



Fresno County – Phase II Solar

Renewable Energy Proposal

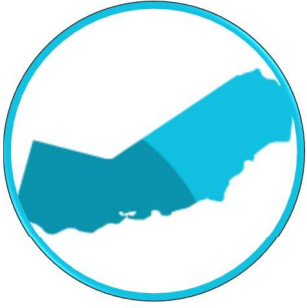
Sam Zantzing

Director, ForeFront Power

October 2023



County of Fresno Sustainability Leader for CA Counties



Statewide RFP



On-Site Solar



Energy Savings



Turnkey Solution



System Monitoring



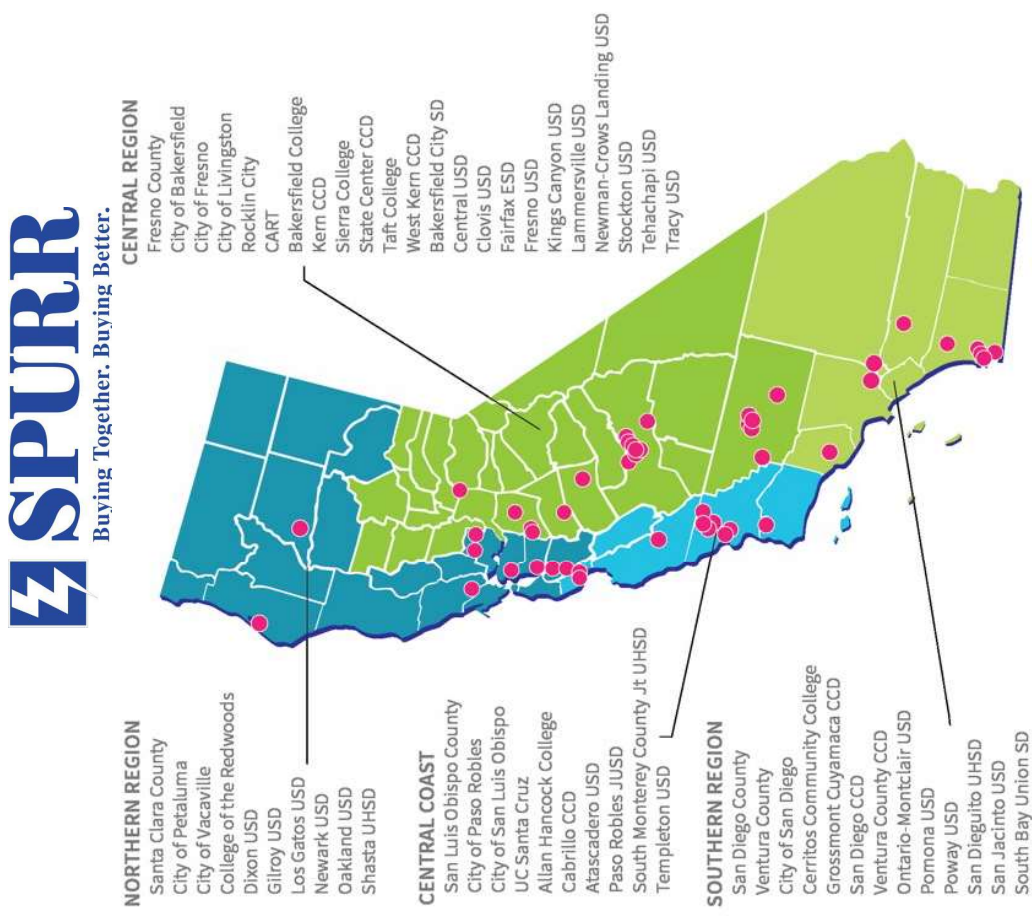
Sustainability



SPURR: School Project for Utility Rate Reduction

- **SPURR = Experience & Success**
 - Buying Consortium of +300 Public Agencies
 - JPA governed by Board of public agency administrators
- **Renewable Energy Aggregated Procurement (REAP) Program**
 - Solar, Storage & EV Charging
 - Competitively Bid Pricing & Terms
 - Standardized Pre-vetted PPA Contract

- **Used by +70 Counties, Cities, & Districts including Santa Clara County, Yolo County & Los Angeles County**





Letter of Interest for NEM 2.0 Solar Projects

Letter of Interest sent via facsimile or electronic mail in a portable document format ("PDF") will be considered an original.

Each of the undersigned executes this Letter of Interest by their signatures, as follows.

NON-BINDING LETTER OF INTEREST FOR SOLAR ENERGY PROJECTS

FOR

THE COUNTY OF FRESNO

PROVIDER:

FFP BTM Solar, LLC

COUNTY:

COUNTY OF FRESNO


Kristin Frooshani, Secretary


Brian Pacheco, Chairman of the Board of
Supervisors of the County of Fresno

11/22/2022

Attest:

Bernice Seidel
Clerk of the Board of Supervisors
County of Fresno, State of California

By: 
Deputy

Potential Projects:

Solar energy projects, which may include battery storage, and related components (each, a "Potential Project," and collectively, the "Potential Projects") that may be installed by Provider at any of the potential Premises.

Potential Premises:

The following potential physical County of Fresno locations for Potential Projects are referred to herein as the "Potential Premises:"

- Hamilton Yard for multiple buildings located at the corner of S. Maple Ave and E. Hamilton Ave., Fresno, CA 93702
- Health & Wellness Center at 1925 E. Dakota Ave, Fresno, CA 93726
- Pontiac Building #6 at 333 W. Pontiac Way, Clovis, CA 93612
- American Ave Landfill at 18950 W. American Avenue, Kerman, CA 93630
- Woodward Park Regional Library at 944 E. Perrin Ave, Fresno, CA 93720
- Heritage Centre* for multiple buildings located at the corner of E. Shields Ave and N. Millbrook Ave, Fresno, CA 93702
- Area 2 Sheriff Substation at 1129 N. Armstrong Ave, Fresno, CA 93727
- Environmental Compliance Center at 310 South West Ave, Fresno, CA 93706
- EMS Dispatch – Clovis*
- Animal Control at 1510 W Don Ronquillo Dr., Fresno, CA 93706
- Elkhorn – Renewable Energy Self-Generation – Bill Credit Transfer at 500 E Elkhorn Ave, Caruthers, CA 93609

*Premises that are leased by the County of Fresno.

