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Collections/Safety/Maintenance, Greg Pease
Engineering, Michael P. Cortez
Administrative Services, Dale McDonald

DISTRICT BOARD
Megan Clark
Craig K. Murray
Barry Nitzberg
Gary E. Robards
Crystal J. Yezman

ADDENDUM NO. 1

Date: October 10, 2024
Project: **Battery Energy Storage System Rebid**
Job No.: 24600-14

To: All Planholders and Prospective Bidders

The following changes and/or clarifications are hereby made to the Request for Proposals and shall become a part of the RFP dated August 30, 2024.

1. Proposal Deadline – The proposal deadline has been extended to **October 22, 2024, 11:00 am**. The milestones shown in the project schedule will be adjusted accordingly.
2. Contractor License Requirements – The RFP requires a Class A General Engineering California contractor’s license. By this addendum, a contractor with a Class B (General Building Contractor) with a C-10 (Electrical Contractor) California State License is also allowed to participate in this RFP.

Questions Received from Proposers:

The following questions were submitted before the date of this addendum. LGVSD responses to the questions are in bold.

- Q1. We want to know if additional fire alarm system drawings/specifications will be coming out before the bid due date.
Response: No. Fire alarm system specifications will be specified by the BESS system manufacturer.
- Q2. Where are you/they sourcing the BESS?
Response: The Proposer will design, outsource, and install the BESS system per the requirements outlined in the Request for Proposals.
- Q3. Are we allowed to use Siemens’ relay vs SEL 735, 700G relay?
Response: A Siemens relay is acceptable if it meets or exceeds the specifications of the required SEL relay. In addition, the relay must be approved by the BESS manufacturer.
- Q4. We also need to discuss T&Cs and commissioning.
Response: The General Conditions (Terms & Conditions) of the project, such as labor compliance, etc., are outlined in the RFP. In addition, per Section 3.1H, the Contractor shall commission the system per manufacturer’s requirements and provide documentation of proper operation. See Section 3.9 for detailed system start-up requirements.
- Q5. Please define what is meant by seamless transition. Does the design require an automatic transition only? Or UPS speed? What is an acceptable transition speed in milliseconds?
Response: The BESS shall be able to seamlessly transition from utility power to BESS power without interruption of site operations under unplanned utility power outages. It is understood that the BESS cannot account for all utility outage conditions. UPS is not required.

- Q6. Can the existing ATS be used for the above?
Response: The existing ATS is less than five years old and properly sized for total plant loads. However, it is the Proposer's Engineer's responsibility to evaluate the existing ATS for compatibility with the BESS system during design.
- Q7. Does the emergency backup power generator need to be integrated into the microgrid?
Response: Yes.
- Q8. Will the contractor need to apply for SGIP funds or is it already reserved?
Response: SGIP funds are reserved for the project. The Proposer and their vendors will be responsible for ensuring that SGIP timelines are met and that all SGIP reporting requirements are completed throughout the SGIP period.
- Q9. Please supply a full submittal and install manual on the CHP plant.
Response: See Dropbox link below for the O&M Manual and As-Built Drawings for the combined heat and power (CHP) cogeneration system at the plant designated as Biogas Energy Recovery System.
<https://www.dropbox.com/scl/fo/37ax841ugp78m7y2tk7tq/ALG4l6HB2mB6667NU9dJWGo?rkey=azsgry7z56unduaia7xdaz6w8b&st=v2dp1qew&dl=0>
- Q10. Please provide as-builts and equipment specifications for the (E) solar mentioned.
Response: These are not available at this time.
- Q11. Please indicate the (E) solar and (E) CHP on the SLD provided of the facility and on the facility maps/satellite images shown.
Response: Refer to Attachments A and B.
- Q12. Will you consider extending the bid due date to two weeks after the RFI responses are due? One week is not enough time to drastically change designs and ensure all vendor/lower-tier contractor quotes are updated on a project with this type of scope.
Response: The Proposal Deadline is extended to October 22, 2024.
- Q13. Do we have to re-do a bid bond if one was previously provided?
Response: Proposers shall submit a new bid bond specific to the Battery Energy Storage System Rebid project by using the form in the RFP.
- Q14. Can a Class B (General Building Contractor) with a C-10 (Electrical Contractor) & C-46 (Solar) California State License participate in this RFP? Generally, Class B, C10, or C46 are the required licenses for Solar, BESS, and Microgrid projects.
Response: See Item 2 Contractor License Requirements above.
- Q15. Can the proposal & all required certificates be submitted as Single pdf copy through email only?
Response: Yes. However, the selected Proposer shall submit hard copies to the District upon request.
- Q16. For the BESS Specification (Section 3.5), the market presence requirement is more than 100 MW of battery power installed in the US market. Does this requirement refer to 100 MW of BESS supplied or installed?
Response: Installed.

