design Firm



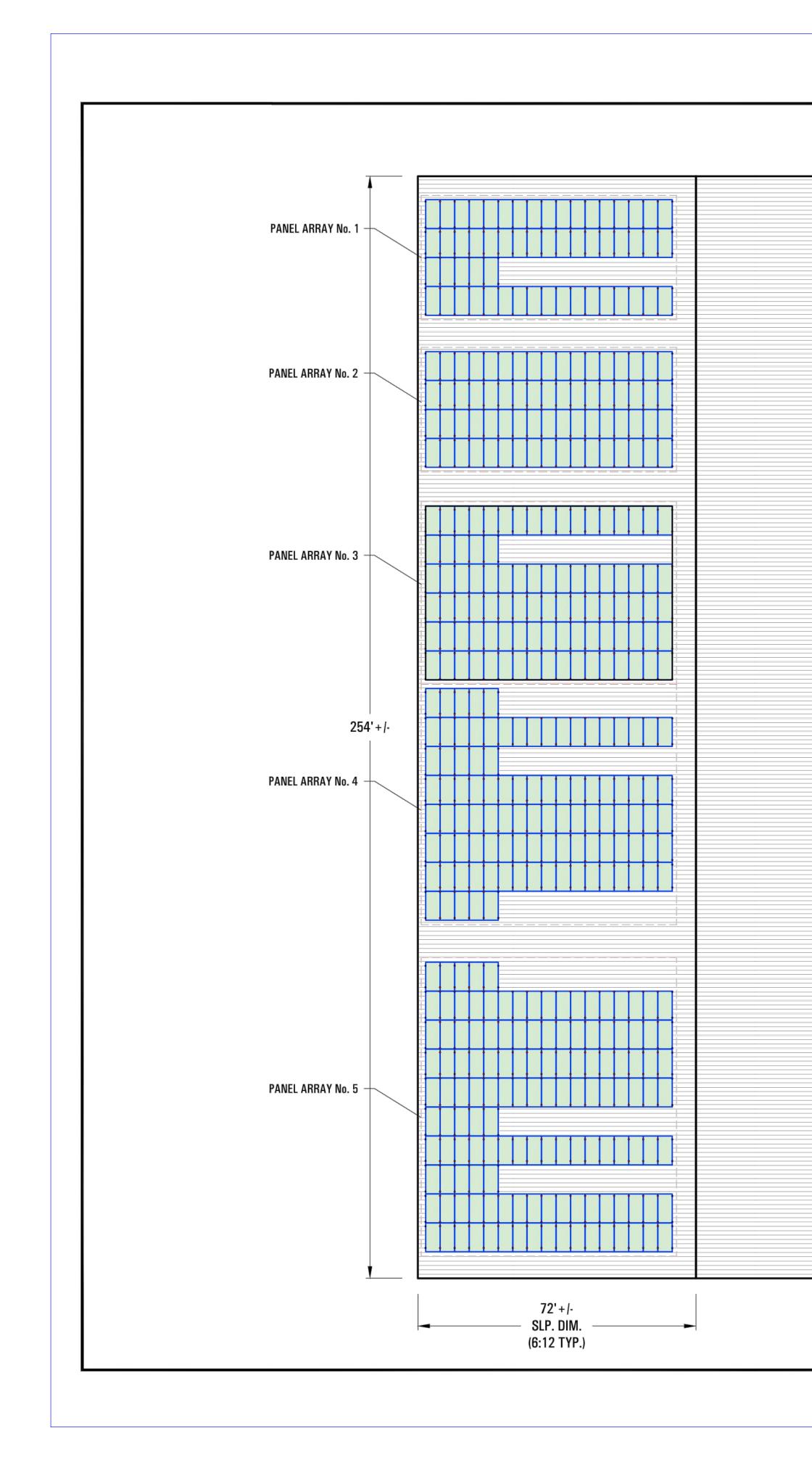
PROPERTY ADDRESS: GRAND SLAM TENNIS 1 BEDFORD BANKSVILLE ROAD BEDFORD, NY 10506



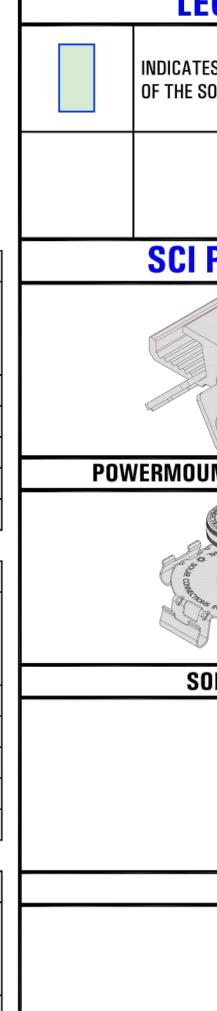








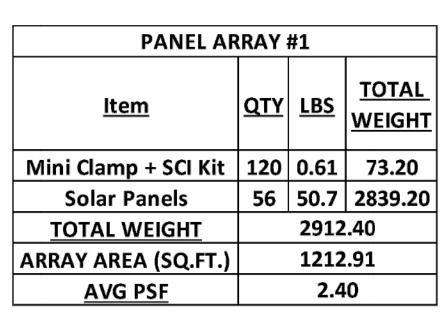
*** GENERAL LAYOUT ONLY ***



					Drafting/Design Firm
					PhRGD
					25 Broadway 9th Floor NY, NY 10004 (646) 866-4734
					Developer
LEG	END:	PRO	DJECT LAYOUT:		
INDICATES T	THE APPROXIMATE LOCATION AR PANEL MODULE	INCLUDING, BUT NOT AND PRODUCT QUAN BASED SOLELY ON T PURCHASER, IN ADD GEOGRAPHICAL LOC	TIONS INTERNATIONAL (SCI) I LIMITED TO, THE NUMBER TITIES ARE RECOMMENDATIO THE INFORMATION PROVIDE DITION TO THE PROJECT'S ATION, ROOF PITCH, LENGTH	OF ROWS DNS ONLY, D BY THE GENERAL H OF RUN,	
		ARE SUBJECT TO C Approval by the f	SYSTEM. ALL SCI RECOMMEN ONFIRMATION, VERIFICAT PROJECT ARCHITECT, ENGI	TION AND NEER, OR	
SCI P/	ART(S):	RECOMMENDATION	S ALSO REQUIRED TO BE EV THAT THE SNOW RETENTION	ALUATED	
		LOCATION, THE BUIL AND TYPE OF ROOM BUILDING STRUCTUN SNOW LOAD. SCI HA SITE INSPECTION OR SYSTEM ENGINEERED PURCHASE BASED ON	HE PROJECT'S DESIGN, GEOG DING'S ROOF PITCH, LENGTI F SYSTEM, AS WELL AS T RE CAN WITHSTAND THE PR S NOT PERFORMED AN INDE PROJECT SPECIFIC SNOW R CALCULATIONS. BUYER MA I ITS' OWN DUE DILIGENCE AN	H OF RUN, HAT THE ROJECTED PENDENT ETENTION AKES THIS ID NOT BY	
PUWERWIUUN	- ADJUSTABLE		ATEMENT MADE, OR PURPO E BY, OR ON BEHALF		
Contraction of the second	A STATE OF STATE OF STATE	SCI STRONGLY RECO	CT INSTALLATION MMENDS THAT THESE PROI	DUCTS BE	PROPERTY INFORMATION Tax Lot ID # 102.04-1-21 Block Group: 1
	NATIONS & DU	SHEET METAL CONT	LIFIED AND LICENSED ROOFIN RACTOR (AS APPLICABLE). S	CI IS NOT	Lot: 21 Deed Acres: 3.68
SOLA	AR KIT	THE INSTALLER OR P	NY ACTS, ERRORS, OR OMIS URCHASER, AND SHALL NOT ANY WAY FOR THE PI	T BE HELD	ZONING INFORMATION Building Type: B
		INSTALLATION. SCI D	OES NOT PROVIDE ANY WARI	RANTY ON	Building Max Height: 30' Zoning District: CB-B
		PERFORMED IN AC MANUFACTURER'S REQUIREMENTS. S ADHESIVE/SEALANT, SCI IS NOT RESPON PRODUCT, INCORREC OBVIOUS AT THE TIM FROM INSTALLATION INSTALLER ARE RES USING THE MAN INSTALLATION PRO DIRECTLY WITH COMMENCEMENT OF	ER APPLICATION/PRODUCT S CORDANCE WITH THE APP PUBLISHED INSTRUCTION CI DOES NOT WARRANT TAPE, SOLDER, OR FASTENER SIBLE FOR MISAPPLICATION CT MATERIALS, DEFECTS THE OF INSTALLATION, OR ANY I PROCEDURES. THE PURCH PONSIBLE FOR ENSURING T UFACTURER'S MOST C DCEDURES. PLEASE CONT ANY QUESTIONS, PR ANY INSTALLATION. ALL PU S STANDARD TERMS AND CO	PLICABLE DNS AND AGAINST FAILURE. N OF THE AT WERE OMISSION ASER AND HAT IT IS URRENT FACT SCI FIOR TO IRCHASES	Array Azimuth: 240° Array Tilt: 17° <u>PE STAMP/SIGNATURE</u> James W. Luckner, P.E. New York State License # 67443 P.O. Box 414 High Falls, NY 12440 (845)658-3635 jimluckn@hvi.net
	NO	TES:			
ADDITIONAL AREAS AR	WING IS NOT TO SCALE. OUT ADDRESSING ONLY THE A E OF CONCERN, OR FURTHER L DTIFY SNO GEM, INC. ACCORDI	OCATIONS REQUIRING			IT IS A VIOLATION OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.
	GRAND SL	AM TENNIS			.00 6/15/20 Shop MJ .00 8/5/20 Print JL
	BEDFO	RD, NY			
ROUND SNOW LOAD: Anel Width: Roposed Linear Feet:	N/A 12" N/A	SCALE: DATE: SALES REP:	N.T.S. 07/01/20 CR		
ROPOSED No. OF PARTS:	960+/-	DRAWN BY:	RJH Contact informat	ION:	1 Bedford Banksville Ro Bedford, NY 10506
so So	LAK INT	NNECTIONS ERNATIONAL	4800 METALMASTER McHENRY, IL 600	RWAY	Owner: Grand Slam Tennis Solar Modules: (448) 395W Solar Modules Solar Inverters:
THE FUT	URE OF SOLAR AT	TACHMENTS	P: 815.477.4367 F: 815.455 SNOGEM.COM INFO@SOLARCONNECTION		(3) CPS 50.0kW Chint Inv Solar System DC Size: 176.9 kW Innerconnection Type: Community Solar Page Size: 36" x 24"
					RACKING DETAILS
					Scale: 1"=15'-0" Page 4 of 15

					Drafting/Design Firm
					PhRGD
					25 Broadway 9th Floor NY, NY 10004 (646) 866-4734
					Developer
LEGI	END:		DJECT LAYOU		
OF THE SOLA	HE APPROXIMATE LOCATION R PANEL MODULE	INCLUDING, BUT NO AND PRODUCT QUAN BASED SOLELY ON T PURCHASER, IN ADI GEOGRAPHICAL LOC, AND TYPE OF ROOF S ARE SUBJECT TO C APPROVAL BY THE I AUTHORITY HAVIN	LIMITED TO, THE NU TITIES ARE RECOMME THE INFORMATION PE DITION TO THE PROJ ATION, ROOF PITCH, I SYSTEM. ALL SCI RECO ONFIRMATION, VER PROJECT ARCHITECT G JURISDICTION, A	JMBER OF ROWS NDATIONS ONLY, ROVIDED BY THE ECT'S GENERAL LENGTH OF RUN, OMMENDATIONS IFICATION AND T, ENGINEER, OR AND ANY SUCH	
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	NOT	ES:			
ADDITIONAL AREAS ARE	VING IS NOT TO SCALE. OUT ADDRESSING ONLY THE ARE OF CONCERN, OR FURTHER LOO OTIFY SNO GEM, INC. ACCORDING	ATIONS REQUIRING		_	IT IS A VIOLATION OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.
	GRAND SLA	M TENNIS			.00 5/10/20 Design MT .00 6/15/20 Shop MJ .00 8/5/20 Print JL
	BEDFOF	RD, NY			
ROUND SNOW LOAD: ANEL WIDTH:		SCALE: DATE:		N.T.S. 7/01/20	
OPOSED LINEAR FEET:	N/A	SALES REP: DRAWN BY:		CR RJH	1 Bedford Banksville Rd
		NECTIONS RNATIONAL	CONTACT INFO 4800 METALMA McHENRY,	RMATION: STER WAY	Dectror of DamkSvine Ko Bedford, NY 10506 Owner: Grand Slam Tennis Solar Modules: (448) 395W Solar Modules Solar Inverters:
THE FUT	URE OF SOLAR ATT	ACHMENTS	P: 815.477.4367 F: SNOGEM. INFO@SOLARCONN	COM	(3) CPS 50.0kW Chint Inv Solar System DC Size: 176.9 kW Innerconnection Type: Community Solar Page Size: 36" x 24"
					RACKING DETAILS Scale: 1"=15'-0" Page 4 of 15
					A_002_01