Interested Purchaser:

County of Fresno, a political subdivision of the State of California ("County").

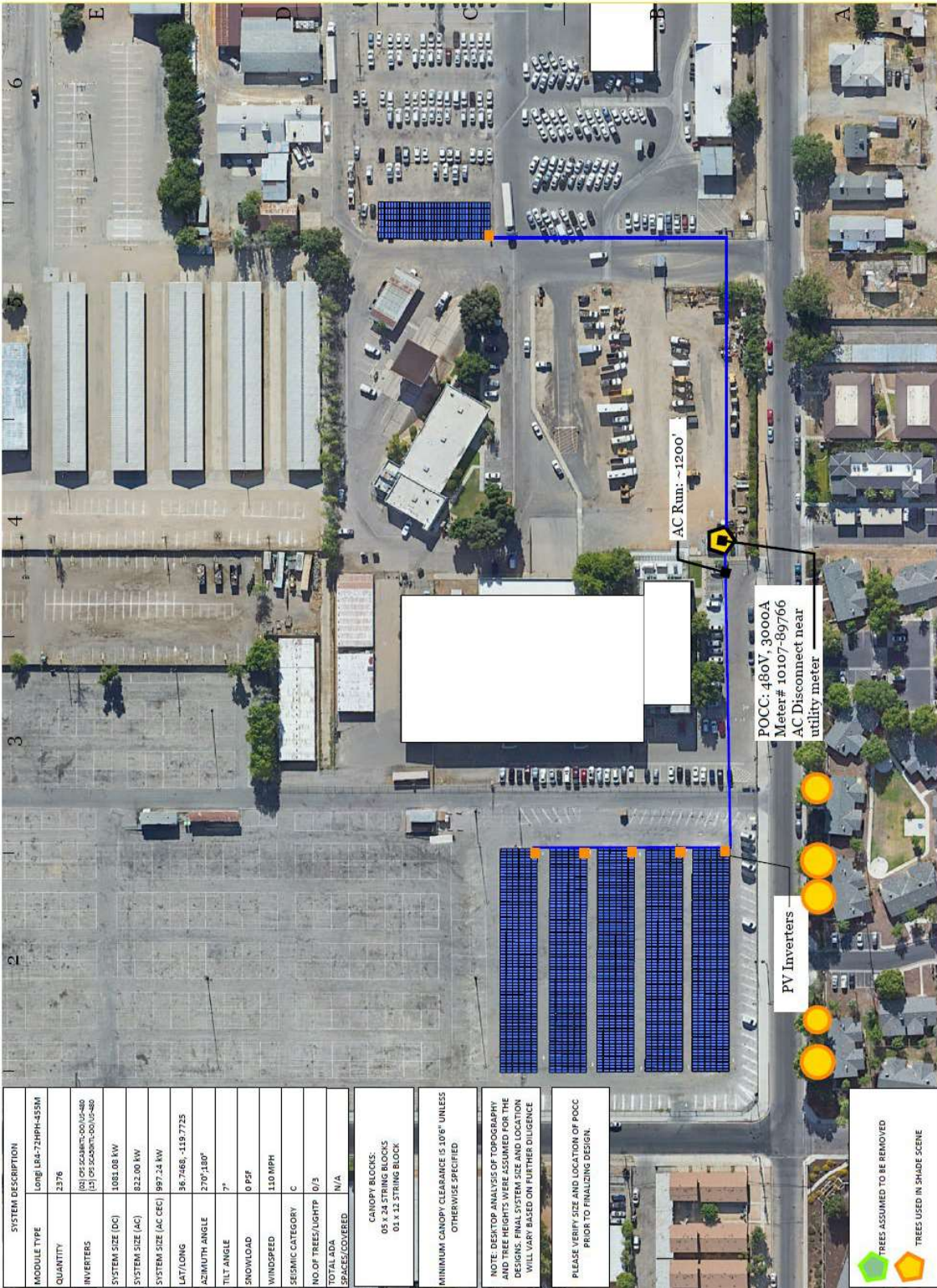
Provider:

FFP BTM Solar, LLC, a Delaware limited liability company ("Provider")

Evaluation Period:

Provider and County will evaluate and assess the feasibility of the Potential Projects for twelve (12) months from the date that this Letter of Interest is executed by them ("Evaluation Period"). Such assessment will be made under California's Net Energy Metering (NEM) 2.0 rules. In the event such California's Net Energy Metering (NEM) 2.0 rules are not available for any Potential Project, this Letter of Interest is withdrawn with respect to such Potential Project.

