

SALUSSOLA



PROVINCIA DI BIELLA

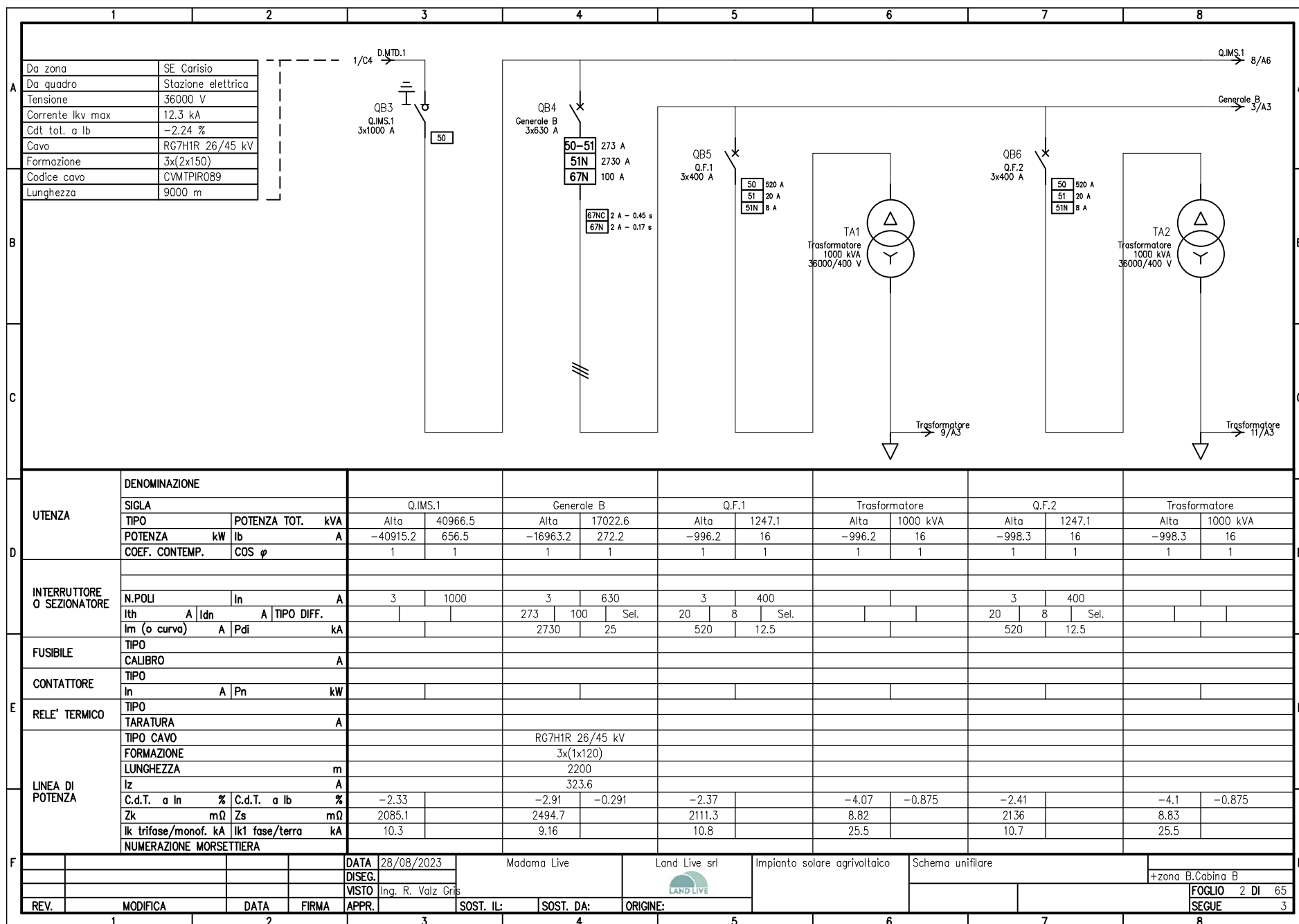


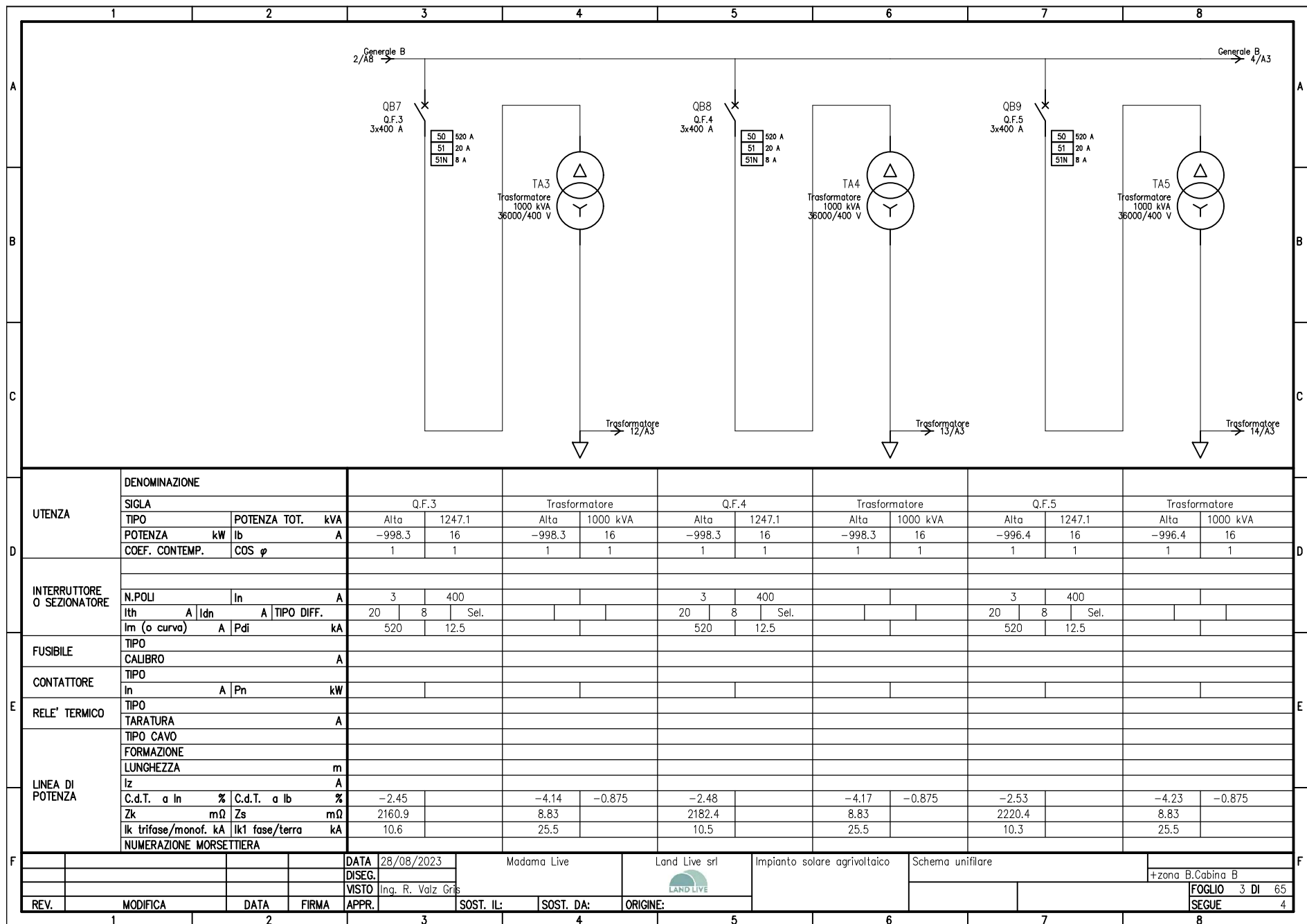
IMPIANTO SOLARE AGRIVOLTAICO DA 47,36 MWp MADAMA LIVE

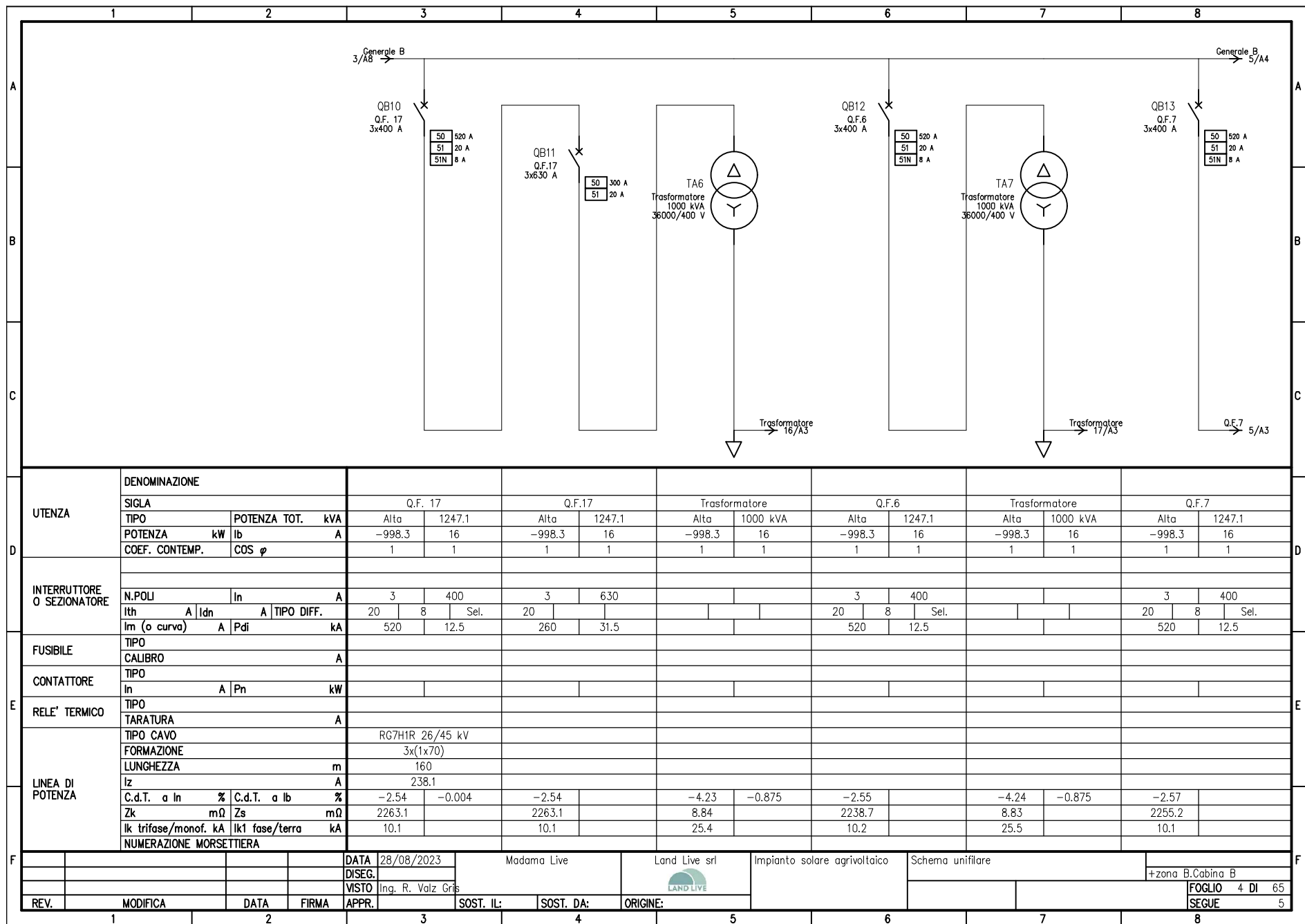
Istanza di valutazione di impatto ambientale per la costruzione e l'esercizio di impianti di produzione di energia elettrica alimentati da fonti rinnovabili ai sensi dell'art. 23 D.lgs. n.152/2006

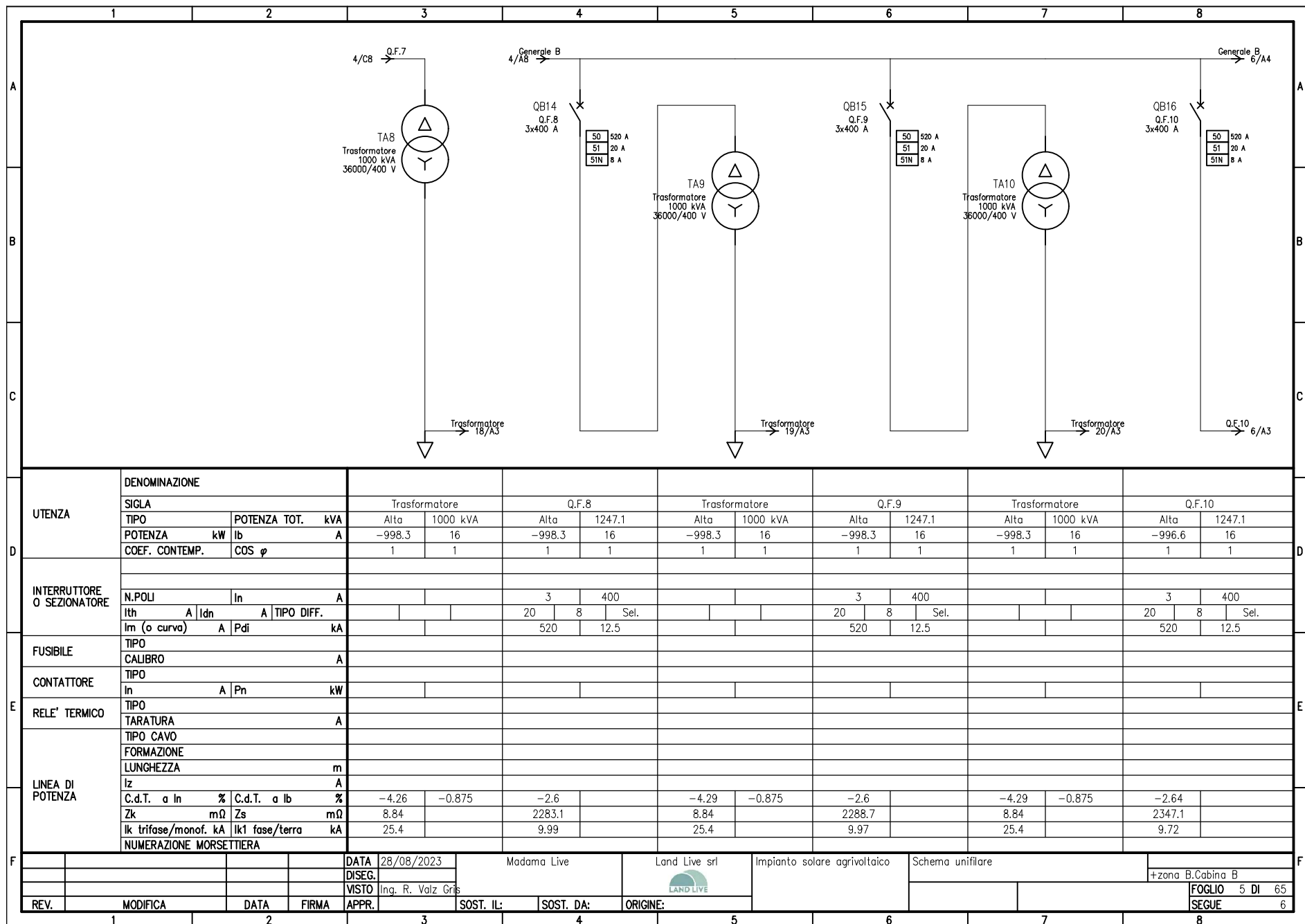
IMMOBILE	Comune di Salussola	Foglio 21 Mappali 17-27; Foglio 22 Mappali 14-15-16; Foglio 23 Mappali 34-148-146; Foglio 24 Mappali 11-13-14-15-21; Foglio 27 Mappale 16
PROGETTO: VALUTAZIONE DI IMPATTO AMBIENTALE	OGGETTO TAV10 – SCHEMA UNIFILARE IMPIANTO	SCALA --
REVISIONE - DATA	VERIFICATO	APPROVATO
REV.00 - 13/09/2023		
IL RICHIEDENTE	MADAMA LIVE FIRMA _____	
I PROGETTISTI	Ing. Riccardo Valz Grisi FIRMA _____ 	
	Arch. Andrea Zegna FIRMA _____ 	
TEAM DI PROGETTO	Land Live srl 20124 Milano - Citycenter Regus - Via Lepetit 8/10 Tel. +39 02 0069 6321 13900 Biella - Via Repubblica 41 Tel. +39 015 32838 - Fax +39 015 30878	

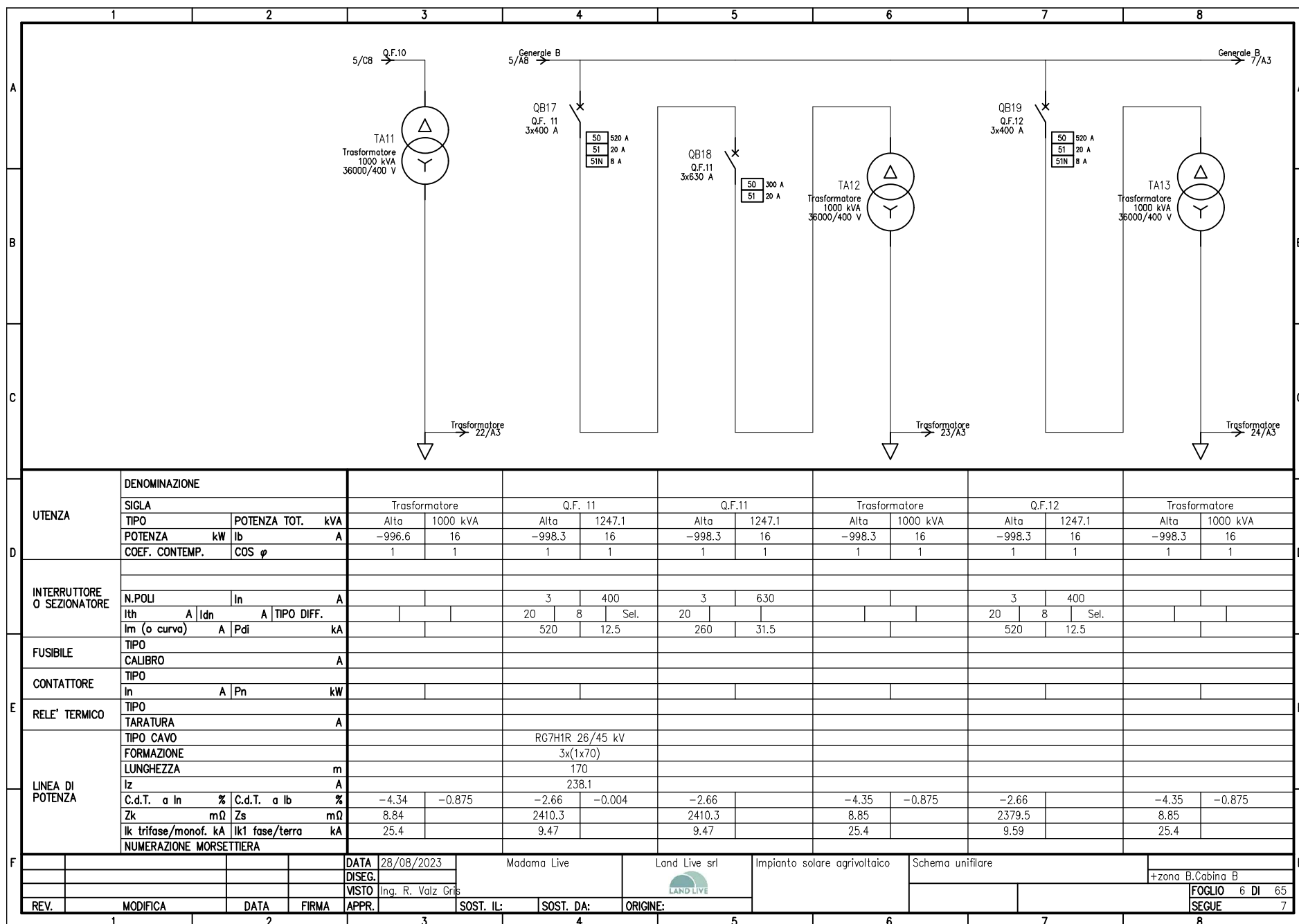
	1	2	3	4	5	6	7	8															
A	<table><tr><td>Da quadro</td><td>Alta tensione</td></tr><tr><td>Tensione</td><td>36 kV</td></tr><tr><td>Corrente I_k max</td><td>15 kA</td></tr><tr><td>Corrente I_{k1ft} max</td><td>6 kA</td></tr><tr><td>Potenza totale</td><td>-40915.2 kW</td></tr><tr><td>Fattore di potenza</td><td>1</td></tr><tr><td>Corrente totale I_b</td><td>656.5 A</td></tr></table> Forgitura QB1 Q.IMS.1 3x1000 A 50 QB2 D.MTD.1 3x800 A 50-51 657 A 51N 6570 A 67N 100 A 67NC 2 A - 0.45 s 67N 2 A - 0.17 s D.MTD.1 2/A3								Da quadro	Alta tensione	Tensione	36 kV	Corrente I _k max	15 kA	Corrente I _{k1ft} max	6 kA	Potenza totale	-40915.2 kW	Fattore di potenza	1	Corrente totale I _b	656.5 A	A
Da quadro	Alta tensione																						
Tensione	36 kV																						
Corrente I _k max	15 kA																						
Corrente I _{k1ft} max	6 kA																						
Potenza totale	-40915.2 kW																						
Fattore di potenza	1																						
Corrente totale I _b	656.5 A																						
B									B														
C									C														
D	UTENZA		DENOMINAZIONE		Q.IMS.1		D.MTD.1				D												
	SIGLA																						
	TIPO	POTENZA TOT.	kVA		Alta	40966.5	Alta	40966.5															
	POTENZA	kW	I _b	A	-40915.2	656.5	-40915.2	656.5															
	COEF. CONTEMP.	COS φ			1	1	1	1															
	INTERRUTTORE O SEZIONATORE																						
	N.POLI		In	A	3	1000	3	800															
	I _{th}	A	I _{dn}	A			657	100	Sel.														
	I _m (o curva)	A	P _{di}	kA			6570	20															
	FUSIBILE																						
	TIPO																						
	CALIBRO		A																				
	CONTATTORE																						
	TIPO																						
	In		A	P _n	kW																		
E	RELE' TERMICO										E												
	TIPO																						
	TARATURA		A																				
	TIPO CAVO						RG7H1R 26/45 kV																
	FORMAZIONE						3x(2x150)																
	LUNGHEZZA		m				9000																
	I _z		A				723.5																
	C.d.T. a I _n		%	C.d.T. a I _b	%		-2.33	-2.24															
	Z _k		mΩ	Z _s	mΩ	1486.9	2085.1																
	I _k trifase/monof. kA		I _{k1} fase/terra kA		15		10.3																
	NUMERAZIONE MORSETTIERA																						
F					DATA	28/08/2023	Modama Live		Land Live srl	Impianto solare agrivoltaico	Schema unifilare	F											
					DISEG.							+SE Carisio.Stazione elettrica											
					VISTO	Inq. R. Valz Gris						FOGLIO 1 DI 65											
	REV.	MODIFICA	DATA	FIRMA	APPR.		SOST. IL:	SOST. DA:	ORIGINE:			SEGUE 2											
	1		2				3	4	5	6	7	8											