					Drafting/Design Firm
					PhRGD
					25 Broadway 9th Floor NY, NY 10004 (646) 866-4734
					Developer
LEGE	ND-	PRO	DJECT LAYOUT:		
INDICATES TH	E APPROXIMATE LOCATION PANEL MODULE	ALL SOLAR CONNECT Including, but not and product quan	TONS INTERNATIONAL (SCI) LIMITED TO, THE NUMBER TITIES ARE RECOMMENDATIO HE INFORMATION PROVIDED	OF ROWS NS ONLY,	
		PURCHASER, IN ADD GEOGRAPHICAL LOC/ AND TYPE OF ROOF S ARE SUBJECT TO C	DITION TO THE PROJECT'S (ATION, ROOF PITCH, LENGTH SYSTEM. ALL SCI RECOMMEN ONFIRMATION, VERIFICAT	GENERAL OF RUN, DATIONS ION AND	
		AUTHORITY HAVIN	ROJECT ARCHITECT, ENGING JURISDICTION, AND	IY SUCH	
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W CHARNAT	now & W	SHEET METAL CONTR	LIFIED AND LICENSED ROOFING RACTOR (AS APPLICABLE). SO	CI IS NOT	Lot: 21 Deed Acres: 3.68
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		PRODUCT, INCORRECT OBVIOUS AT THE TIME FROM INSTALLATION INSTALLER ARE REST USING THE MANU INSTALLATION PRODUCED IN COMMENCEMENT OF	CT MATERIALS, DEFECTS THE OF INSTALLATION, OR ANY OF PROCEDURES. THE PURCHA PONSIBLE FOR ENSURING THE JFACTURER'S MOST CU DCEDURES. PLEASE CONT A N Y QUESTIONS, PR ANY INSTALLATION. ALL PUR S STANDARD TERMS AND COM	AT WERE DMISSION SER AND HAT IT IS J R R E N T A C T S C I I O R T O RCHASES	PE STAMP/SIGNATURE James W. Luckner, P.E. New York State License # 67443 P.O. Box 414 High Falls, NY 12440 (845)658-3635 jimluckn@hvi.net
	NO	TES:			
1. FOR CLARITY THIS DRAW	ING IS NOT TO SCALE.				
ADDITIONAL AREAS ARE	UT ADDRESSING ONLY THE A OF CONCERN, OR FURTHER L TIFY SNO GEM, INC. ACCORDI	OCATIONS REQUIRING			IT IS A VIOLATION OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF PROFESSIONAL ENGINEER, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.
					RevDateDescriptionInitia.005/10/20DesignMT.006/15/20ShopMJ
	GRAND SL	AM TENNIS			.00 8/5/20 Print JL
	BEDFO	RD, NY			
GROUND SNOW LOAD: PANEL WIDTH:	N/A 12"	SCALE: DATE:	N.T.S. 07/01/20		
ROPOSED LINEAR FEET:	N/A	SALES REP:	CR		1 Dodford Deals 11 D
ROPOSED No. OF PARTS:	960+/-	DRAWN BY:	RJH Contact informati	ON:	1 Bedford Banksville R Bedford, NY 10506
		INECTIONS ERNATIONAL	4800 METALMASTER McHENRY, IL 600		Owner: Grand Slam Tennis Solar Modules: (448) 395W Solar Modules
	IRE OF SOLAR AT		P: 815.477.4367 F: 815.455 SNOGEM.COM INFO@SOLARCONNECTION	.4367	Solar Inverters: (3) CPS 50.0kW Chint Inv Solar System DC Size: 176.9 kW Innerconnection Type: Community Solar Page Size: 36" x 24"
					RACKING DETAILS
					Scale: 1"=15'-0" Page 4 of 15
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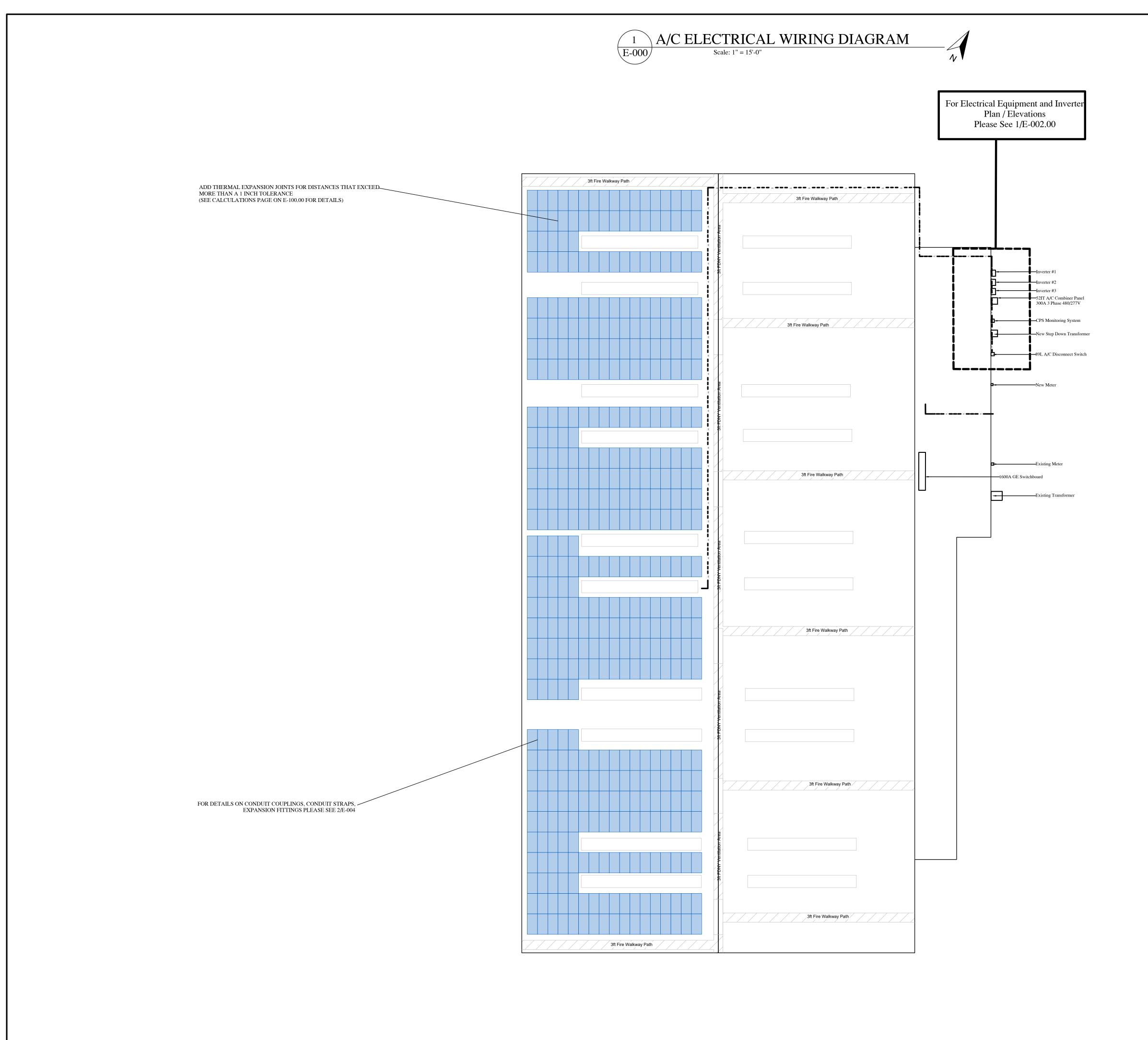
PANEL ARRAY #2					
<u>ltem</u>	<u>QTY</u>	<u>LBS</u>	<u>TOTAL</u> WEIGH		
Mini Clamp + SCI Kit	144	0.61	87.84		
Solar Panels	68	50.7	3447.6		
TOTAL WEIGHT	3535.44				
ARRAY AREA (SQ.FT.)	1472.82				
AVG PSF	2.40				

PANEL ARRAY #3					
<u>ltem</u>	<u>QTY</u>	<u>LBS</u>	<u>TOTAL</u> WEIGH		
Mini Clamp + SCl Kit	192	0.61	117.12		
Solar Panels	90	50.7	4563.0		
TOTAL WEIGHT		4680	.12		
ARRAY AREA (SQ.FT.)	1949.32				
AVG PSF		2.4	0		

PANEL AR	RAY	#4		
ltore			TOTAL	
ltem	<u>QTY</u>	<u>LBS</u>	WEIGH	
Mini Clamp + SCI Kit	216	131.76		
Solar Panels	Solar Panels 100			
TOTAL WEIGHT		5201	.76	
ARRAY AREA (SQ.FT.)	2165.91			
<u>AVG PSF</u>		2.4	0	

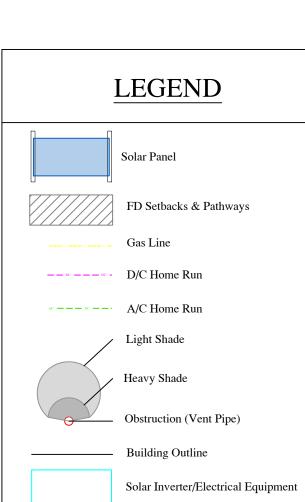
PANEL AR	RAY	#5	
lton			TOTAL
ltem	<u>QTY</u>	<u>LBS</u>	WEIGH
Mini Clamp + SCI Kit	288	175.68	
Solar Panels	135	50.7	6844.50
TOTAL WEIGHT		7020	.18
ARRAY AREA (SQ.FT.)	2923.98		
AVG PSF		2.4	0
		2.4	0

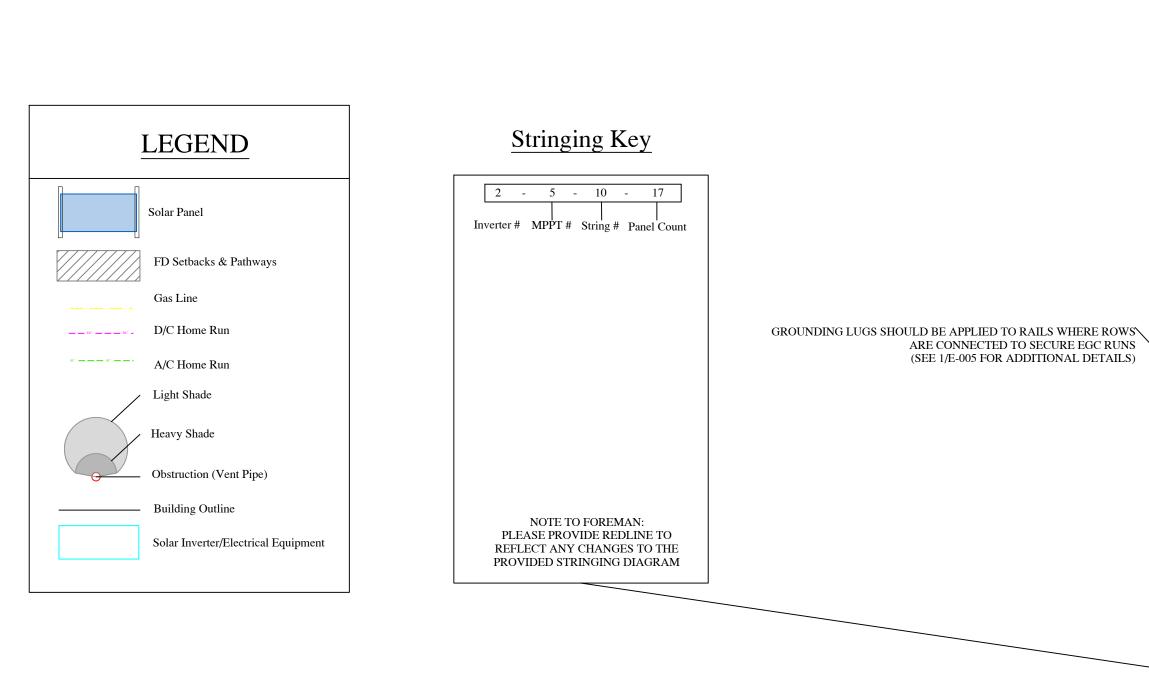
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SCALE: 1"=15'-0" (IN FEET) 0 10' 15' 20' 40'

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	-	g Max Hei g District:	-	
		Azimuth: ay Tilt: 1		
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P.O	ew York S . Box 414	W. Luckne State Licen High Fall	se # 67 s, NY	12440
(84.)038-303	5 jimluo	ckn@n	vi.net
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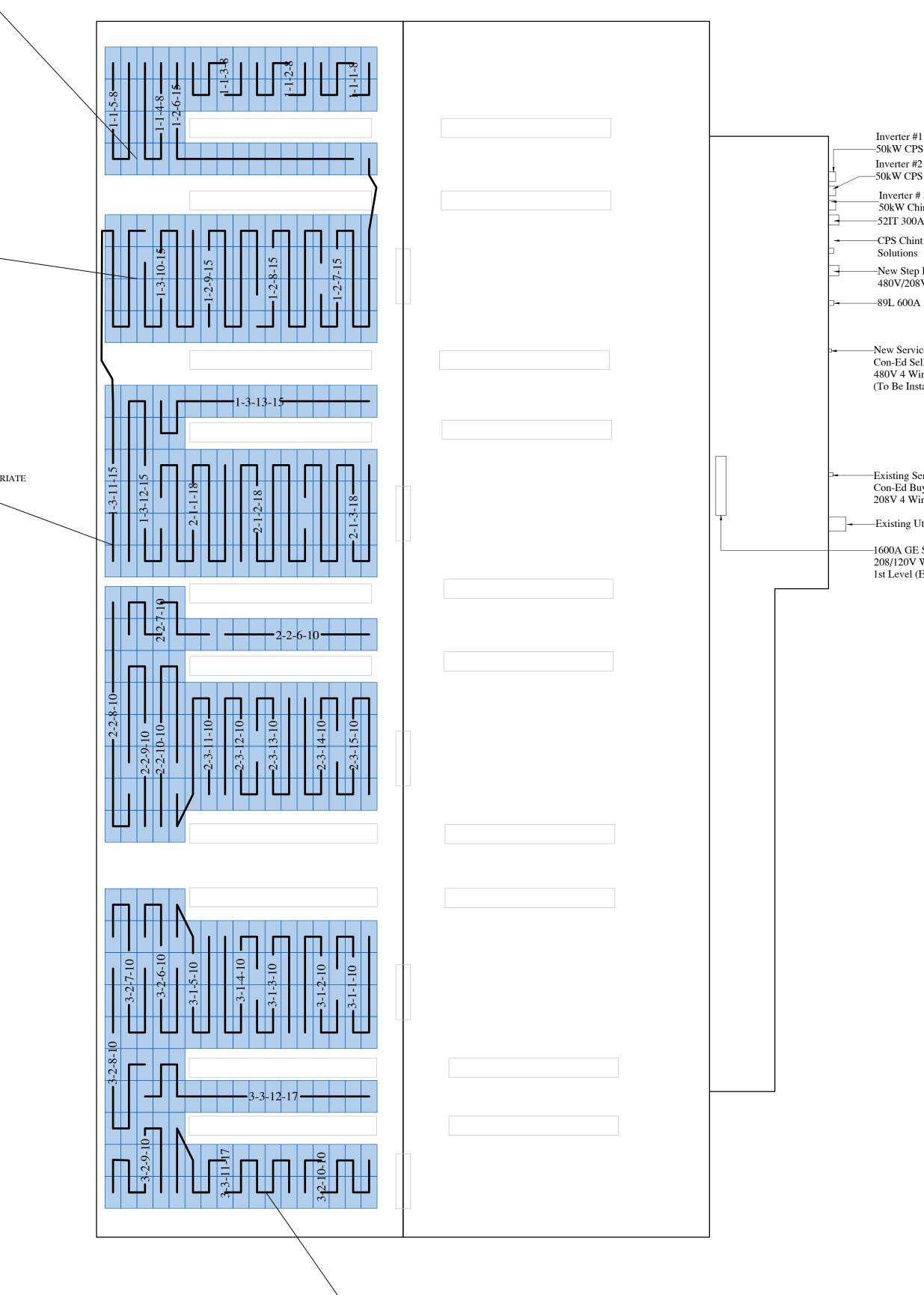


DC HOME RUNS TO BE GROUPED AND RAN THROUGH APPROPRIATE SIZED CONDUITS OR CABLE TRAYS BACK TO INVERTERS (SEE 3/E-004, 4/E-004, 6/E-006 FOR ADDITIONAL DETAILS)

SCALE: 1"=15'-0" (IN FEET) 10' 15' 20' 40'

DC ELECTRICAL STRINGING DIAGRAM Scale: 1" = 15'-0" 1 E-001

N



\DC WIRES TO BE SECURED BEHIND PANELS USING WEATHER APPROVED CABLE CLIPS IN AN ORGANIZED MANOR (SEE 1/E-003 FOR ADDITIONAL DETAILS)

25 Broadway 9th Floor NY, NY 10004 (646) 866-4734 Developer	25 Broadway 9th Floor NY, NY 10004 (646) 866-4734
25 Broadway 9th Floor NY, NY 10004 (646) 866-4734 DEVEIOPET JEVEIOPET	25 Broadway 9th Floor NY, NY 10004 (646) 866-4734
Developer Diversion Image: Second S	
Tax Lot ID # 102.04-1-21 Block Group: 1 Lot: 21 Deed Acres: 3.68 ZONING INFORMATION Building Type: B Building Max Height: 30' Zoning District: CB-B Zoning District: CB-B Array Azimuth: 240° Array Tilt: 17° PE STAMP/SIGNATURE James W. Luckner, P.E. New York State License # 67443 P.O. Box 414 High Falls, NY 12440 (845)658-3635 jimluckn@hvi.net (845)658-3635 jimluckn@hvi.net IT IS A VIOLATION OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. Rev Date Description Initial 0.0 .00 5/10/20 Design MT	
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Tax Lot ID # 102.04-1-21 Block Group: 1 Lot: 21 Deed Acres: 3.68 Building INFORMATION Building Type: B Building Max Height: 30' Zoning District: CB-B Zoning District: CB-B Array Azimuth: 240° Array Tilt: 17° James W. Luckner, P.E. New York State License # 67443 P.O. Box 414 High Falls, NY 12440 (845)658-3635 jimluckn@hvi.net IT IS A VIOLATION OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PROFESSIONAL ENGINEER, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF ANY PROFESSIONAL ENGINEER, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. Rev Date Description Rev Date Description Rev Date Description	
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1 Redford Rankevilla Da	145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. Rev Date Description Initial .00 5/10/20 Design MT .00 6/15/20 Shop MJ .00 8/5/20 Print JL
1 Bedford Banksville Ro Bedford, NY 10506 Owner: Grand Slam Tennis	145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. Rev Date Description Initial .00 5/10/20 Design MT .00 6/15/20 Shop MJ .00 8/5/20 Print JL
Bedford, NY 10506 Owner: Grand Slam Tennis Solar Modules: (448) 395W Solar Modules	145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. Rev Date Description Initial 00 5/10/20 Design MT 00 6/15/20 Shop MJ 00 8/5/20 Print JL 00 8/5/20 Print
Bedford, NY 10506 Owner: Grand Slam Tennis Solar Modules:	145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. Rev Date Description Initial .00 5/10/20 Design MT .00 6/15/20 Shop MJ .00 8/5/20 Print JL
Bedford, NY 10506 Owner: Grand Slam Tennis Solar Modules: (448) 395W Solar Modules Solar Inverters: (3) CPS 50.0kW Chint Inv	145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. Rev Date Description Initial .00 5/10/20 Design MT .00 6/15/20 Shop MJ .00 8/5/20 Print JL
Bedford, NY 10506 Owner: Grand Slam Tennis Solar Modules: (448) 395W Solar Modules (448) 395W Solar Modules Solar Inverters: (3) CPS 50.0kW Chint Inv Solar System DC Size: 176.9 kW Innerconnection Type: Community Solar	145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. Rev Date Description Initial .00 5/10/20 Design MT .00 6/15/20 Shop MJ .00 8/5/20 Print JL
Bedford, NY 10506 Owner: Grand Slam Tennis Solar Modules: (448) 395W Solar Modules (448) 395W Solar Modules (3) CPS 50.0kW Chint Inv Solar System DC Size: 176.9 kW Innerconnection Type: Community Solar Page Size: 36" x 24" D/C ELECTRICAL	145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. Rev Date Description Initial .00 5/10/20 Design MT .00 6/15/20 Shop MJ .00 8/5/20 Print JL DOB 8/5/20 Print JL D/C ELECTRICAL ROOF 1 STRING DIAGRAM

