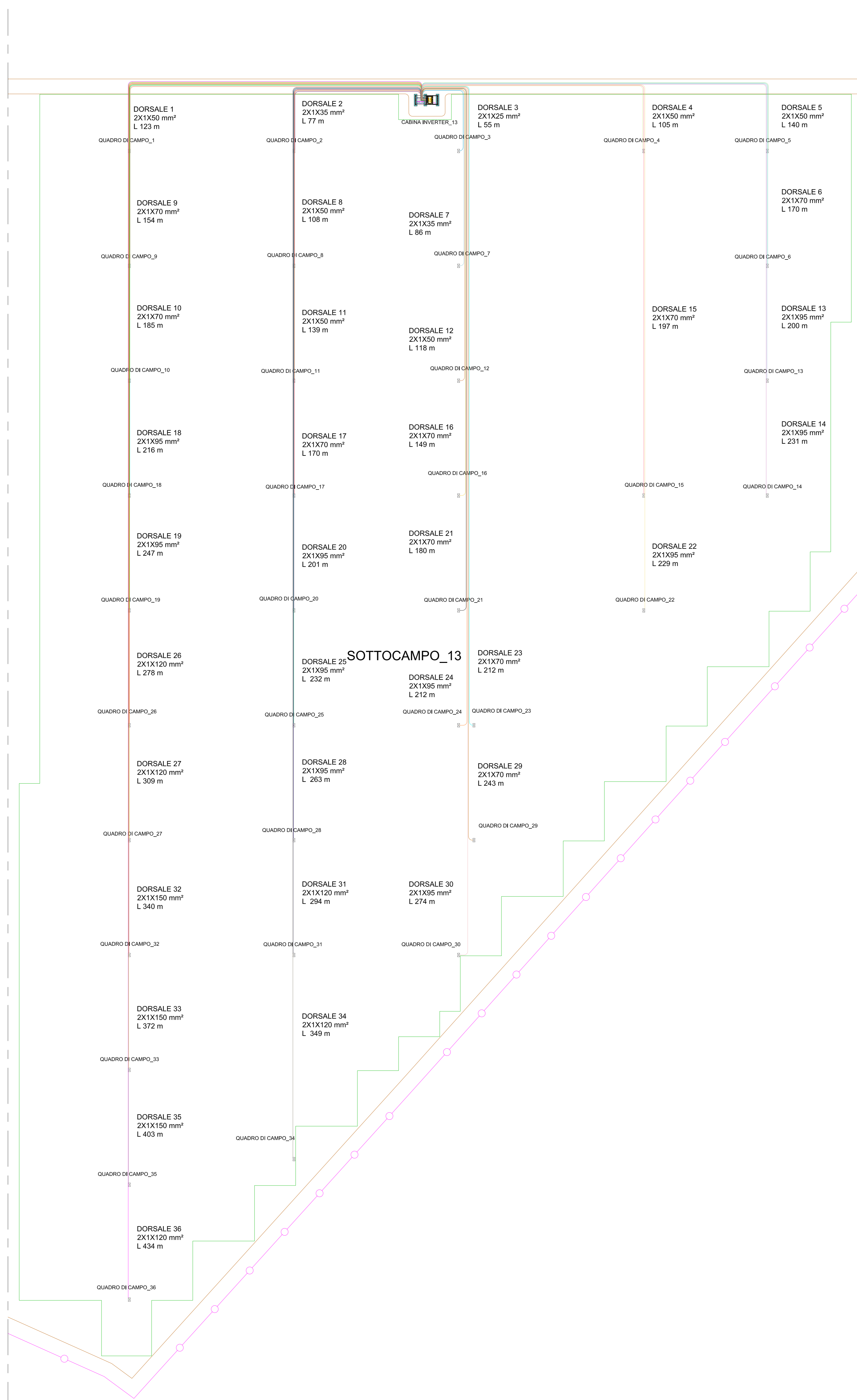


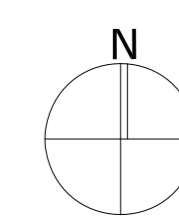
1. LEGENDA

- AREA 01
- AREA 02
- AREA 03
- AREA 04
- AREA 05
- AREA 06
- AREA 07
- AREA 08
- AREA 09
- AREA 10
- AREA 11
- AREA 12
- AREA 13
- AREA 14
- AREA 15
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- AREA 29
- AREA 30
- AREA 31
- AREA 32
- AREA 33
- AREA 34
- AREA 35
- AREA 36



