

Louden Tribe 1.5MW Solar PV Install

Invitation to Bid No: LT-FY24-001

Opening Date: Friday January 19th 2024

Bid Due Date: Sunday Feb 11th 2024, 5pm

Addendum 2

Change From Louden Tribe: New due Date for RFP Responses under LT-FY24-001 will be Sunday Feb 11th 2024, 5pm

Note to Bidders: Addendum 1 addresses emailed questions that came in from the date of issue through Tuesday January 31st 2024

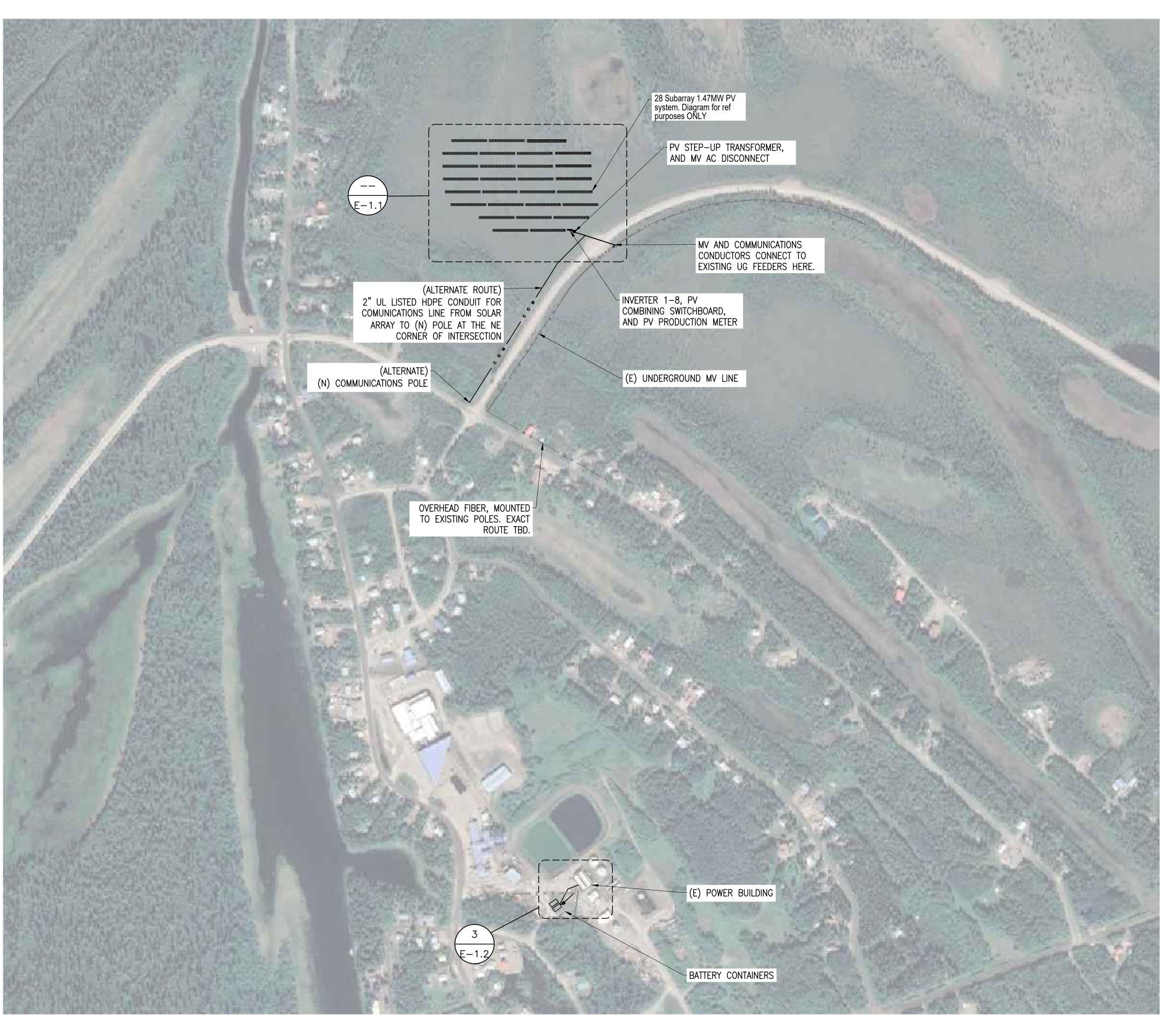
Q1: Is there a map available and a proposed layout of the sub arrays at the site?