PV WIRE SHOULD FIRST TERMINATE IN A FUSED OR UN-FUSED PASS-THROUGH BOX AND THEN RUN TO THE APPROPRIATE CONDUIT BACK TO THE INVERTER

IF DC WIRE RUNS ARE TO USE

THWN-2 RATHER THAN PV WIRE, THE

Inverter #1 -50kW CPS Chint 480/277V Inverter #2 -50kW CPS Chint 480/277V

Inverter # 3 50kW Chint CPS 480/277V —52IT 300A Combiner Panel -CPS Chint Monitoring

-New Step Down Transformer 480V/208V 4 Wire WYE

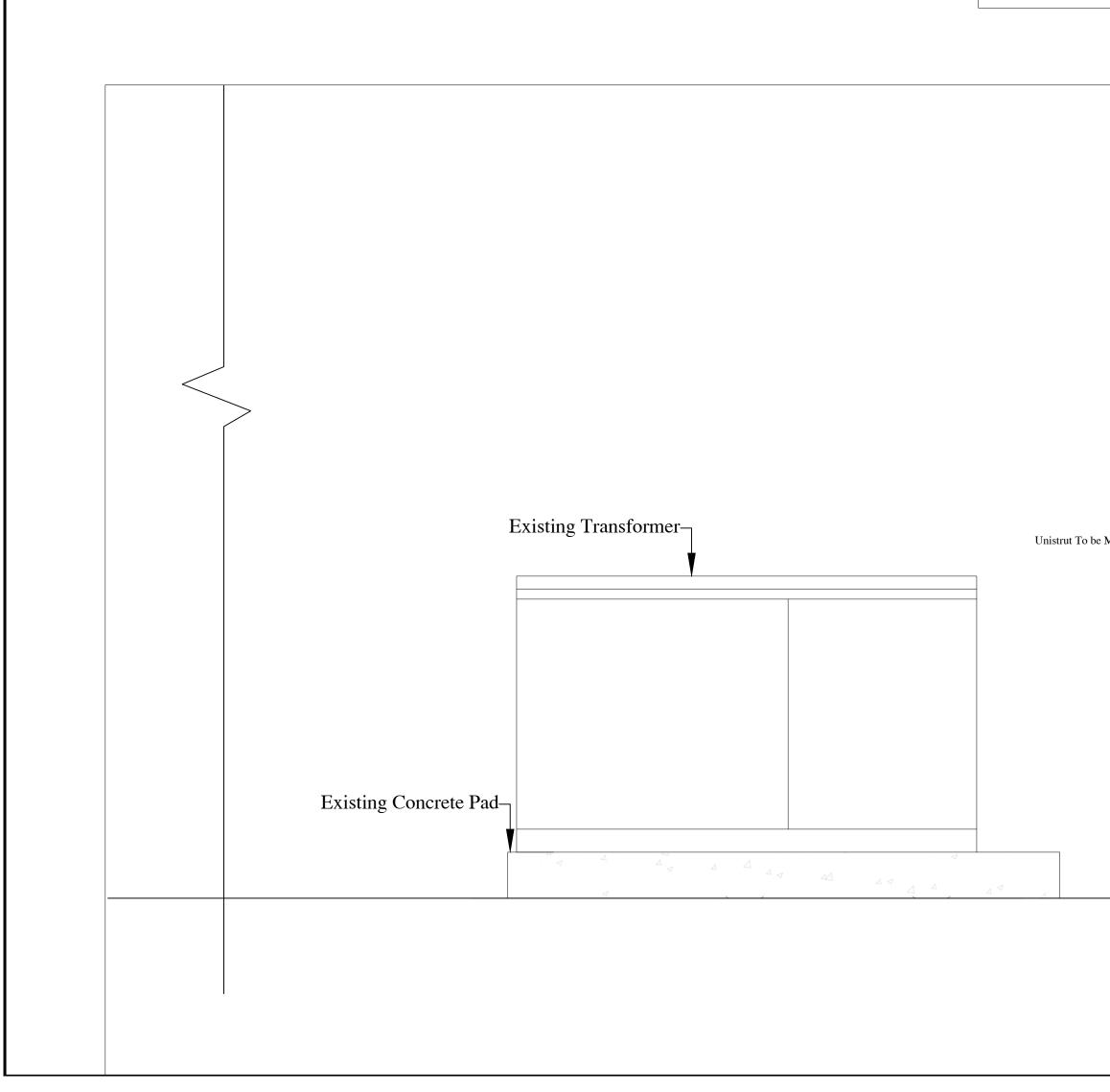
-89L 600A A/C Disconnect

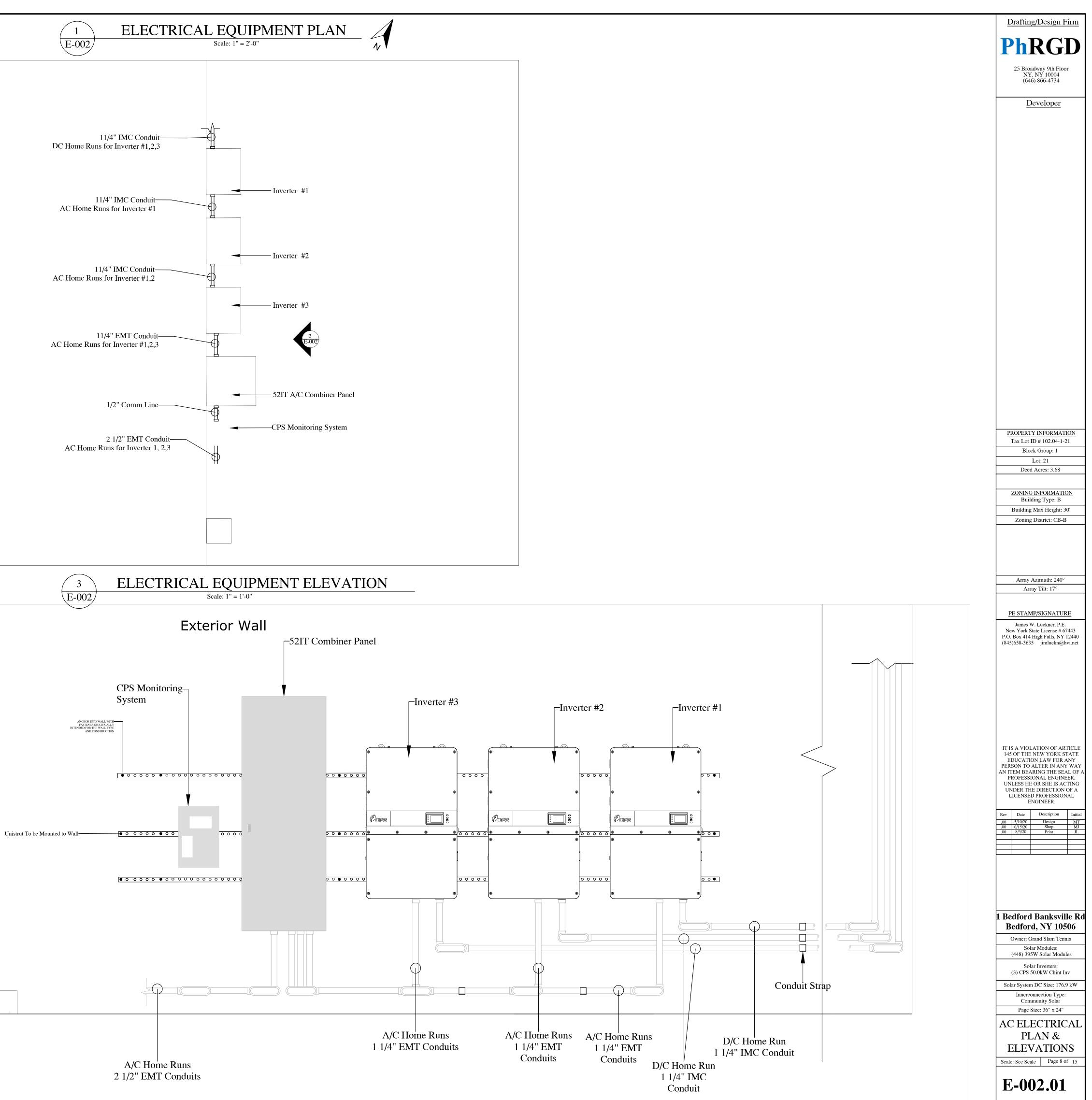
-New Service Con-Ed Sell Side Meter 480V 4 Wire 3 Phase (To Be Installed by Con-Ed)

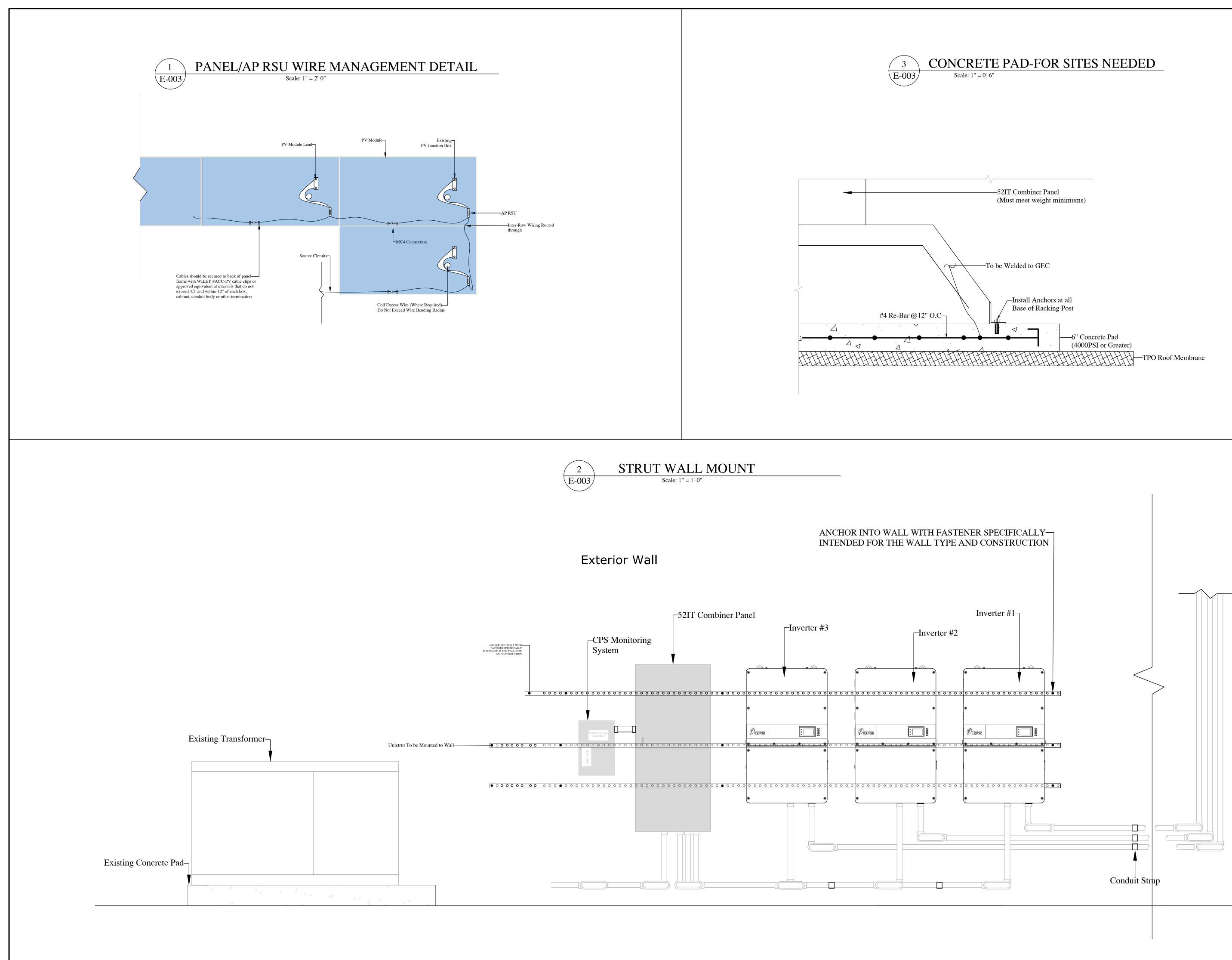
-Existing Service Con-Ed Buy Meter 208V 4 Wire 3 Phase

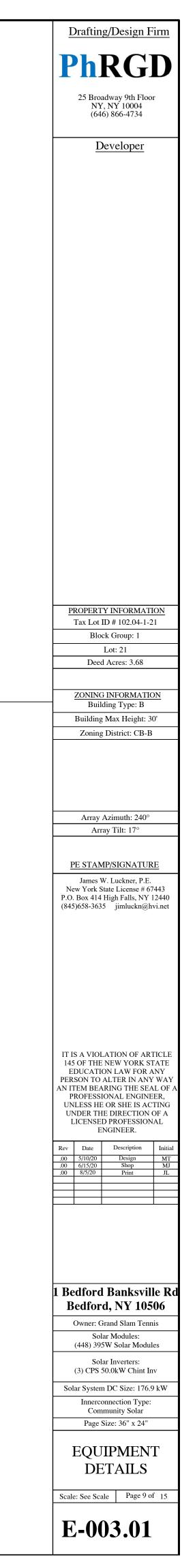
- Existing Utility Transformer

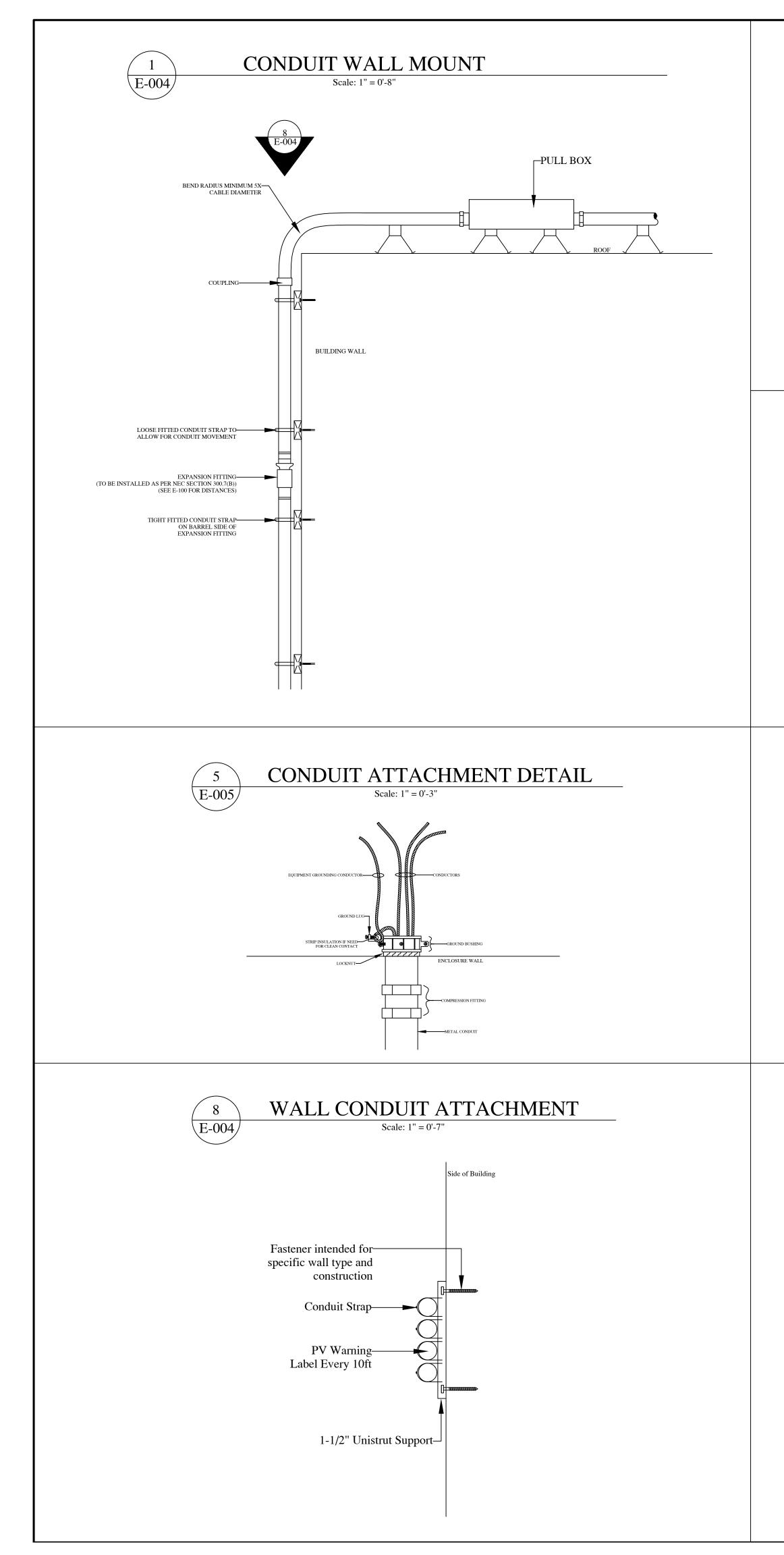
—1600A GE SwitchBoard 208/120V WYE 1st Level (Electric Room)