Q17. Aside from the District, are there any other agencies that the project needs approval?

Response: No.

Q18. Does LGVSD has current Site Utilities, Boundary and Topo survey of the Wastewater Treatment Plant site? If not, is it a requirement for this project?

Response: LGVSD has information on existing site utilities, boundary descriptions, and topography of the site. Surveying is not required for this project.

Q19. How is the 1 MW PV system connected to the existing electrical distribution system? Please provide single line diagram.

Response: Refer to Attachments A and B below.

Q20. Attachment 2 Facility Single Line Diagram references electrical sheets such as E-02, E-03, etc. Please provide these electrical sheets.

Response: Refer to Attachments A and B below.

Q21. The project description requires 500kW BESS and references Tesla for the BESS equipment. Tesla BESS is typically rated at 2MW per Megapack. Is the intent to have Tesla equipment handle the 500kW storage with future scalable needs of up to 2MW?

Response: No.

Q22. Is any existing geotechnical site investigation and boring records available for the site or within the vicinity of the site? Will this be provided to the Contractor?

Response: Yes. The District will make geotechnical reports available upon request by the contractor.

Q23. Is environmental processing and permit required for the project?

Response: The District will be responsible for environmental permitting if required for the project.

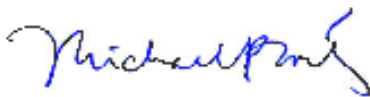
Q24. How many days does LGVSD takes to review each design submittal?

Response: Typically 2 weeks or less.

This addendum consists of ten (10) pages including this page and attachments. Acknowledge receipt of this addendum by signing in the space provided below. Submit an original copy of this addendum cover page along with the proposal.

Las Gallinas Valley Sanitary District:

Proposer: _____



Michael P. Cortez, PE, District Engineer

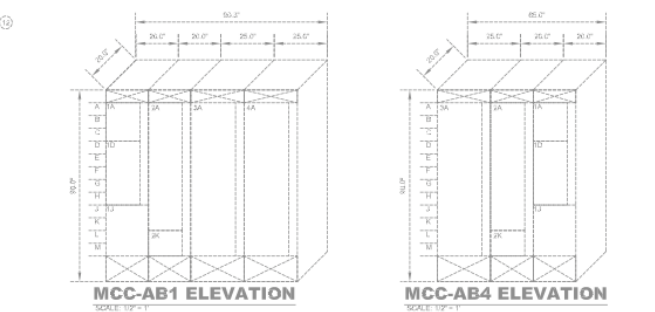
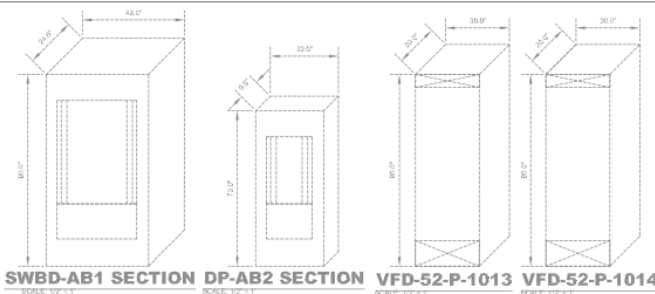
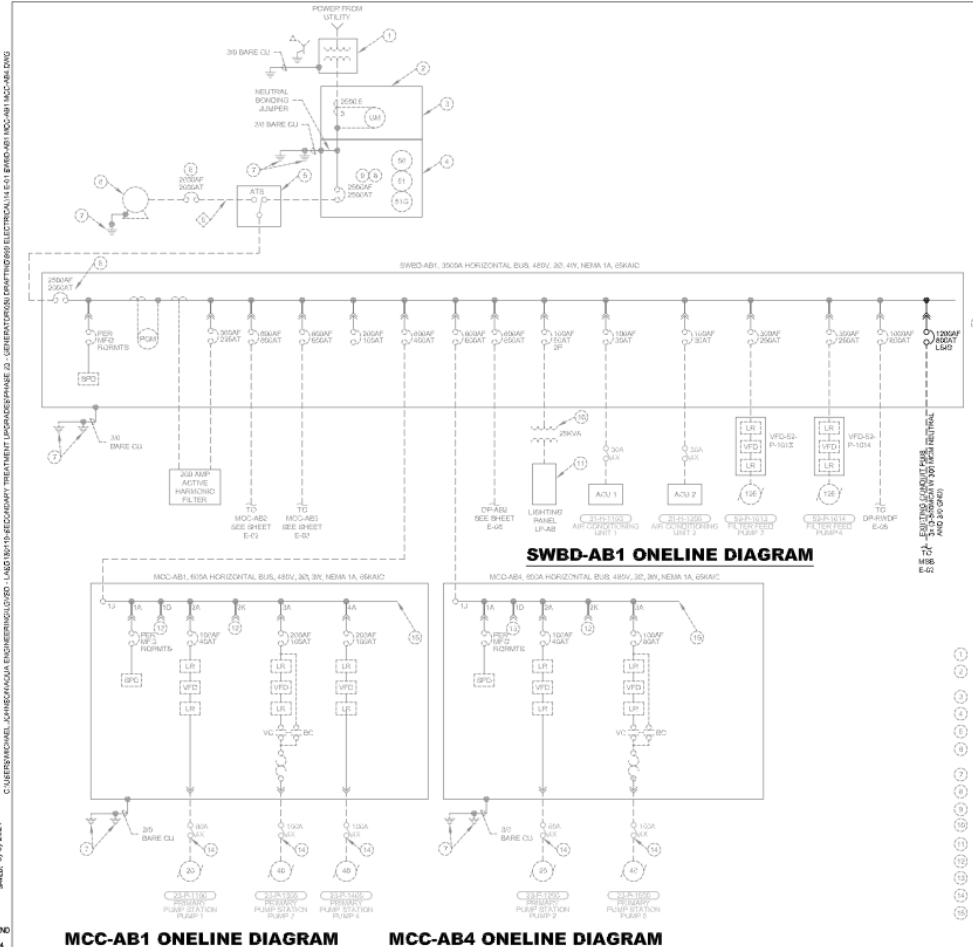
(Authorized Signature)

(Date)

Attachment A

Facility Single Line Diagram

Please note that the work shown on the single line diagrams is being implemented in a separate project.



- NOTES:**
- PAD MOUNTED UTILITY TRANSFORMER.
 - BEER SERVICE ENTRANCE SECTION: 27048KV, 3X, 4W, NEMA 3R, 65KVA, 200A.
 - UTILITY METER, CT, AND PULL SECTION.
 - SERVICE RATED MAIN BREAKER.
 - 250VA AUTOMATIC TRANSFER SWITCH, NEMA 3R, 4 WIRE WITH ISOLATED NEUTRAL BUSS.
 - DIESEL-ENGINE STANDBY GENERATOR: 150KVA, 480V, 3Ø, 5.5 PF, RESIDUAL BONDING JUMPER.
 - GROUNDING GRID.
 - 100% RATED BREAKER.
 - MAIN BREAKER.
 - 250VA XFMR-AB1, 480V PRIMARY, 120/240V, 1Ø SECONDARY, NEMA 1.
 - LIGHTING PANEL, LP-AB, 120V, 1Ø, 3W.
 - 1200MFT TO ALLOW FOR FUTURE UPGRADES.
 - ETHERNET SECTION.
 - BREAK BEFORE BREAK AUXILIARY CONTACT.
 - PROVIDE BUSS SPLICE FOR FUTURE CONNECTION.