Hamilton Yard – 1,081kW of PV Canopies



SYSTEM DESCRIPTION	
MODULE TYPE	Long LEA-72HPH-453M
QUANTITY	2376
INVERTERS	(08) OF SC40MT-100 US-480 (12) OF SC40MT-100 US-480
SYSTEM SIZE (DC)	1081.08 kW
SYSTEM SIZE (AC)	822.00 kW
SYSTEM SIZE (AC CEC)	997.24 kW
LAT/LONG	36.7468, -119.7725
AZIMUTH ANGLE	270°/180°
TILT ANGLE	7°
SNOWLOAD	0 PSF
WINDSPEED	110 MPH
SEISMIC CATEGORY	C
NO. OF TREES/LIGHTP	0/3
TOTAL ADA SPACES/COVERED	N/A

CANOPY BLOCKS:
05 x 24 STRING BLOCKS
01 x 12 STRING BLOCK

MINIMUM CANOPY CLEARANCE IS 10'6" UNLESS OTHERWISE SPECIFIED

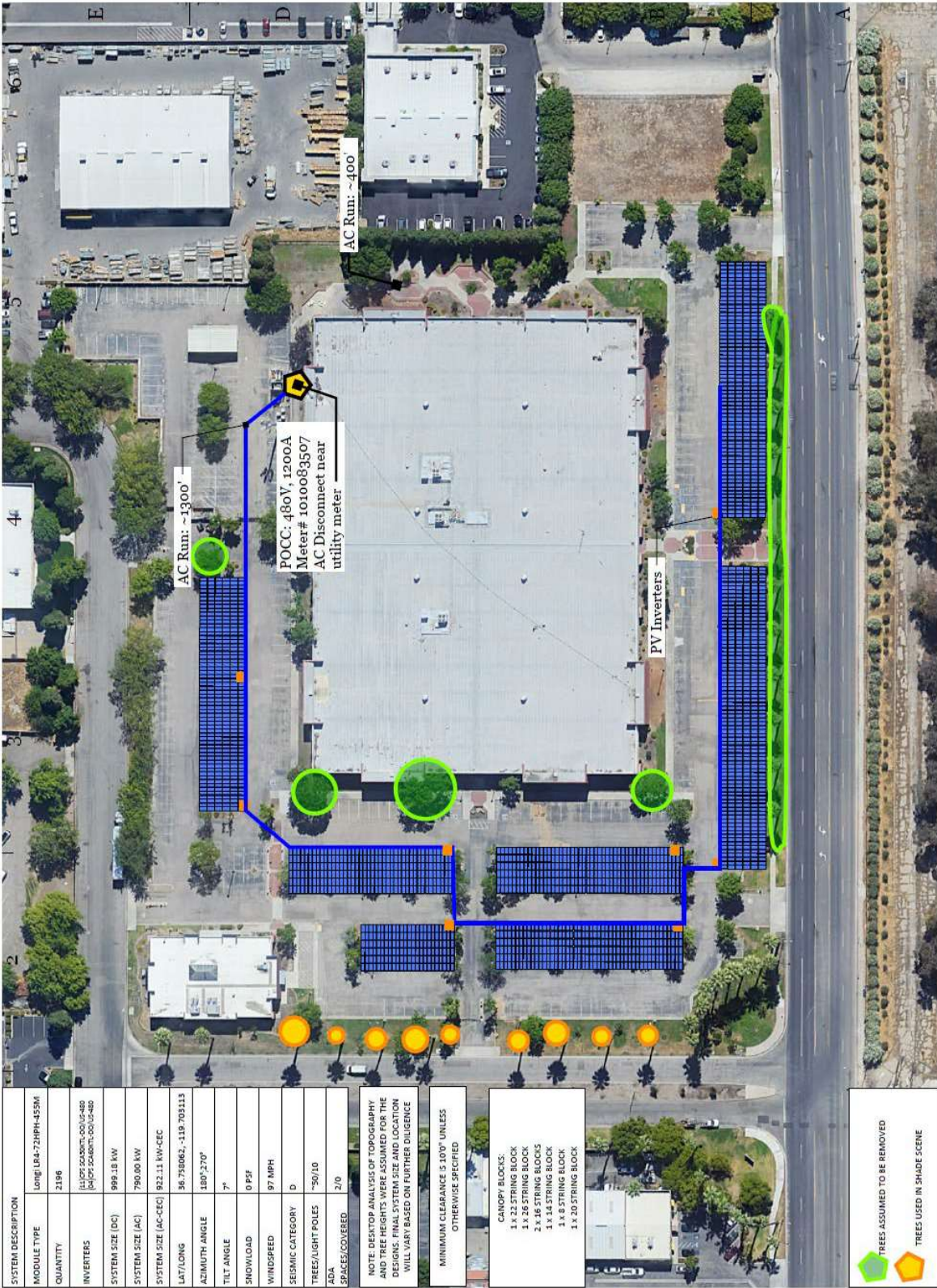
NOTE: DESKTOP ANALYSIS OF TOPOGRAPHY AND TREE HEIGHTS WERE ASSUMED FOR THE DESIGNS. FINAL SYSTEM SIZE AND LOCATION WILL VARY BASED ON FURTHER DILIGENCE

PLEASE VERIFY SIZE AND LOCATION OF POCC PRIOR TO FINALIZING DESIGN.

TREES ASSUMED TO BE REMOVED
TREES USED IN SHADE SCENE

 FOREFRONT POWER 2017 FOREFRONT POWER, LLC AND ITS AFFILIATES 100 MONTGOMERY STREET #1400 SAN FRANCISCO, CA 94104 (855) 204-5083 www.ForefrontPower.com	STAMP: NOT FOR CONSTRUCTION	Fresno County Hamilton Yards 4555 Hamilton Ave., Fresno, CA 93702	PROJECT NUMBER: CA-17-0312	SHEET TITLE: CONCEPTUAL LAYOUT	SHEET SIZE: TABLOID 11" X 17"	THIS DRAWING IS THE PROPERTY OF FOREFRONT POWER, LLC. THIS INFORMATION IS CONFIDENTIAL AND NOT BE LOANED, REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION FROM FOREFRONT POWER, LLC.	NO. REVISION DATE INIT.	DATE: Feb.21.2023 DRAWN BY: RP ENGINEER: RP APPROVED BY: PROJECT PHASE: PRELIMINARY DESIGN SCALE: 1" = 70' SHEET NO: CL-1
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Behavioral & Mental Health Center – 999kW of PV Canopies