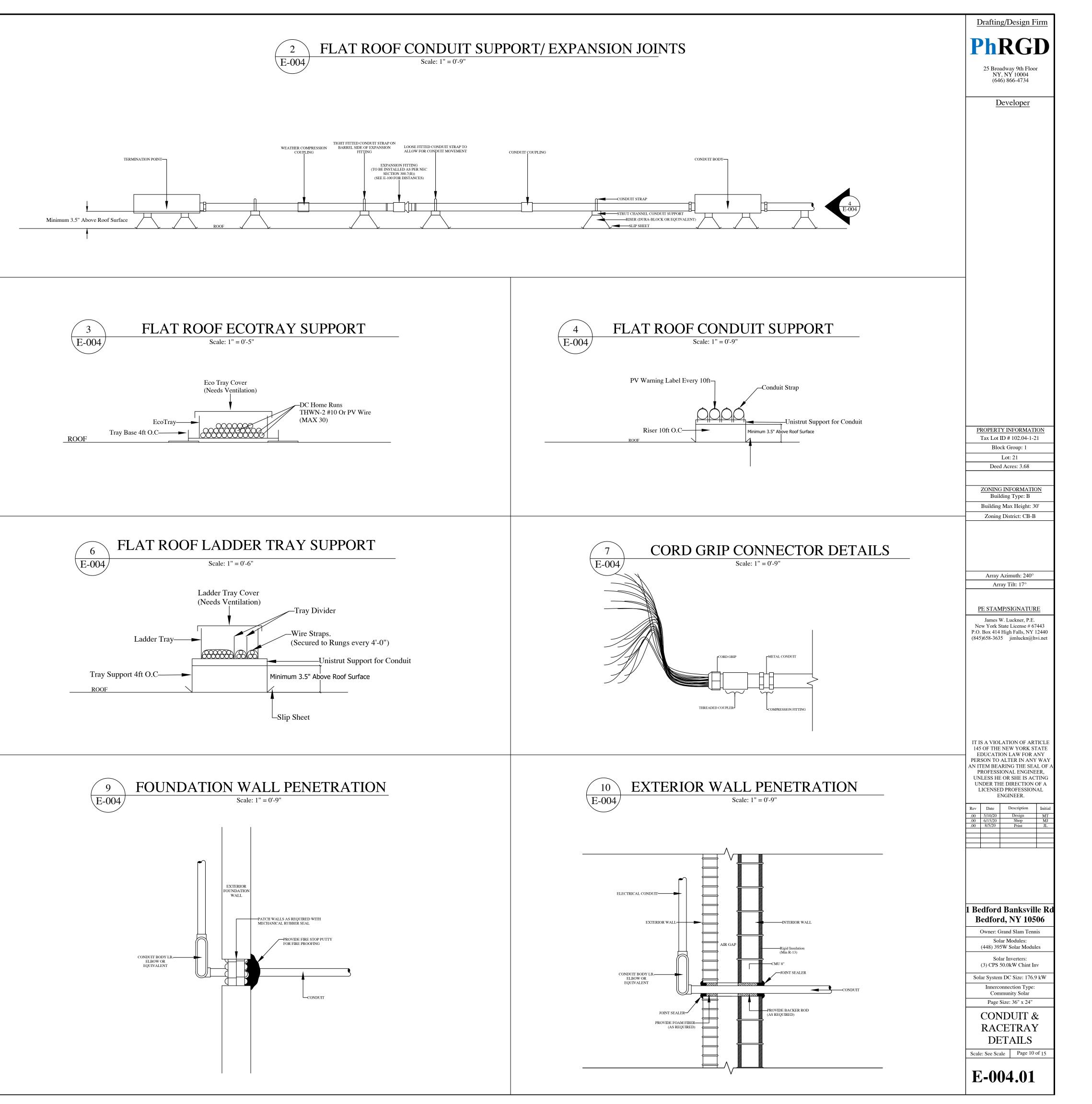


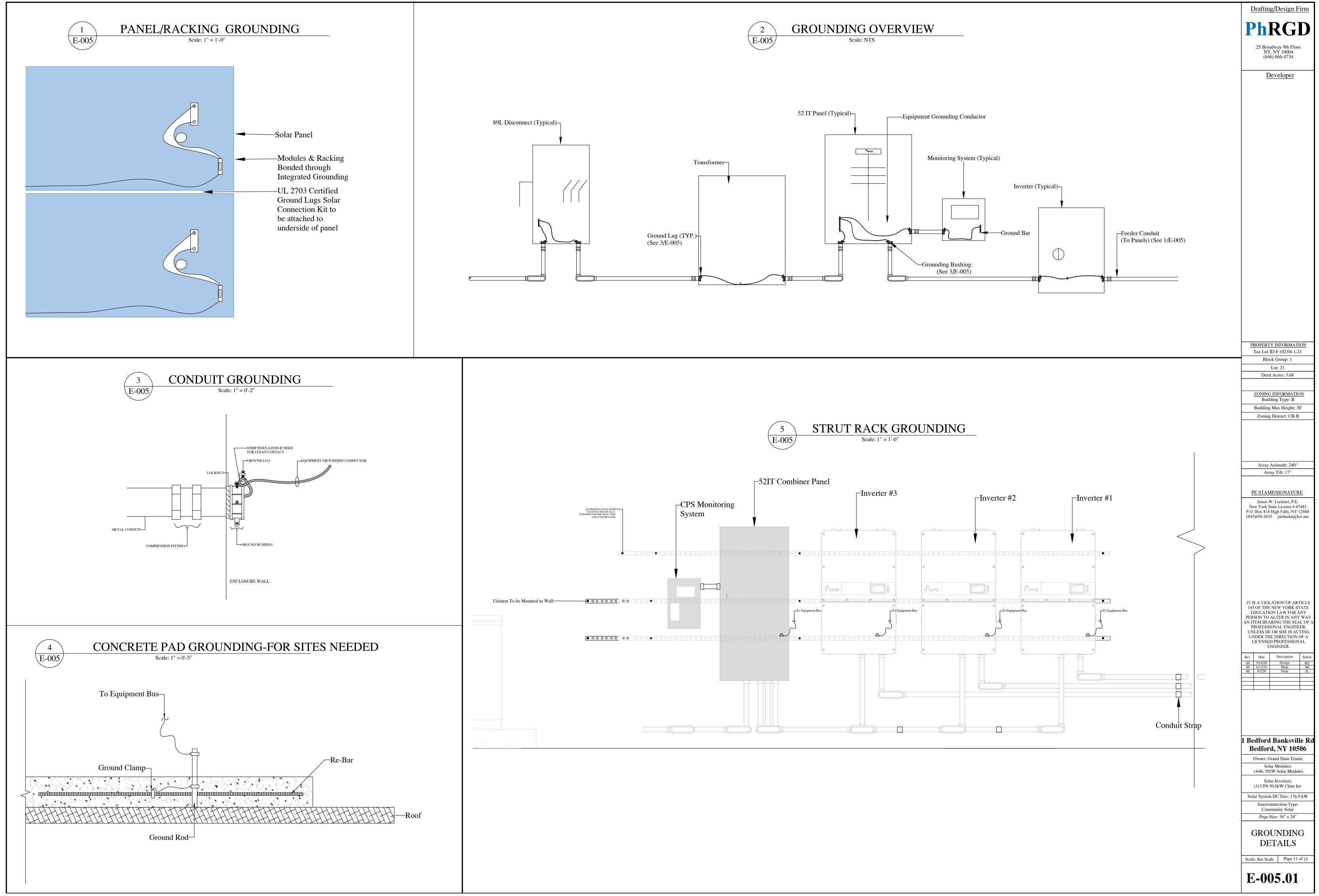


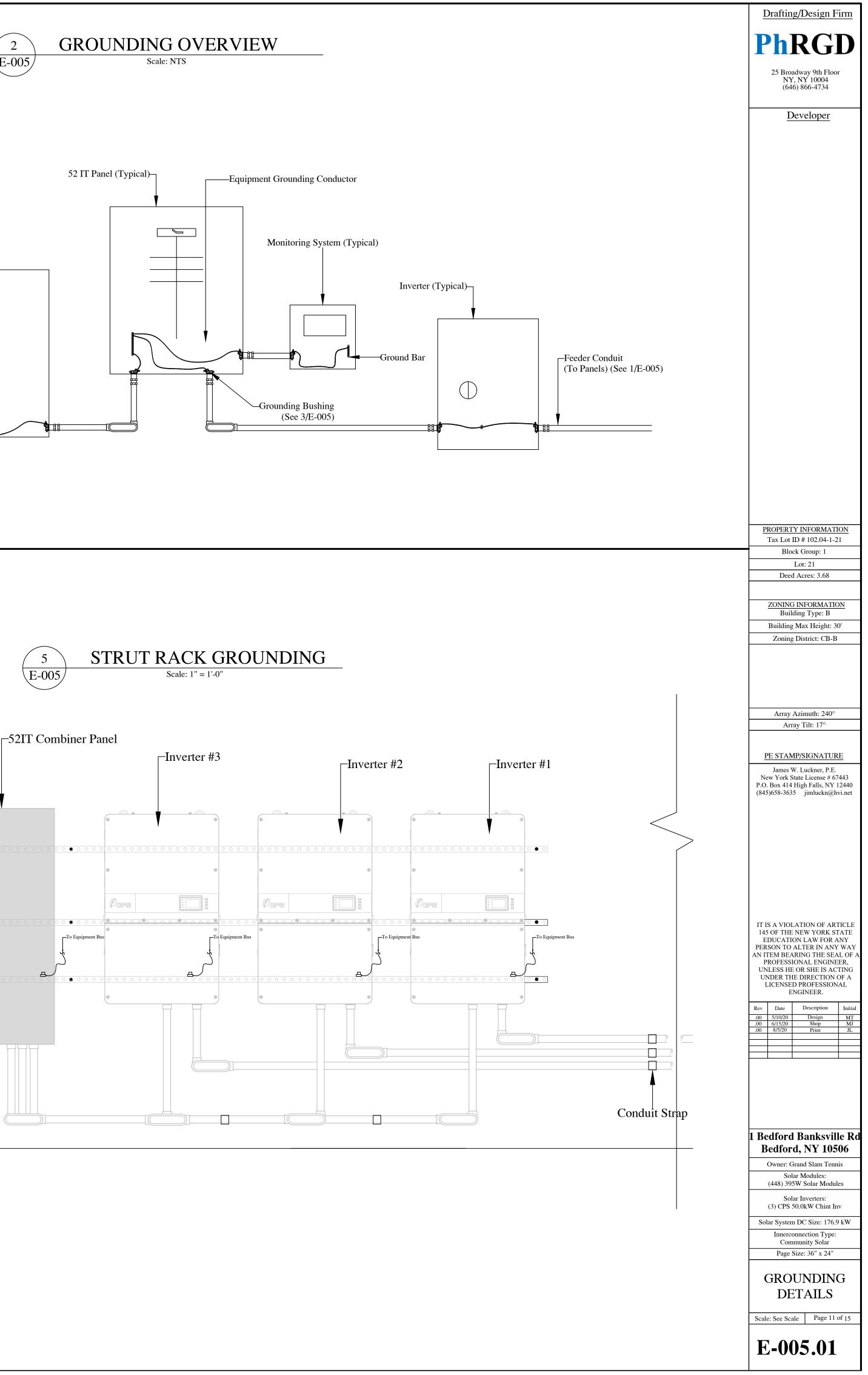


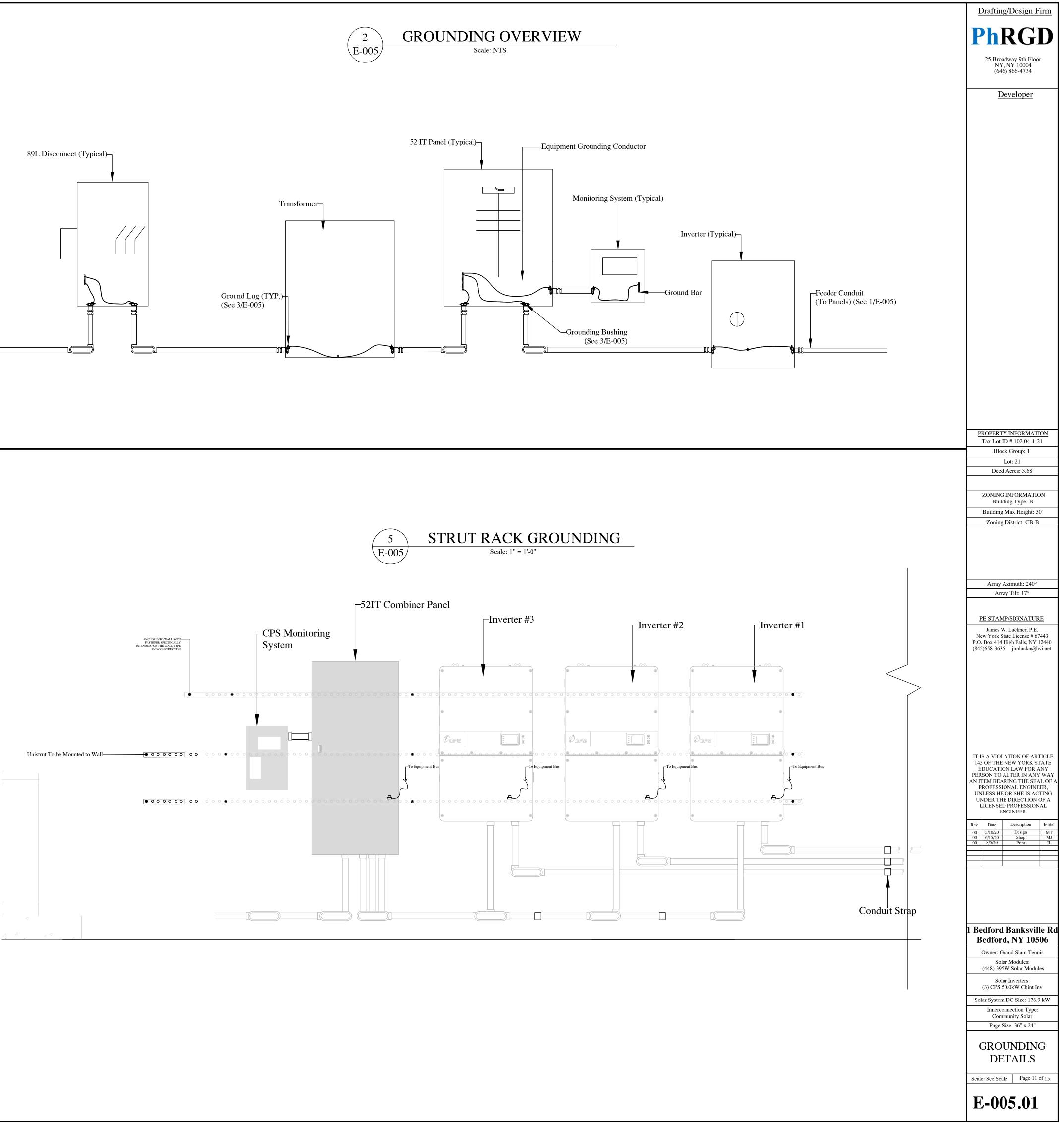


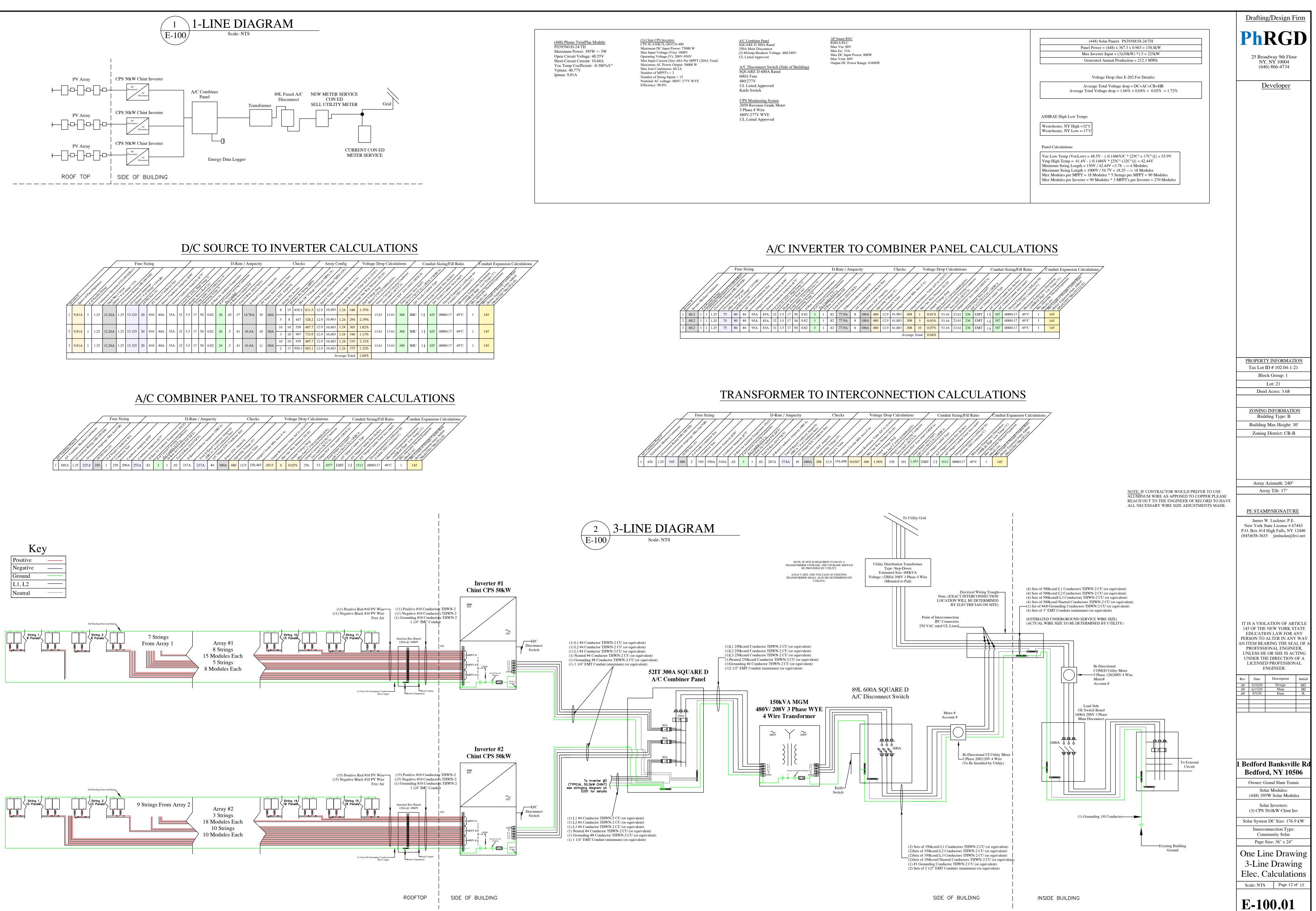


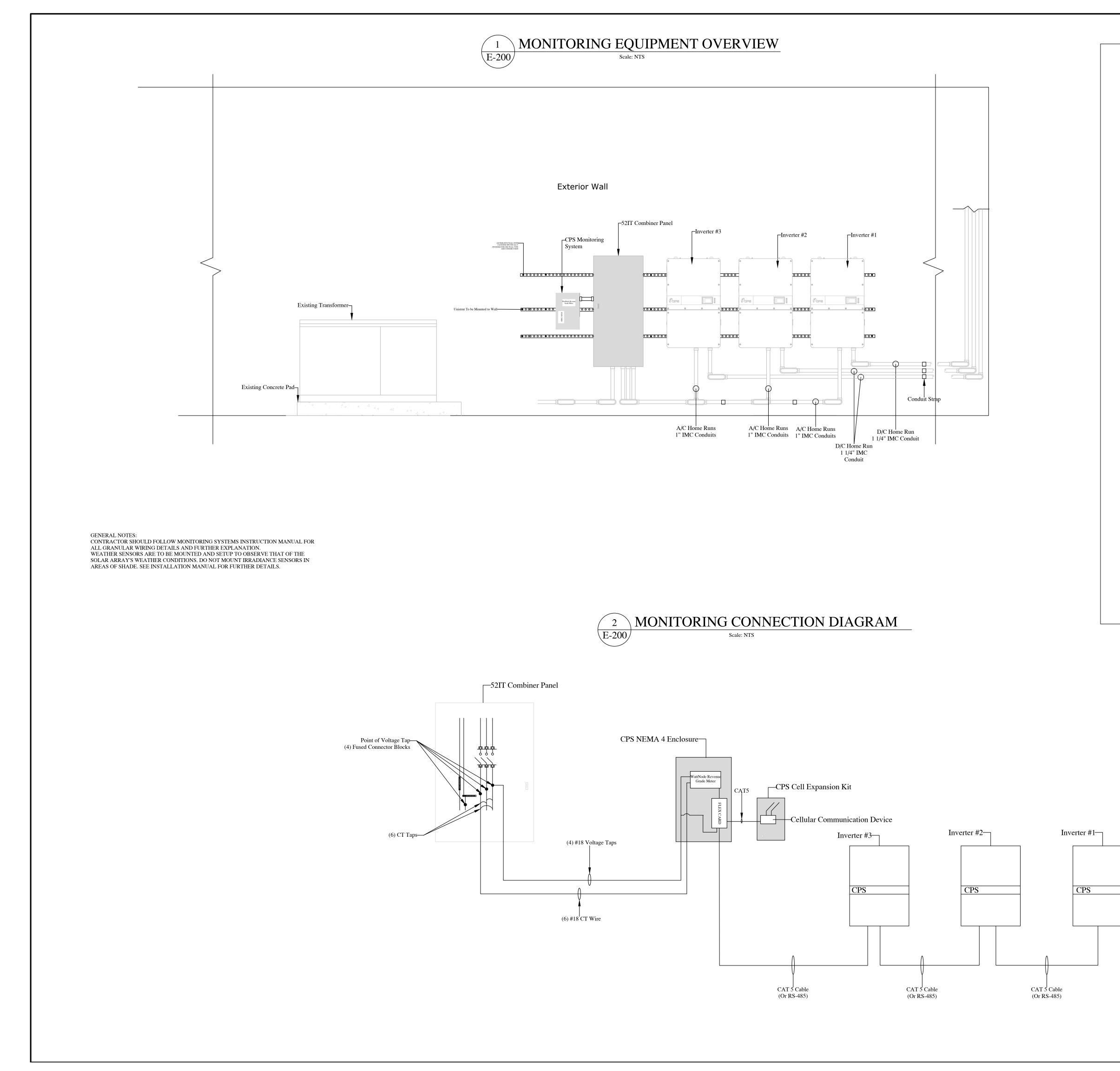






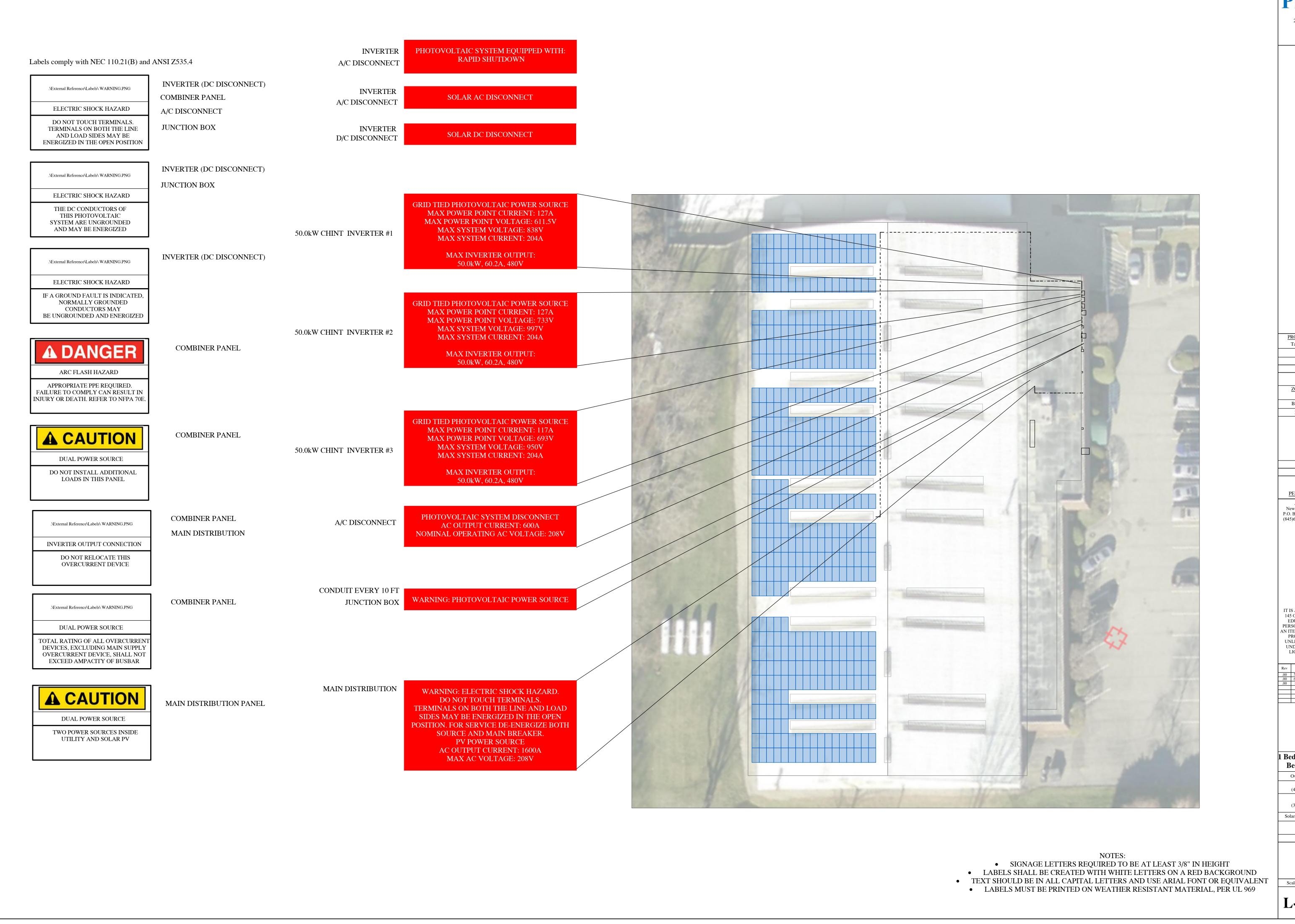






Mode Name CPS COM-PKG-600-US CP3 Fick Gateway Modus@ R5485 Gateway to Portal Ethernet Investor conscions per card 1-32 Protocols SunSpec XML HTTPS, CPS Modbus@ RTU Local Programming Wi-Fi to CPS Connect Phone App (IOS and Android) Data sampling rate Programmatic data sampling (1 to 20 minutes sample rate) Local Argamenting Modbus@ D, Invester SN%, Model, TYsis/DYSis(KW), Nev(A), FreqKt2), Mode, Time, EV Data parameters Modbus@ D, Invester SN%, Model, TYsis/DYSis(KW), Nev(A), FreqKt2), Mode, Time, EV Meter Type UstNode Revenue-grade Wide-Range Modbus@ Meter Input Votage Line powered from 3Phs, 460 Vac, 60Hz. Communication protocol Modbus@ RTU R8485 Measurement Accuracy ANSI C12.20 class to San ANSI C12.1 Update Rate Approximately 0.1 second Startup Time 4 1 second fart the supplied Default CT Phase Angle Correction 0.0 degrees CT T	CPS Commercial Monit	
Comparison of the second		
Model Name CPS COM-PKG-800-US CPS Fire Addressy Modbus® RS485 Gateway Ethernet Inverters to Gateway Ethernet Cateway to Portal Ethernet Inverters and Cateway Northics SunSpec XML HTTPS, CPS Modbus® RTU Local Programming Wi-Fiti Co FC Conneet Phone App (IOS and Android) Data sampling rate Programmable data sampling (1 to 20 minute sample rate) Local data storage 30 days based on 15 minute intervals Data parameters Modbus® D, Inverter S/Ns, Model, TVield/DYield(KMN), Eff(S), PF, Pmax(W) Revenue-grade Mater Meter Type Meter Type WatNode Revenue-grade Wide-Range Modbus® Meter Meter Type Line powered from 3Phs, 460 Vac, 60Hz Communication protocol Modbus® RTU R3465 Measurement K-Accuracy ALS 12.20 class D.5 and ANSI C12.1 Update Rate Approximately 0.1 second Datand Crametory 6.1 Second after the supply voltage is applied Default CT Phase Angle Correction 0.0 degrees CT Accuracy CPS Web-based Cutomer Facing Portal Inverter Controls Con/O/D, PF control, Active Powerouralment, Remote Arc-Faui	Annitoring Portal, Flex Gateway data logger Cey Features I Low cost, complete HW and SW package Includes Revenue-Grade site level meter Full access to Inverter Data (over 15 param 1-20 minute interval data (up to 2 years of 5 years of monitoring included (extension Automated site Commissioning Report Up to 32 Inverters per Flex Gateway (no ac 5 site activation with "CPS Connect" IOS or J Inverter On/Off, remote Arc-Fault reset, PF	applications. This turnkey solution includes a customer facir , site activation mobile App, and Revenue-Grade site meter. heters per inverter) f site data can be downloaded) is a vailable) dditional fee's for each inverter connection) Android Smart Phone App
Model Name CPS COM-PKG-800-US CPB Fiex Galeway Modbus® RS485 Gateway to Portal Ethernet Invariants to Galeway Bitement Invariants to Galeway Modbus® RS485 Gateway to Portal Ethernet Invariants of Galeway Invariants Decisions per card SunSpec XML HTTPS, CPS Modbus® RTU Local Programming Wri-Fi to CPS Connect Phone App (IOS and Android) Data sampling rate Programmable data sampling (1 to 20 minute sample rate) Local data storage 30 days based on 15 minute intervals Data parameters Modbus® ID, Inverter SNNs, Model, TVield/DYield(KMN), Eff(K), PE, Pmax(W) Parameters WathVode Revenue-grade Wide-Range Modbus® Meter Meter Type Unaber(V), Labe(A), Lab	CPG	Ted
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Inverter connections per and 1-32 Protocols SunSpec XML HTTPS, CPS Modbus® RTU Local Pogramming W-F1 to CPS connect Phone App (OS and Android) Date sampling rate Programmable data sampling (16 22) mitube sample rate) Local data storage 30 days based on 15 mitube intervals Date parameters Modbus® ID, inventor SNs, Model, TYteid/DYteid(KMN), Freq(Hz), Mode, Time, EV Revenue-grade Meter Modbus® ID, inventor SNs, Model, TYteid/DYteid(KMN), Freq(Hz), Mode, Time, EV Revenue-grade Meter Modbus® ID, inventor SNs, Model, TYteid/DYteid(KMN), Freq(Hz), Mode, Time, EV Meter Type WattNode Revenue-grade Wide-Range Modbus® Meter Input Voltage Line powered from 3Phs, 480 Vac, 60Hz Communication protocol Modbus® RTU E8465 Messummert Accuracy ANSI C12.20 class 0.5 and ANSI C12.1 Update Rate Approximately 0.1 second Startup Time 4 second after the supply voltage is applied Default CT Phase Angle Correction 0.0 degrees CT Type Revenue-grade, Spill-core, 1.33 'x 1.25' window opening CT Rated Current/Output 600 Amp10.33 Vac Monitoring CPS Web-basaed Customer Facing Portal In	CBS Flow Catoway	
Local Programming WH-Fi to CPS Connect Phone App (CIS and Android) Data sampling rate Programmable data sampling (1) to 20 minute sample rate) Local data sionge 30 days based on 15 minute intervals Data parameters Modbus@ D, Inventor SMY, Modd, TYTeldy MOrdel(XWh), Eff(%), PF, PraxXWW Paceure-grade Meter Modbus@ D, Inventor SMY, Modd, TYTeldy MOrdel(XWh), Eff(%), PF, PraxXWW Revenue-grade Meter Modbus@ D, Inventor SMY, Modd, TYTeldy MOrdel(XWh), Eff(%), PF, PraxXWW Revenue-grade Meter Une powered from 3Pha, 480 Vac, 60Hz Communication protocol Modbus@ Nttl: RE465 Messurement Accuracy ANSI C12.20 class 0.5 and ANSI C12.1 Update Rate Approximately 0.1 second Startup Time 4 second after the supply voltage is applied Default CT Phase Angle Correction 0.0 degrees CT Type Revenue-grade, Spill-core, 1.35 x 1.25' window opening GT Accurrent/Output 600 Ampt0.33 Vac Menitaring CPS Web-based Customer Facing Portal Inverter Data parameters Pac(KW), Labc(V), Labc(A), Labr(V), Lev(A), Treng(Y-2), THO, THDI Site-Level Production Eadress, Intervalsen, Address, Rate AC/DCKW Commissioning Reports System In	Inverters to Gateway	
Local data storage 30 daya based on 15 minute intervals Data parameters Modbuale D, Inverter Sirk, Moda, TYride/Nole((Wn), Eff(%), PF, Prax(WW) Revenue-grade Meter Modbuale D, Inverter Sirk, Moda, TYride/Nole((Wn), Eff(%), PF, Prax(WW) Revenue-grade Meter Modbuale MC Meter Type WattNode Revenue-grade Wide-Range Modbus® Meter Input / Voltage Line powered from 3Phs, 480 Vac, 60Hz Communication protocol Modbuale RTU R8465 Messaurement Accuracy ANSI C12.20 class 0.5 and ANSI C12.1 Update Rate Approximately 0.1 second Startup Time ≤ 1 second after the supply voltage is applied Default CT Phase Angle Correction 0.0 degrees CT Type Revenue-grade, Split-core, 1.35 x 1.25" window opening GT Accurrent/Output 600 Amp/0.33 Vac Menitoring CPS Web-based Customer Facing Portal Inverter Data parameters Pac(KW), Labc(Y), Labc(A), Labr(Y), Lipx(A), Trang(C), THDy, THDI Site-Laver IPOrduction Estatus, Warning, Portoet, Fault Real-time or Daily Notification Status, Model, TYridoWinder, Marin, Revole Arc-Fault Reset Inverter Data parameters Pac(KW), Labc(V), Labc(A), Luyr(V), Lyr(A), Trang(C), THDy, THDI	Inverters to Gateway Gateway to Portal Inverter connections per card	1-32
Data parameters Modbus® ID, Inventer SN's, Model, T'Yleid/DYleid(kWh), Eff(%), FP, Pmax(W) Pack(W), Sac(k/A), Uabc(V), Iabc(A), Iubc(A), Iubc(A), Iupv(A), Frag(Hz), Mode, Time, EW Revenue-grade Meter Meter Type Communication protocol Meter Type Startup Time C1 Startup Time C1 Startup Time C1 Startup Time C1 Type Revenue-grade, Bellicoron, 132 X 125 window opening C1 Acazunacy C1 Type C1 Rated Current/Output Boot Ampi0.333 Vac Mentioring Invarter Data parameters <td< td=""><td>Inverters to Gateway Gateway to Portal Inverter connections per card Protocols Local Programming</td><td>1-32 SunSpec XML HTTPS, CPS Modbus® RTU Wi-Fi to CPS Connect Phone App (IOS and Android)</td></td<>	Inverters to Gateway Gateway to Portal Inverter connections per card Protocols Local Programming	1-32 SunSpec XML HTTPS, CPS Modbus® RTU Wi-Fi to CPS Connect Phone App (IOS and Android)
Revenue-grade Meter Meter Type Watth/ode Revenue-grade Wide-Range Modbus® Meter Input Voltage Line powered from 3Phs, 480 Vac, 60Hz Communication protocol Modbus® RTU R8485 Measurement Accuracy ANSI C12.20 class D.6 and ANSI C12.1 Update Rate Approximately 0.1 second Startup Time 5 1 second after the supply voltage is applied Default CT Phase Angle Correction 0.0 degrees CT Type Revenue-grade, 5pill-core, 13, 37 x 1.25' window opening CT Accuracy 0.75% CT Rated Current/Output 600 Ampt0.333 Vac Menitoring CPS Web-based Customer Facing Portal Inverter Controls Inverter Data parameters Pac(kW) (Jabc(X), Iabc(A), Upr(X), Temp(C), THD0, THD1 Eite-Level Production Energy(Wh) Day, Month, Year Rest-Inier or Daily Notification Status, Warning, Portoet, Fault Commissioning Reports System Init: Site Jacker), Noted, Status, Performance Production Reports Modbus U), Inverter Nite: Model, Shi, PW, V/F Relay settings, Performance Production Reports Modbus U), Inverter Nite: Model, Shi, PW, V/F (Hod(K), Ker, Prence, WP, Pac(kW), Sec(kVA), Use(A), Une(A), Fing(RYc), PF, Pranc(WP, Pac(kWA), Sec(kVA), Sec(kVA), Sec(kVA), Sec(kVA), Sec(kVA),	Invertiers to Gateway Gateway to Portal Inverter connections per card Protocols Local Programming Data sampling rate	1-32 SunSpac XML HTTPS, CPS Modbus® RTU Wi-Fi to CPS Connect Phone App (iOS and Android) Programmable data sampling (1 to 22 minute sample rate) 30 days based on 15 minute intervals
Input Voltage Line powered from 3Phs, 480 Vac, 00Hz. Communication protocol Modusue RTUL R8455 Measurement Accuracy ANSI C12.20 class 0.5 and ANSI C12.1 Updata Rate Approximately 0.1 second Startup Time ≤ 1 second after the supply voltage is applied Default CT Phase Angle Correction 0.0 degrees CT Type Revenue-grade, Split-core, 183 × 1.25' window opening CT Rated Current/Output 600 AmpT0.333 Vac Menitoring CPS Web-based Customer Facing Portal Inverter Data parameters OrD'0ff, PF control, Active Power curaliment, Remote Arc-Fault reset Inverter Data parameters Pac(KW), Labc(X), Labc(X), Labc(X), Worth, Year Rest-line or Daily Notification Status, Warning, Protect, Fault Cormisioning Reports System Intr:: Status, Model, Triady/Unick(MM), Er(%), Prevac(W) Production Reports Morbus Di, Nodel, Triady/Unick(MM), Er(%), Prevac(W) Production Reports Morbus Di, Nodel, Triady/Unick(MM), Er(%), Prevac(W), Pac(KW), Sac(KVA), Labc(A), Lab	Inverters to Gateway Gateway to Portal Inverter connections per card Protocols Local Programming Data sampling rate Local data storage	1-32 SunSpec XML 1HTTPS, CPS Modbus® RTU Wi-Fi to CPS Connect Phone App (IOS and Android) Programmable data sampling (1 to 20 minute sample rate) 30 days based on 15 minute intervals Modbus® IID, Inverter SN's, Model, Trield/Vield(KWh), Eff (%), PF, Pmax(kW),