PLOT: EXTEND
 SCALE: 1:1
 INDEX: 22,34
 COLOR: No.
 RED: 0.10MM
 YELLOW: 0.20MM
 GREEN: 0.25MM
 CYAN: 0.30MM
 BLUE: 0.35MM
 MAGENTA: 0.40MM
 WHITE: 0.15MM
 9: 0.30MM
 10: 0.20MM
 150: 0.30MM
 210: 0.40MM
 LVS01 FILE: FD144793

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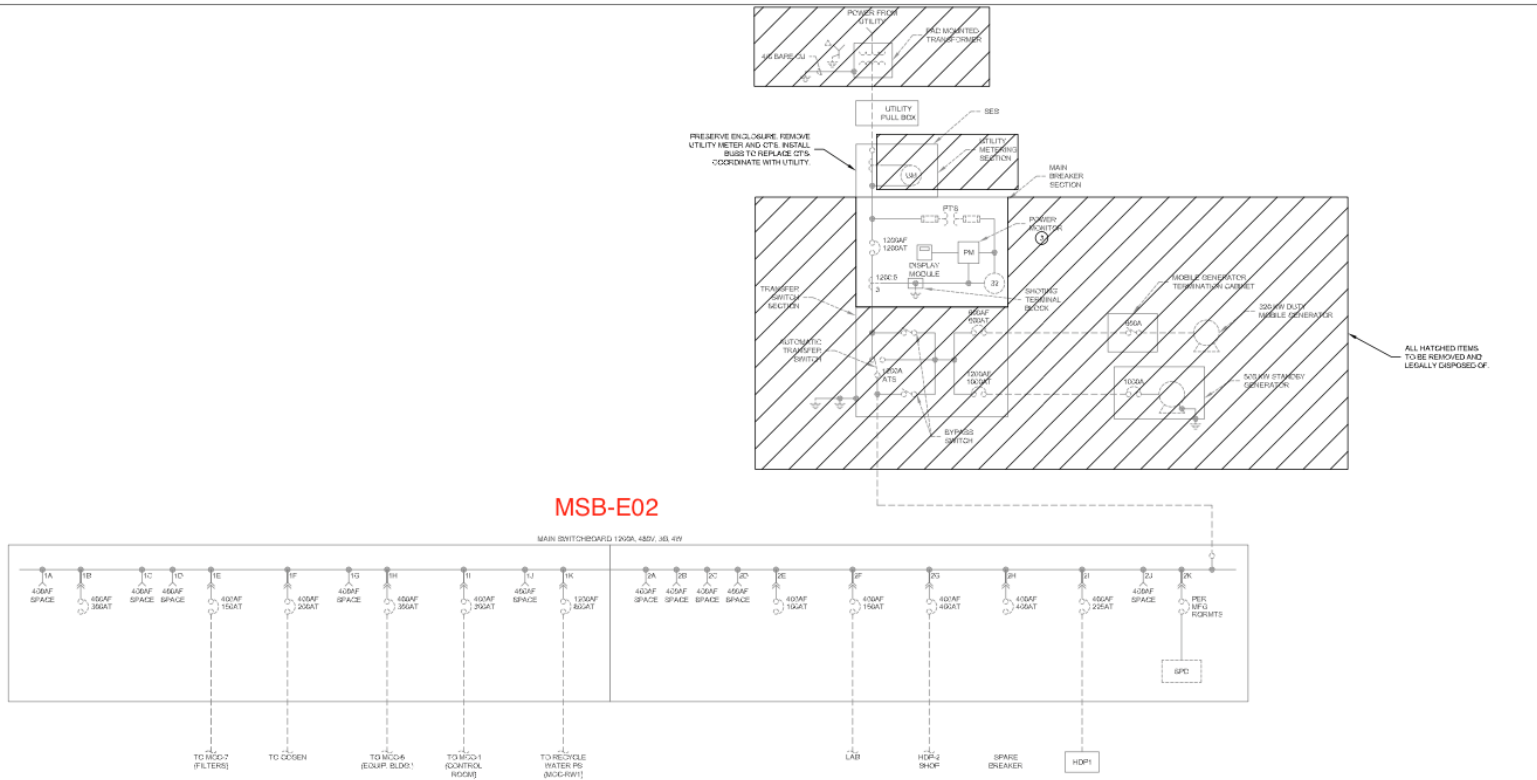
AQUA
 ENGINEERING
 533 W 2600 S, SUITE 275, BOUNTIFUL, UT 84010
 PHONE: (801) 299-1527 FAX: (801) 299-0153