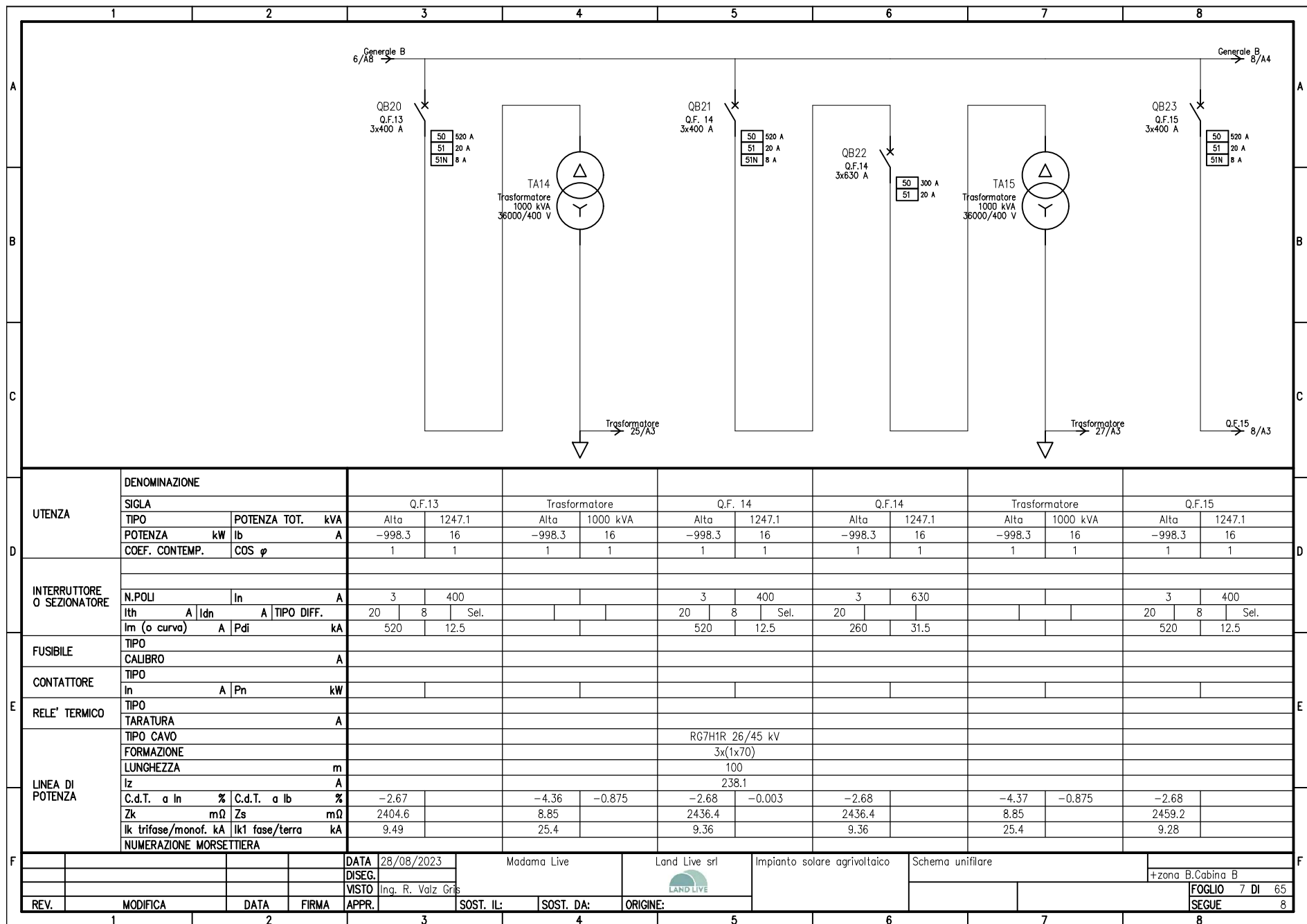












DATA

28/08/2023

DISSEG.

Ing. R. Valz Gris

VISTO

Modama Live

Land Live srl

Impianto solare agrivoltaico

Schema unifilare

+zona B.Cabina B

REV.

MODIFICA

DATA

FIRMA

APPR.

SOST. IL:

SOST. DA:

ORIGINE:

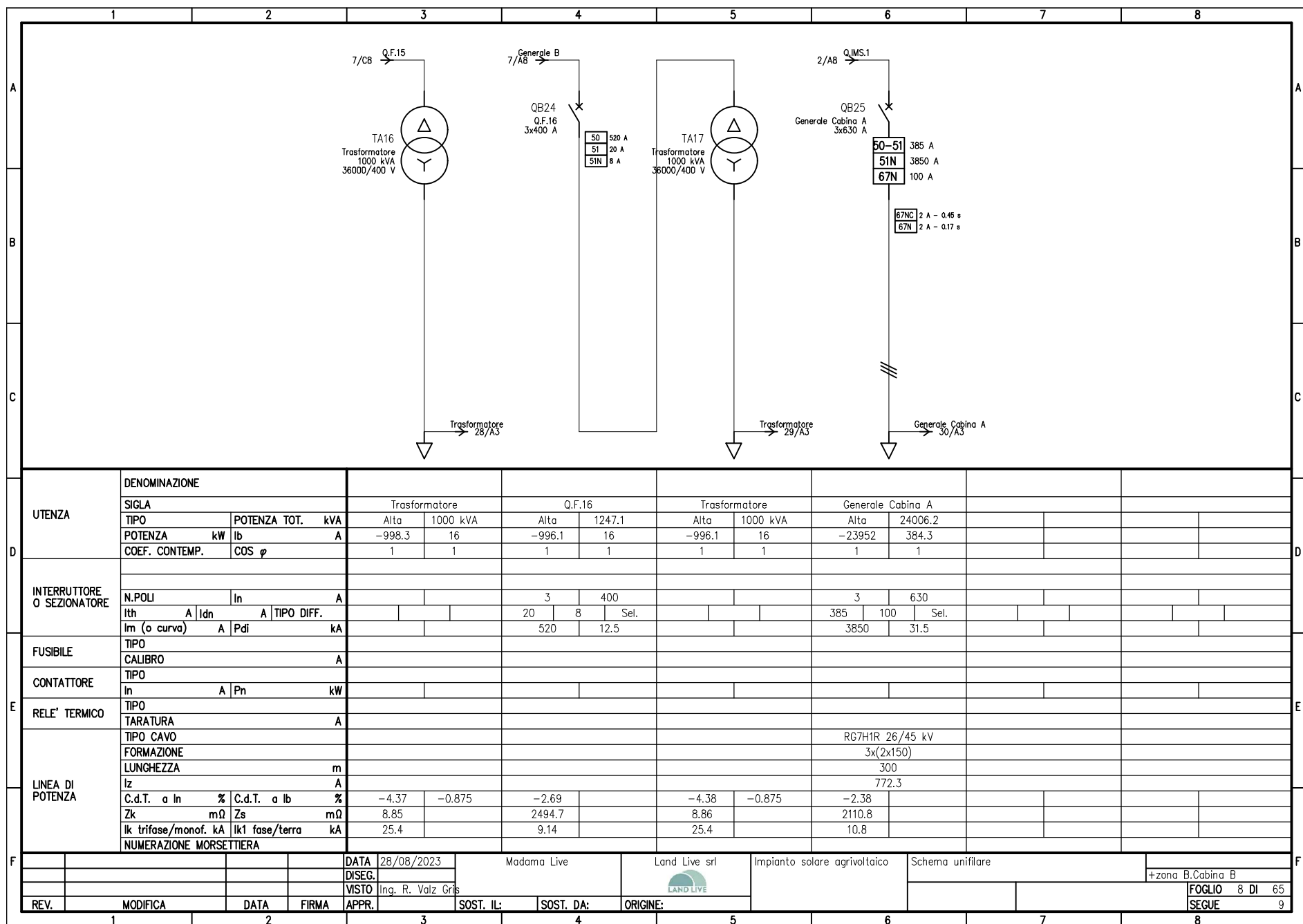
FOGLIO

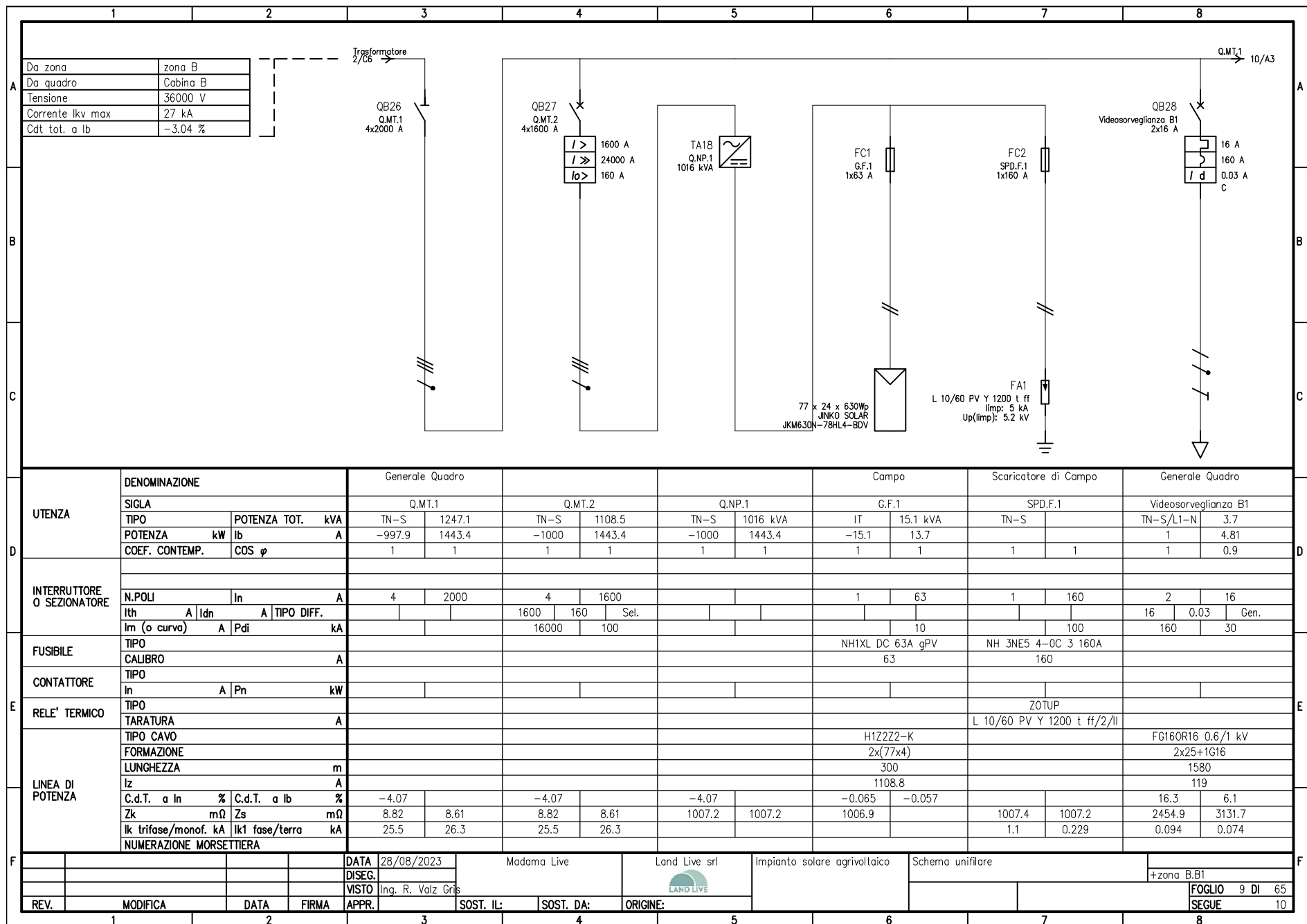
7 DI

65

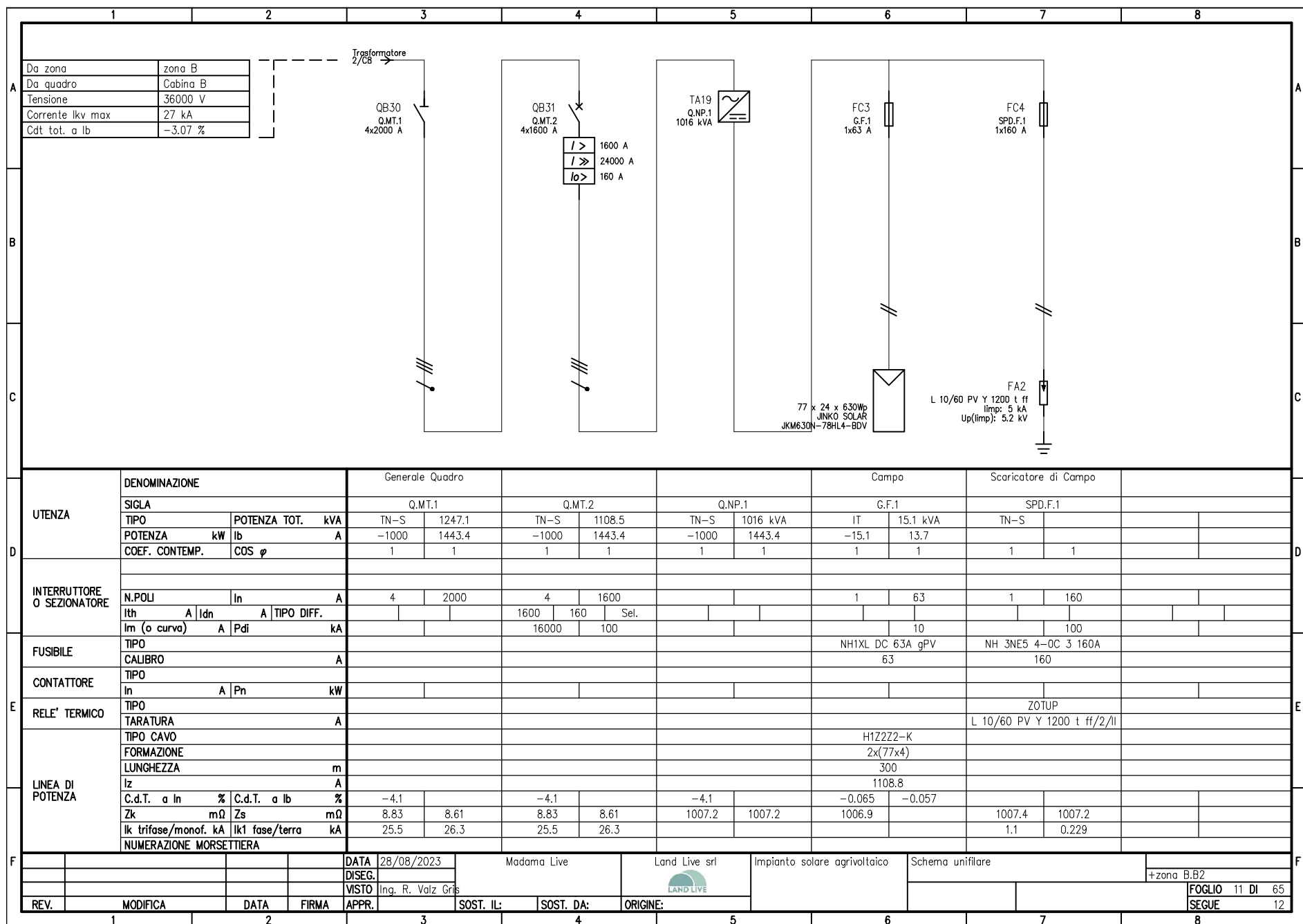
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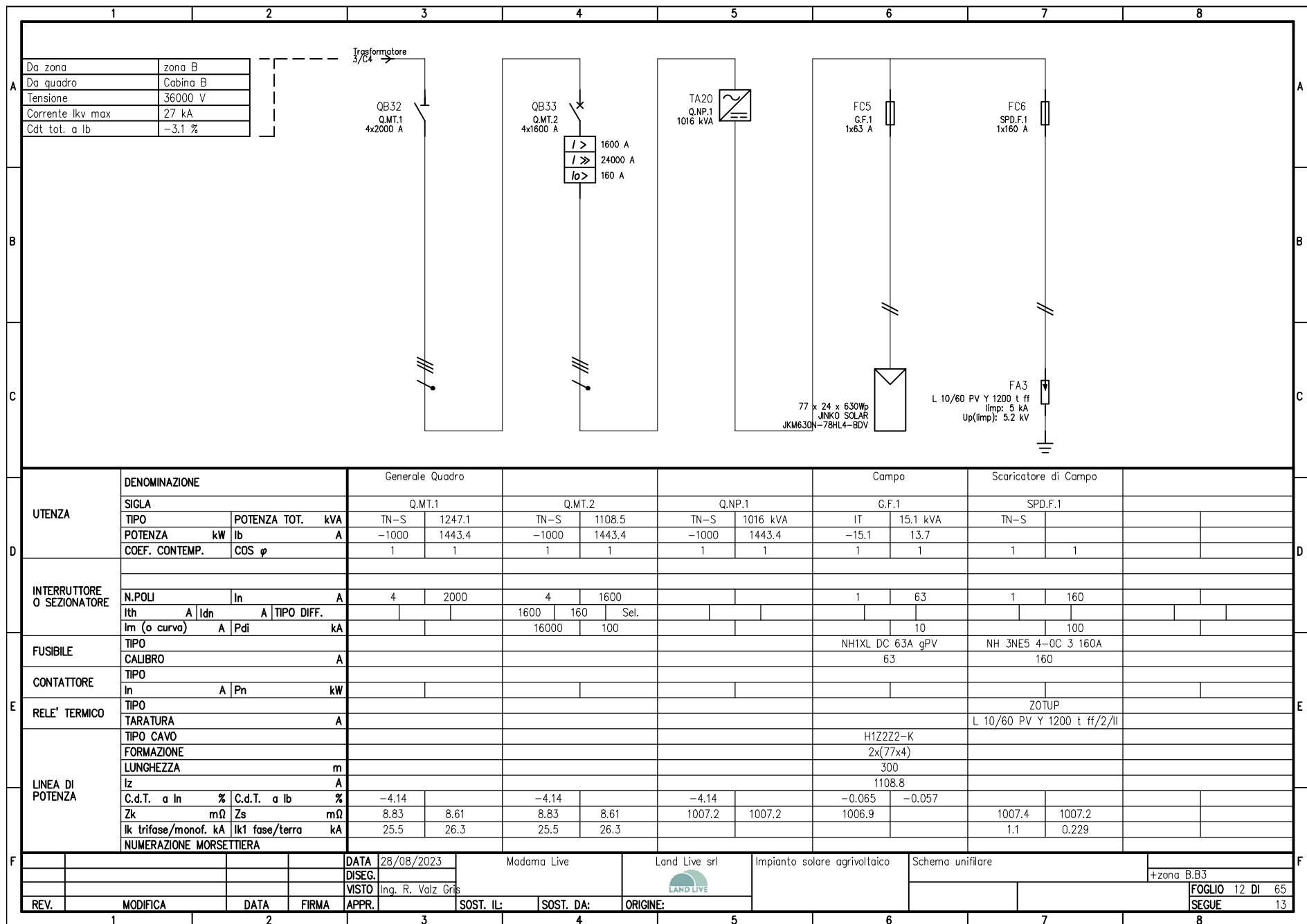
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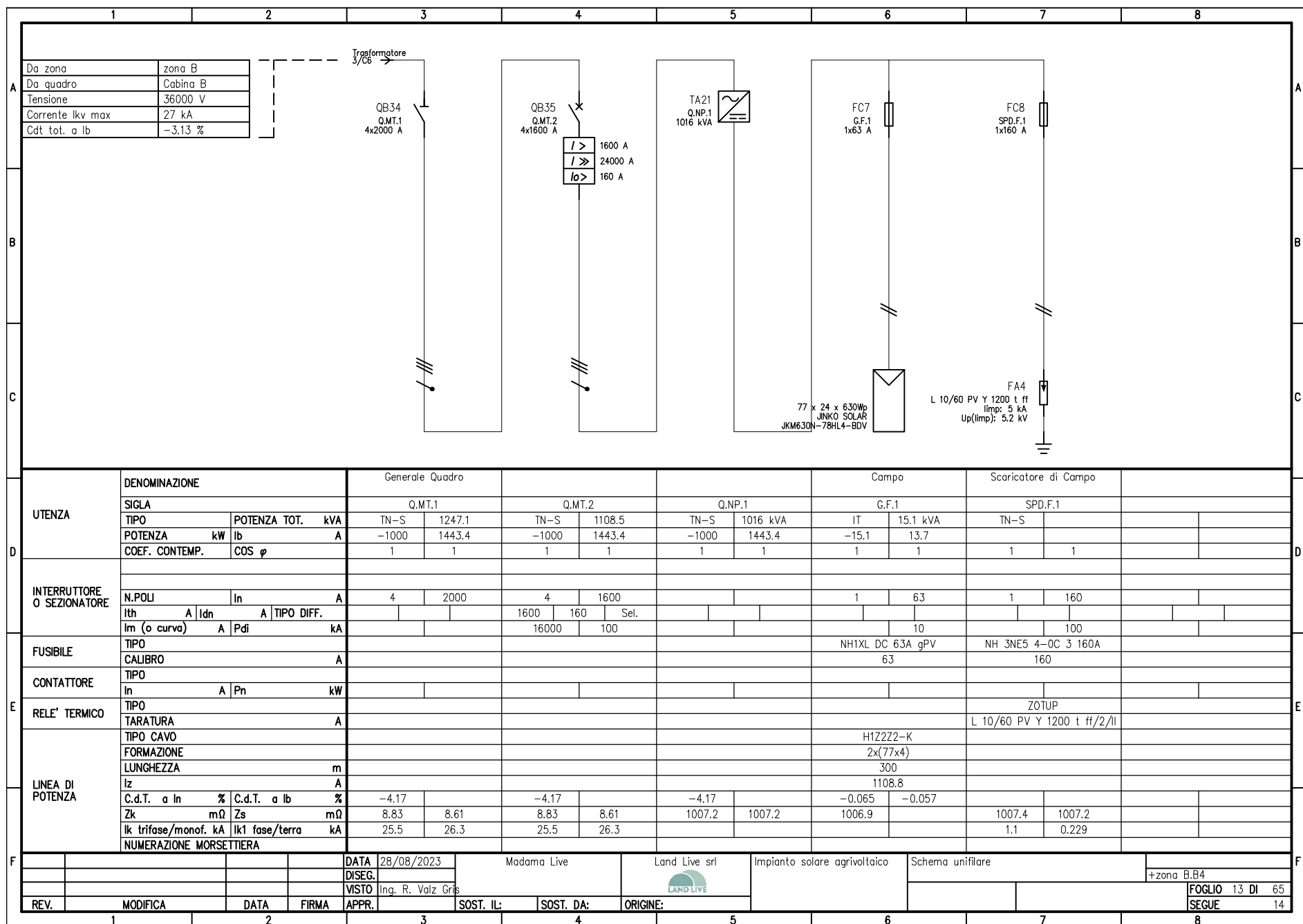