Measurement Accuracy ANSI C12.20 (alse 0.5 and ANSI C12.1) Update Rate Approximately 0.1 second Startup Time Approximately 0.1 second Startup Time \$1 second after the supply voltage is applied Default CT Phase Angle Correction 0.0 degrees CT Type Revenue-grade, Split-core, 1.83 x 1.25" window opening CT Rated Current/Output 600 Amp/0.333 Vac Menitoring CPS Web-based Customer Facing Portal Inverter Data parameters On/Off, PF control, Active Power curalilment, Remote Arc-Fault reset Inverter Data parameters Pac(XW), Labc(X), Labc(X), Labc(X), Worth, Year Rest-line or Daily Notification Status, Warning, Protect, Fault Cormissioning Reports System Inito: State, Sker, Protect, Fault Production Reports Morker, Model, Yind(YoldridKM), Eff(%), P. Prax(KW) Production Reports Morker, Model, Yind(YoldridKM), Eff(%), P. Prax(KW), Pac(KW), Sac(KVA), Uabc(V), Labc(A), Labc(A), Labc(A), Labc(A), Labc(A), Eff(%), P. Prax(KW)	Inverters to Gateway Gateway to Portal Inverter connections per card Protocols Local Programming Data sampling rate Local data storage Data parameters Revenue-grade Meter	1-32 SunSpac XML HTTPS, CPS Modbus® RTU Wi-Fi to CPS Connect Phone App (IOS and Android) Programmable data sampling (1 to 20 minute sample rate) 30 days based on 15 minute intervals Modbus® ID, Inverter SN's, Model, TYleid/DYleid(kWh), Eff(%), PF, Pmax(kW), Pac(kW), Sac(kVA), Uabc(V), Iabc(A), Upv(V), Ipv(A), Freq(Hz), Mode, Time, Even
Update Rate Approximately 0.1 second Startup Time 5 1 second after the supply voltage is applied Default CT Phase Angle Correction 0.0 degrees CT Type Revenue-grade, Spill-core, 13.9 x 1.25 window opening CT Accuracy 0.75% CT Rated Current/Output 600 Ampt0.333 Vac Meinitoring CPS Web-based Customer Facing Portal Inverter Controls On/Off, PF control, Active Power curaliment, Remote Arc-Railt Reset Inverter Data parameters Pec(XW), Jubc(Y), Iabc(A), Upr(Y), Dr(A), Temp(C), THDD, THDD Stell-Level Podocution Estatus, Warning, Protect, Fault Commissioning Reports System Init: Site address, Installation date, Rated ACDCKW Production Reports Module Universer Nite, Model, Thried(DY), Er(K), PF, Prax(KW), Percet, Fault Production Reports Module Universer Nite, Model, Thried(DY), Er(K), PF, Prax(KW), Percet(KV), Sec(KVA), Sec(KV	Inverters to Gataway Gataway to Portal Inverter connections per card Protocols Local Programming Data sampling rate Local data storage Data parameters Revenue-grade Meter Meter Type Input Voltage	1-32 SunSpec XML HTTPS, CPS Modbus® RTU Wi-Fi to CPS Connect Phone App (QS and Android) Programmable data sampling (1 to 20 mixule sample rate) 30 days based on 15 minute intervals Modbus® (D, Inventer SN's, Model TYteldrivid(MW), Eff(%), PF, Pmax(W), Pac(kW), Bac(kVA), Uabc(V), Iabc(A), Lipv(V), Ipv(A), Freq(Hz), Mode, Time, Even WattNode Revenue-grade Wide-Range Modbus® Meter
Default CT Phase Angle Correction 0.0 degrees CT Type Revenue-grade, 5plicors, 132 X 1.25" window opaning CT Accurancy 0.75% CT Rated Current/Output 600 Amp/0.333 Vac Menitoring CPS Web-based Customer Facing Portal Inverter Ontrols On/Off, PF control, Active Power current/lement, Remote Archault reset Inverter Ontrols On/Off, PF control, Active Power current/lement, Remote Archault reset Inverter Data parameters Pac(kW)/Jabc(V), Iabc(A), Upv(V), Ipv(A), Temp(C), THOV. THDI Stell-Level Podouction Estus, Warning, Protect, Fault Commissioning Reports System Init: Site address, Installation date, Rated AC/DCWW Production Reports Modeut Di. Inverter SNI's, Model, TYreid(DYield(MMh), Eff(%), PF, Prava(W), Pac(W), Sac(KVA), Use(A), Upv(V), Ipv(A), Temp(Nz), Mede, Time, Ew	Inverters to Cataway Gateway to Portal Inverter connections per card Protocols Local Programming Data sampling rate Local data storage Data parameters Revenue-grade Meter Meter Type Input Votage Communication protocol	1-32 SunSpec XML HITPS, CPS Modbur® RTU Wi-Fi to CPS Connect Phone App (IOS and Android) Programmable data sampling (1 to 22 minute sample rate) 30 days based on 15 minute intervals Modbus® ID, Invoter SN's, Model, Tribid/D'Neld(kWh), Eff(%), PF, Pmax(kW), Pac(kW), Sac(kVA), Labc(A), Labc(A), Lapv(V), Ipr(A), Freq(Hz), Mode, Time, Even WattNode Revenue-grade Wide-Range Modbus® Meter Line powered from 3Phs, 460 Vae, 60Hz Modbus® T
CT Accuracy 0.75% CT Rated Current/Output 600 Amp/0.333 Vac Monitoring Interface Inverter Controls On/Off, PF control, Active Power curtaliment, Remote Arc-Fault reset Inverter Data parameters Pac(KW), Uabc(X), Iabc(A), Upv(X), Env(C), THDX. THDI SteL-ucer Production Energy(KWh) Day, Month, Year Real-time or Daily Notification Status, Warning, Protect, Fault Commissioning Reports System Infc: Site Anders, Installation date, Rated AC/DCKW Production Reports Modbus Up, Instac(KV), Labc(A), Upv(V), Ipv(A), Freq(Hz), Pract(WP) Production Reports Modbus Up, Instac(KVA), Uabc(V), Iabc(A), Upv(V), Ipv(A), Freq(Hz), Mode, Time, Ew	Inverters to Gataway Gataway to Portal Inverter connections per card Protocols Local Programming Data sampling rate Local data storage Data parameters Revenue-grade Meter Meter Type Input Voltage Communication protocol Measurement Accuracy Update Rate	1-32 SunSpac XML HTTPS, CPS Modbus® RTU Wi-Fi to CPS Connect Phone App (IOS and Android) Programmable data sampling (1 to 20 minute sample rate) 30 days based on 15 minute intervals Modbus® ID, Inverter SN's, Model, Trield/D'Idel(KM), Eff(%), PF, Pmax(KM), Pac(KW), Sac(kVA), Uabc(Y), Iabc(A), Upv(Y), Ipv(A), Freq(Hz), Mode, Time, Even WattNode Revenue-grade Wide-Range Modbus® Meter Line powered from 3Pha, Ad9 Vac, 60Hz Modbus® ITU RS485 ANSI 012.20 dass 0.5 and ANSI 012.1 Approximately 0.1 second
Menitoring CPS Web-based Customer Facing Portal Inverter Controls On/Off, PF control, Active Power curtailment, Remote Arc-Fault reset Inverter Data parameters Pac(KW), Labc(A), Labc(A), Lupv(A), Fung(C), THDX, THDI Stits-Level Power curtailment, Remote Arc-Fault reset Pac(KW), Labc(A), Labc(A), Month, Year Real-line or Daily Notification Status, Warning, Protect, Fault Commissioning Reports System Infc: State address, Installation date, Rated AC/DCKW Production Reports Modbus U, Inverter Infc: Model, SMA, IPW, VIF Relay settings, Performance Production Reports Modbus U, Ilabc(A), Lupv(V), Lipv(A), Freq(N-2), Mode, Time, Ew	Inverters to Gateway Gateway to Portal Inverter connections per card Protocols Local Programming Data sampling rate Local data storage Data parameters Revenue-grade Meter Meter Type Input Voltage Communication protocol Measurement Accuracy Update Rate Startup Time Default CT Phase Angle Correction	1-32 SunSpac XML HTTPS, CPS Modbus® RTU Wi-Fi to CPS Connect Phone App (IOS and Android) Programmable data sampling (1 to 20 minute sample rate) 30 days based on 15 minute intervals Modbus® ID, Inventer SN/s, Model, Trield/DYtield(KMh), Eff(%), PF, Pmax(kW), Pac(kW), Sac(kVA), Uabc(V), Iabc(A), UpV(V), IpV(A), Freq(Hz), Mode, Time, Even Watthode Revenue-grade Wide-Range Modbus® Meter Line powered from 3Phs, 480 Vac, 80Hz Modbus® ID, ETL 20 dass 0.5 and ANSI C12.1 ANSI C12.20 dass 0.5 and ANSI C12.1 ASI C1 second after the supply voltage is applied 6.0.0 degrees
Interface OPS Web-based Customer Facing Portal Inverter Controls On/OR, FP control, Active Power curate/liment, Remote Arc-Fault reset Inverter Data parameters Pac(MV), Labc/A), Labc/A), Labv/A, Upv/A), Freq(C), THDV, THDI Still-Lavel Podoucidion Pac(MV), Labc/A), Labv/A, Upv/A), Freq(C), THDV, THDI Real-time or Daily Notification Status, Warning, Protect, Fault Commissioning Reports System Intro: Isla eddress, Instatusion date, Rated AC/DCKW Production Reports Modbus ID, Inverter Tiots: Model, SM, IPW, VF Relaty settings, Performance Production Reports Modbus LD, Inverter SINS, Model, TYried/DYnied(KMN), Eff(K), PF, Prack(KY), Pac(KA), Sac(KA), Labc/A), Labc/A), Lay(A), Freq(Itz), Mode, Time, Ew	Inverters to Gataway Gataway to Portal Inverter connections per card Protocols Local Programming Data sampling rate Local data storage Data parameters Revenue-grade Meter Meter Type Input Voltage Communication protocol Messur-ment Accuracy Update Rate Startup Time Default CT Phase Angle Correction CT Type CT Accuracy	1-32 SunSpec XML HTTPS, CPS Modbus® RTU WI-F1 to CPS Connect Phone App (IOS and Android) Programmative data sampling (1 to 20 minute sample rate) 30 days based on 15 minute intervals Modbus® ID, Inverter SIN's, Model, Trield/DYIdel(KM), Eff(%), PF, Pmax(KW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), Ff(%), Eff(%), PF, Pmax(KW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), Ff(%), Eff(%), PF, Pmax(KW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), Ff(%), Eff(%), PF, Pmax(KW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), Ff(%), Eff(%), PF, Pmax(KW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), Ff(%), Eff(%), PF, Pmax(KW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), Ff(%), Eff(%), PF, Pmax(KW), Pac(KV), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), IbV(A), Ff(%), Ff(%), PF, Pmax(KW), Pac(KV), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), IbV(A), Ff(%), PF, Pmax(KW), Pac(KV), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), IbV(A),
Inverter Data parameters Pec(NV).Usbc/A), Usbc/A), Upv(A), Terno(C), THOJ, THOJ Stils-Lavel Production Energy(MVh) Day, Month, Year Real-time or Daily Notification Status, Warning, Protect, Fault Commissioning Reports Status, Warning, Protect, Fault Production Reports Diversifier infic: Model, SN, IFW, VF Relay settings, Performance Production Reports Modbus UD, Inverter INIC: Model, SN, IFW, VF Relay settings, Performance Production Reports Pac(KW), Sac(KrA), Usbc/N, Lett(V), Inv(A), Freq(Nz), Mode, Trine, Ew	Inverters to Gataway Gataway to Portal Inverter connections per card Protocols Local Programming Data sampling rate Local data storage Data parameters Revenue-grade Meter Meter Type Input Voltage Communication protocol Measurement Accuracy Update Rate Startup Time Default CT Phase Angle Correction CT Accuracy CT Accuracy CT Actured Current/Output	1-32 SunSpec XML HTTPS, CPS Modbus® RTU WI-F1 to CPS Connect Phone App (IOS and Android) Programmative data sampling (1 to 20 minute sample rate) 30 days based on 15 minute intervals Modbus® ID, Inverter SIN's, Model, Trield/DYIdel(KM), Eff(%), PF, Pmax(KW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), Ff(%), Eff(%), PF, Pmax(KW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), Ff(%), Eff(%), PF, Pmax(KW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), Ff(%), Eff(%), PF, Pmax(KW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), Ff(%), Eff(%), PF, Pmax(KW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), Ff(%), Eff(%), PF, Pmax(KW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), Ff(%), Eff(%), PF, Pmax(KW), Pac(KV), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), IbV(A), Ff(%), Ff(%), PF, Pmax(KW), Pac(KV), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), IbV(A), Ff(%), PF, Pmax(KW), Pac(KV), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), IbV(A),