JOB NO.		
LAS GALLINAS VALLEY SANITARY DISTRICT MARIN COUNTY, CALIFORNIA		
TREATMENT PLANT STANDBY GENERATOR UPGRADE		
ELECTRICAL - POWER DISTRIBUTION SWBD-AB1 MCC-AB1 MCC-AB4		
DESIGNER	DATE	SCALE
APPROVED	DATE	REV. SHOWN
PROJECT MANAGER	DATE	REV.
CURTIS FAXTON	Michael P. Cortez	05/29/24
REV # 001		
NO. DATE	DESCRIPTION	BY / APPR
1	5	OP 8
REVISIONS		
PROJECT NO.	ISSUE NO.	REVISION NO.
	E-01	B

C:\DEP\MCHWEL\JOHNWAGNER\ENGINEERING\LOD-1\AS0\10118\REGULATORY TREATMENT UPGRADE\PHASE 21 - DEMONSTRATION DRAWINGS\ELECTRICITY\DE-02 MSB ONLINE DIAGRAM.DWG

PLOT: 3/11/2024
SCALE: 3/11/2024

PLOT: EXTEND
 SCALE: 1/1
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 GREEN 0.20MM
 CYAN 0.40MM
 BLUE 0.20MM
 MAGENTA 0.20MM
 WHITE 0.20MM
 GRAY 0.15MM
 9 0.15MM
 10 0.20MM
 120 0.20MM
 210 0.60MM



EXISTING MAIN SWITCHBOARD MSB ONLINE DIAGRAM

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JOB NO.

LAS GALLINAS VALLEY SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA

TREATMENT PLANT STANDBY GENERATOR UPGRADE

**ELECTRICAL - DEMOLITION
MSB ONLINE DIAGRAM**

DESIGN	DATE	SCALE
LAB	DCL	NOVE
APPROVED	DATE	
MPJ	LAB	02/23/24
DESIGN SURVEY	DESIGN SURVEY	
CURTIS PRATON	Michael P Cortez	
REV #	DATE	DESCRIPTION
4	02/08	DE-02
		B

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

C:\LISENBERG\PROJECTS\BATTERY ENERGY STORAGE SYSTEM\STANDBY GENERATOR\PHASE 2 - ELECTRICAL\POWER DISTRIBUTION PANEL CALCULATION.DWG

5/17/2024
 8:07:45 AM
 7/1/2024

PLOT: EXTEND
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 GREEN 0.15MM
 CYAN 0.40MM
 BLUE 0.50MM
 MAGENTA 0.25MM
 WHITE 0.25MM
 GRAY 0.15MM
 N 0.50MM
 D 0.50MM
 100 0.25MM
 210 0.60MM