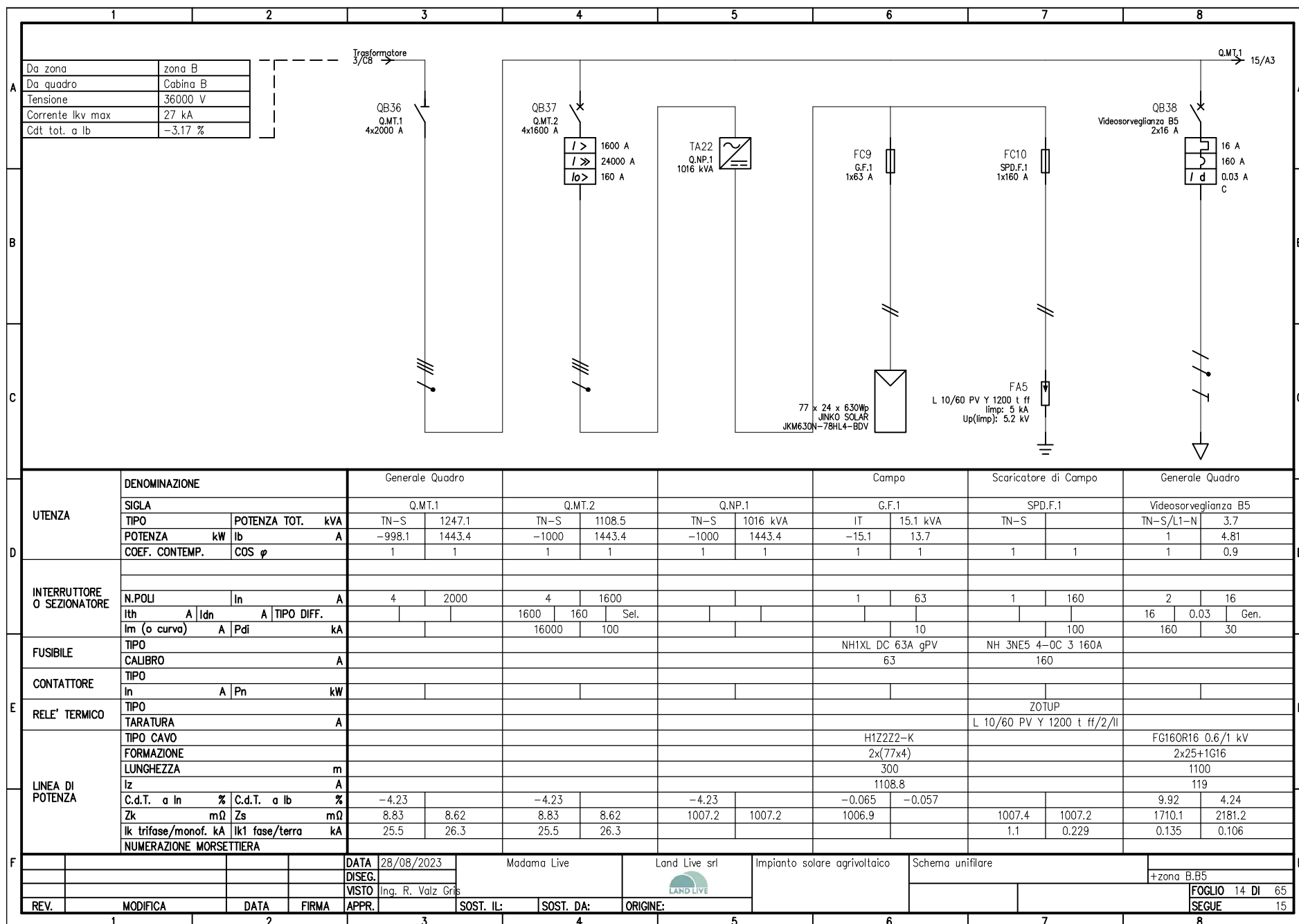


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A	9/A8 QMT.1 QB29 III. perimetrale B1 2x16 A 16 A 160 A 0.03 A C								A	
B									B	
C									C	
D	UTENZA	DENOMINAZIONE		Generale Quadro					D	
		SIGLA		III. perimetrale B1						
		TIPO	POTENZA TOT. kVA	TN-S/L1-N	3.7					
		POTENZA kW	Ib A	1.11	5.34					
		COEF. CONTEMP.	COS φ	1	0.9					
	INTERRUTTORE O SEZIONATORE	N.POLI		In A	2	16				
		Ith A	Idn A	TIPO DIFF.	16	0.03	Gen.			
		Im (o curva) A	Pdi kA		160	30				
	FUSIBILE	TIPO								
		CALIBRO		A						
	CONTATTORE	TIPO								
		In A	Pn kW							
E	RELE' TERMICO	TIPO							E	
		TARATURA		A						
	LINEA DI POTENZA	TIPO CAVO		FG160R16 0.6/1 kV						
		FORMAZIONE		2x25+1G16						
		LUNGHEZZA		m 1580						
		Iz A		119						
		C.d.T. a In %	C.d.T. a Ib %	16.3	6.78					
		Zk mΩ	Zs mΩ	2454.9	3131.7					
		Ik trifase/monof. kA	Ik1 fase/terra kA	0.094	0.074					
	NUMERAZIONE MORSETTIERA									
F				DATA	28/08/2023	Modama Live	Land Live srl	Impianto solare agrivoltaico	Schema unifilare	F
				DISSEG.						+zona B.B1
				VISTO	Ing. R. Valz Gris					FOGLIO 10 DI 65
	REV.	MODIFICA	DATA	FIRMA	APPR.	SOST. IL:	SOST. DA:	ORIGINE:		SEGUE 11
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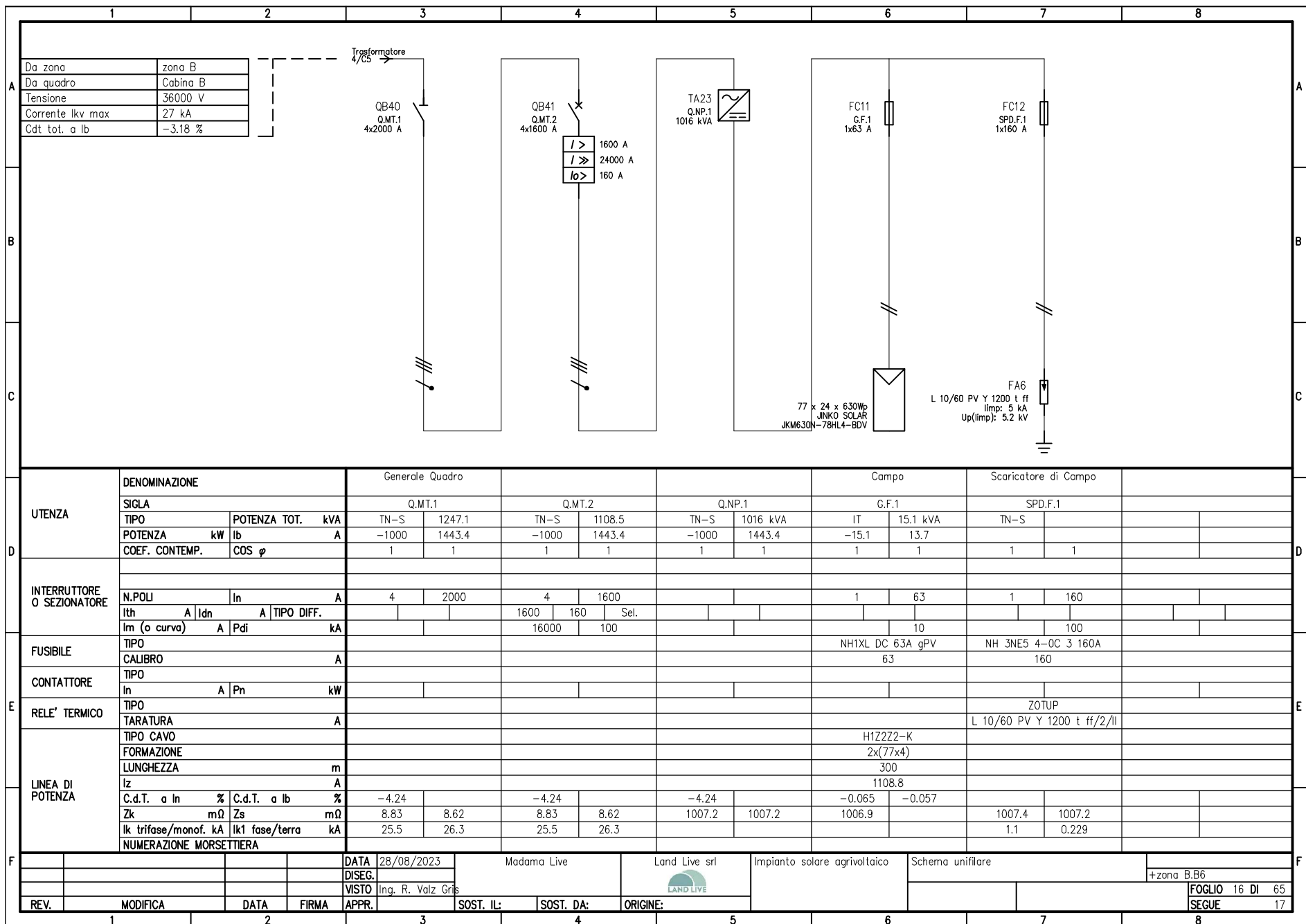