Read-lime or Daily Notification Status, Warning, Protect, Fault Commissioning Reports System Init:: Bit address, Installation date, Rated AC/DCkW Inverter Init:: Model, SMA, IPW, V/F Relay settings, Performance Production Reports Modbau ED, Inverter SIN, Model, Tried/Note/Model, SMA, PP, Name(IVA) Production Reports Pack(VA), Sac(kVA), Uabc(V), Iabc(A), Upv(V), Ipv(A), Freq(Hz), Mode, Time, Ew	Inverters to Gataway Gataway to Portal Inverter connections per card Protocols Local Programming Data sampling rate Local data storage Data parameters Revenue-grade Meter Meter Type Input Voltage Communication protocol Messurement Accuracy Update Rate Startup Time Default CT Phase Angle Correction CT Tacuracy CT Rated Current/Output Menitoring Interface	1-32 SunSpec XML HTTPS, CPS Modbus® RTU Wi-Fi to CPS Connect Phone App (IOS and Android) Programmative data sampling (1 to 20 minute sample rate) 30 days based on 15 minute intervals Modbus® ID, Inverter SIN's, Model, Triald/DYIeld(KM), Fig.(KK), PF, Prmax(kW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), KM, Fig. (K, PF, Prmax(kW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), InV(A), Eff(%), PF, Prmax(kW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), InV(A), Eff(%), PF, Prmax(kW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), InV(A), Eff(%), PF, Prmax(kW), Pac(KW), Sac(KVA), Uabc(V), Iabc(A), UpV(V), IpV(A), InV(A), InV(A), InV(A), Uabc(A), Uabc(A), UpV(A), InV(A),
Commissioning respons Inverter Infic: Model, SM, PW, V/F Relay settings, Performance Modbus ID, Inverter SINN, Model, TYriad/Nole(KM), Eff(5), PF, Pmark(W), Pac(kW), Sac(kVA), Uabc(V), Iabc(A), Upv(V), Ipv(A), Freq(Hz), Mode, Time, Ew	Inverters to Gataway Gataway to Portal Inverter connections per card Protocols Local Programming Data eampling rate Local data storage Data parameters Revenue-grade Meter Meter Type Input Voltage Communication protocol Measurement Accuracy Update Rate Startup Time Default CT Phase Angle Correction CT Type GT Accuracy CT Rate Current/Output Monitoring Interface Inverter Controls Inverter Controls	1-32 SunSpec XML HTTPS, CPS Modbus® RTU WI-F1 to CPS Connect Phone App (IOS and Android) Programmative data sampling (1 to 20 minute sample rate) 30 days based on 15 minute intervals Modbus® ID, Inverter SIN's, Model, Trivid/DYIdel(KM), Eff(%), PF, Pmax(KW), Pac(KW), Sac(K/A), Uab/(Y), Itok/A), Frey(IL-), Mode, Time, Even WattNode Revenue-grade Wide-Range Modbus® Meter Line powered from 3Phs, 480 Vac, 60Hz Modbus® RTU RS485 ANSI OL 220 dass 0.5 and ANSI OL21 APproximately 0.1 second 5 1 second after the supply voltage is applied 0.0 degrees Revenue-grade, Split-core, 1.83' x 1.25' window opening 0.75% 600 Ampf0.333 Vac CPS Web-based Customer Facing Portal On/Off, PF control, Active Power curaliment, Remote Arc-Fault reset Pack(V), Uab/(J), Uab/(J), Temp(C), THDy, THD)
Piculation Reports Pac(kW), Sac(kVA), Uabc(V), Iabc(A), Upv(V), Ipv(A), Freq(Hz), Mode, Time, Ev	Inverters to Gateway Gateway to Portal Inverter connections per card Protocols Local Programming Data sempling rate Local Atta storage Data parameters Revenue-grade Meter Meter Type Input Voltage Communication protocol Messurement Accuracy Update Rate Startup Time Default CT Phase Angle Correction CT Type CT Accuracy CT Rated Current/Output Monitoring Inverter Oata parameters Stie-Lovel Production	1-32 SunSper XML HTTPS, CPS Modbus® RTU WI-FI to CPS Connect Phone App (IOS and Android) Programmatie data sampling (1 to 20 minute sample rate) 30 days based on 15 minute intervals Modbus® ID, Invorter SIN's, Model, Tribid/DYIeld(Wh), Eff(%), PF, Pmax(W), Pac(W), Sac(KA), Uab(V), Iso(A), Viny(V), Ipv(A), Freq(ILz), Mode, Time, Even WattNode Revenue-grade Wide-Range Modbus® Meter Line powered from 3Phs, 480 Vac, 60Hz Modbus® RTU R3485 ANSI C12.20 class 0.5 and ANSI C12.1 Approximately 0.1 second 5 1 second after the supply veloge is applied 0.076% Bevenue-grade, Spill-core, 1.85° x 1.25° window opening 0.75% 600 Ampl/0.333 Vac OPS Web-based Customer Facing Portal On/Off, PF control, Able / Pace, targit R, Rancie Ar-Fault reset Pac(W), Uabc(V), Iabc(A), Upv(V), Ipv(A), Temp(C), THD, THD) Energy(Wh) Day, Month, Year Status, Warning, Protec, Fault
Mechanical Parameters (Meter Enclosure)	Inverters to Gataway Gataway to Portal Inverter connections per card Protocols Local Programming Data sampling rate Local dras ptorage Data parameters Revenue-grade Meter Meter Type Input Votage Communication protocol Messurement Accuracy Update Rate Startup Time Default CT Phase Angle Correction CT Type CT Accuracy CT Rated Current/Output Menitoring Interface Inverter Data parameters Stils-Level Production Real-times or Daily Notification	1-32 SunSpec XM. HTTPS, CPS Modbus® RTU Wi-Fi to CPS Connect Phone App (IOS and Android) Programmatie data sampling (1 to 20 minute sample rate) 30 days based on 15 minute intervals Modbus® ID, Inverter SIN's, Model, Tribid/DYtied(KMN), Eff(%), PF, Pmax(KM), Peac(KW), Sac(KA), Uabc(Y), Isro(A), Freq(Hz), Mode, Time, Ever WattNode Revenue-grade Wide-Range Modbus® Meter Line powered from 3Phs, 460 Vae, 60Hz Modbus® RTU R8485 ANSI C122 oltass 0.5 and ANSI C12.1 Approximately 0.1 second 5.1 second after the supply voltage is applied 0.06 dargress Revenue-grade, Spill-coren, 1.83' x 1.25' window opening 0.75% 600 Ampt0.333 Vae CPS Web-based Customer Facing Portal OniOKP Footnito, Achive Power custiment, Remote An-Fault reset Pac(KW), Uabc(V), Isp(V), Ipv(A), Temp(C), THD/ THDI Energy(XMN) Day, Month, Year Status, Warnig, Protex, Fault action Actional C/DCKW Inverter Int: Model, SN, FW, VF Restlay settings, Performance
	Inverters to Gateway Gateway to Portal Inverter connections per card Protocols Local Programming Data sempling rate Local data storage Data parameters Revenue-grade Meter Meter Type Input Voltage Communication protocol Measurement Accuracy Update Rate Startup Time Default CT Phase Angle Correction CT Type CT Acouracy CT Rated Current/Output Menitoring Interface Inverter Data parameters Stite-Level Production Real-time or Daily Notification Commissioning Reports	1-32 SunSpec XM. HTTPS, CPS Modbur® RTU Wi-Fi to CPS Connect Phone App (IGS and Android) Programmable data sampling (1 to 20 minute sample rate) 30 days based on 15 minute intervals Modbus® ID, Inverter SN's, Model, Trield/D'Idel(WN), Eff(%), PF, Pmax(W), Pac(W), Sac(KA), LubC(), Mac(A), Up(A), Freqt(4), Mode, Time, Ever WattNode Revenue-grade Wide-Range Modbur® Meter Une powered from 3Phs, 400 Vas, 60Hz Modburg RTL R5465 ANSI C12.20 class 0.5 and ANSI C12.1 Approximately 0.1 second 5 1 second after the supply voltage is applied 0.0.16 genese Revenue-grade, Bi-Ic-core, 1.83' x 1.25' window opening 0.75% 600 Ampf/0.333 Vac CPS Web-based Customer Facing Portal OniOff, PF control, Active Power ourtainment, Remote Arc-Fault reset Pac(W/),LubC(Y), LubC(A), Up(Y), Inv(A), Trenp(C), ThDy, THDI Energy(Wh) Day, Month, Year Status, Warning, Protect, Fault System Inft: Site address, Installation, date, Arden AC/DCkW Inverter Infc: Model, SN, FW, V/F Relay settings, Performance Modbus D, Inverter SNs, Model, TYdel(UV), PF, Premax(W),
Enclosure Dimensions (H x W x D) 11.50" x 9.75" x 5.19" (292mm x 248mm x 132mm)	Inverters to Gateway Gateway to Portal Inverter connections per card Protocols Local Programming Data samping rate Local data storage Data parameters Revenue-grade Meter Meter Type Input Voltage Communication protocol Messurement Accuracy Update Rate Default CT Phase Angle Correction CT Type CT Accuracy CT Rated Current/Output Menitoring Interface Interface Interface Interface Statu permeters Stel-uren Production Real-time or Daily Notification Commissioning Reports Production Reports	1-32 SunSpec XM. HTTPS, CPS Modbus® RTU Wi-Fi to CPS Connect Phone App (IOS and Android) Programmable data sampling (1 to 20 minutis sample rate) 30 days based on 15 minute intervals Modbus® (1) henotic Sink's, Model, Tried(D'ried(KM)), Eff(%), PF, Praax(KM), Pac(kW), Bac(kVA), Uabc(A), Upv(V), Ipv(A), Freq(Ft2), Mode, Time, Ever WattNode Revenue-grade Wide-Range Modbus® Meter Line powered from 3Phs, 480 Vac, 60Hz Modbus® RTU R5465 ANSI C12.20 class 0.5 and ANSI C12.1 ADVoiting FT R5465 ANSI C12.20 class 0.5 and ANSI C12.1 DAVSON BACK 0.00 Class
Enclosure Weight 12.5bb (5.67kg) Ambient temperature range -30 to +85°C Relative humidity <85% Non-condensing	Inverters to Gataway Gataway to Portal Inverter connections per card Protocols Local Programming Data sampling rate Local data storage Data parameters Revenue-grade Meter Meter Type Input Voltage Communication protocol Measurement Accuracy Update Rate Startup Time Default CT Phase Angle Correction CT Type CT Accuracy CT Rate Current/Output Menitoring Interface Inverter Data parameters Site-Lorent's Interface Inverter Data parameters Site-Lorent's Interface Inverter Controls Inverter Data parameters Site-Lorent's Interface Inverter Controls Inverter Data parameters Site-Lorent's Interface Inverter Controls Inverter Controls Inverter Data parameters Site-Lorent Production Commissioning Reports Production Reports Mechanical Parameters (Meter Enclosure) Enclosure NEMA / IP Rating Enclosure NEMA / IP Rating	1-32 SunSpec XM. HTTPS, CPS Modbus® RTU Wi-Fi to CPS Connect Phone App (IOS and Android) Programmable data sampling (1 to 20 minute sample rate) 30 days based on 15 minute intervals Modbus® (1) hurenter S/N's, Model, Tristelf/Vield(VM), Eff(%), PF, Preax(KV), Bac(kVA), Uabc(A), Uabc(A), Upv(V), Ipv(A), Freq(FtA), Mode, Time, Ever WattNode Revenue-grade Wide-Range Modbus® Meter Line powered from 3Phs, 400 Vac, 60Hz Modbus® RTU RS465 ANSI C12.20 class 0.5 and ANSI C12.1 AOptionary S. 1 second 5 1 second after the supply voltage is applied 0.0 degrees Revenue-grade, Spill-Corn, 1.83° x 1.25° window opening 0.76% 800 AmpD.333 Vac CPS Web-based Customer Facing Portal On/Oft, PF control, Active Power curtailment, Remote Anc-Fault reset Pac(kV), Uabc(Y), Iabc(A), Upv(Y), Inv(A), Temp(C), THD, THDI Energy(KM) Day, Month, Year Status, Warning, Frolage satistics, Performance Modbus ID, Inverter SNrs, Model, Tridd(DYdal(KM), Eff(%), PF, Pmax(KW), Pac(kW), Sac(kVA), Labc(A), Labc(A), Ipv(Y), Ipv(A), Freq(FtA), Mode, Time, Ever