DWGID: 1
 FILED:
 FD144793

CIRCUIT DESCRIPTION	KVA	HP	FLA
MOTOR LOADS			
MFD-102-1013	129.0	188.0	
MFD-102-1014	133.5		
NON-MOTOR LOADS			
MCC-AB2		344.1	
MCC-AB2		242.8	
MCC-AB1		104.0	
MCC-AB1		42.0	
CP-AB2		16.1	
MFM-AB	25.5	35.1	
11-H-1200 10 TON AC UNIT	28.8	21.0	
11-H-1200 10 TON AC UNIT	28.8	21.0	
SW-AB2P		381.6	
MSB		485.0	
SUBTOTAL		1867.8	
+ 25% OF LARGEST MOTOR		39.0	
TOTAL AMP @ 480V 3PHASE		2006.8	
SERVICE SIZE (AMPS)		2000	

SWBD-AB1 CALCULATIONS

CIRCUIT DESCRIPTION	KVA	HP	FLA
MOTOR LOADS			
11-G-1100 SC 1 SUPPLYER BOX INLET GATE		0.5	1.1
11-G-1200 SC 2 SUPPLYER BOX INLET GATE		0.5	1.1
11-G-1400 AERATION BASIN EFFLUENT BOX VALVE		0.5	1.1
11-G-1410 HAS STRUCTURE EFFLUENT VALVE		0.5	1.1
11-G-1100 CORRECT CHAMBER INLET GATE		0.5	1.1
11-G-1500 ANODE EFFLUENT CHANNEL INLET GATE		0.5	1.1
11-G-1500 AERATION BASIN INFLUENT CHANNEL GATE		0.5	1.1
11-G-1110 FORMAL THERMOCONE INLET GATE		0.5	1.1
11-G-2110 POND SUPPLY ISOLATION GATE		0.5	1.1
11-G-2120 POND FORMAL ISOLATION GATE		0.5	1.1
11-G-1110 UP TRAIN 1 INLET GATE		0.5	1.1
11-G-1120 UP TRAIN 1 INLET GATE		0.5	1.1
11-G-1130 UP TRAIN 1 OUTLET GATE		0.5	1.1
11-G-1140 UP TRAIN 1 GATE		0.5	1.1
11-G-1150 W/AY SUPPLYER BOX OVERFLOW GATE		0.5	1.1
NON-MOTOR LOADS			
	0.0		
	0.0		
	0.0		
SUBTOTAL		16.5	
+ 25% OF LARGEST MOTOR		0.3	
TOTAL AMP @ 480V 3PHASE		16.8	
SERVICE SIZE (AMPS)		160.0	

DP-AB2 CALCULATIONS

CIRCUIT DESCRIPTION	KVA	HP	FLA
MOTOR LOADS			
MARCO DISTRIBUTION PUMP 1 (STEP 100)	190.0	180.0	
MARCO DISTRIBUTION PUMP 2 (STEP 200)	190.0		
MARCO DISTRIBUTION PUMP 3 (STEP 200)	190.0	180.0	
MARCO DISTRIBUTION PUMP 4 (STEP 200)	190.0		
MARCO DRAIN VALVE (STEP 300)		0.0	1.1
NON-MOTOR LOADS			
LF-BASEP	18.0		28.0
SUBTOTAL			367.0
+ 25% OF LARGEST MOTOR			45.0
TOTAL AMP @ 480V 3PHASE			408.0
SERVICE SIZE (AMPS)			400.0

DP-RWDP CALCULATIONS

CIRCUIT DESCRIPTION	KVA	HP	FLA
MOTOR LOADS			
21-FCV 1270		0.5	1.1
21-FCV 1270		0.5	1.1
21-FCV 1410		0.5	1.1
21-FCV 1410		0.5	1.1
21-FCV 2201		0.5	1.1
21-FCV 2201		0.5	1.1
21-FCV 2202		0.5	1.1
21-FCV 2202		0.5	1.1
21-FCV 2203		0.5	1.1
21-FCV 2203		0.5	1.1
21-FCV 2202		0.5	1.1
NON-MOTOR LOADS			
SUBTOTAL		6.0	
+ 25% OF LARGEST MOTOR		0.3	
TOTAL AMP @ 480V 3PHASE		6.3	
SERVICE SIZE (AMPS)		35.0	

DP-MCC3 CALCULATIONS

NOTES:
 ASTERISKS ** DENOTE STANDBY EQUIPMENT

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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

JOB NO.