SYSTEM DESCRIPTION	
MODULE TYPE	Longi LR4-72HPH-455M
QUANTITY	2196
INVERTERS	10/US SC400MT-000 US-480 10/US SC400MT-000 US-480
SYSTEM SIZE (DC)	999.18 kW
SYSTEM SIZE (AC)	790.00 kW
SYSTEM SIZE (AC-SEC)	822.11 kW-SEC
LAT/LONG	36.758082, -119.703113
AZIMUTH ANGLE	180°/270°
TILT ANGLE	7°
SNOWLOAD	0 PSF
WINDSPEED	97 MPH
SEISMIC CATEGORY	D
TREE/LIGHT POLES	~50/10
ADA SPACES/COVERED	2/0

NOTE: DESKTOP ANALYSIS OF TOPOGRAPHY AND TREE HEIGHTS WERE ASSUMED FOR THE DESIGNS. FINAL SYSTEM SIZE AND LOCATION WILL VARY BASED ON FURTHER DILIGENCE

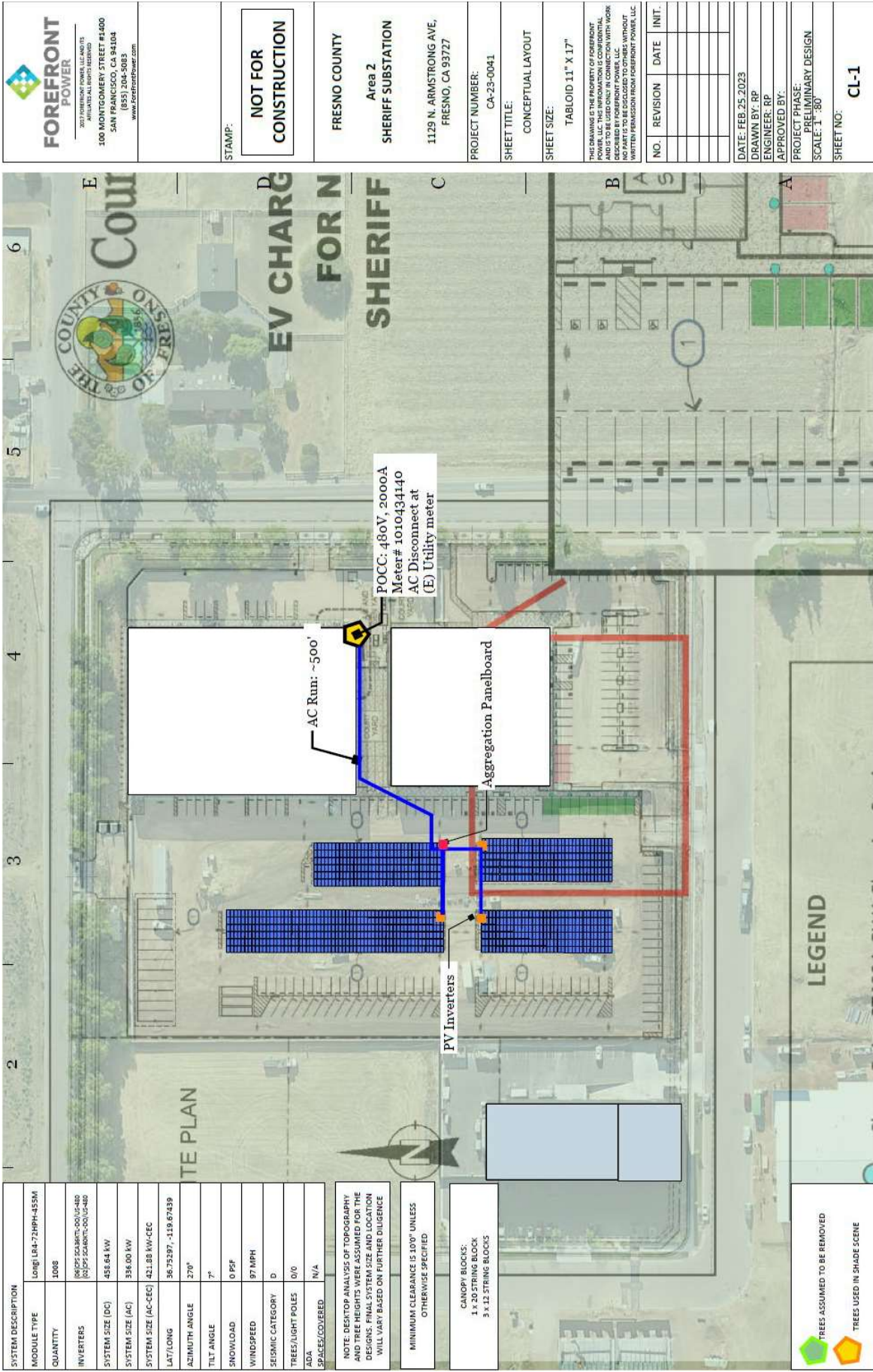
MINIMUM CLEARANCE IS 10'0" UNLESS OTHERWISE SPECIFIED

CANOPY BLOCKS:
1 x 23 STRING BLOCK
1 x 26 STRING BLOCK
2 x 16 STRING BLOCK
1 x 14 STRING BLOCK
1 x 9 STRING BLOCK
1 x 20 STRING BLOCK