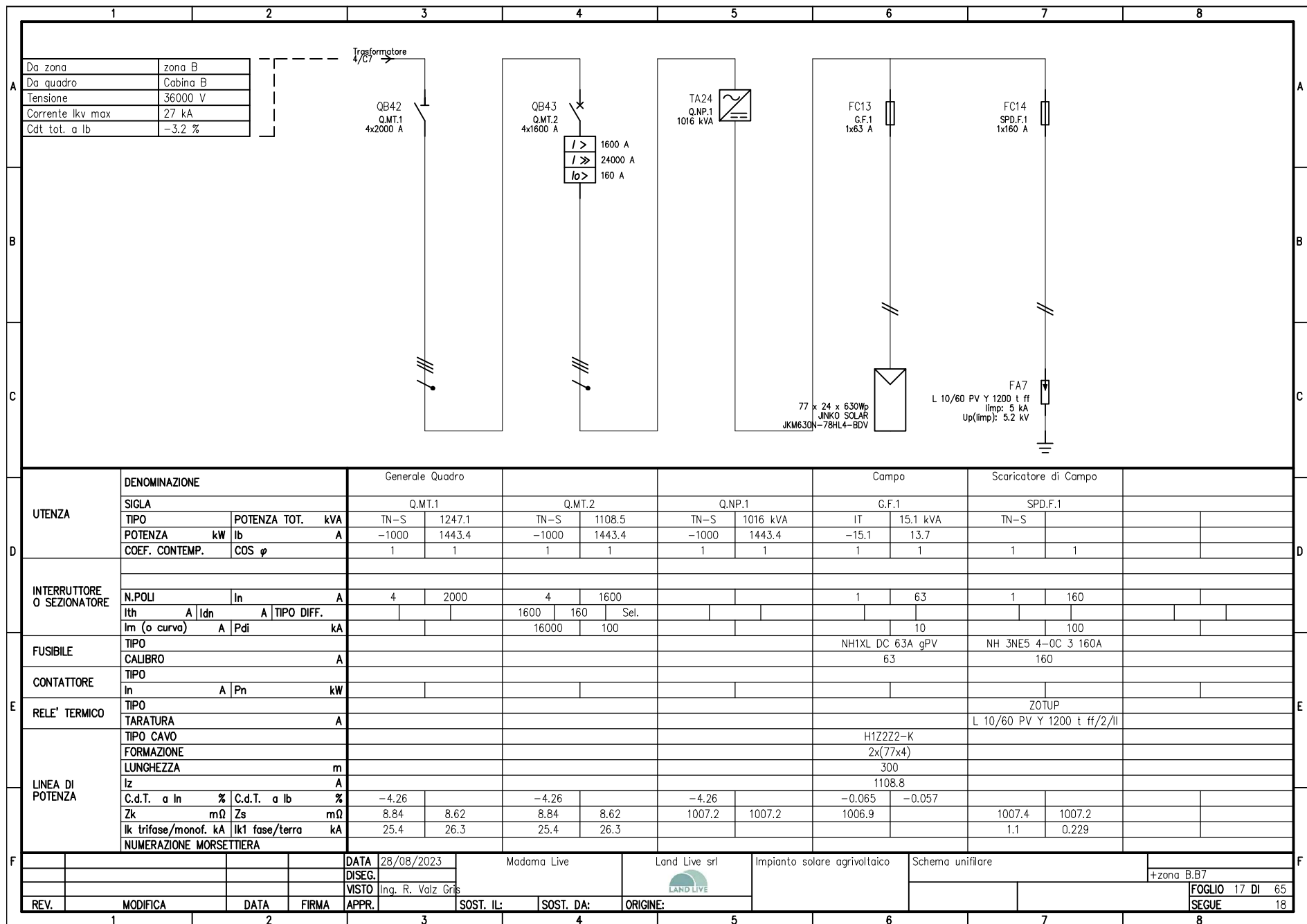


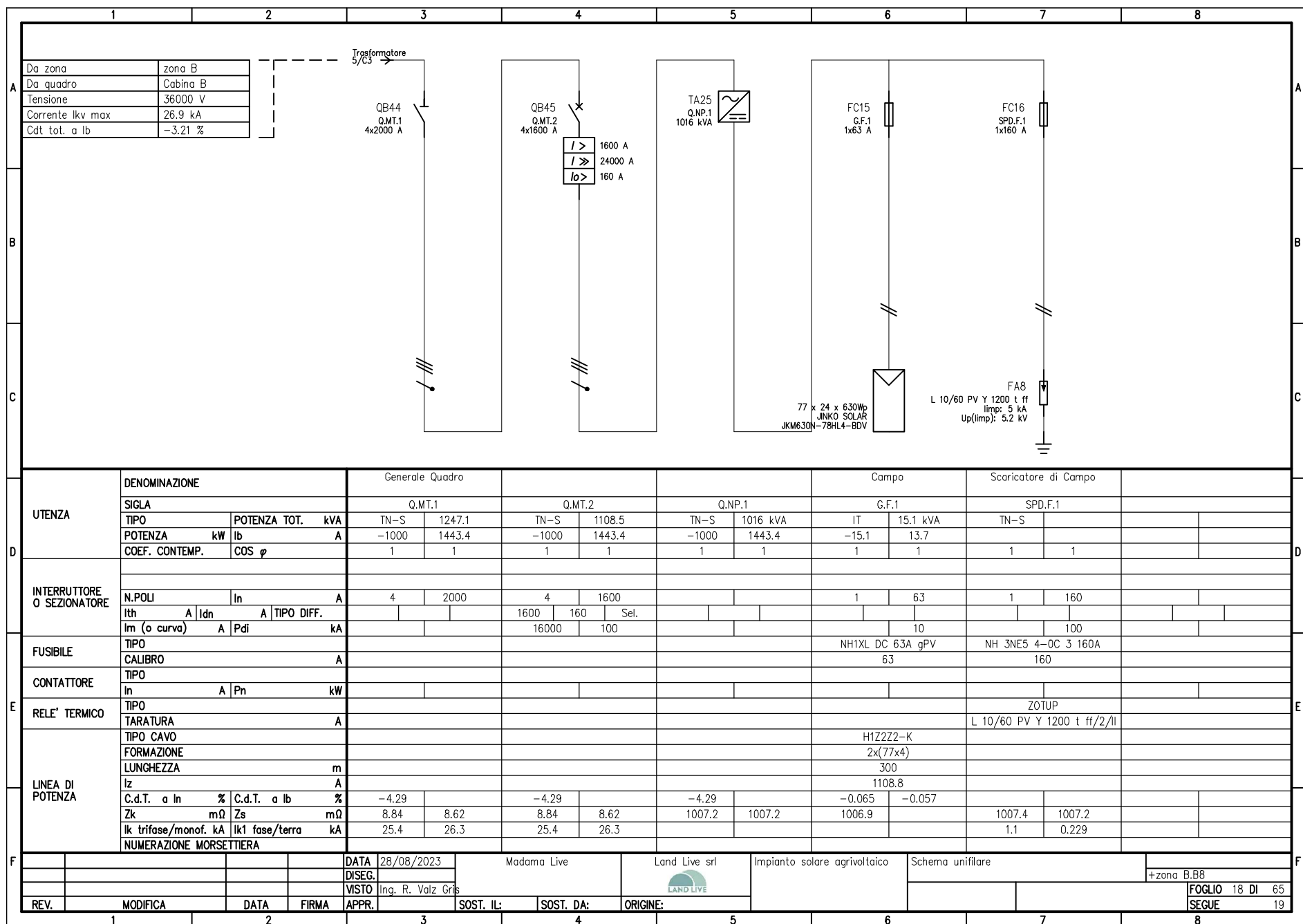


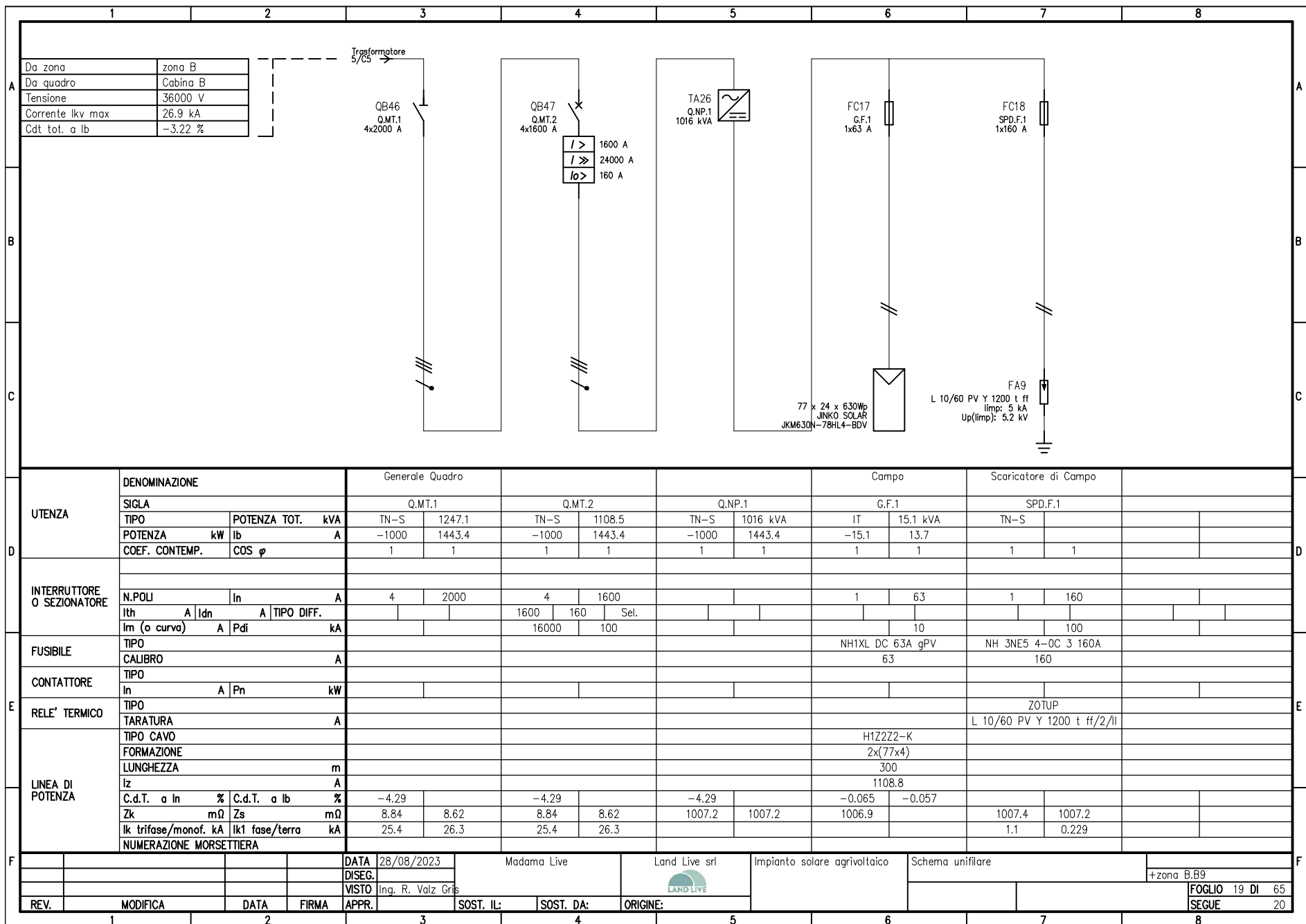


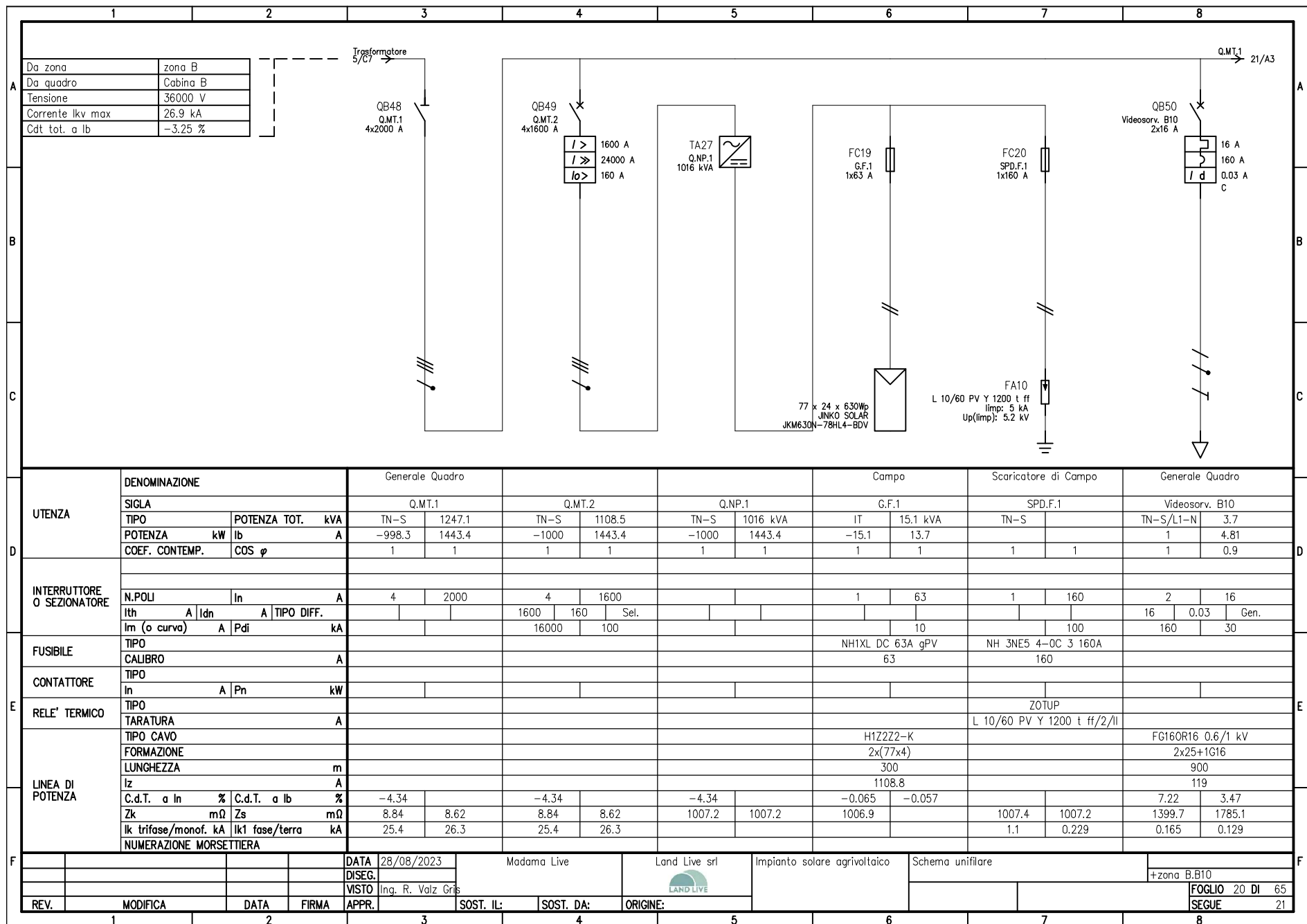
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B									B
C									C
D	UTENZA	DENOMINAZIONE		Generale Quadro					D
		SIGLA		III. perimetrale B5					
		TIPO	POTENZA TOT. kVA	TN-S/L1-N	3.7				
		POTENZA kW	Ib A	0.87	4.18				
		COEF. CONTEMP.	COS φ	1	0.9				
	INTERRUTTORE O SEZIONATORE	N.POLI		In A	2	16			
		Ith A	Idn A	TIPO DIFF.	16	0.03	Gen.		
		Im (o curva) A	Pdi kA		160	30			
	FUSIBILE	TIPO							
		CALIBRO		A					
	CONTATTORE	TIPO							
		In A	Pn kW						
E	RELE' TERMICO	TIPO							E
		TARATURA		A					
	LINEA DI POTENZA	TIPO CAVO		FG160R16 0.6/1 kV					
		FORMAZIONE		2x25+1G16					
		LUNGHEZZA		m		1100			
		Iz A				119			
		C.d.T. a In %	C.d.T. a Ib %	9.92	3.69				
		Zk mΩ	Zs mΩ	1710.1	2181.2				
		Ik trifase/monof. kA	Ik1 fase/terra kA	0.135	0.106				
	NUMERAZIONE MORSETTIERA								
F				DATA	28/08/2023	Modama Live	Land Live srl	Impianto solare agrivoltaico	F
				DISSEG.				Schema unifilare	+zona B.B5
				VISTO	Inq. R. Valz Gris				FOGLIO 15 DI 65
	REV.	MODIFICA	DATA	FIRMA	APPR.	SOST. IL:	SOST. DA:	ORIGINE:	SEGUE 16
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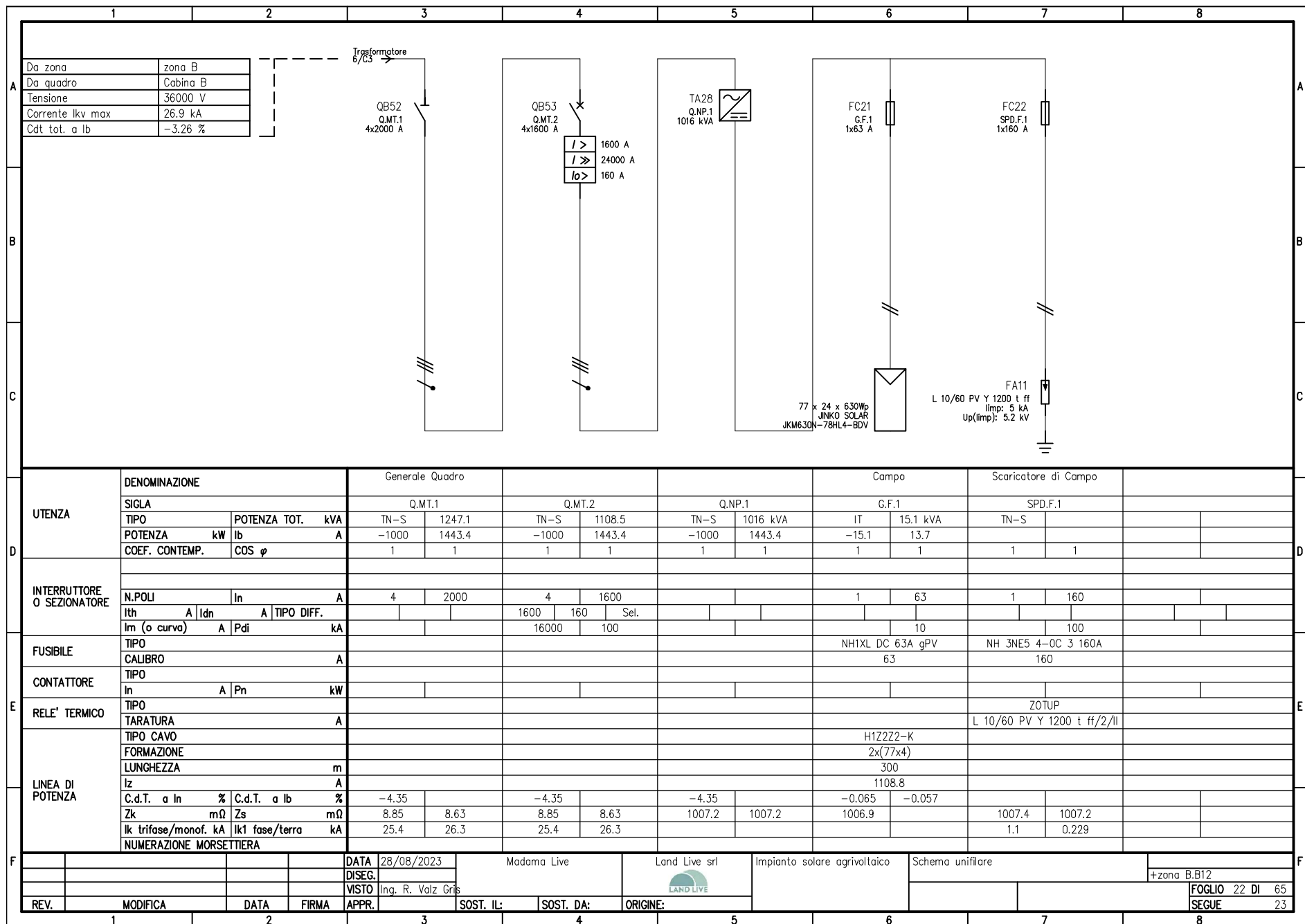