LAS GALLINAS VALLEY SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA

TREATMENT PLANT STANDBY GENERATOR UPGRADE

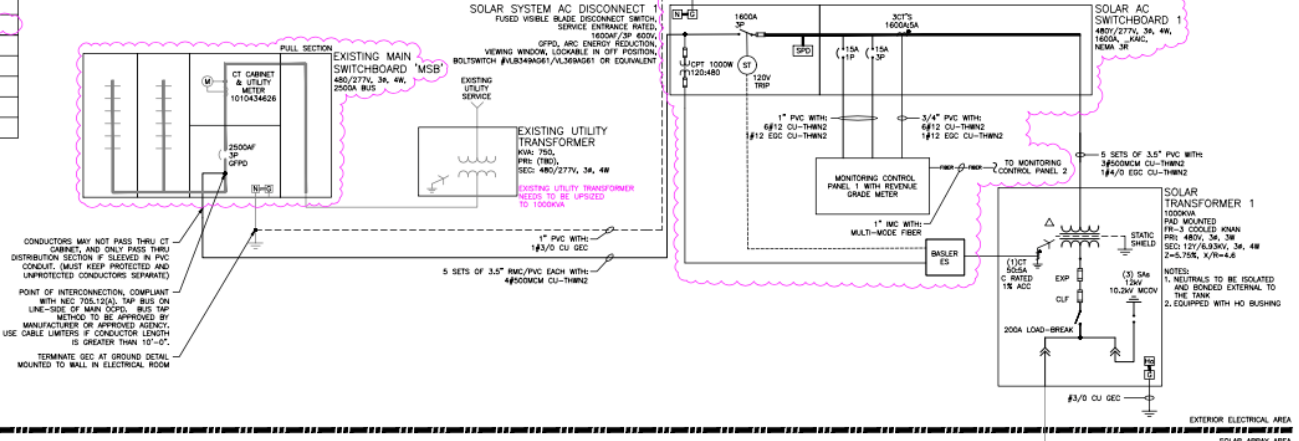
**ELECTRICAL - POWER DISTRIBUTION
DISTRIBUTION PANEL CALCULATIONS**

REVISION	DATE	BY	CHKD.	NO.
LAR				
MPL				
CURTIS PAXTON			Michael P. Cortez	02/28/24

NO.	DATE	DESCRIPTION	BY	APP'D.	SCALE	PLAT. NO.	DESIGN NO.	REVISION NO.
							E-03	B

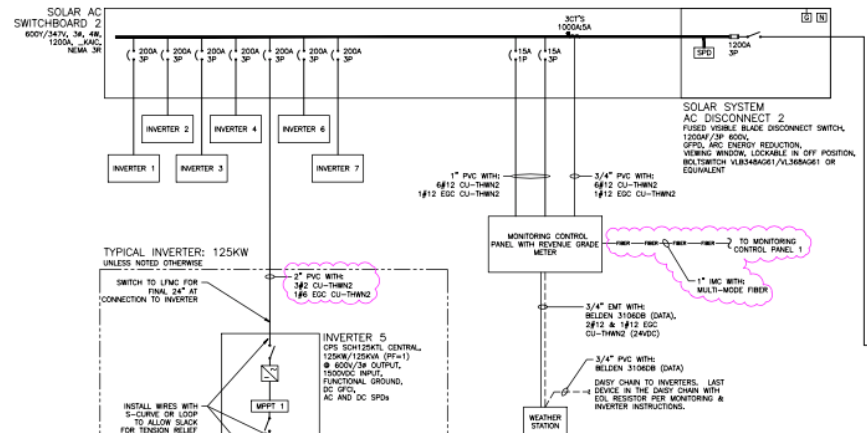
Attachment B
PV System Single Line Diagram