Drafting/Design Firm
PhRGD
25 Broadway 9th Floor NY, NY 10004 (646) 866-4734
Developer
PROPERTY INFORMATION Tax Lot ID # 102.04-1-21 Block Group: 1
Lot: 21 Deed Acres: 3.68
ZONING INFORMATION
Building Type: B Building Max Height: 30' Zoning District: CB-B
Array Azimuth: 240° Array Tilt: 17°
PE STAMP/SIGNATURE
James W. Luckner, P.E. New York State License # 67443 P.O. Box 414 High Falls, NY 12440
(845)658-3635 jimluckn@hvi.net
IT IS A VIOLATION OF ARTICLE 145 OF THE NEW YORK STATE
EDUCATION LAW FOR ANY PERSON TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER,
UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.
Rev Date Description Initial .00 5/10/20 Design MT
.00 6/15/20 Shop MJ .00 8/5/20 Print JL
1 Bedford Banksville Rd
Bedford Banksville Rd Bedford, NY 10506 Owner: Grand Slam Tennis
Owner: Grand Slam Tennis Solar Modules: (448) 395W Solar Modules
Solar Inverters: (3) CPS 50.0kW Chint Inv
Solar System DC Size: 176.9 kW Innerconnection Type: Community Solar
Page Size: 36" x 24"
MONITORING DIAGRAM
Scale: NTS Page 13 of 15