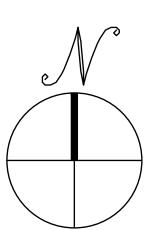
A1: Please see attached sub-array layout in the following pages showing the approximate location of the 28 sub arrays in Galena, AK that we are requesting a quote to construct. Note this RFP is not requesting any electrical work only procurement shipping and installation of the APA racking, Solar modules and ground screws. The final map of the site will

be supplied to the selected contractor but worst must be completed inside the polygonal map that has been approved by the Dept of Energy NEPA compliance officer. The mapping attached is for reference only and Louden will supply specific GPS points for the final area to the selected contractor.
Q2: What are the time constraints for a contractor to get access to the site
A2: Drilling work must be done while there is frozen ground at the site
so as not to disrupt the ground or leave ground scars on the tundra or the contractor must propose a mitigation measure.
O2. What is the classest of each only annual 2
Q3: What is the layout of each sub array?
A3: A typical array layout showing the location of individual ground screws is shown on the following pages it is expected there will be 28 of these sub-arrays
Q4: What is the timing for bid opening and contractor selection?
A4: Bids will be due 5pm Sunday Feb 11 th and opened publically at 9am
Feb 12 th at the Louden Council Office in Galena, AK. The tribe will score
respondents later that day and plans to select a contractor by Friday Feb 16th

Q5: What Specific Module will be the basis of design

A5: The module spec sheet is attached SEG-550-BMA-TB is being used as the basis of design. Louden is open to alternatives if proposed and accepted by the tribe





ELECTRICAL SITEPLAN

SCALE: 1" = 250'
0 250' 500'

Mayfield Renewables,

2210 NW Hayes Ave Corvallis, OR 97333 541.754.2001

STAMP:

GALENA MICROGRID GALENA, AK 99741

PROJECT NUMBER:
22-3270C
SCALE
AS SHOWN
ORIGINAL SIZE 24"X36"

SHEET SIZE ARCH "D"

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The drawings, specifications and other documents related to this project are protected under law and contract