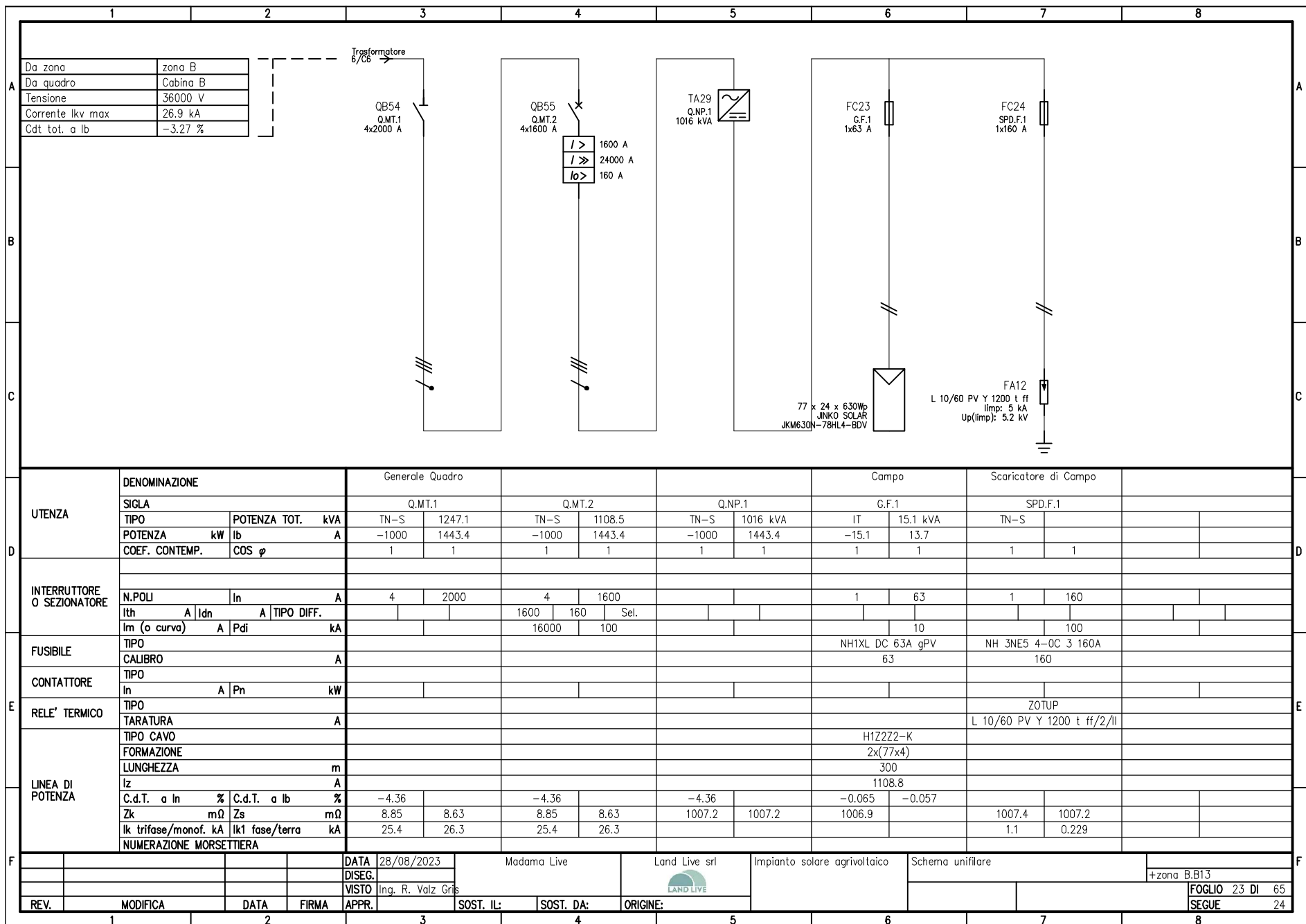


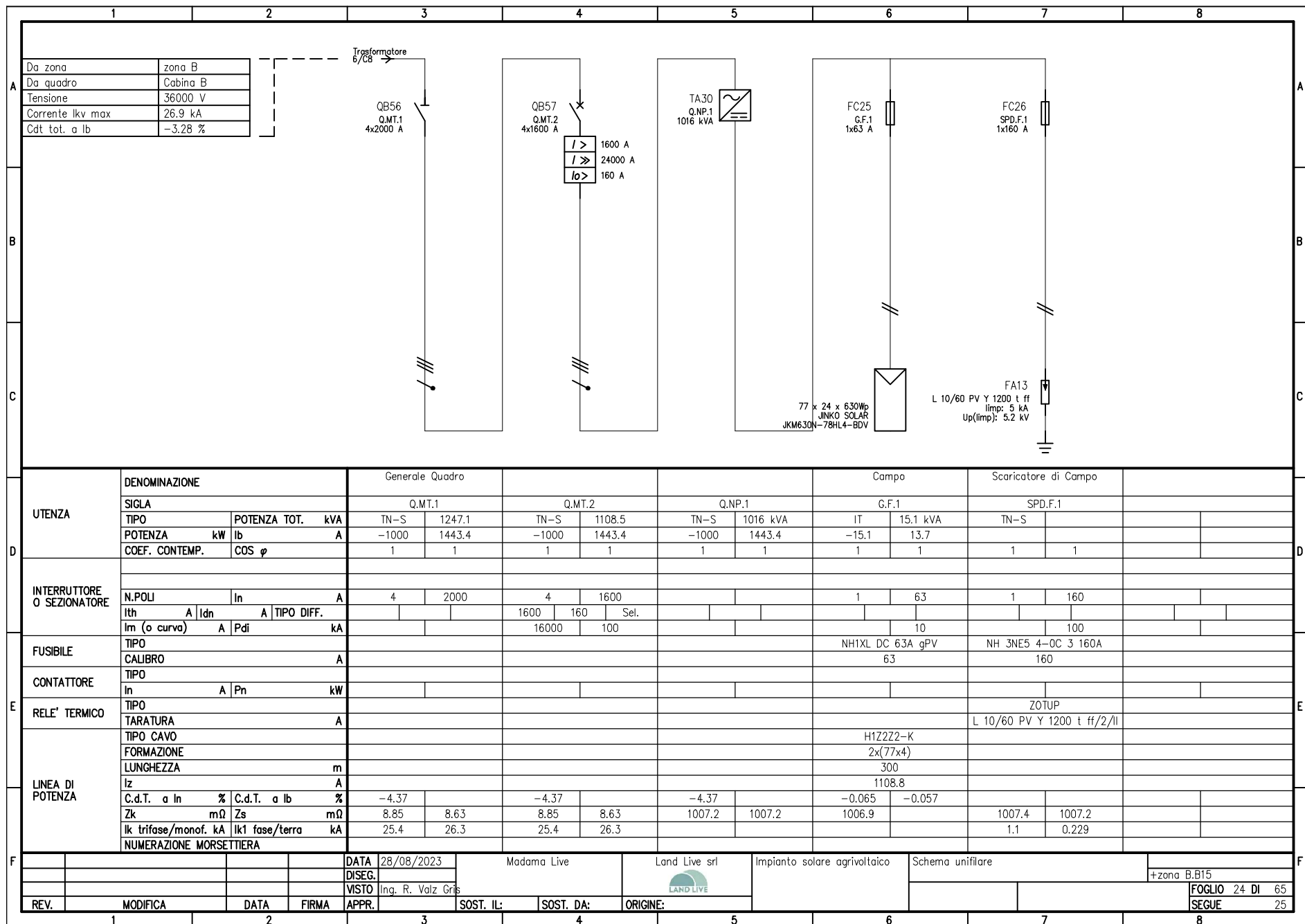


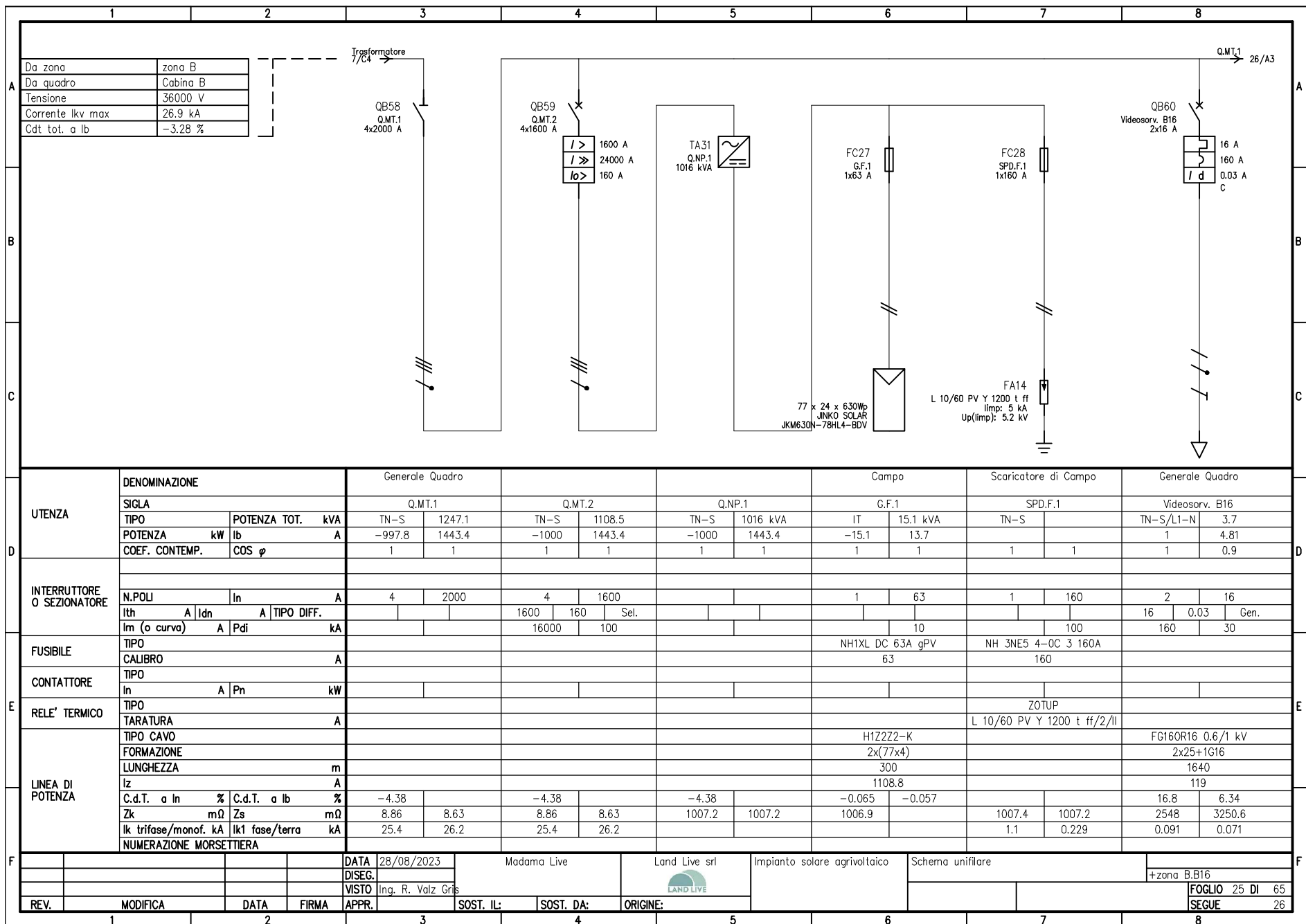


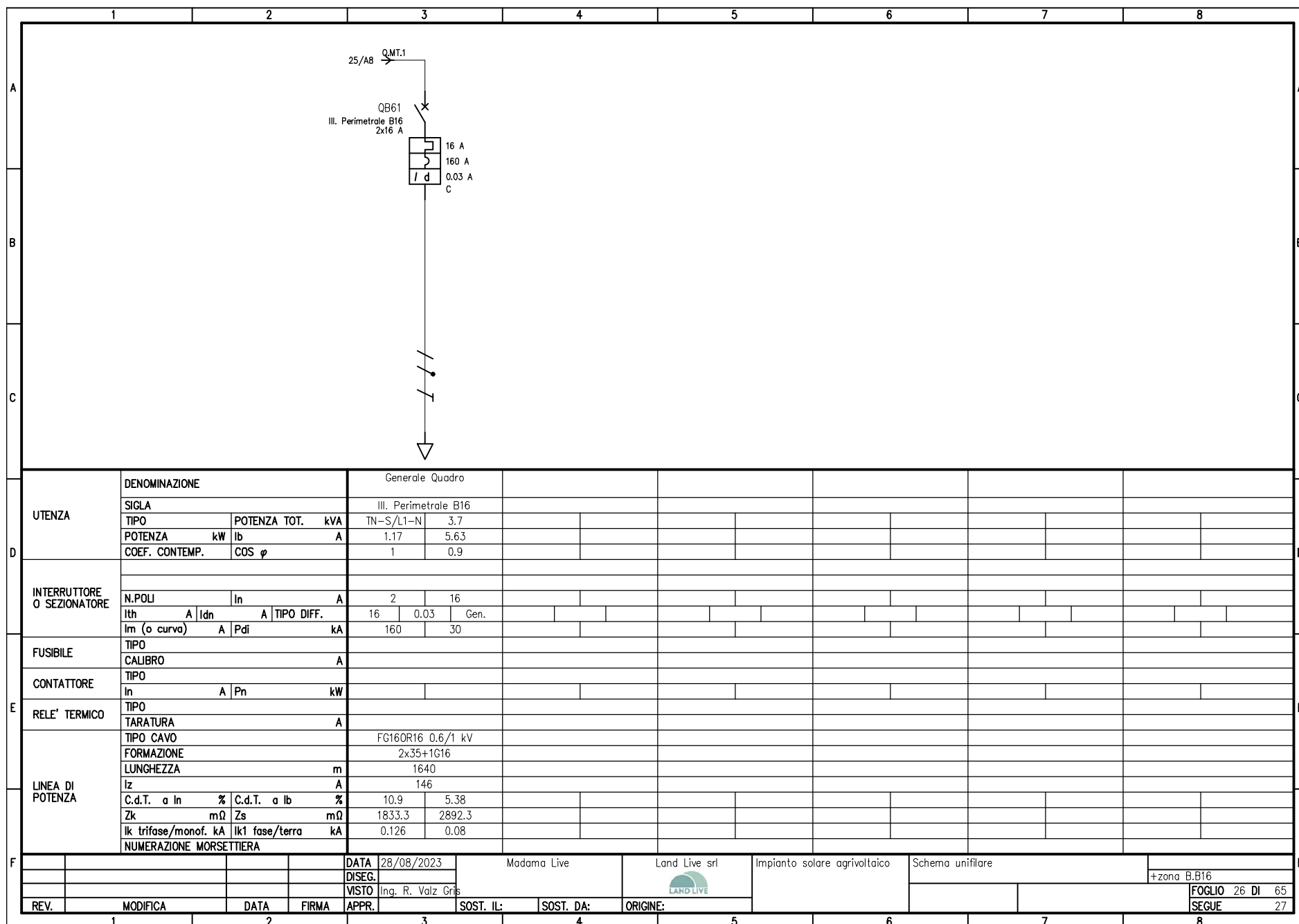
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B									B	
C									C	
D	UTENZA	DENOMINAZIONE		Generale Quadro					D	
		SIGLA		III. Perimetrale B10						
		TIPO	POTENZA TOT. kVA	TN-S/L1-N 3.7						
		POTENZA kW	Ib A	0.72 3.46						
		COEF. CONTEMP.	COS φ	1 0.9						
	INTERRUTTORE O SEZIONATORE	N.POLI		In A	2 16					
		Ith A	Idn A	TIPO DIFF.	16 0.03 Gen.					
		Im (o curva) A	Pdi kA	160 30						
	FUSIBILE	TIPO								
		CALIBRO		A						
	CONTATTORE	TIPO								
		In A	Pn kW							
E	RELE' TERMICO	TIPO							E	
		TARATURA		A						
	LINEA DI POTENZA	TIPO CAVO		FG160R16 0.6/1 kV						
		FORMAZIONE		2x25+1G16						
		LUNGHEZZA		m 900						
		Iz A	119							
		C.d.T. a In %	C.d.T. a Ib %	7.22 2.5						
		Zk mΩ	Zs mΩ	1399.7 1785.1						
		Ik trifase/monof. kA	Ik1 fase/terra kA	0.165 0.129						
	NUMERAZIONE MORSETTIERA									
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				DISSEG.					+zona B.B10	
				VISTO	Inq. R. Valz Gris					
	REV.	MODIFICA	DATA	FIRMA	APPR.	SOST. IL:	SOST. DA:	ORIGINE:		FOGLIO 21 DI 65
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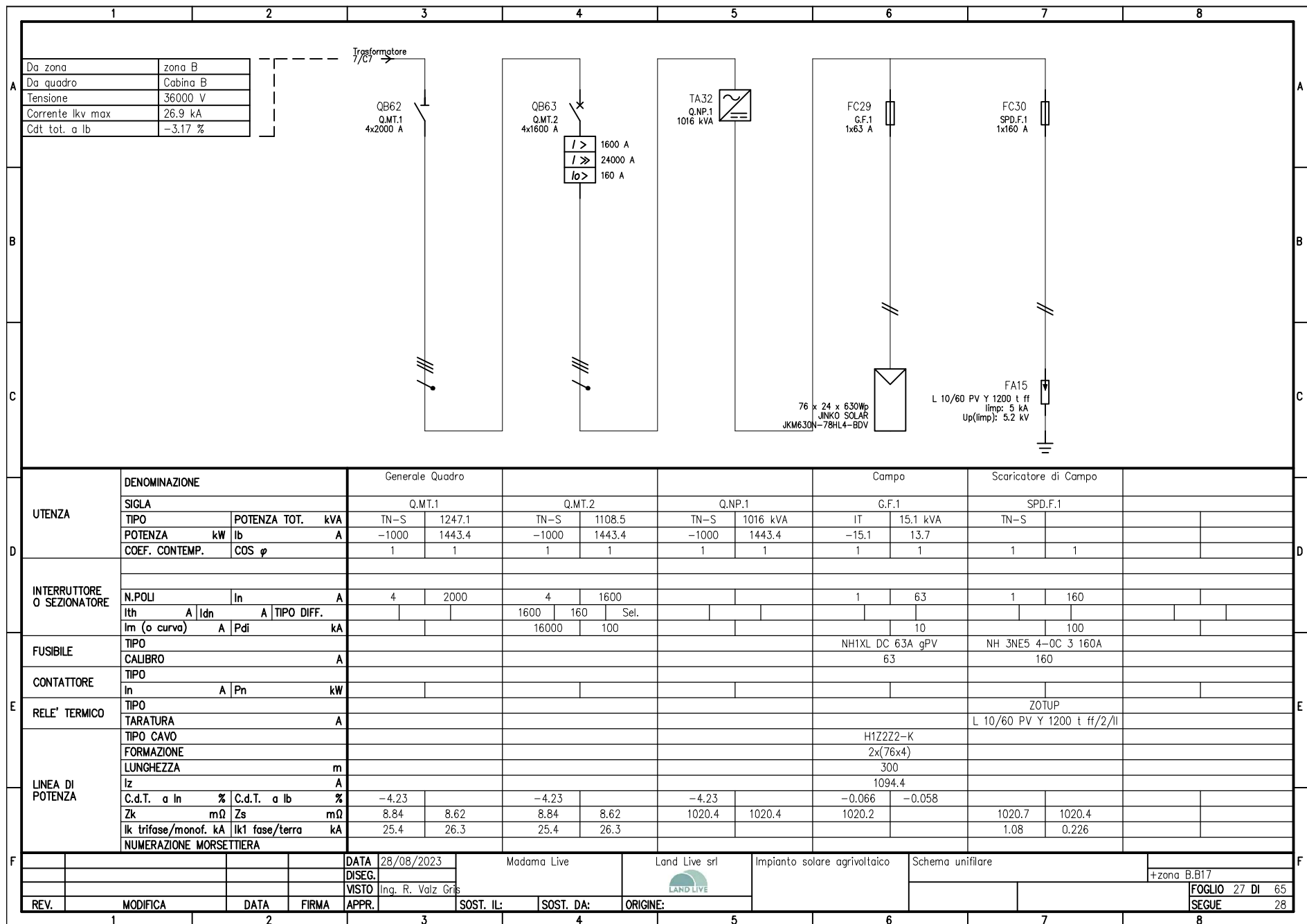