MODULE DATA SHEET		GP - Inverter Electrical Characteristics		Voltage drop from Strings to QPS			
Module Type	REC SOLAR RECOPOLR BLK	GP - Inverter	1101.42 V	Module for each string	20.00		
Peak Power (P <sub>max</sub> )	(Wp)	VS OUT	126.20 V	Line per GP	10		
Open Circuit Voltage (V <sub>oc</sub> )	(V)	VS OUT	129.90 A	String per GP	10.00		
Optimum Operating Voltage (V <sub>mp</sub> )	(V)			Medium Length	5.45 m		
Current (I <sub>sc</sub> )	(A)			Medium Resistance	0.1719 Ω		
Temperature Co-efficient Voltage (β)	-0.280 V/WC			Section Line	10 mmq		
Temperature Co-efficient Current (α)	0.048 A/WC			Voltage Drop at STC	0.19 %		
CHARACTERISTICS FOR ONE STRING				Voltage Drop at 65°C	0.17 %		
Modules for each 1	20.00			Voltage Drop at 10°C	0.17 %		
Voltage	V <sub>mp</sub>	1161.42					
Current	A	12.68					
Peak Power (P <sub>max</sub> )	kWp	14.05					
FINAL DATA							
String to Inv	N°	314					
Power of all Strings	(P <sub>max</sub> )	4709.25 kWp					
Total Modules	N°	8190					
VALUES VERIFICATION FOR ONE QPS TO INVERTER							
Estimation of the minimum voltage V <sub>mp</sub> For a temperature of the modules that are 65°C	1291.50V	MIN MPPT VOLTAGE	849 V				
Estimation of the maximum current I <sub>sc</sub> For a temperature of the modules that are 65°C	131.27 A						
Estimation of the maximum current I <sub>sc</sub> For a temperature of the modules that are STC	1165.42V	MAX MPPT VOLTAGE	1325 Vdc				
Estimation of the minimum current I <sub>sc</sub> For a temperature of the modules that are -10°C	128.84 A						
Estimation of the maximum voltage V <sub>oc</sub> For a temperature of the modules that are -10°C	1247.65V	MAXIMUM VOLTAGE	1500 Vdc				
CALCULATION OF THE VOLTAGE DROP ON THE CABLES STC							
CODE	N° OF STRINGS TO QPS	AREAS	MAXIMUM LENGTH		VOLTAGE DROP FROM QPS TO INVERTER	TOTAL VOLTAGE DROP	NUMBER OF AREAS IN THE PV PLANT
			m	mm²			
SC-01	9	A-01	123.00	50	0.88	1.10	1
SC-02	9	A-02	77.00	35	0.76	1.06	2
SC-03	9	A-03	55.00	25	0.75	1.00	3
SC-04	9	A-04	105.00	40	0.72	0.90	4
SC-05	9	A-05	140.00	50	1.00	1.20	5
SC-06	9	A-06	170.00	70	0.86	1.10	6
SC-07	9	A-07	88.00	30	0.87	1.10	7
SC-08	9	A-08	108.00	40	0.77	1.00	8
SC-09	9	A-09	154.00	70	0.78	1.00	9
SC-10	9	A-10	180.00	70	0.84	1.10	10
SC-11	9	A-11	139.00	50	0.99	1.20	11
SC-12	9	A-12	130.00	50	0.84	1.10	12
SC-13	9	A-13	200.00	95	0.75	0.90	13
SC-14	9	A-14	201.00	95	0.87	1.10	14
SC-15	9	A-15	187.00	70	1.00	1.20	15
SC-16	9	A-16	146.00	70	0.76	1.00	16
SC-17	9	A-17	171.00	70	0.96	1.10	17
SC-18	9	A-18	216.00	95	0.81	1.00	18
SC-19	9	A-19	247.00	95	0.93	1.10	19
SC-20	9	A-20	201.00	95	0.75	0.90	20
SC-21	9	A-21	180.00	70	0.92	1.10	21
SC-22	9	A-22	229.00	95	0.86	1.10	22
SC-23	9	A-23	212.00	70	0.96	1.20	23
SC-24	9	A-24	212.00	95	0.79	1.00	24
SC-25	9	A-25	232.00	95	0.87	1.10	25
SC-26	9	A-26	278.00	130	0.82	1.00	26
SC-27	9	A-27	209.00	100	0.92	1.10	27
SC-28	9	A-28	263.00	95	0.99	1.20	28
SC-29	9	A-29	243.00	70	0.96	1.20	29
SC-30	7	A-30	274.00	100	0.81	1.10	30
SC-31	9	A-31	204.00	100	0.87	1.10	31
SC-32	9	A-32	340.00	150	0.81	1.00	32
SC-33	9	A-33	372.00	150	0.88	1.10	33
SC-34	7	A-34	349.00	100	0.81	1.00	34
SC-35	9	A-35	403.00	150	0.85	1.00	35
SC-36	7	A-36	434.00	100	1.00	1.20	36

MINIMUM VALOR	1.907 %
MAXIMUM VALOR	0.906 %
MAXIMUM VALOR	1.200 %



CERIGNOLA REGIONE PUGLIA PROVINCIA DI FOGGIA

**IMPIANTO AGRIVOLTAICO E RELATIVE OPERE ED INFRASTRUTTURE CONNESSE DELLA POTENZA ELETTRICA DI 140,66 MW (ex 120MW) SITO NEL COMUNE DI CERIGNOLA**

PROGETTO DEFINITIVO

**Layout Campo "A1" - Sottocampo 13 - Dimensionamento delle dorsali-Tabella calcolo dorsali**

Proponente: **CERIGNOLA SOLAR 2 S.R.L.**  
Via Antonio Locatelli n.1  
37122 Verona  
P.IVA 04741630232  
cerignolasolar2@pec.it

Progettazione: **WH Group s.r.l.**  
Via A. Locatelli n. 1 - 37122 Verona (VR)  
P.IVA 12336131003  
ingegneria@whgroup.eu

Spazio riservato agli Enti:

File: PE17040_ElaborazioneGrafico_4.2.9_2.92	Cod. PE17040	Scal. 1:500		
Rev.	Data	Descrizione	Redatto	Approvato
00	08/03/2022	V.I.A. Minorile	A. Tartaglia	S.M. Caputo
<b>4.2.9_2.92</b>				
CERIGNOLA SOLAR 2 S.R.L.   Via Antonio Locatelli n.1 37122 Verona   cerignolasolar2@pec.it				