TREES ASSUMED TO BE REMOVED
TREES USED IN SHADE SCENE

 FOREFRONT POWER 2017 FOREFRONT POWER, LLC AND ITS 100 MONTGOMERY STREET #1400 SAN FRANCISCO, CA 94104 (855) 204-5083 www.ForefrontPower.com	STAMP: NOT FOR CONSTRUCTION	FRESNO COUNTY BEHAVIORAL AND MENTAL HEALTH 5555 E OLIVE AVE, FRESNO, CA 93727	PROJECT NUMBER: CA-23-0042	SHEET TITLE: CONCEPTUAL LAYOUT	SHEET SIZE: TABLOID 11" X 17"	THIS DRAWING IS THE PROPERTY OF FOREFRONT POWER, LLC. THIS INFORMATION IS CONFIDENTIAL AND NOT BE LOANED, REPRODUCED, COPIED, OR DISCLOSED TO ANY OTHER PARTY WITHOUT WRITTEN PERMISSION FROM FOREFRONT POWER, LLC.	NO. REVISION DATE INIT.	DATE: FEB. 25, 2023 DRAWN BY: RP ENGINEER: RP APPROVED BY:	PROJECT PHASE: PRELIMINARY DESIGN SCALE: 1" = 30'	SHEET NO: CL-1
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Area 2 Sheriff Substation – 459kW of PV Canopies



FOREFRONT POWER
30717 FOREFRONT POWER, LLC 4010
100 MONTGOMERY STREET #1400
SAN FRANCISCO, CA 94104
(855) 204-5083
www.ForefrontPower.com

STAMP:
NOT FOR CONSTRUCTION

FRESNO COUNTY
Area 2
SHERIFF SUBSTATION
1129 N. ARMSTRONG AVE,
FRESNO, CA 93727

PROJECT NUMBER:
CA-23-0041

SHEET TITLE:
CONCEPTUAL LAYOUT

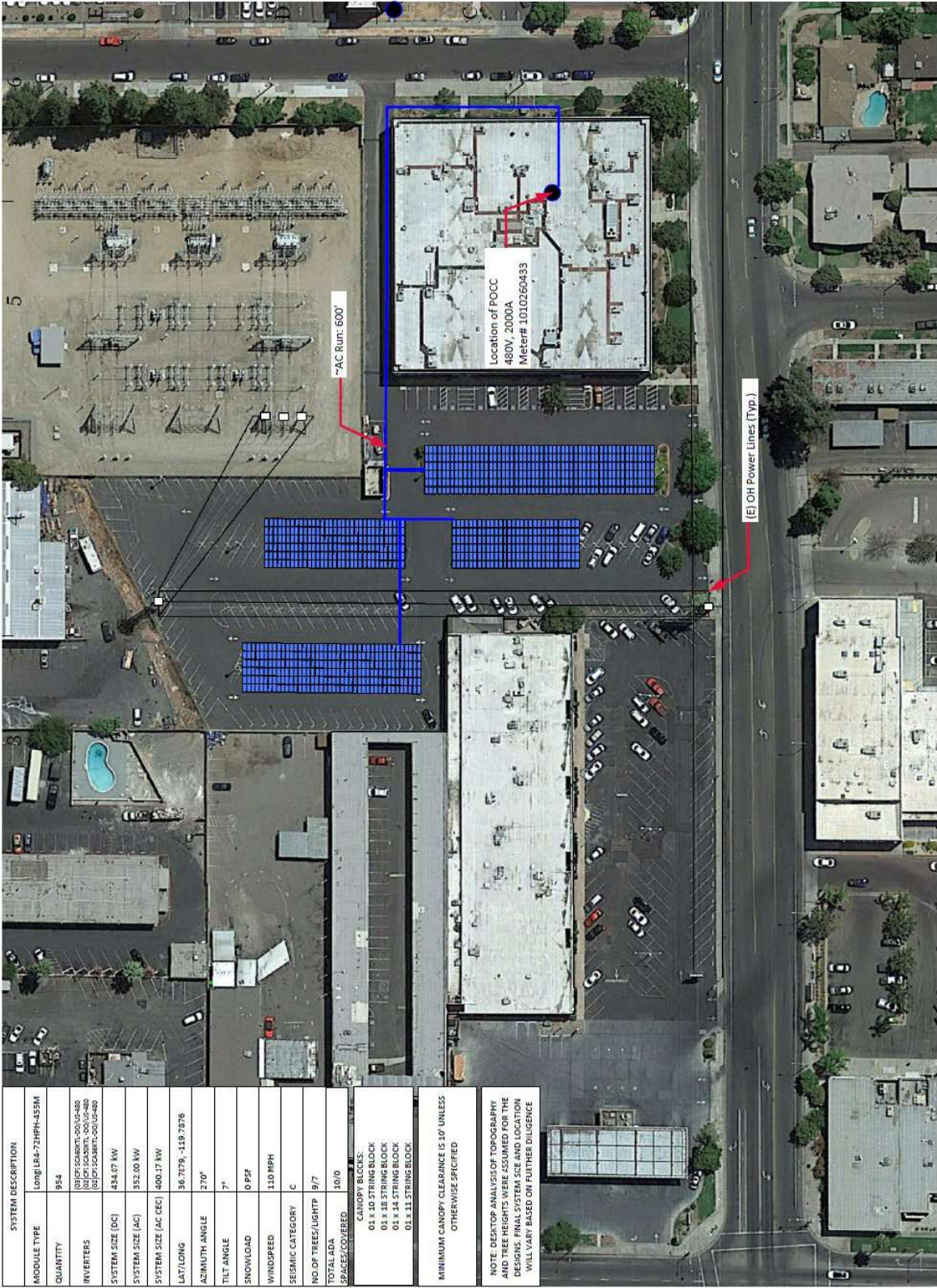
SHEET SIZE:
TABLOID 11" X 17"

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NO.	REVISION	DATE	INIT.

