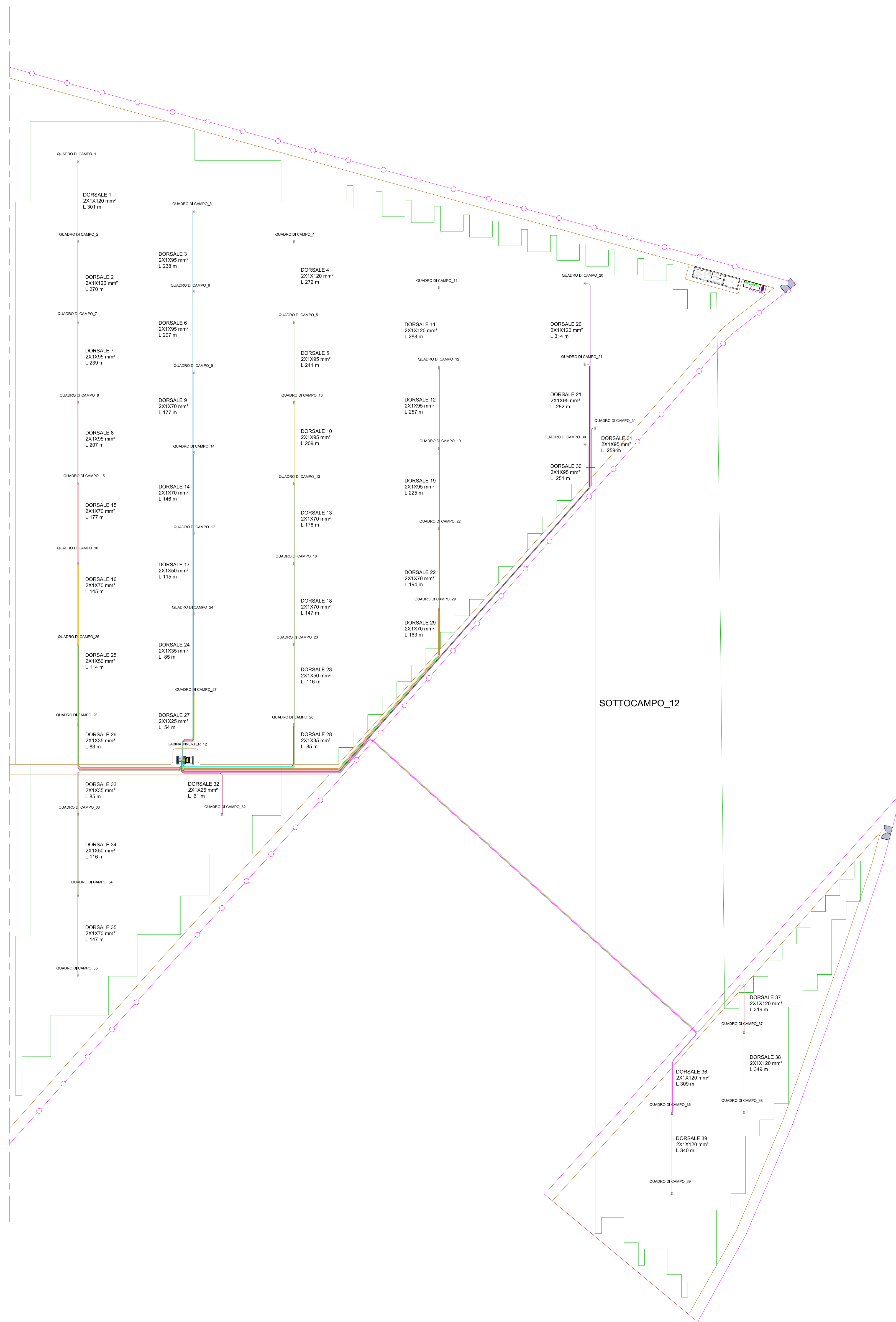


1. LEGENDA

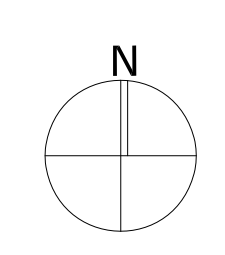
- AREA 01
- AREA 02
- AREA 03
- AREA 04
- AREA 05
- AREA 06
- AREA 07
- AREA 08
- AREA 09
- AREA 10
- AREA 11
- AREA 12
- AREA 13
- AREA 14
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- AREA 34
- AREA 35
- AREA 36
- AREA 37
- AREA 38
- AREA 39



CABLING CALCULATION: "Cerignola"