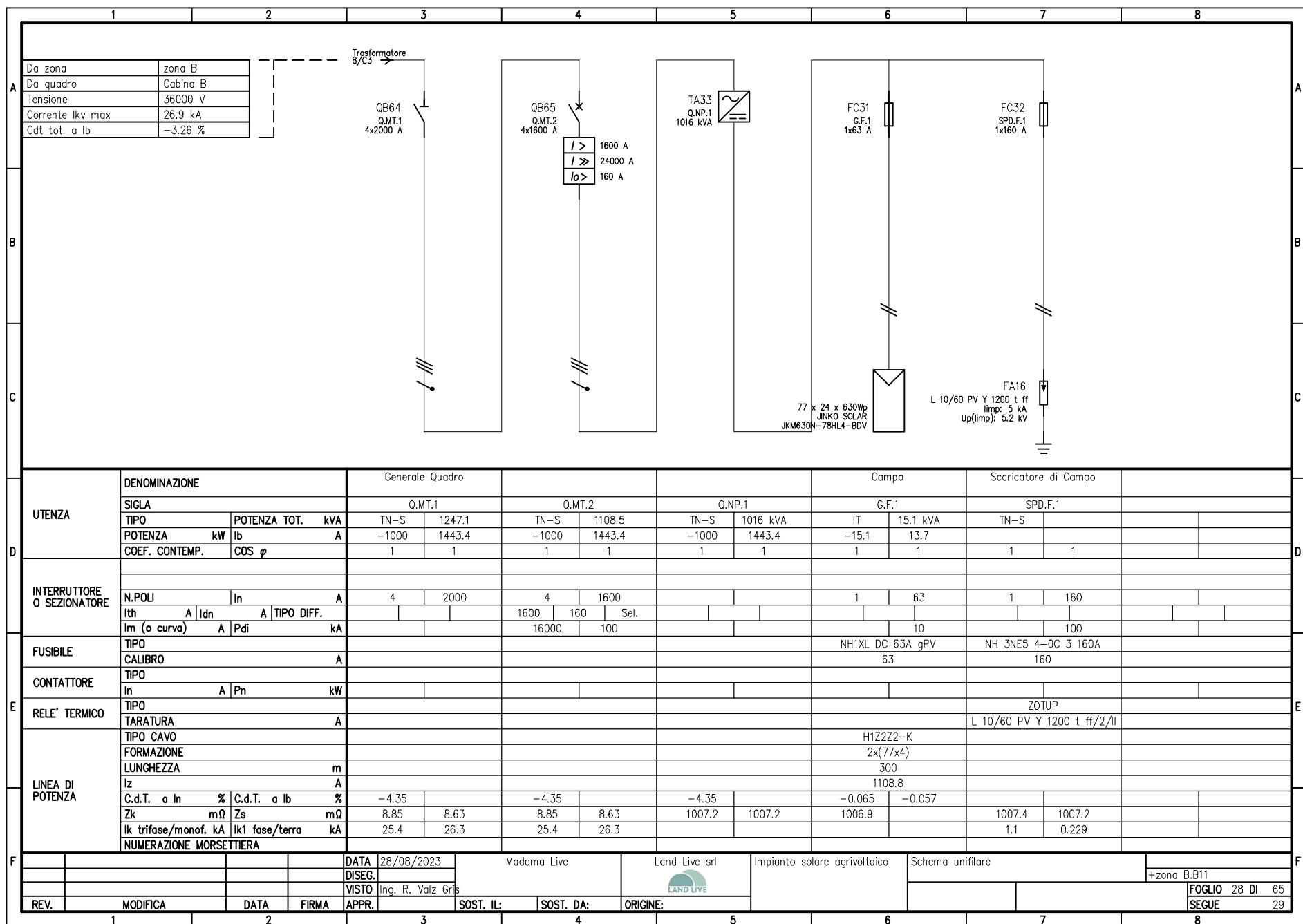


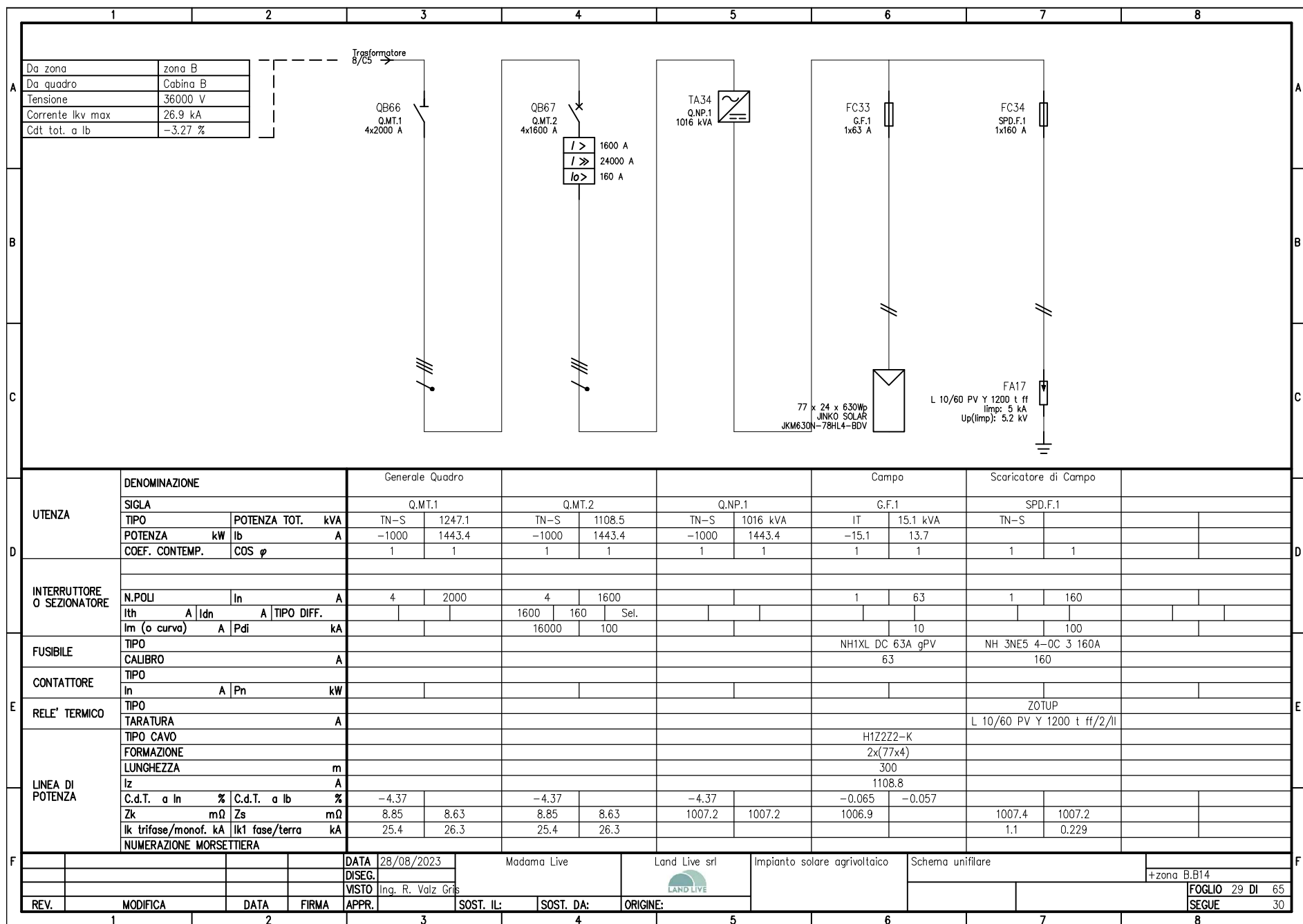


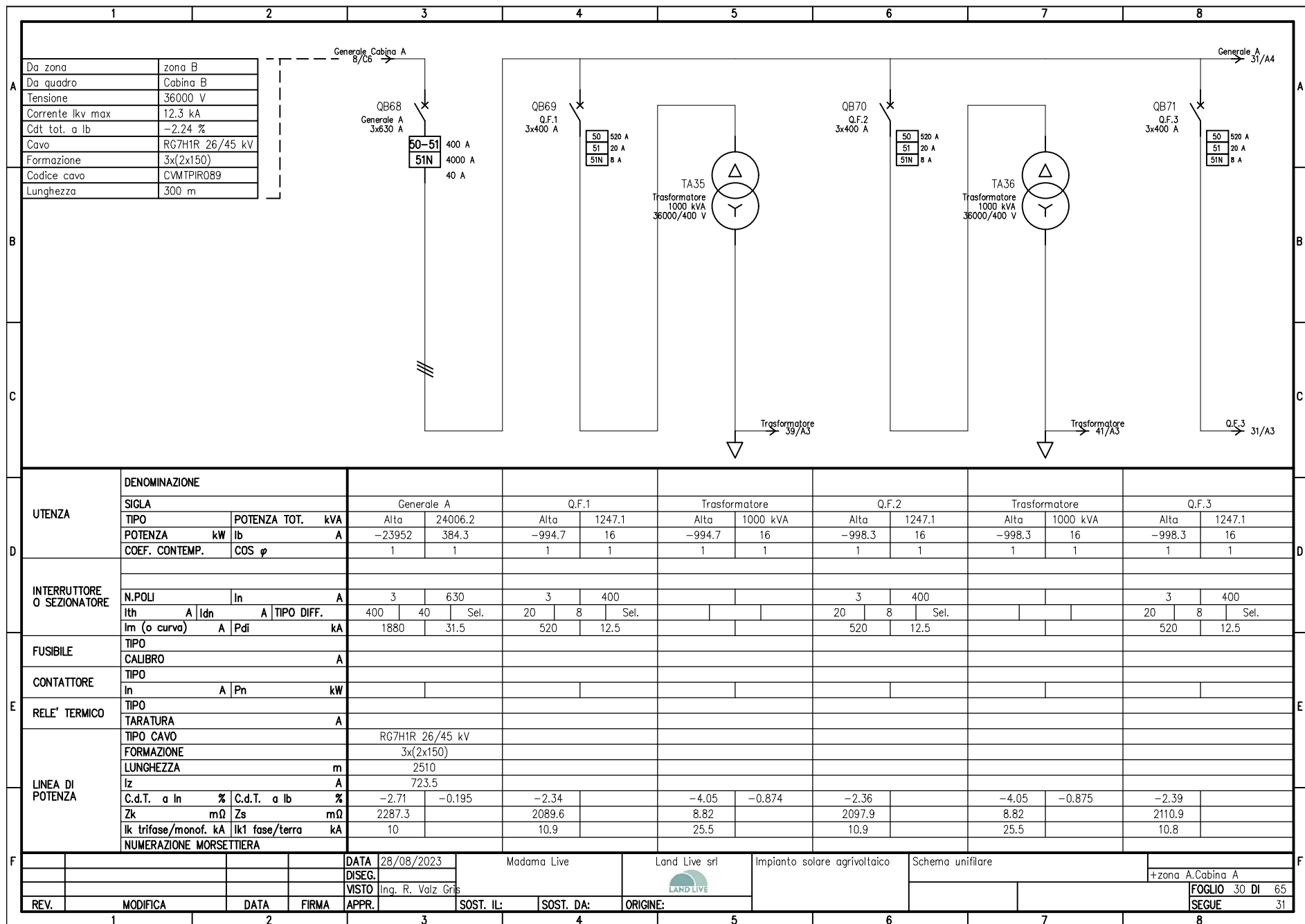


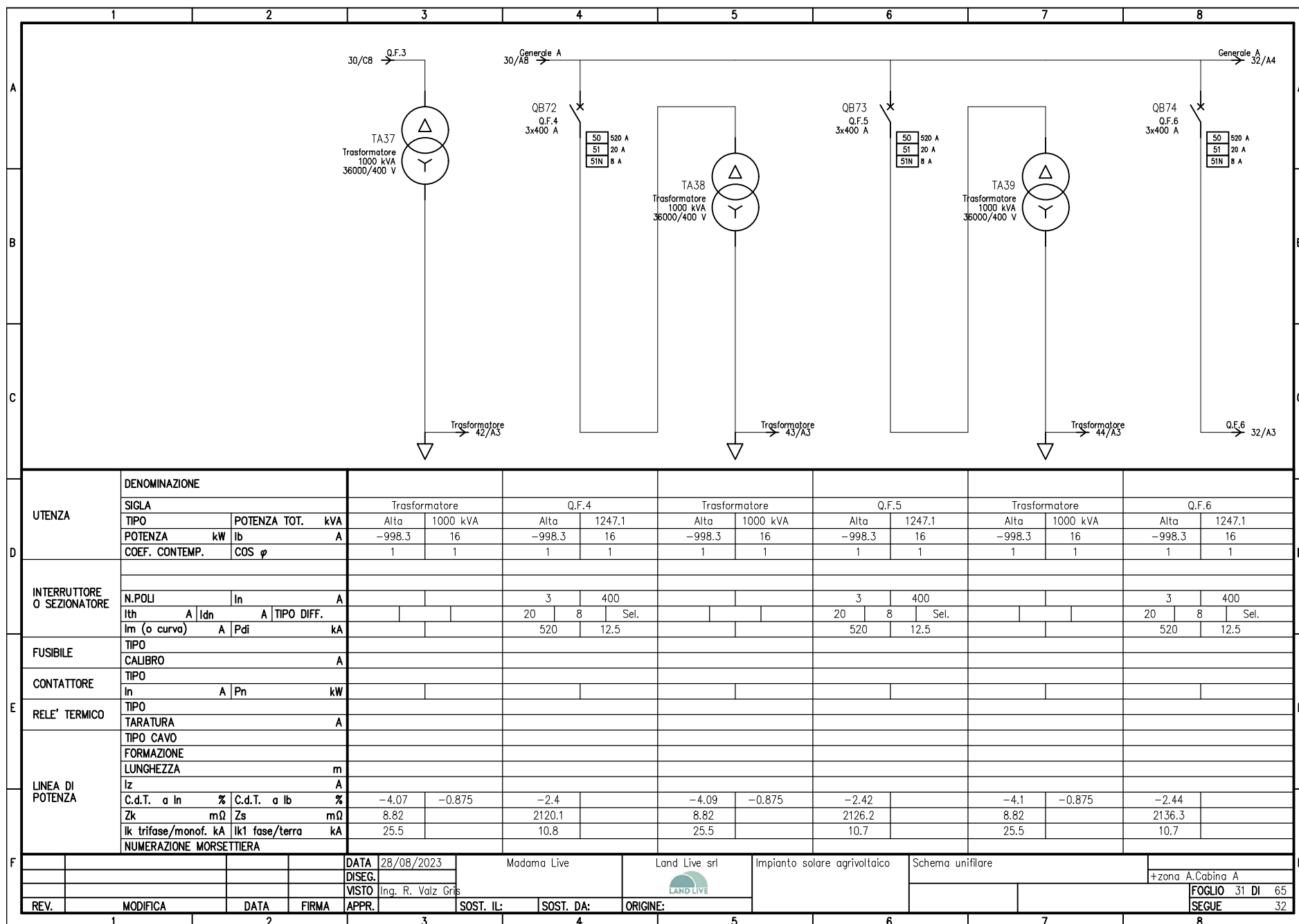


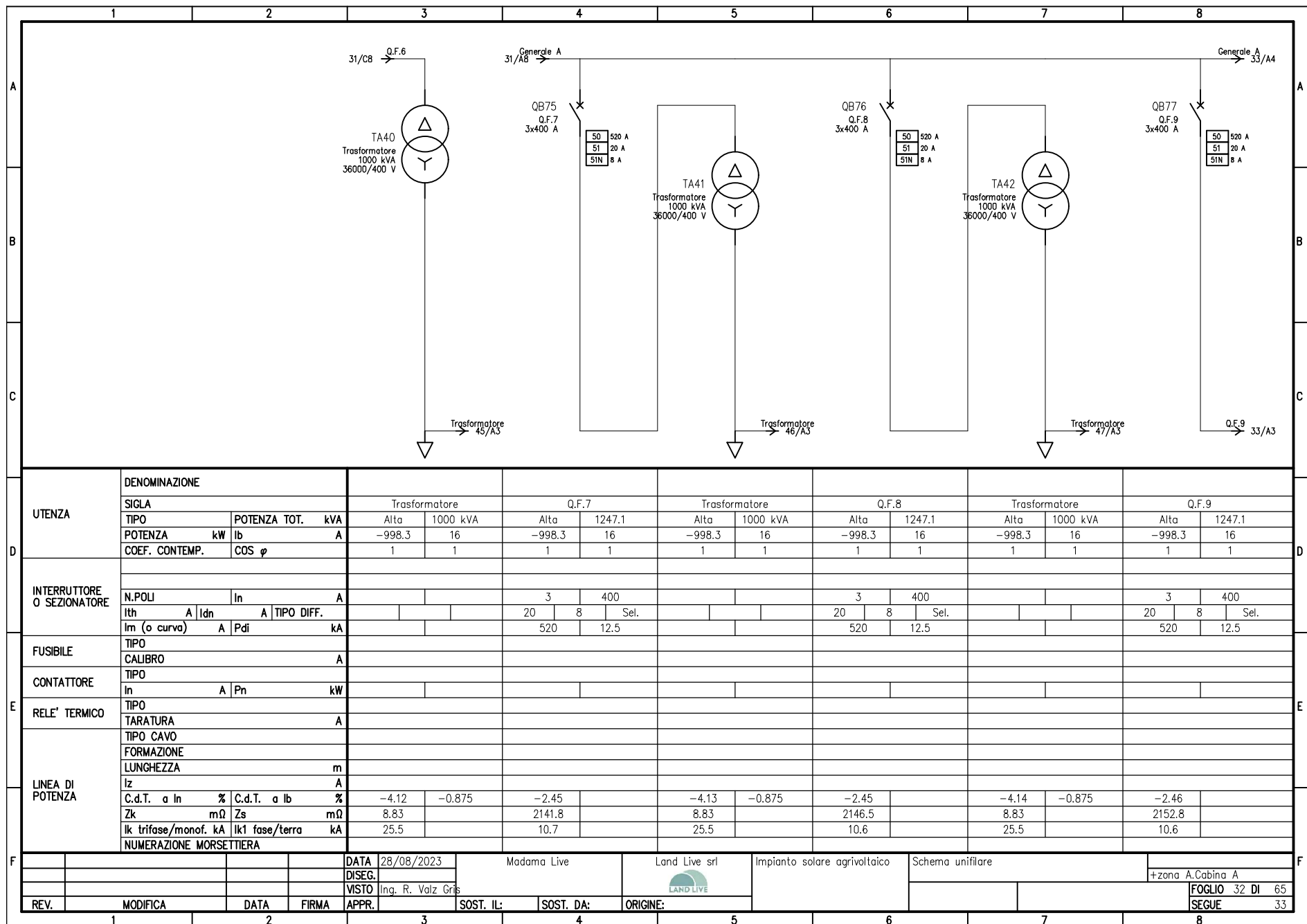


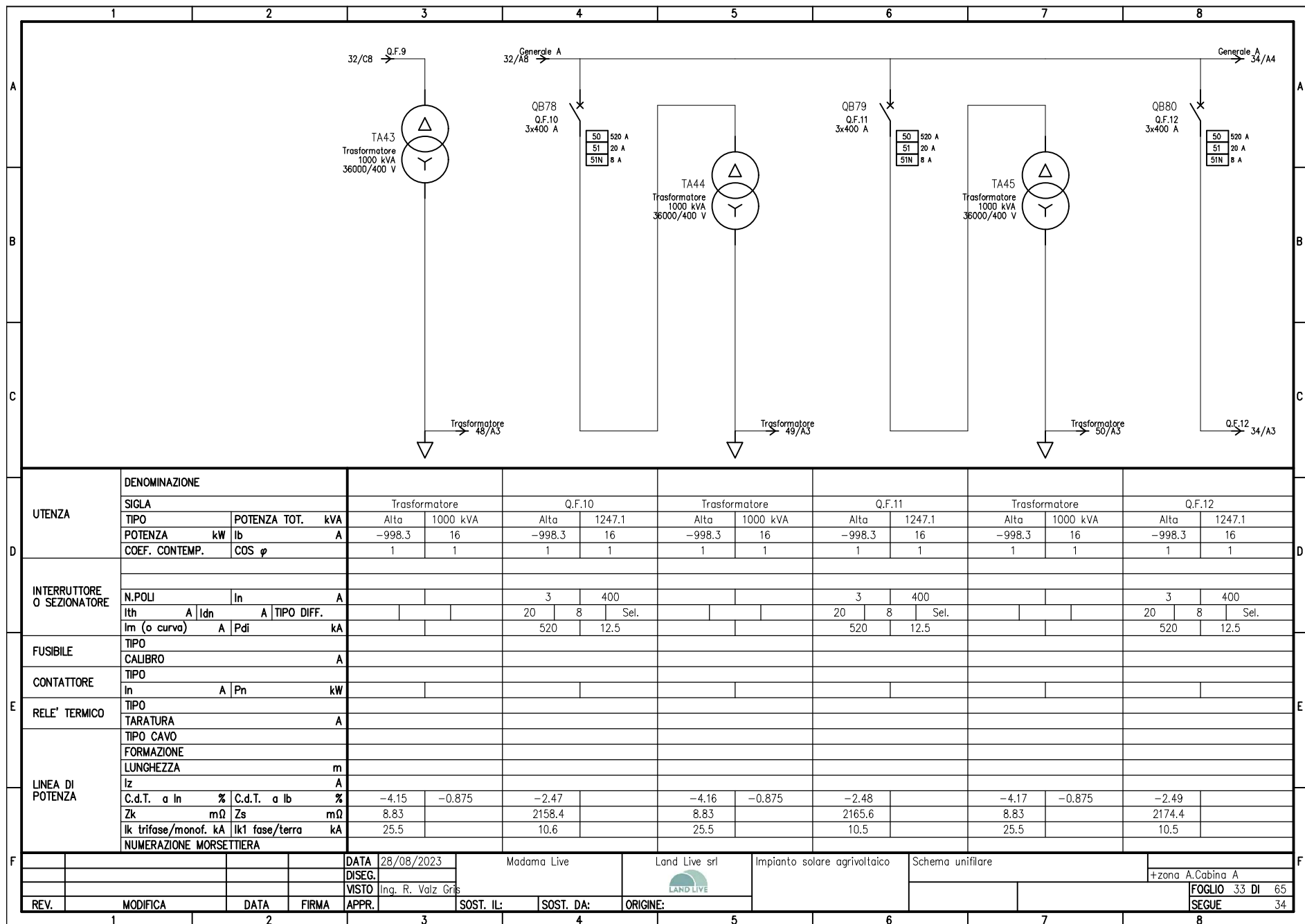


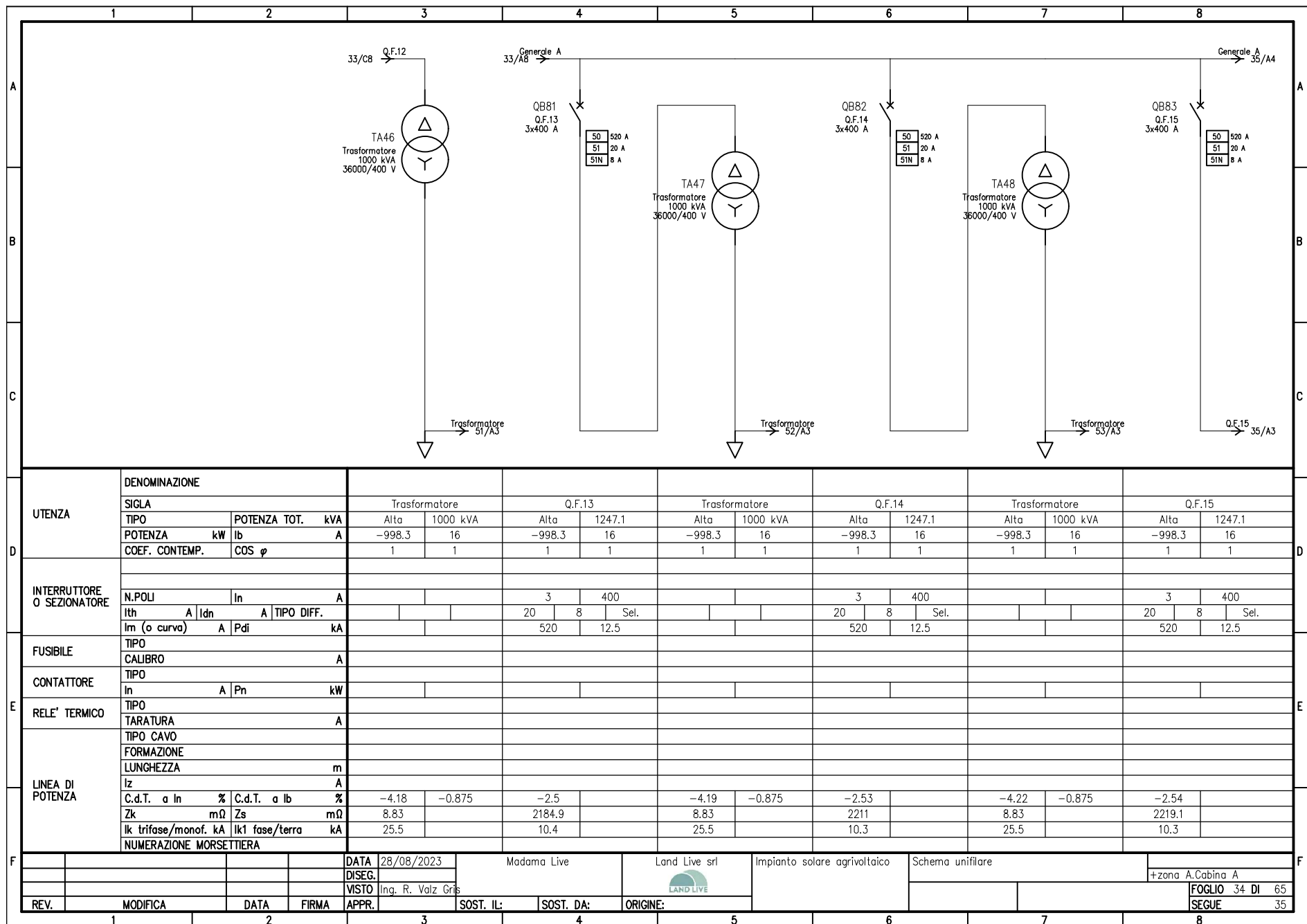


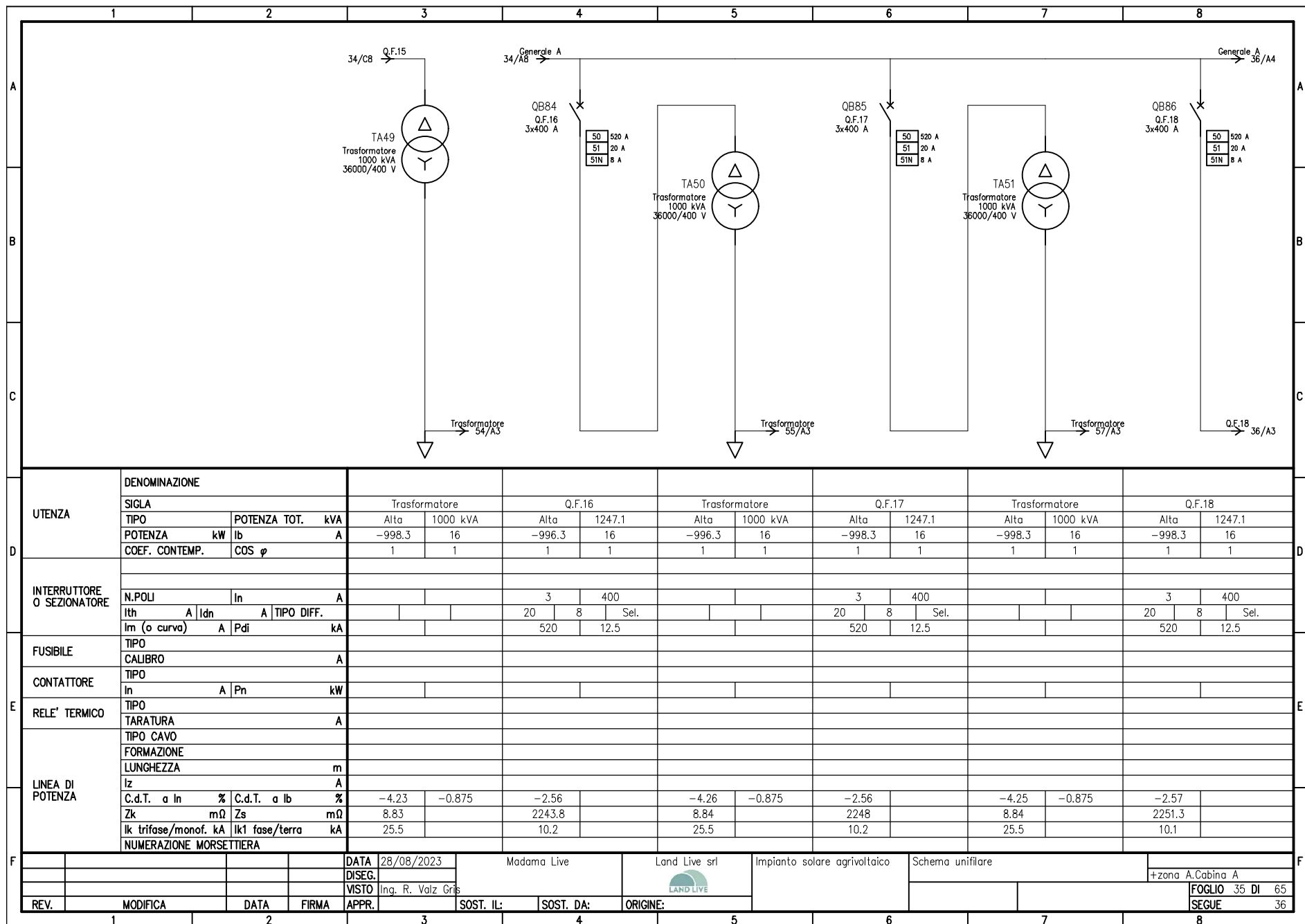


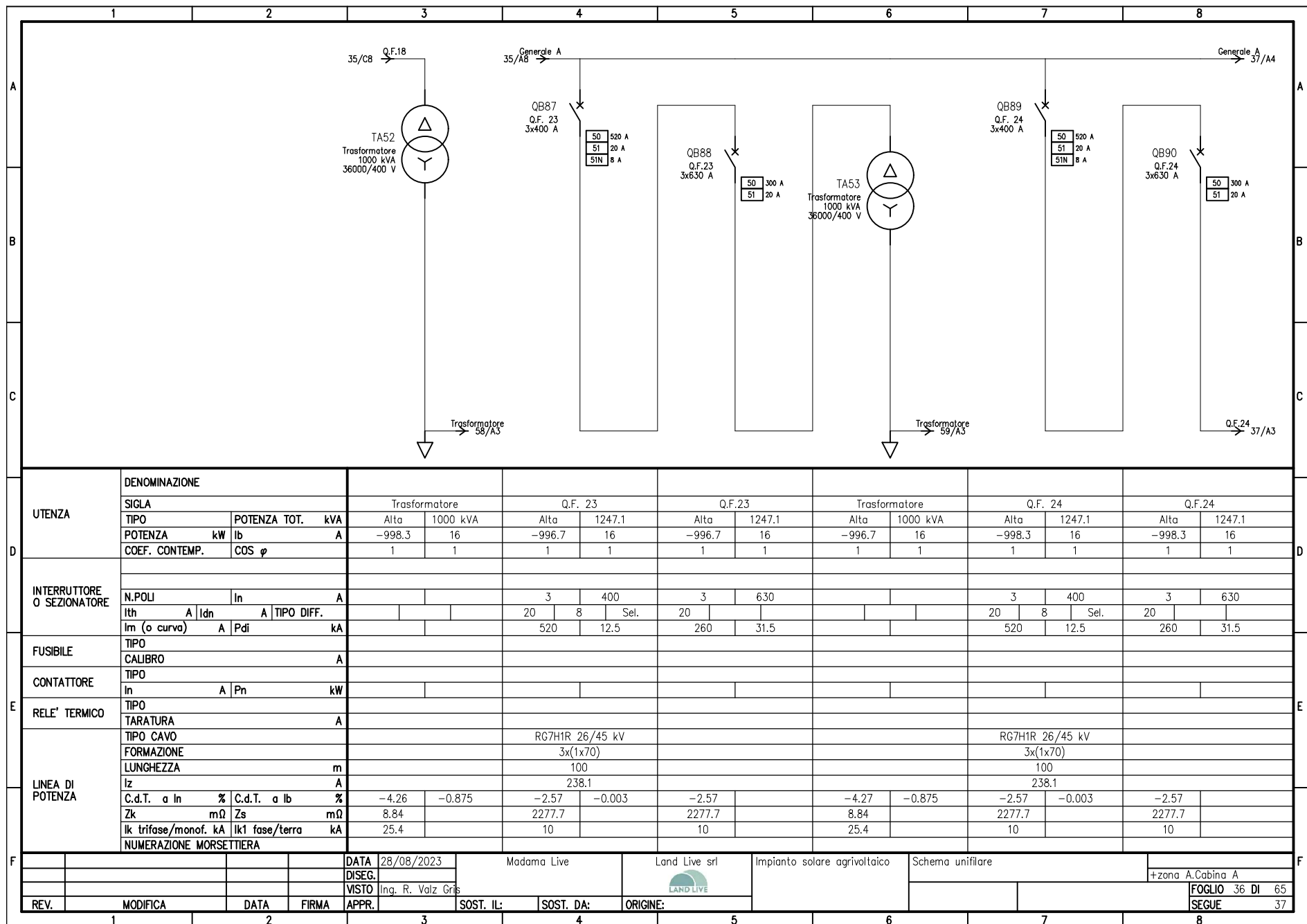


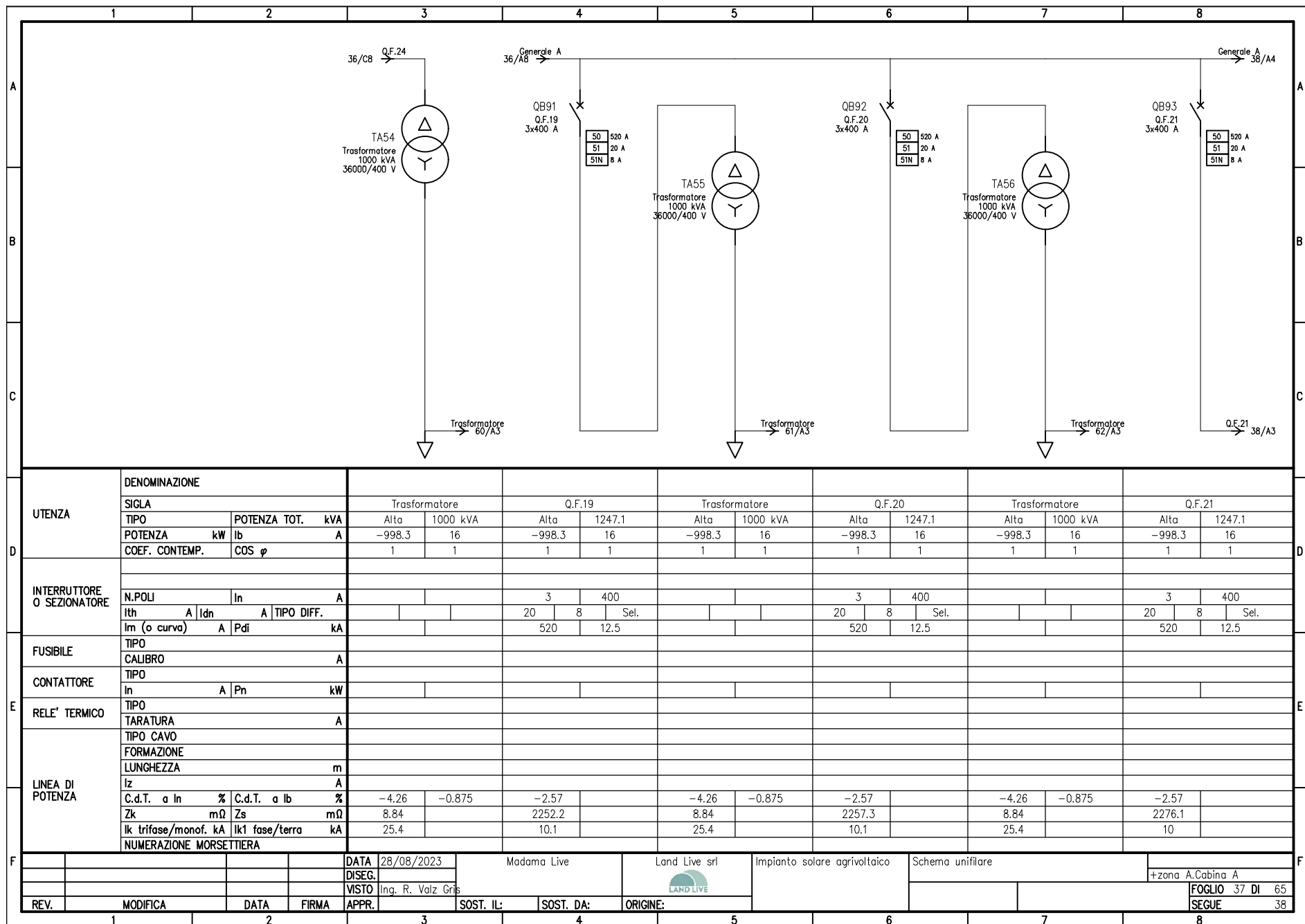


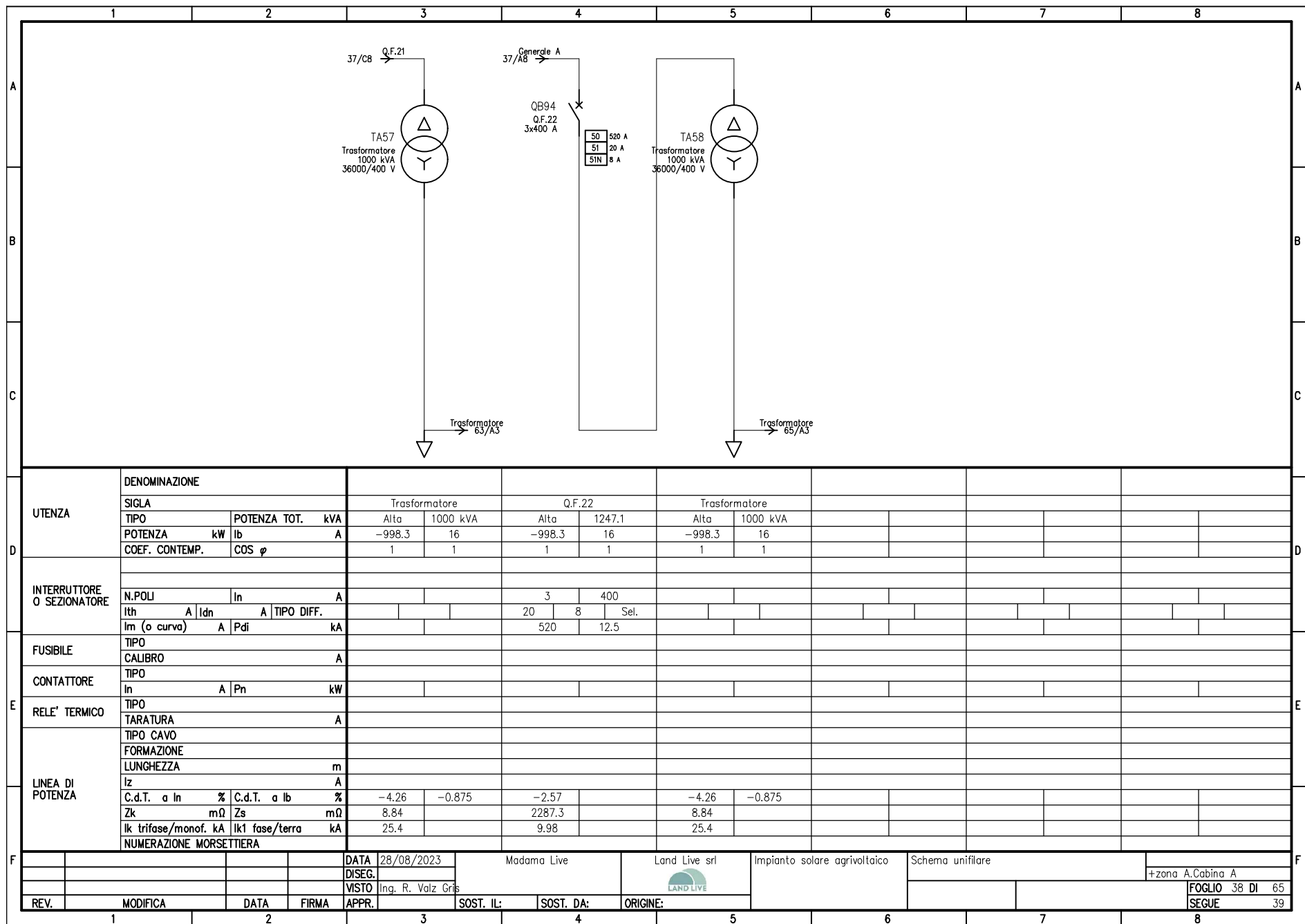


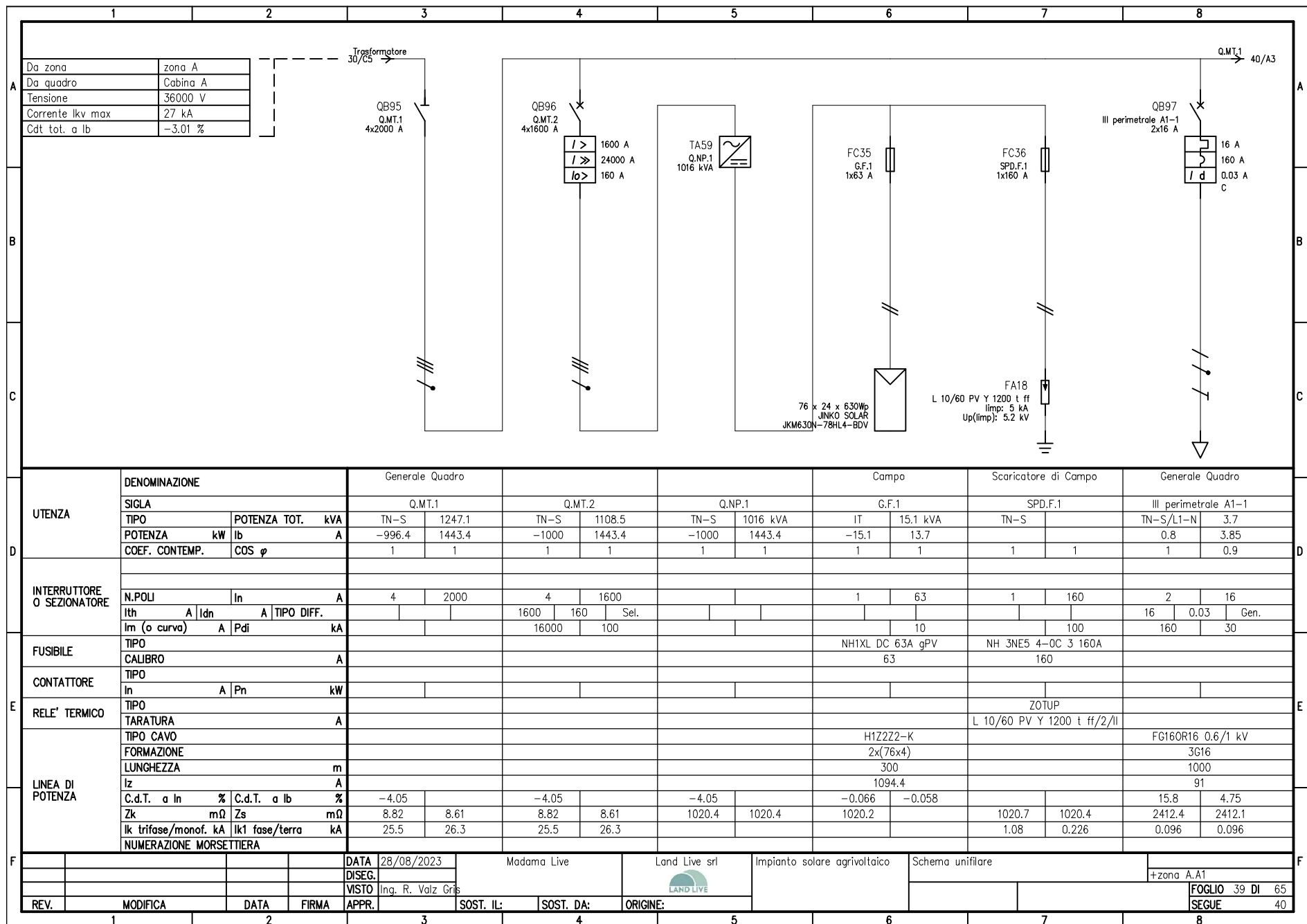




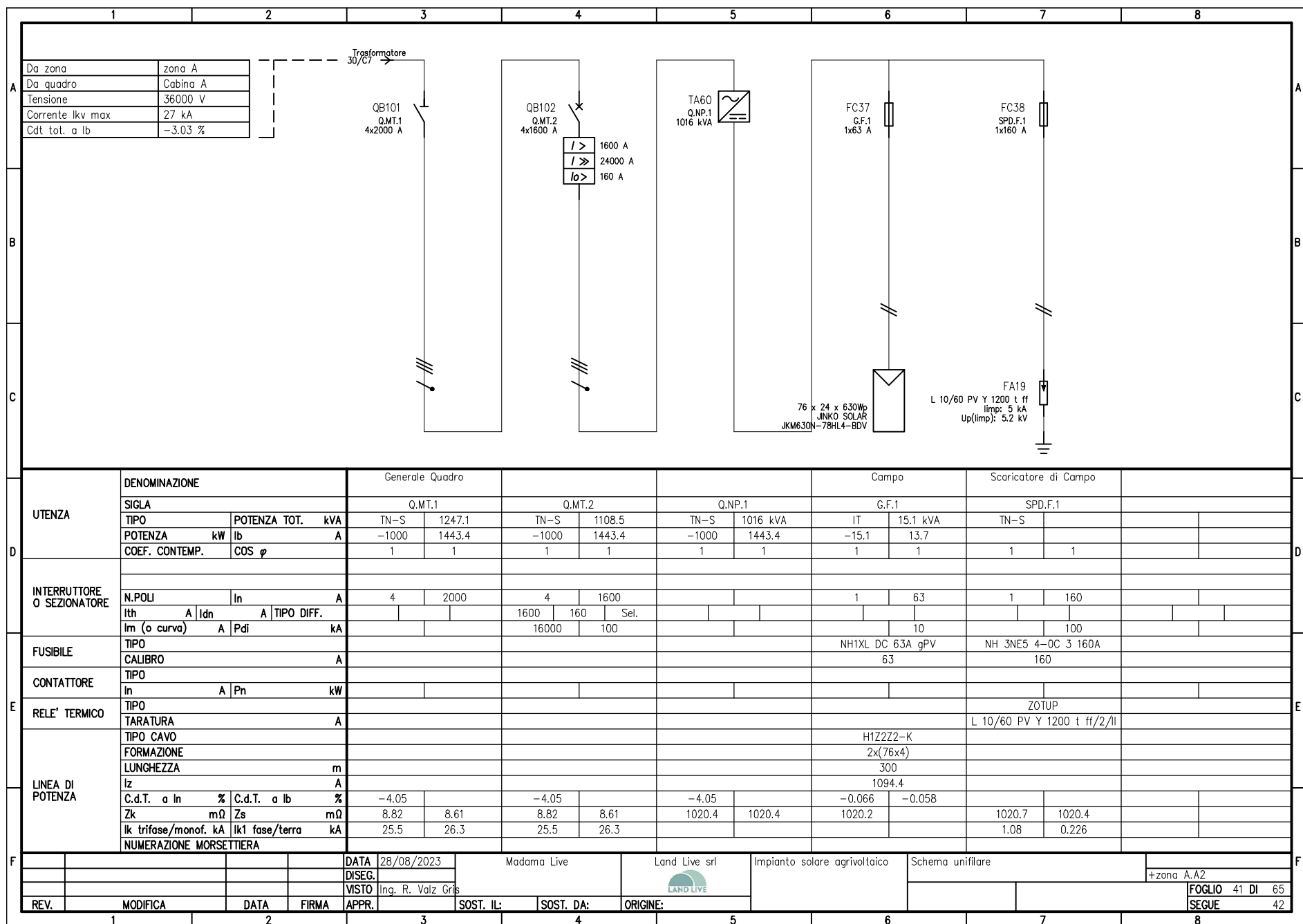


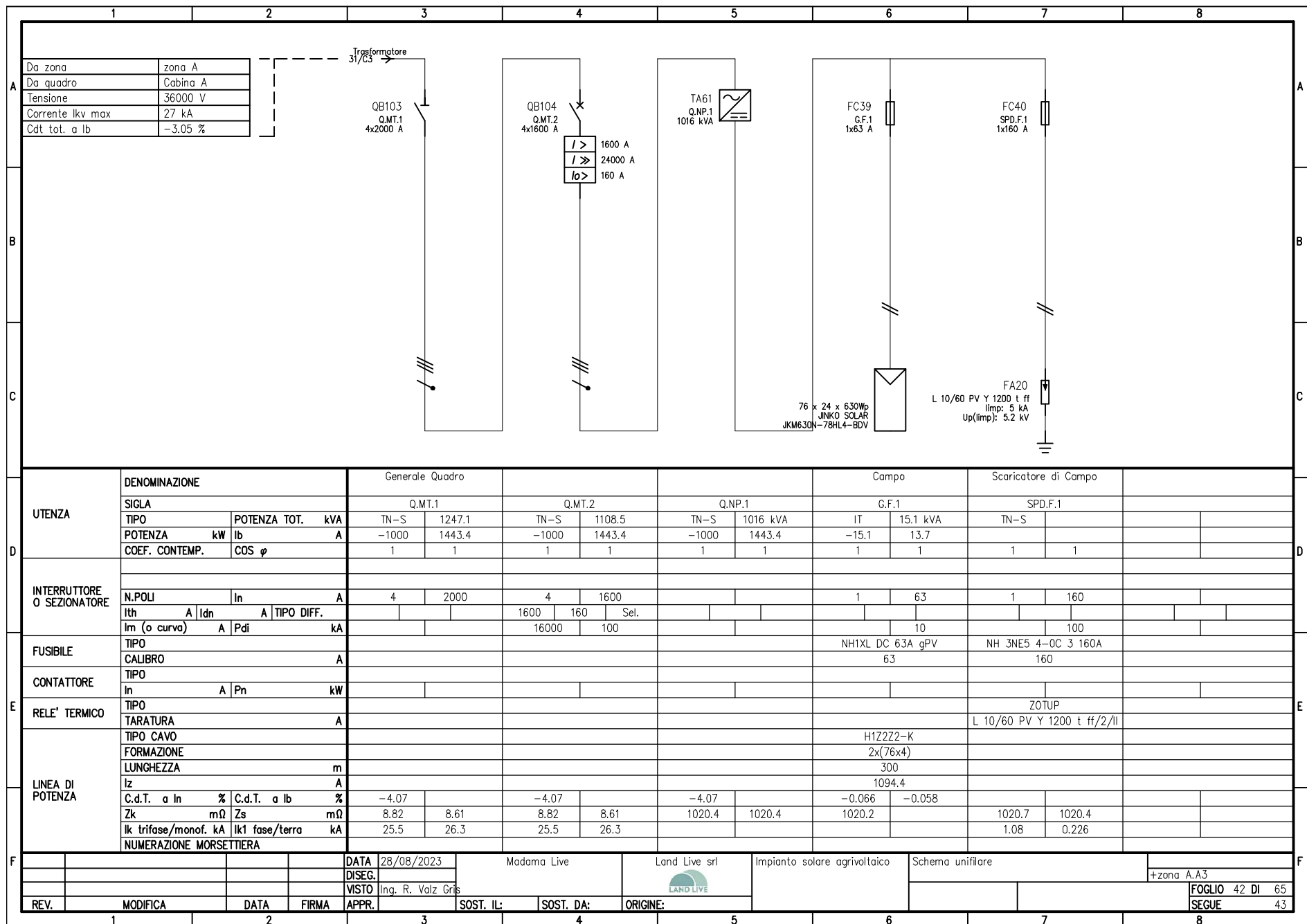


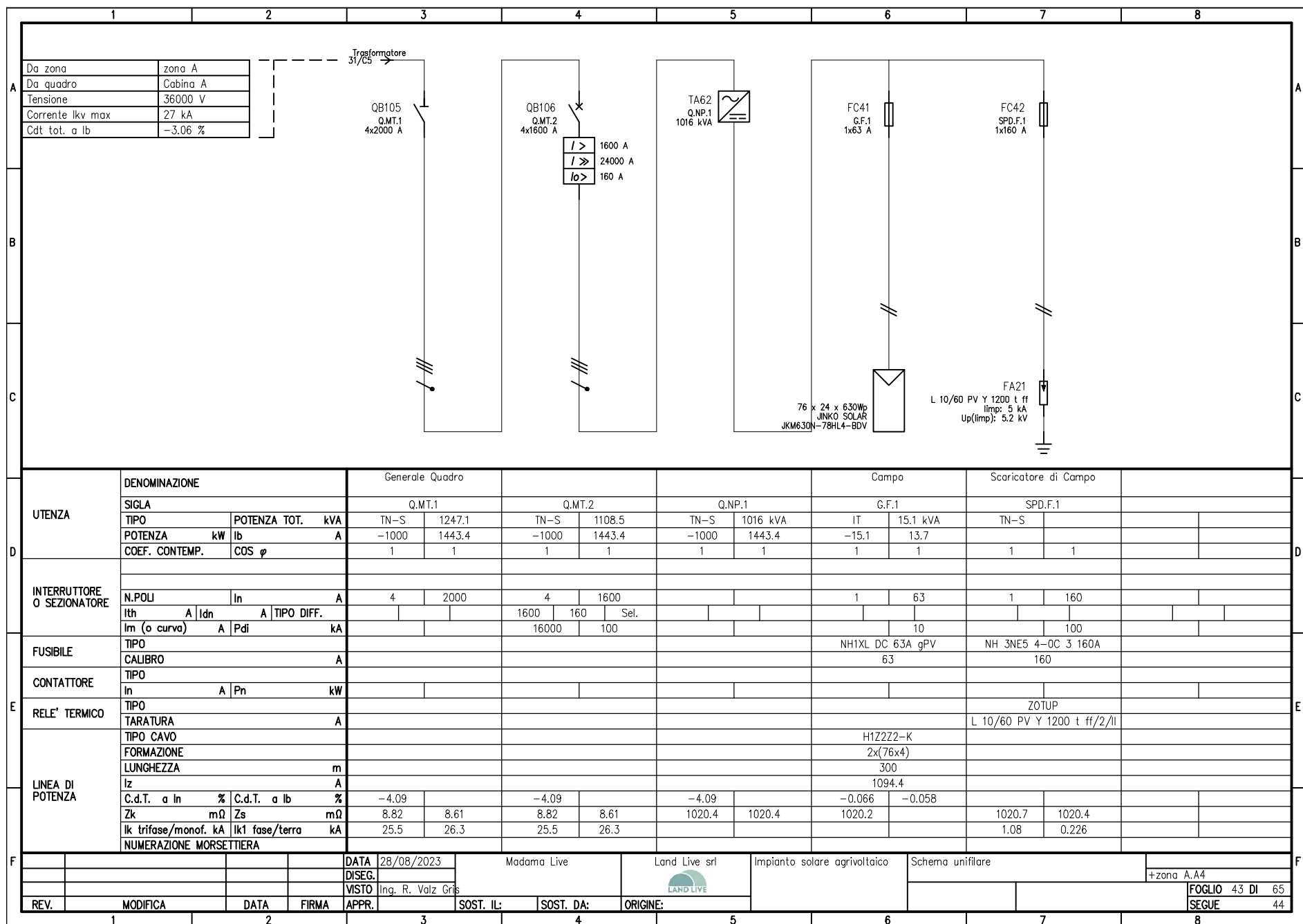


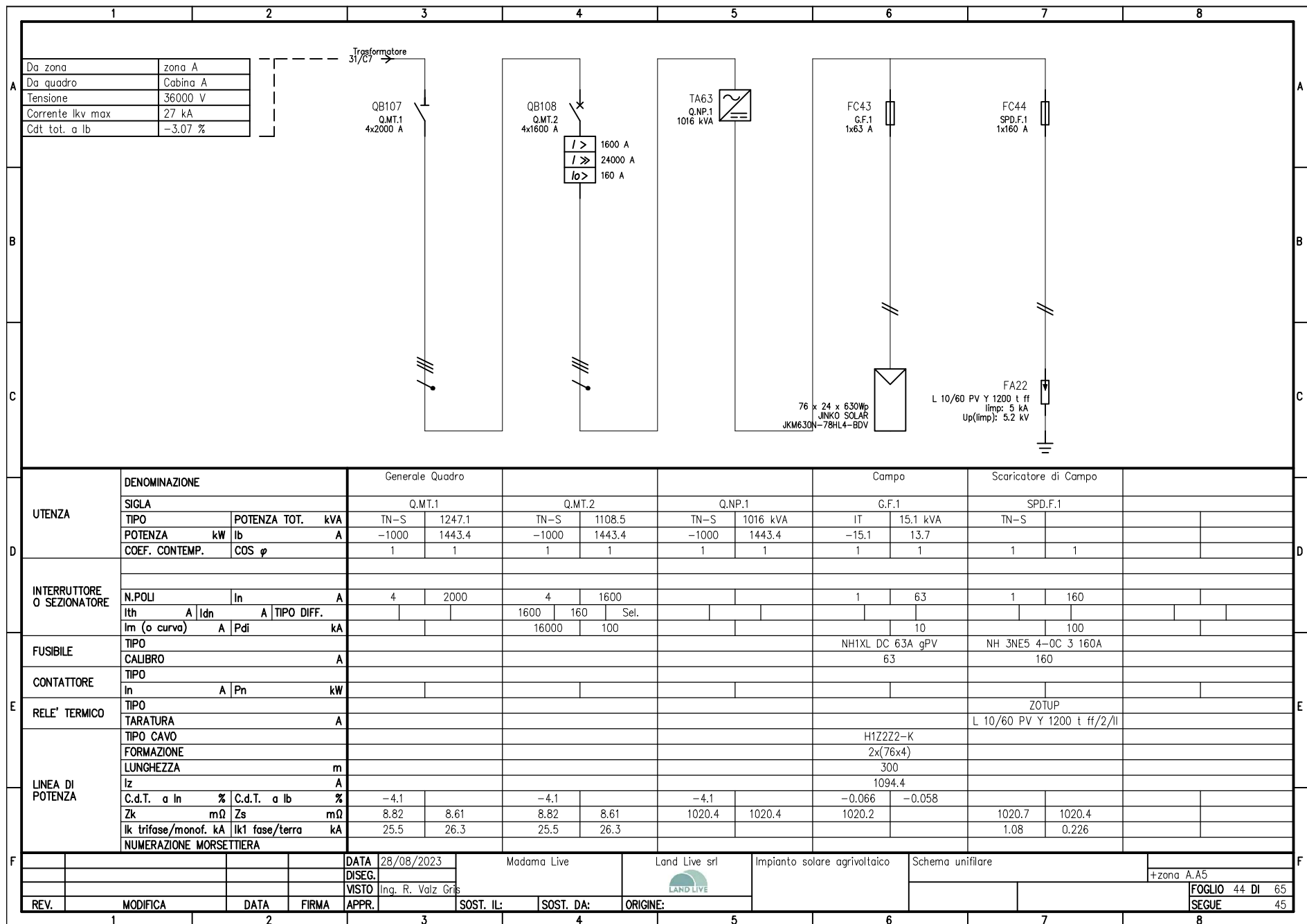