Ξ	Draftin	g/Design F	<u>irm</u>
P	h	RG	n
	25 Bro NY	adway 9th Floor 7, NY 10004	r
	(64	6) 866-4734	
	<u>L</u>	Developer	
		TY INFORMATI ID # 102.04-1-2	
		ck Group: 1	1
	Dee	Lot: 21 d Acres: 3.68	
	ZONINO Buil	G INFORMATIC	<u>DN</u>
	Building	g Max Height: 30)'
	Zoning	g District: CB-B	
	A	A -:	
		Azimuth: 240° ray Tilt: 17°	
<u>F</u>		MP/SIGNATUR	<u>E</u>
Ne P.O.	James V w York S Box 414	W. Luckner, P.E. State License # 67 High Falls, NY 1	443 2440
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Model	90M1-24/TH 0M1H-24/TH	PS395M1-24/TH PS395M1H-24/TH	PS400M1-24/T PS400M1H-24/T		
Туре		Perc Monocrystallir	ne 158.75mm X 79.3	18mm	
Rated Power (Pmpp)	390W	395W	400W	405W	
Tolerance		()~+5w		
Rated Current (Impp)	9.66	9.74	9.81	9.89	
Rated Voltage (Vmpp)	40.37	40.55	40.77	40.95	
Short Circuit Current (Isc)	10.48	10.56	10.64	10.71	
Open Circuit Voltage (Voc)	48.18	48.37	48.55	48.73	
Module Efficency (%)	19.38	19.63	19.88	20.13	
NOCT (Nominal Operating Cell	Temperature)		45±2°C		
Voltage Temperature Coefficien	ıt		-0.306%/°C		
Current Temperature Coefficien	it		+0.046%/C		
Power Temperature Coefficient			-0.417%/C		
MECHANICAL CHARAC	TEDISTICS		ELECT	RICAL CHARACTE	- 0
MEGHANIGAL CHANAG		08mm (79.06inch)	tin lin tin Co 1	HIGAL CHARACTE	-
Dimension (L \times W \times H)		2mm (39.45 inch)	800	1	
	Height: 4	0mm (1.57 inch)	elosi large.=21	s.c nt irrad. = 1000W/mi? nt irrad. =800W/mi?	
Weight	23.0kg (50.7 lbs)		- Incider Incider	nt Irrad. +600W/m² nt Irrad. =400W/m² nt Irrad. =200W/m²	/
Front Glass	3.2mm to	oughened glass	300 thoider E	n mag =233wine	-
Frame	Anodized	aluminium alloy	1 200	1//	
Cable		n:350mm (vertical) or Customized length	100		
Junction Box	IP	68 rated	00	ib do vonage (v) do	
a an			12 Cell tomp = 8	5 C Incident Imad = 1000W/m ²	
ABSOLUTE MAXIMUM F Parameter	(ATING	Values	× 0	Incident Irrad =800W/m2	
Operating Temperature	Ere	m -40 to +85°C		Incident Irrad =600W/m ² Incident Irrad =400W/m ²	-
Hail Diameter @ 80km/h		Up to 25mm	4	Incident Irrad =200W/m ²	
Surface Maximum Load Capac		Jp to 5400Pa	0,	to do do	
Maximum Series Fuse Rating	ity (20A		Vohage (V)	
Application Class		A	r.	952 (37.48)	
Fire Rating (IEC61730)		c			
Module Fire Performance (UL 1	703)	Type1			
Maximum System Voltage		0V/1500V (IEC/UL)			
			116 (45.98		
PACKING CONFIGURAT	FION		21		
Container		40' HQ		 '	-
Pieces/Container		594		0-9×14 (0.35×0.55)	8
compliance with our warrant	ty terms and c	onditions.			1
easurement conditions under ditions(STC): 1000W/m²	r irradiance le	vel of Standard Test	-	1002 (39,45)	1
nass 1.5 Spectrum, cell temp	erature of 25°	С.	1		
	CYCLE S	Be O	F 🔞	solar D	į.
August and Continue of Continu	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	US them foregy Council		Collinea	-
		Note: This datas		binding. Phono Solar ions without notice. Furt	Te





APsmart		APsmart
	Raising the bar in innovative DC MLPE solar power systems	RSD-S-PLC meets SunSpec requirements,maintaining normal func- heart-beat signal from the APsmart Transmitter. The RSD executes Transmitter signal is absent. Users can manually execute rapid shu switch.
0000000	 RSD-S-PLC Meets NEC 2017 (690.12) requirements Executes rapid shutdown of system when Transmitter-PLC signal is absent Meets SunSpec requirements 	RSD-S-PLC Wiring Diagram
RSD-S-PLC Technical Data Model Input Data (DC)	RSD-S-PLC	
Input operating Voltage Range	8-80V	Working Schematic Diagram
Maximum Cont. Input Current (Imax) Maximum Input Power	15A 800W	Working Schematic Diagram
Output Data (DC)	5000	Vin+ e
Output operating Voltage Range	8-80V	
Output Power Range	0-800W	
Maximum System Voltage	1000V/1500V	
Mechanical Data		RSD ASIC
Operating Ambient Temperature Range	-40 °C to + 85 °C (-40 °F to +185 °F)	
Dimensions (without cable&connectors)	5" x 1.2" x 0.6"(129 mm x 30 mm x 16 mm)	
Cable length	Input 250mm/Output 1200mm or Customize	Vin- PL PL Rece
Module Connector	MC4 or MC4 Compatible	Nece
Enclosure Rating	Type 6P / IP68	
Overtemperature protection	Yes	405002 1500V UL/1000V TUV, 1.2m cable, MC
Features & Compliance	DLC.	
Communication	PLC NEC 2017 (690.12); UL1741; CSA C22.2 No. 330-17;	
Safety Compliance	IEC/EN62109-1; 2PFG2305	405003 1500V UL/TUV, 1.2m cable, MC4-Evo2
EMC Compliance	FCC Part15; ICES-003; IEC/EN61000-6-1/-2/-3/-4	
	© All Rights Reserved	APsmart 19925 Stevens Creek Blvd, Suite 100, Cupertino, CA 95014
		+1 737-218-8486 info@APsmartGlobal.com APsmartGlobal.com

Drafting/Design Firm
Drafting/Design Firm
PhRGD
25 Broadway 9th Floor NY, NY 10004 (646) 866-4734
Developer
PROPERTY INFORMATION Tax Lot ID # 102.04-1-21
Block Group: 1 Lot: 21 Deed Acres: 3.68
ZONING INFORMATION Building Type: B Building Max Height: 30'
Zoning District: CB-B
Array Azimuth: 240°
Array Tilt: 17°
PE STAMP/SIGNATURE James W. Luckner, P.E.
New York State License # 67443 P.O. Box 414 High Falls, NY 12440 (845)658-3635 jimluckn@hvi.net
IT IS A VIOLATION OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY
PERSON TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS HE OR SHE IS ACTING
UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.
Rev Date Description Initial .00 5/10/20 Design MT .00 6/15/20 Shop MJ .00 8/5/20 Print JL
.00 8/5/20 Print JL
i
1 Bedford Banksville Rd
Bedford, NY 10506 Owner: Grand Slam Tennis
Solar Modules: (448) 395W Solar Modules
Solar Inverters: (3) CPS 50.0kW Chint Inv Solar System DC Size: 176.9 kW
Innerconnection Type: Community Solar
Page Size: 36" x 24"
LABELS
Scale: NTS Page 15 of 15
G-000.01



I. IDENTIFICATION OF PROPERTY OWNER, APPLICANT AND PROFESSIONAL REPRESENTATIVES

Name of Property Owner:		
Mailing Address:		
Telephone:	_ Fax:	e-mail
Name of Applicant (if different): _		
Address of Applicant:		
Telephone:	Fax:	e-mail
Interest of Applicant, if other than	Property Owner:	
Is the Applicant (if different from	the property owner) a Contract Vendee	?
Yes No		
If yes, please submit affidavit satin	ng such. If no, application cannot be re	viewed by Planning Board
Name of Professional Preparing Si	te Plan:	
Telephone:	Fax:	e-mail
Name of Other Professional:		
Address:		
Telephone:	Fax:	e-mail
Name of Attorney (if any):		
Address:		
Telephone:	Fax:	e-mail

II. IDENTIFICATION OF SUBJECT PROPERTY

Street Address:			
Location (in relation to nea	rest intersecting stree	t):	
feet (north, south	n, east or west) of		
Abutting Street(s):			
Tax Map Designation (NEV	W): Section	Block	Lot
Tax Map Designation (OLI	D): Section	Block	Lot
Zoning District:	Total Land A	.rea	_
Land Area in North Castle	Only (if different)		_
Fire District(s)	School Distri	ct(s)	_
Is any portion of subject pre-	operty abutting or loc	ated within five hundred	(500) feet of the following:
If yes, please identity The boundary of an No Yes (adjace The right-of-way of or highway? No Yes (adjace The existing or prop for which the Count No Yes (adjace The existing or prop or institution is situal	ent) Yes (with any existing or proper- ent) Yes (with posed right-of-way of ty has established chat icent) Yes (with posed boundary of any ated?	d County or State park or in 500 feet) osed County or State parl in 500 feet) any stream or drainage c nnel lines? hin 500 feet)	any other recreation area? way, thruway, expressway, road channel owned by the County or land on which a public building
100 1 es (auja	icent) ies (w	Itiliii 500 leet)	
-	-	d in an agricultural distric	ct?
Does the Property Owner o No Yes		nterest in any abutting pr	operty?
If yes, please identify the ta	ax map designation of	that property:	

III. DESCRIPTION OF PROPOSED DEVELOPMENT

Proposed Use:					
Gross Floor Area:	Existing	S.F.	Proposed	S.F.	
Proposed Floor Are	a Breakdown:				
Retail		S.F.; Off	ice	S.F.;	
Industrial		S.F.; Inst	itutional	S.F.;	
Other Nonre	sidential	S.F.; Res	idential	S.F.;	
Number of I	Owelling Units: _				
Number of Parking	Spaces: Existing	Re	quired	Proposed	
Number of Loading	Spaces: Existing	Re	equired	Proposed	
Earthwork Balance:	Cut C.Y	Y. Fill	C.Y.		
Will Development of	on the subject pro	perty involve	any of the follo	owing:	
(If yes, appli	cial flood hazard ication for a Deve lso be required)			Chapter 177 of the North Castle	Town
Trees with a	diameter at breas	st height (DBI	H) of 8" or grea	nter?	
		Removal Per	mit pursuant to	Chapter 308 of the North Castle	e Town
(If yes, appli	ated wetlands? N ication for a Town lso be required.)			to Chapter 340 of the North Cas	tle Town
0	ted wetlands? No			be required.)	

Short Environmental Assessment Form Part 1 - Project Information

Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information					
Name of Action or Project:					
Grand Slam Health & Tennis Limited					
Project Location (describe, and attach a location map):					
1 Bedford Banksville Rd, Bedford, NY 10506					
Brief Description of Proposed Action:					
Installation of(448) Solar Modules 395W (7,840 sqft),(3)Chint Power 50.0kW Inverter, (1 MGM 3 Phase Transformer,(1)89L 300A AC Disconnect Switches)300A 52	IT Solar AC Combiner P	anel, ((1)150 k\	/a
Name of Applicant or Sponsor:	Teleph	none: 646 866 4734			
Michael Tarzian	E-Mai	lail:			
Address: 181 Westchester Ave					
City/PO:		State:	-	Code:	
Port Chester		NY	1057	'3	
1. Does the proposed action only involve the legislative adoption of a plan, le	ocal law	, ordinance,	_	NO	YES
administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and may be affected in the municipality and proceed to Part 2. If no, continue to			that	~	
2. Does the proposed action require a permit, approval or funding from any	other go	overnmental Agency?		NO	YES
If Yes, list agency(s) name and permit or approval:				✓	
3.a. <u>Total acreage of the site of the proposed action</u> ?		acres			
b. <u>Total acreage to be physically disturbed?</u> c. Total acreage (project site and any contiguous properties) owned		acres			
or controlled by the applicant or project sponsor?		_acres			
4. Check all land uses that occur on, adjoining and near the proposed action. □ Urban □ Rural (non-agriculture) □ Industrial ☑ Comm □ Forest □ Agriculture □ Aquatic □ Other (□ Parkland □ Other (□ Other (ercial	Residential (suburt	ban)		

5. Is the proposed action,	NO	YES	N/A
a. <u>A permitted use under the zoning regulations?</u>			~
b. Consistent with the adopted comprehensive plan?			<
6. Is the proposed action consistent with the predominant character of the existing built or natural		NO	YES
landscape?		~	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental An If Yes, identify:	ea?	NO	YES
		~	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?		NO	YES
		~	
b. Are public transportation service(s) available at or near the site of the proposed action?		~	
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed act	ion?	~	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies:		NO	YES
10. Will the proposed action connect to an existing public/private water supply?		NO	YES
If No, describe method for providing potable water:			
11. Will the proposed action connect to existing wastewater utilities?		NO	YES
If No, describe method for providing wastewater treatment:			
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic		NO	YES
<u>Places?</u> b. Is the proposed action located in an archeological sensitive area?		~	
b. is the proposed action located in an archeological sensitive area:		~	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contained and the second sec	n	NO	YES
wetlands or other waterbodies regulated by a federal, state or local agency?		~	
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:		~	
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check a		apply:	
□ Shoreline □ Forest □ Agricultural/grasslands □ Early mid-successi □ Wetland □ Urban □ Suburban	onal		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed		NO	YES
by the State or Federal government as threatened or endangered?			
16. Is the project site located in the 100 year flood plain?		NO	YES
17. Will the proposed action create storm water discharge, either from point or non-point sources?		NO	YES
If Yes, a. Will storm water discharges flow to adjacent properties?		~	
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drain If Yes, briefly describe:	.s)?		

18. Does the proposed action include construction or other activities that result in the impoundment of	NO	YES
water or other liquids (e.g. retention pond, waste lagoon, dam)?		
If Yes, explain purpose and size:		
	~	
19. Has the site of the proposed action or an adjoining property been the location of an active or closed	NO	YES
solid waste management facility?		
If Yes, describe:		
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or	NO	YES
completed) for hazardous waste?		
If Yes, describe:	~	
I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE H	BEST O	FMY
KNOWLEDGE		
Applicant/sponsor name: Michael Tarzian Date: 9/4/2020		
Signature:		