MODULE DATA SHEET		GP - Energy Electrical Characteristics		Voltage drop from Strings to GPS			
MODULE TYPE	REC Solar REC/ARPE REC	Up-OUT	1161.42 V	Modules for each string	20.00		
Peak Power (Pm)	575.00 (W)	Vp-OUT	1263.20 V	Line per GP	10		
Open Circuit Voltage (Voc)	53.20 (V)	I	128.80 A	Strings per GP	10.00		
Optimum Operating Voltage (Vmpp)	44.67 (V)	Medium Length	≤ 45 m	Medium Resistance	0.175 Ω		
Current (Impp)	12.88 (A)	Section Line	10 mmq	Voltage Drop at STC	0.19 %		
Temperature Co-efficient Voltage (β)	-0.260 Vm/C	Voltage Drop at 65°C	0.17 %	Voltage Drop at -10°C	0.17 %		
Temperature Co-efficient Current (α)	0.048 A/m°C						
CHARACTERISTICS FOR ONE STRING							
Modules for each 1	N°	20.00					
Voltage	Vmpp	1161.42					
Current	A	12.88					
Peak Power (Pm)	KWp	14.95					
FINAL DATA							
String to In	N°	848					
Power of all Strings	(Peak)	5151.75 kWp					
Total Modules	N°	8970					
VALUES VERIFICATION FOR ONE GPS TO INVERTER							
Estimation of the minimum voltage Vmpp. For a temperature of the modules that are 65°C	1291.50V	MIN MPPT VOLTAGE	540 V				
Estimation of the maximum current Impp. For a temperature of the modules that are 65°C	131.27 A	MAX MPPT VOLTAGE	1325 Vdc				
Estimation of the maximum mppt voltage Voc. For a temperature of the modules that are STC	1261.64 A	MAXIMUM VOLTAGE	1500 Vdc				
Estimation of the minimum current Impp. For a temperature of the modules that are -10°C	126.64 A						
Estimation of the maximum voltage Voc. 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 GPS	AREAS	MAXIMUM LENGTH	LINE SECTION	VOLTAGE DROP FROM GP TO INVERTER	TOTAL VOLTAGE DROP	NUMBER OF AREAS IN THE PV PLANT
SC-01	8	A-01	367.00	100	1.36	1.10	1
SC-02	8	A-02	270.00	100	0.80	1.00	2
SC-03	8	A-03	238.00	95	0.99	1.10	1
SC-04	8	A-04	272.00	100	0.81	1.00	4
SC-05	8	A-05	241.00	95	0.90	1.10	5
SC-06	8	A-06	267.00	95	0.78	1.00	6
SC-07	8	A-07	239.00	95	0.90	1.10	6
SC-08	8	A-08	267.00	95	0.78	1.00	8
SC-09	8	A-09	177.00	70	0.40	1.10	6
SC-10	8	A-10	269.00	95	0.78	1.00	10
SC-11	8	A-11	268.00	100	0.85	1.00	13
SC-12	8	A-12	267.00	95	0.86	1.40	12
SC-13	8	A-13	178.00	70	0.51	1.10	13
SC-14	8	A-14	148.00	70	0.74	0.80	14
SC-15	8	A-15	177.00	70	0.90	1.10	15
SC-16	8	A-16	145.00	70	0.74	0.80	16
SC-17	8	A-17	115.00	60	0.62	1.00	17
SC-18	8	A-18	147.00	70	0.75	0.80	18
SC-19	8	A-19	240.00	95	0.84	1.00	19
SC-20	8	A-20	314.00	100	0.83	1.00	20
SC-21	8	A-21	240.00	95	0.84	1.10	21
SC-22	8	A-22	184.00	70	0.89	1.40	22
SC-23	8	A-23	170.00	60	0.83	1.00	23
SC-24	8	A-24	65.00	35	0.86	1.10	24
SC-25	8	A-25	114.00	65	0.81	1.00	24
SC-26	8	A-26	65.00	35	0.84	1.00	24
SC-27	8	A-27	64.00	35	0.77	1.00	24
SC-28	8	A-28	65.00	35	0.86	1.10	26
SC-29	8	A-29	163.00	70	0.83	1.00	26
SC-30	8	A-30	251.00	95	0.84	1.00	27
SC-31	8	A-31	250.00	95	0.86	1.10	28
SC-32	8	A-32	61.00	25	0.87	1.10	29
SC-33	8	A-33	65.00	35	0.86	1.10	30
SC-34	8	A-34	118.00	50	0.83	1.00	31
SC-35	8	A-35	147.00	70	0.75	0.80	32
SC-36	8	A-36	309.00	100	0.92	1.10	33
SC-37	8	A-37	310.00	100	0.86	1.10	33
SC-38	8	A-38	349.00	120	0.92	1.10	33
SC-39	8	A-39	340.00	120	0.90	1.10	33

MEDIMUM VALORI	1,867 %
MINIMUM VALORI	0,990 %
MAXIMUM VALORI	2,928 %



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 12 - 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@enitgroup.eu



Spazio riservato agli Enti:

File: PE17Q60_EbboneroGrafico_4,2,9_2,85 Cod. PE17Q60 Scal. 1:500

Rev.	Data	Descrizione	Redatto	Approvato
00	08/03/2022	V.I.A. Ministeriale	A. Tartaglia	S.M. Caputo

4.2.9_2.85

CERIGNOLA SOLAR 2 S.R.L. | Via Antonio Locatelli n.1 37122 Verona | cerignolasolar2@pec.it