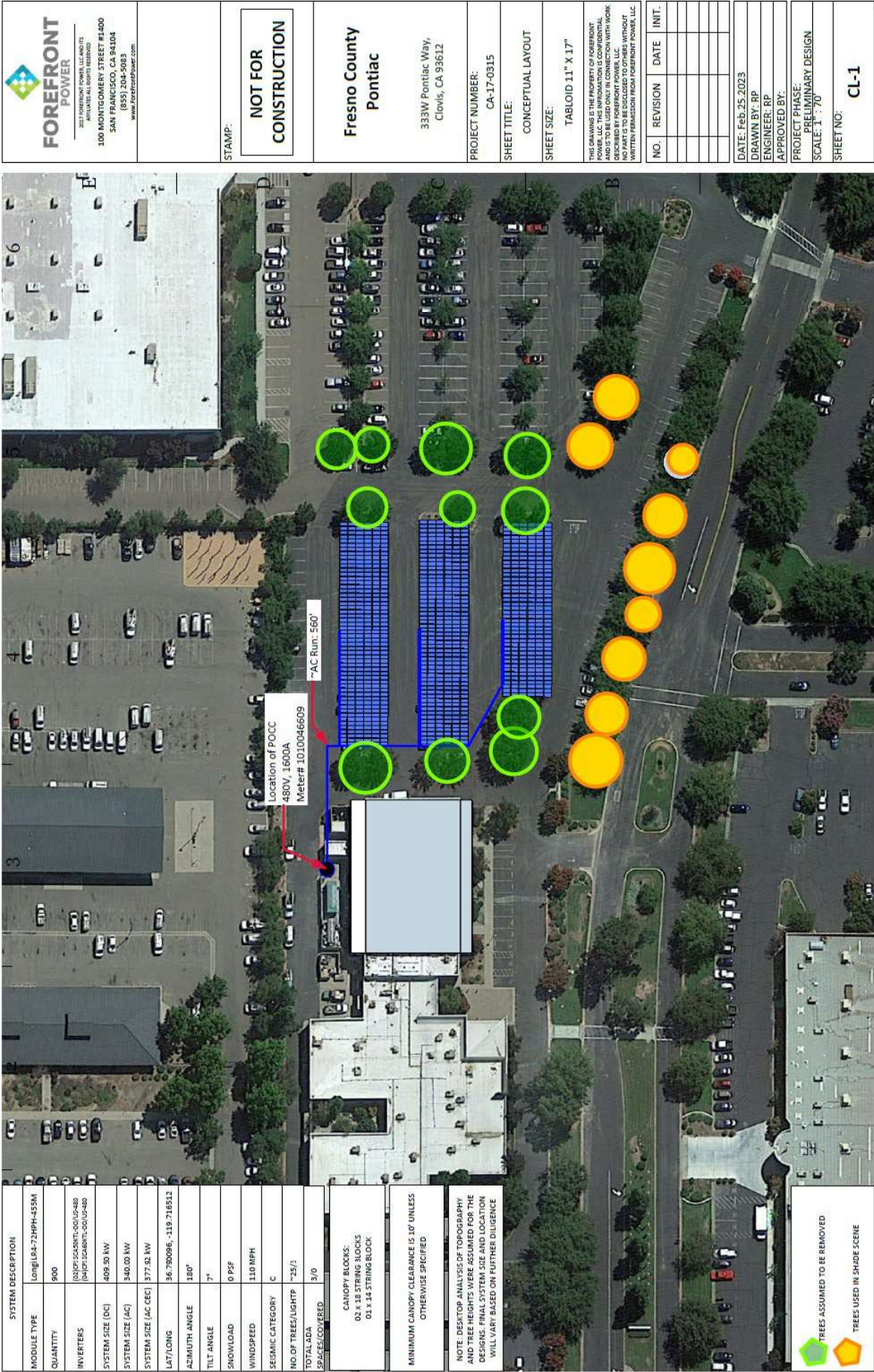
DATE: FEB 25 2023
DRAWN BY: RP
ENGINEER: RP
APPROVED BY:
PROJECT PHASE:
PRELIMINARY DESIGN
SCALE: 1" = 80'
SHEET NO: **CL-1**

Health & Wellness Center – 434kW of PV Canopies



FOREFRONT POWER 2021 FOREFRONT POWER, LLC AND ITS 100 MONTGOMERY STREET #1400 SAN FRANCISCO, CA 94104 (855) 204-5083 www.ForefrontPower.com			
STAMP:			
NOT FOR CONSTRUCTION			
Fresno County Health and Wellness Center 1925 E Dakota Ave, Fresno, CA 93726			
PROJECT NUMBER: CA-17-0314			
SHEET TITLE: CONCEPTUAL LAYOUT			
SHEET SIZE: TABLOID 11" X 17"			
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NO.	REVISION	DATE	INIT.
DATE: FEB 25, 2023			
DRAWN BY: RP			
ENGINEER: RP			
APPROVED BY:			
PROJECT PHASE: PRELIMINARY DESIGN			
SCALE: 1" = 70'			
SHEET NO: CL-1			

Pontiac – 410kW of PV Canopies



Animal Control – 385kW of PV Canopies



SYSTEM DESCRIPTION	
MODULE TYPE	Longi LRA-72HPH-455M
QUANTITY	848
INVERTERS	(2) JCS SC480MT-100 US-480 (2) JCS SC480MT-100 US-480 (2) JCS SC480MT-100 US-480
SYSTEM SIZE (DC)	384.93 kW
SYSTEM SIZE (AC)	292.00 kW
SYSTEM SIZE (AC-CEC)	354.76 kW-CEC
LAT/LONG	36.740819, -119.827256
AZIMUTH ANGLE	180°/270°
TILT ANGLE	7°
SNOWLOAD	0 PSF
WINDSPEED	97 MPH
SEISMIC CATEGORY	D
TREES/LIGHT POLES	0/0
ADA SPACES/COVERED	2/0