SYSTEM SUMMARY	
DC SYSTEM SIZE	1,072.50 KW
PTC SYSTEM SIZE	1,006.98 KW
AC SYSTEM SIZE	875.00 KW / 875.00 KVA
(QTY) MODULE	(1,950) JA SOLAR JAM72D30-550/MB
(QTY) INVERTER	(7) CPS SCH125KTL-DUO/US-600
TILT / AZIMUTH	25° / 180°
UTILITY	PG&E

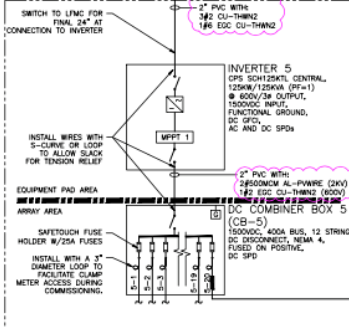


ELECTRICAL ROOM

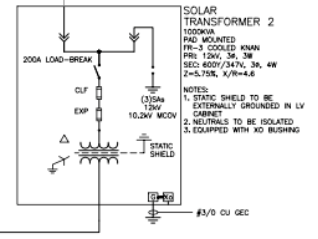
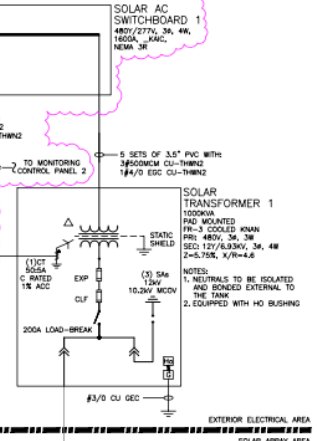
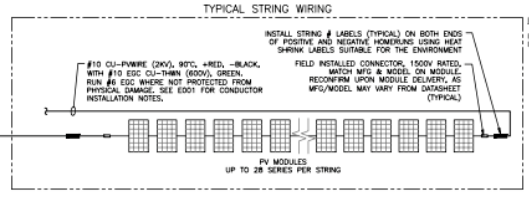
SOLAR ARRAY AREA



TYPICAL INVERTER: 125KW
UNLESS NOTED OTHERWISE



INVERTER INSTALLATION NOTES:
1. TORQUE AC & DC TERMINALS PER INSTALL MANUAL, APPLY TORQUE MARKS.



- DRAWING NOTES:
- CONTRACTOR SHALL FIELD-VERIFY INTERCONNECTION MEANS/METHODS PRIOR TO INSTALLATION. COORDINATED SHUTDOWN MAY BE REQUIRED.
 - ALL GROUND BARS AND LUGS SHALL BE GALV RATED AL/CU.
 - UNLESS OTHERWISE NOTED EQUIPMENT IS PERMITTED TO BE 80% OR 100% RATED. EQUIPMENT SHOWN AS "100% RATED" SHALL INCLUDE AN ASSEMBLY, INCLUDING OVERCURRENT PROTECTION DEVICES, WHICH IS LISTED FOR CONTINUOUS OPERATION AT 100% OF ITS RATED CURRENT.
 - PVC SCHEDULES WHERE PVC IS SPECIFIED, PVC SCHEDULE IS PERMITTED FOR UNDERGROUND STRAIGHT RUNS ONLY.
 - INCLUDE 5-POSITION TAP CHANGER FOR PRIMARY VOLTAGE ADJUSTMENT ON ALL TRANSFORMERS.
 - ENCLOSURES CONTAINING A SPALL SHALL BE LABELED "ENCLOSURE CONTAINS SPALL".
 - ALUMINUM CONDUCTOR SHALL TERMINATE IN COMPRESSION LUGS OR SHALL USE COMPRESSION PIN ADAPTORS.
 - ALL CONDUITS ENTERING OUTDOOR ELECTRICAL ENCLOSURES SHALL BE SEALED TO PREVENT MOISTURE INGRESS.
 - SET NEW ELECTRONIC-TRIP BREAKERS TO THE SETTINGS NOTED IN POWER STUDY.