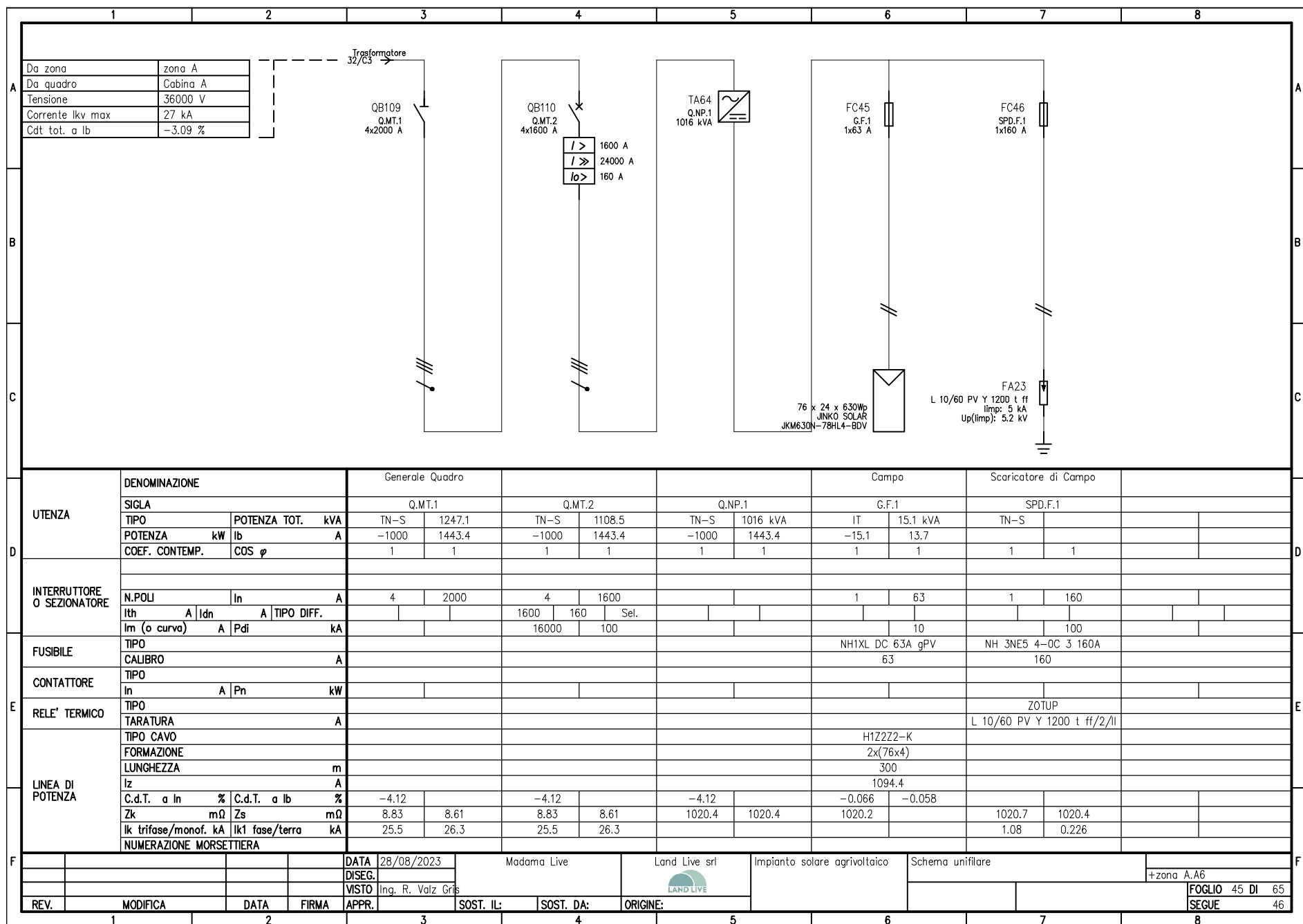
	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D	UTENZA DENOMINAZIONE SIGLA TIPO POTENZA TOT. kVA POTENZA kW Ib A COEF. CONTEMP. COS φ		Generale Quadro Ill. perim. A1-2 TN-S/L1-N 3.7 0.8 3.85 1 0.9		Generale Quadro Videosorv. A1-1 TN-S/L1-N 3.7 1 4.81 1 0.9		Generale Quadro Videosorv. A1-2 TN-S/L1-N 3.7 1 4.81 1 0.9		D
E	INTERRUTTORE O SEZIONATORE N.POLI In A Ith A Idn A TIPO DIFF. Im (o curva) A Pdi kA		2 16 16 0.03 Gen. 160 30		2 16 16 0.03 Gen. 160 30		2 16 16 0.03 Gen. 160 30		E
F	FUSIBILE TIPO CALIBRO A								F
	CONTATTORE TIPO In A Pn kW								
	RELE' TERMICO TIPO TARATURA A								