NOTE: DESKTOP ANALYSIS OF TOPOGRAPHY AND TREE HEIGHTS WERE ASSUMED FOR THE DESIGNS. FINAL SYSTEM SIZE AND LOCATION WILL VARY BASED ON FURTHER DILIGENCE

MINIMUM CLEARANCE IS 10' UNLESS OTHERWISE SPECIFIED

CANOPY BLOCKS:
1 x 16 STRING BLOCK
1 x 19 STRING BLOCK
1 x 12 STRING BLOCK

 TREES ASSUMED TO BE REMOVED

 TREES USED IN SHADE SCENE



**FOREFRONT
POWER**
2037 FOREFRONT POWER, LLC AND ITS
100 MONTGOMERY STREET #1400
SAN FRANCISCO, CA 94104
(855) 204-5983
www.ForefrontPower.com

STAMP:

NOT FOR
CONSTRUCTION

FRESNO COUNTY
ANIMAL CONTROL
1510 W DON RONQUILLO DR
FRESNO, CA 93706
PROJECT NUMBER:
CA-23-0040
SHEET TITLE:
CONCEPTUAL LAYOUT
SHEET SIZE:
TABLOID 11" X 17"

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NO.	REVISION	DATE	INIT.

DATE: Apr. 24, 2023
DRAWN BY: RP
ENGINEER: RP
APPROVED BY:
PROJECT PHASE:
PRELIMINARY DESIGN
SCALE: 1" = 380'
SHEET NO.:
CL-1

Canopy System (2)
180 x Long LR4-72HPH-455M
1 x CPS SC460KTL-DO/US-480
81.00 KW DC
60.00 KW AC

AC Run: ~100'

POCC-480V, 1000A
Meter# 1001025497

SYSTEM DESCRIPTION	
MODULE TYPE	Long LR4-72HPH-455M
QUANTITY	576
INVERTERS	(2) CPS SC460KTL-DO/US-480 (2) CPS SC460KTL-DO/US-480
SYSTEM SIZE (DC)	262.08 KW
SYSTEM SIZE (AC)	192.00 KW
SYSTEM SIZE (AC SEC)	241.41 KW
LAT/LONG	36.737929, -119.753422
AZIMUTH ANGLE	144°/221°/234°
TILT ANGLE	7°
SNOWLOAD	0 PSF
WINDSPEED	110 MPH
SEISMIC CATEGORY	D
NO. OF TREES/ LIGHTPOLES	~6/2
TOTAL ADA SPACES/COVERED	8/0

CANOPY BLOCKS:
01 x 12 STRING BLOCK
02 x 10 STRING BLOCK (4 MOD WIDE)

MINIMUM CANOPY CLEARANCE IS 10' UNLESS OTHERWISE SPECIFIED

NOTE: DESKTOP ANALYSIS OF TOPOGRAPHY AND TREE HEIGHTS WERE ASSUMED FOR THE DESIGN. FINAL SYSTEM SIZE AND LOCATION WILL VARY BASED ON FURTHER DILIGENCE

SYSTEM DESCRIPTION	
MODULE TYPE	Longi 184-72HPH-455M
QUANTITY	576
INVERTERS	(2)PVS SC40MT1-00 US-480 (2)PVS SC40MT1-00 US-480
SYSTEM SIZE [DC]	262.08 kW
SYSTEM SIZE [AC]	193.00 kW
SYSTEM SIZE [AC (EC)]	341.41 kW
LAT/LONG	36.137925° -119.759422
AZIMUTH ANGLE	144°/211°/234°
TILT ANGLE	7°
SNOWLOAD	0 PSF
WINDSPEED	110 MPH
SEISMIC CATEGORY	D
NO. OF TREES/ LIGHTPOLES	~6/2
TOTAL ADA SPACES COVERED	6/0

CANOPY BLOCKS:
01 x 12 STRING BLOCK
02 x 10 STRING BLOCK (4 MOD WIDE)

MINIMUM CANOPY CLEARANCE IS 10' UNLESS OTHERWISE SPECIFIED

NOTE: DESKTOP ANALYSIS OF TOPOGRAPHY AND TREE HEIGHTS WERE ASSUMED FOR THE DESIGNS. FINAL SYSTEM SIZE AND LOCATION WILL VARY BASED ON FURTHER DILIGENCE

NO.	REVISION	DATE	INIT.