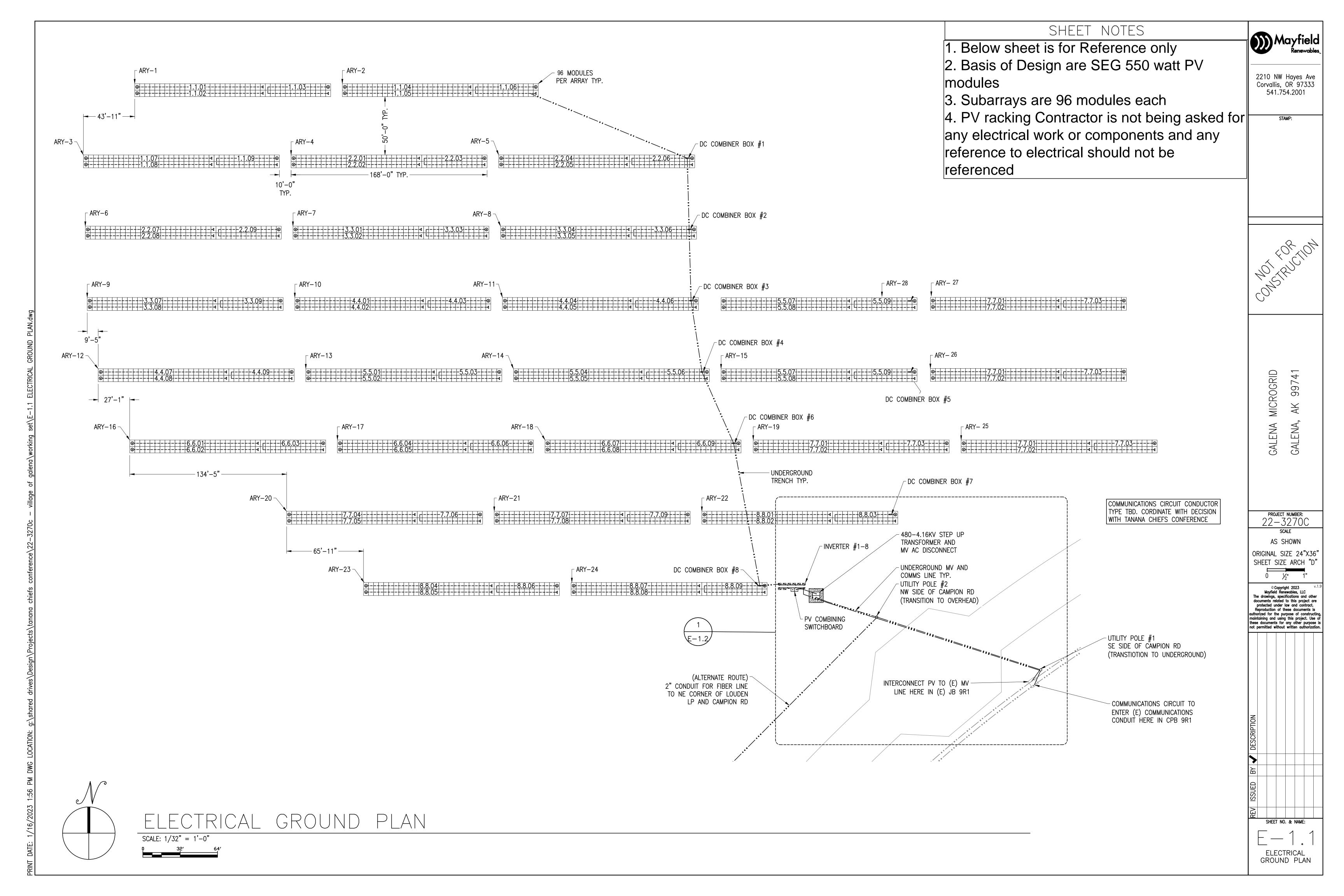
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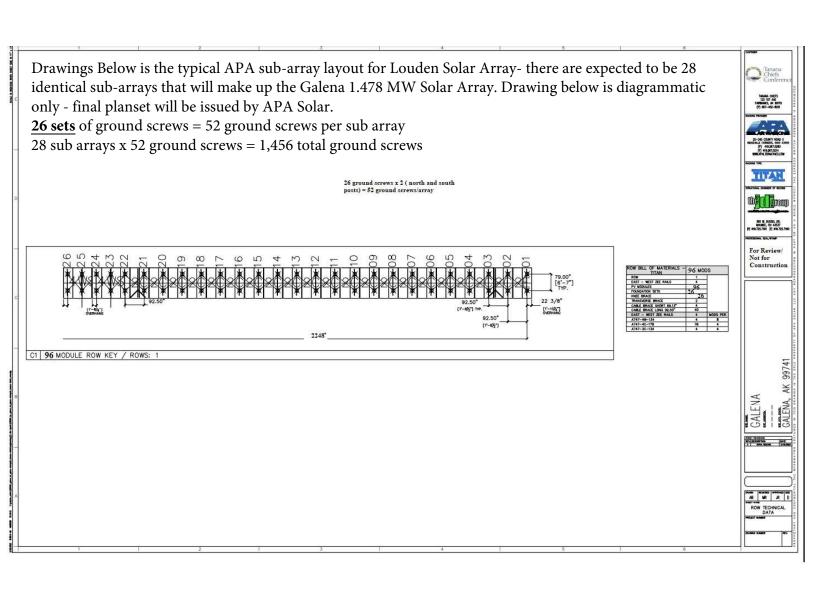
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SHEET NO. & NAME:

E-1.0 electrical siteplan







YUKON Series

Half-Cell

Transparent Backsheet Module

540-555W

Module Power Output

21.48%

Max Efficiency





Key Features



High module conversion efficiency



Super multi busbar technology



Superior load capacity



USA based liability insurance



Better temperature coefficient



Low attenuation long warranty

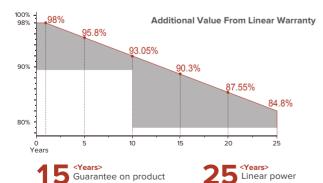


Higher bifacially



Houston, Texas based company

Warranty



material and workmanship

Product Certification

IEC61215:2016; IEC 61730:2016;	UL1703; UL61730/ETL/CEC			
IEC62804	PID			
IEC61701	Salt Mist			
IEC62716	Ammonia Resistance			
IEC60068	Dust and Sand			
IEC61215	Hailstone			
Fire Type (UL61730):Type1				
ICO14004-204E- ICO0004-204E- ICO 4E004-2040				

ISO14001:2015; ISO9001:2015; ISO45001:2018













About SEG Solar

output warranty





YUKON Series SEG-XXX-BMA-TB(144Cells)

Electrical Characteri	stics					A				_		
Module Type	SEG-540-BMA-TB		SEG-545-BMA-TB			SEG-550-BMA-TB			SEG-555-BMA-TB			
	Front	Front	Back	Front	Front	Back	Front stc	Front	Back	Front stc	Front	Back
Maximum Power -Pmp(W)	540	406	378	545	409	382	550	414	385	555	418	389
Open Circuit Voltage -Voc(V)	49.50	46.18	49.48	49.60	46.32	49.58	49.70	46.40	49.68	49.80	46.47	49.78
Short Circuit Current -lsc(A)	13.81	11.16	9.74	13.90	11.23	9.80	14.00	11.32	9.87	14.10	11.40	9.94
Maximum Power Voltage -Vmp(V)	41.55	38.39	41.61	41.80	38.41	41.86	42.05	38.58	42.10	42.31	38.75	42.35
Maximum Power Current -Imp(A)	13.00	10.59	9.09	13.04	10.65	9.13	13.08	10.73	9.15	13.12	10.79	9.19
Module Efficiency STC-ηm(%)	20.90			21.10			21.29			21.48		
Power Tolerance(W)	(0, +3%)											
Maximum System Voltage	1500V DC											
Maximum Series Fuse Rating		25 A										

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5

NOCT: Irradiance 800W/m² ambient temperature 20°C module temperature 45°C wind speed: 1m/s

Power measurement tolerance: +/-3%

Mechanical Specifications					
External Dimension	2278 x 1134 x 35 mm				
Weight	27.0 kg				
Solar Cells	PERC Mono 182 x 91mm(144 pcs)				
Front Glass	3.2 / mm AR coating tempered glass / low iron				
Frame	Anodized aluminium alloy				
Junction Box	IP68 / 3 diodes				
Connector Type	QC4.10				
Cable Type / Length	12 AWG PV Wire (UL) /1200 mm				
Mechanical Load(Front)	5400 Pa / 113 psf*				
Mechanical Load(Rear)	3600 Pa / 75 psf*				

*Refer to SEG installation Manual for details

Packing Configuration Container 20'GP 40'HQ Pieces per Pallet 31 31 Pallets per Container 4 20 Pieces per Container 124 620 341kw/container

 Temperature Characteristics

 Pmax Temperature Coefficient
 -0.35 %/°C

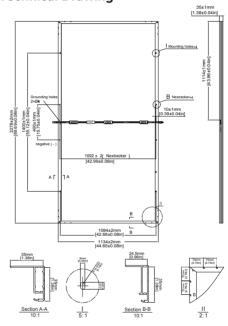
 Voc Temperature Coefficient
 -0.27 %/°C

 Isc Temperature Coefficient
 +0.05 %/°C

 Operating Temperature
 -40~+85 °C

 Nominal Operating Cell Temperature (NOCT)
 45±2 °C

Technical Drawing



*Refer to SEG installation Manual for details

I-V Curve