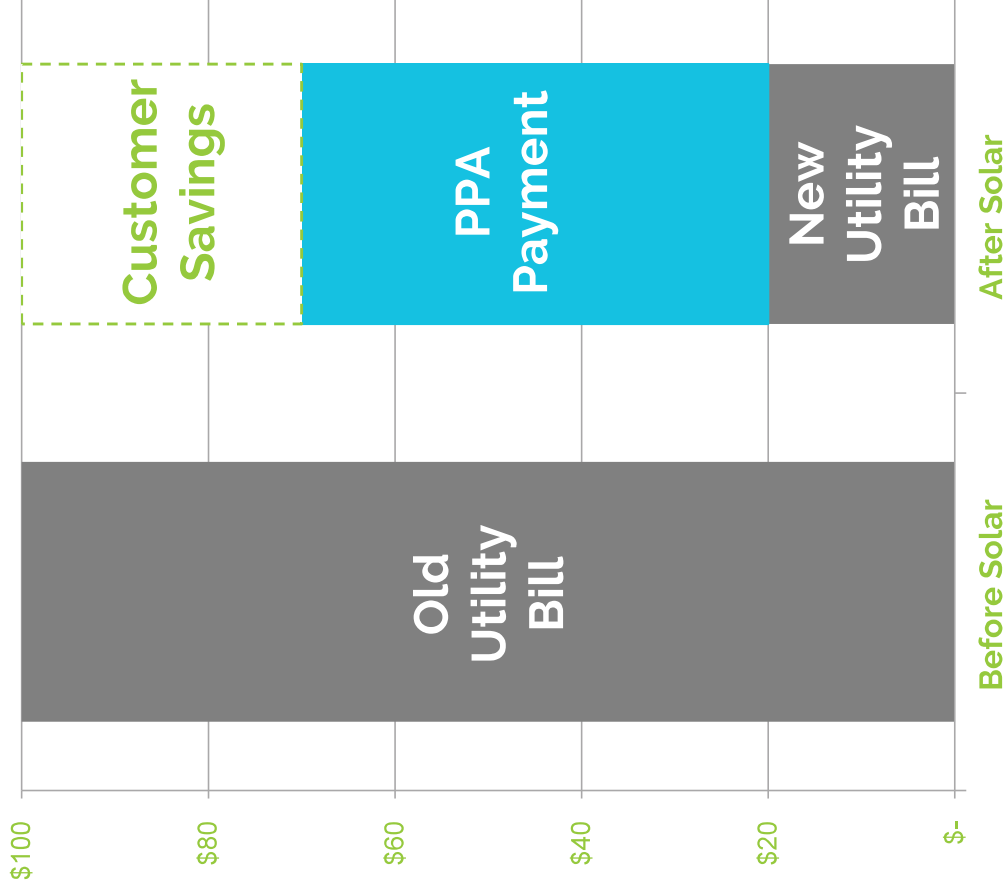
DATE: May.05.2023
DRAWN BY: RP
ENGINEER: RP
APPROVED BY:
PROJECT PHASE: PRELIMINARY DESIGN
SCALE: 1" = 50'
SHEET NO:

CL-1



Power Purchase Agreement

- No upfront cost
- 0% Escalator for 20 Years
- Electricity Rate Stability
- Monetize Federal Tax Credit
- Aligned Partnership
- Operations & Maintenance Included
- Guaranteed Performance
- Future Ownership Flexibility

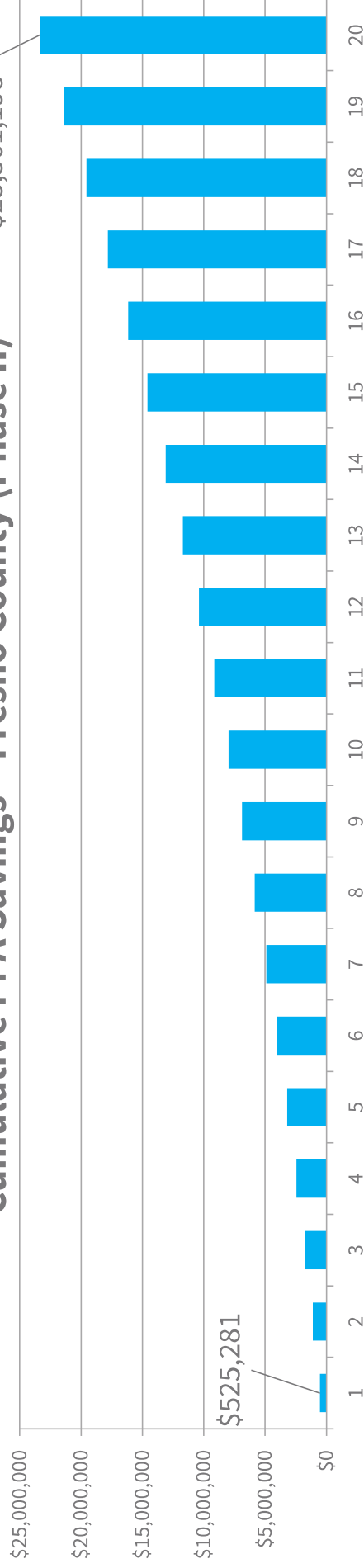




Fresno County Solar – Pricing & Savings

Project	PPA Rate	PPA Escalator	Solar System Size (kW)	Y1 Production (kWh)	% Energy Offset	Pre-Solar Utility Bill	Year 1 Savings	20 Year Savings
Hamilton Yard	\$0.1435	0%	1,081	1,758,197	95%	\$620,867	\$238,421	\$8,671,263
Behavioral & Mental Health Services	\$0.1619	0%	999	1,592,705	100%	\$534,441	\$182,527	\$6,630,233
Area 2 Sheriff Substation	\$0.1710	0%	459	709,917	94%	\$241,909	\$16,193	\$1,601,593
Health and Wellness Services	\$0.1966	0%	434	623,607	83%	\$243,853	\$32,300	\$1,751,297
Pontiac Offices	\$0.1743	0%	410	680,982	48%	\$376,597	\$7,277	\$1,702,737
Animal Control	\$0.1780	0%	385	611,315	67%	\$296,526	\$44,164	\$1,985,321
Woodward Park Library	\$0.2153	0%	262	409,177	86%	\$144,494	\$4,399	\$1,018,754
Total	\$0.1675	0%	4,029	6,385,900	82%	\$2,458,686	\$525,281	\$23,361,198

Cumulative PPA Savings – Fresno County (Phase II)



Assumes 2.7% Annual Utility Energy Escalator, 5% Annual Demand Charge Escalator

*Behavioral & Mental Health load profile scaled on historical data of Health and Wellness Services

**Sheriff Station load profile scaled based on the old Sheriff Substation (5717 E. Shields)