	LINEA DI POTENZA TIPO CAVO FORMAZIONE LUNGHEZZA m Iz A C.d.T. a In % C.d.T. a Ib % Zk mΩ Zs mΩ Ik trifase/monof. kA Ik1 fase/terra kA NUMERAZIONE MORSETTIERA		FG16OR16 0.6/1 kV 3G16 950 91 14.8 4.51 2291.9 2291.6 0.101 0.101		FG16OR16 0.6/1 kV 3G16 1000 91 15.8 5.94 2412.4 2412.1 0.096 0.096		FG16OR16 0.6/1 kV 3G16 950 91 14.8 5.64 2291.9 2291.6 0.101 0.101		
	DATA 28/08/2023 DISEG. Modama Live VISTO Ing. R. Valz Gris APPR.		Land Live srl 		Impianto solare agrivoltaico Schema unifilare +zona A.A1		FOGLIO 40 DI 65 SEGUE 41		
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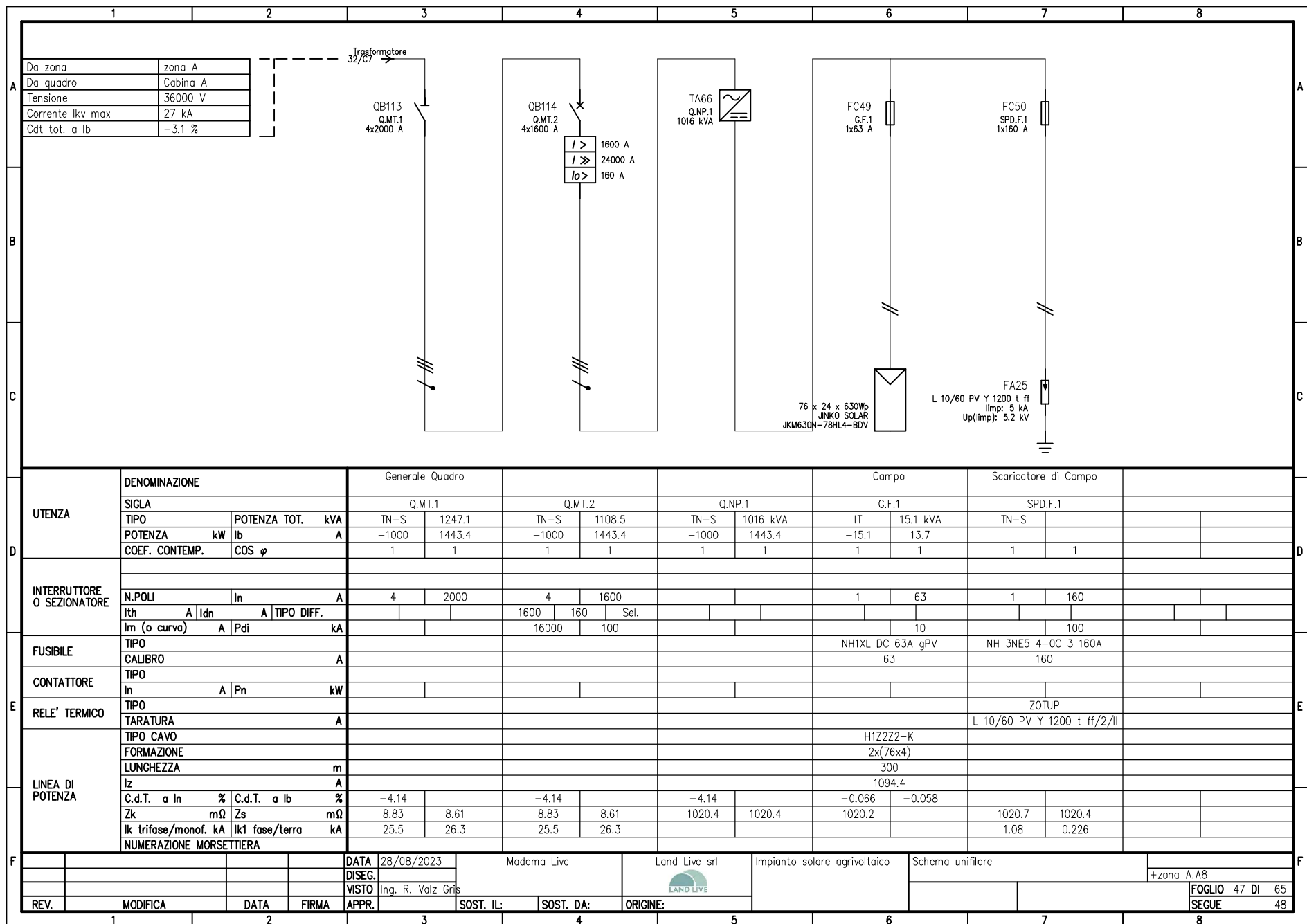


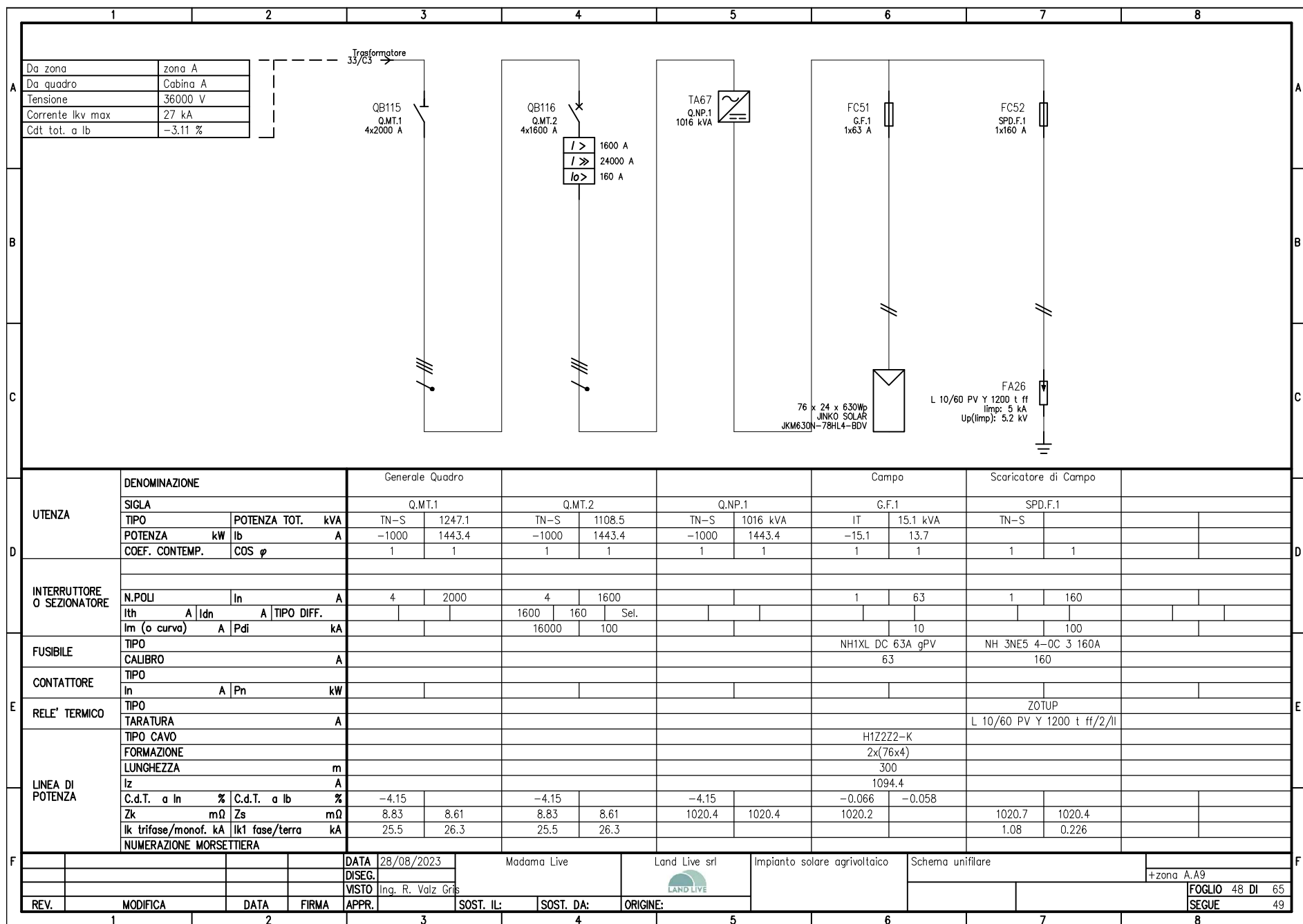


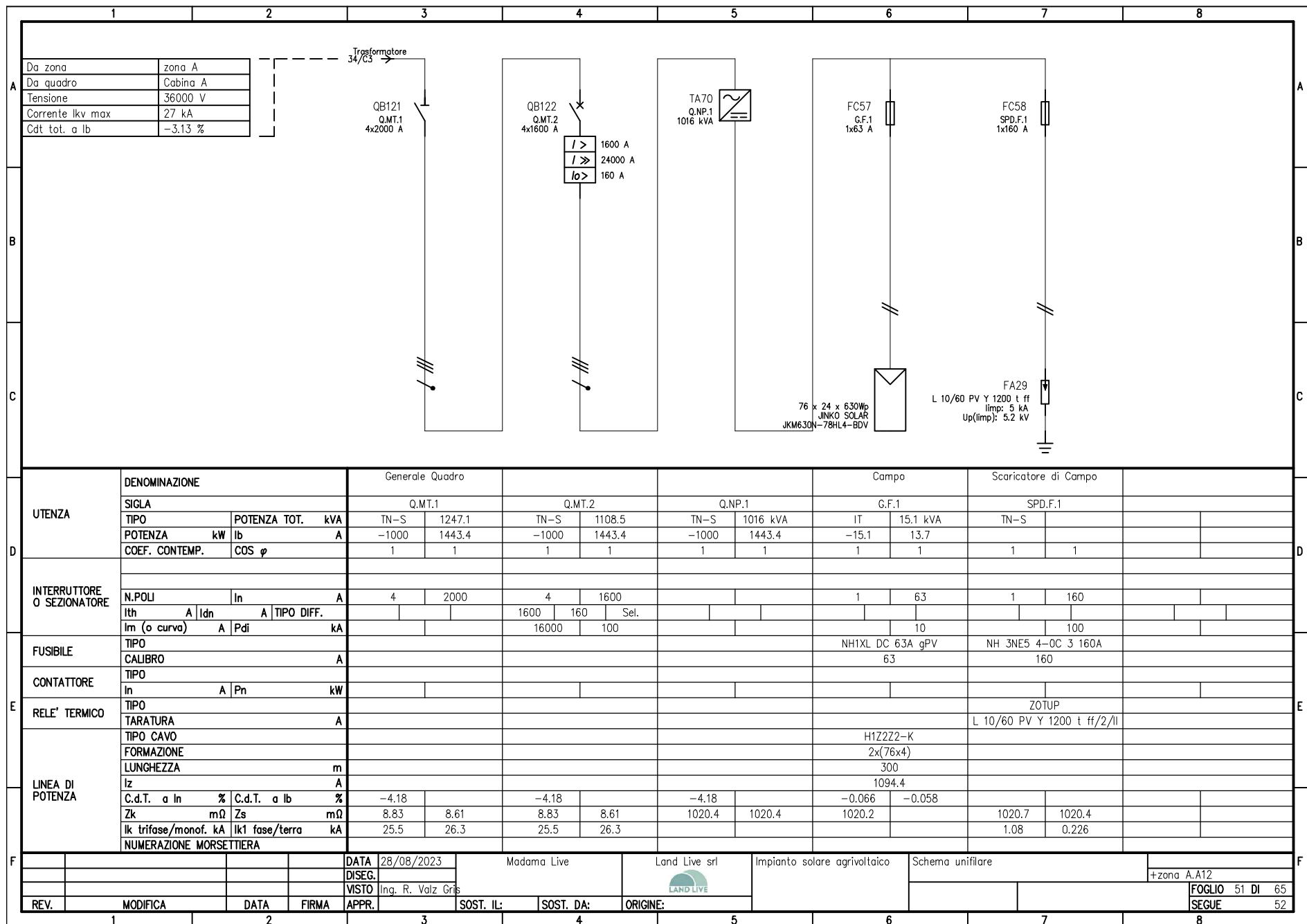


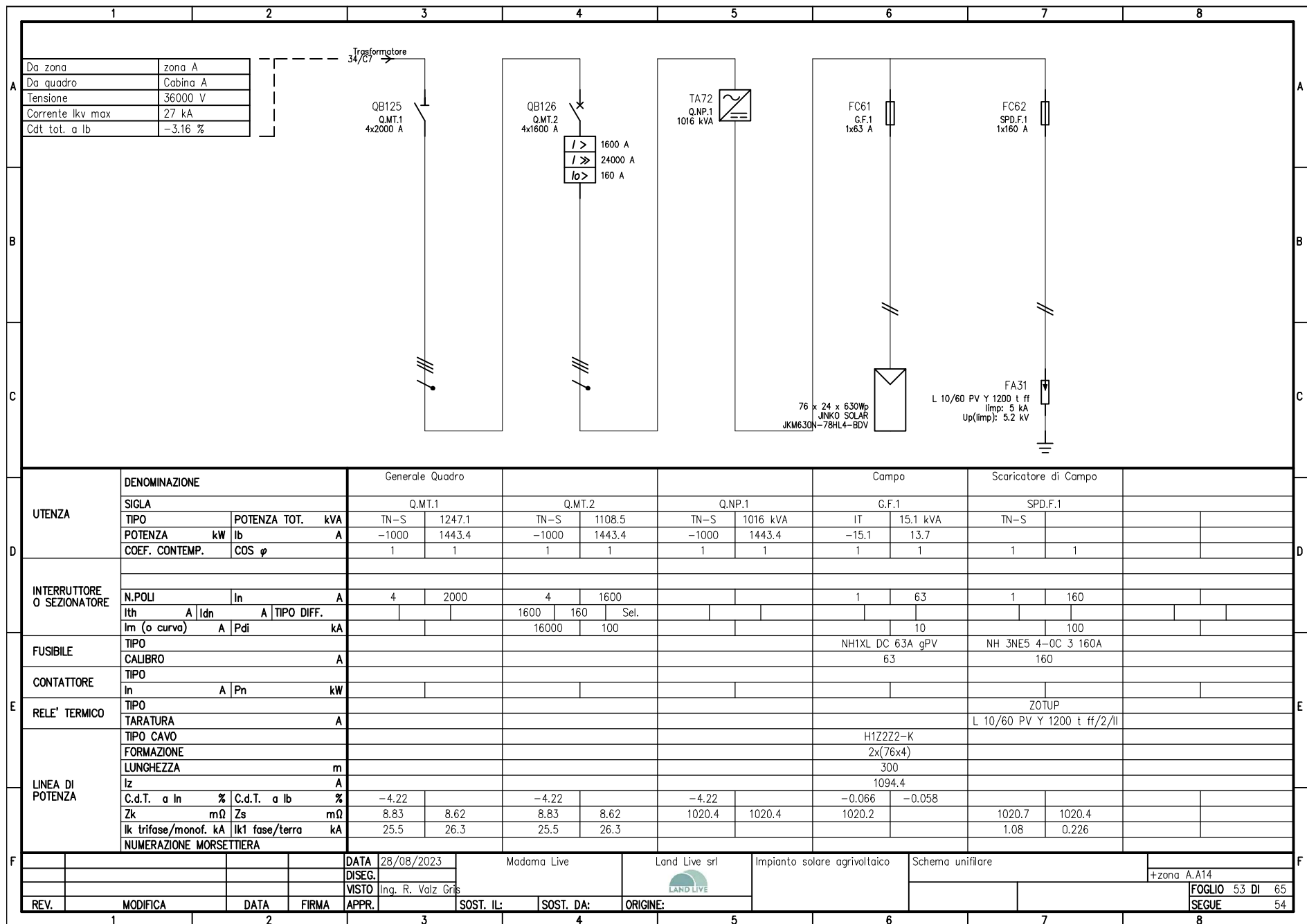


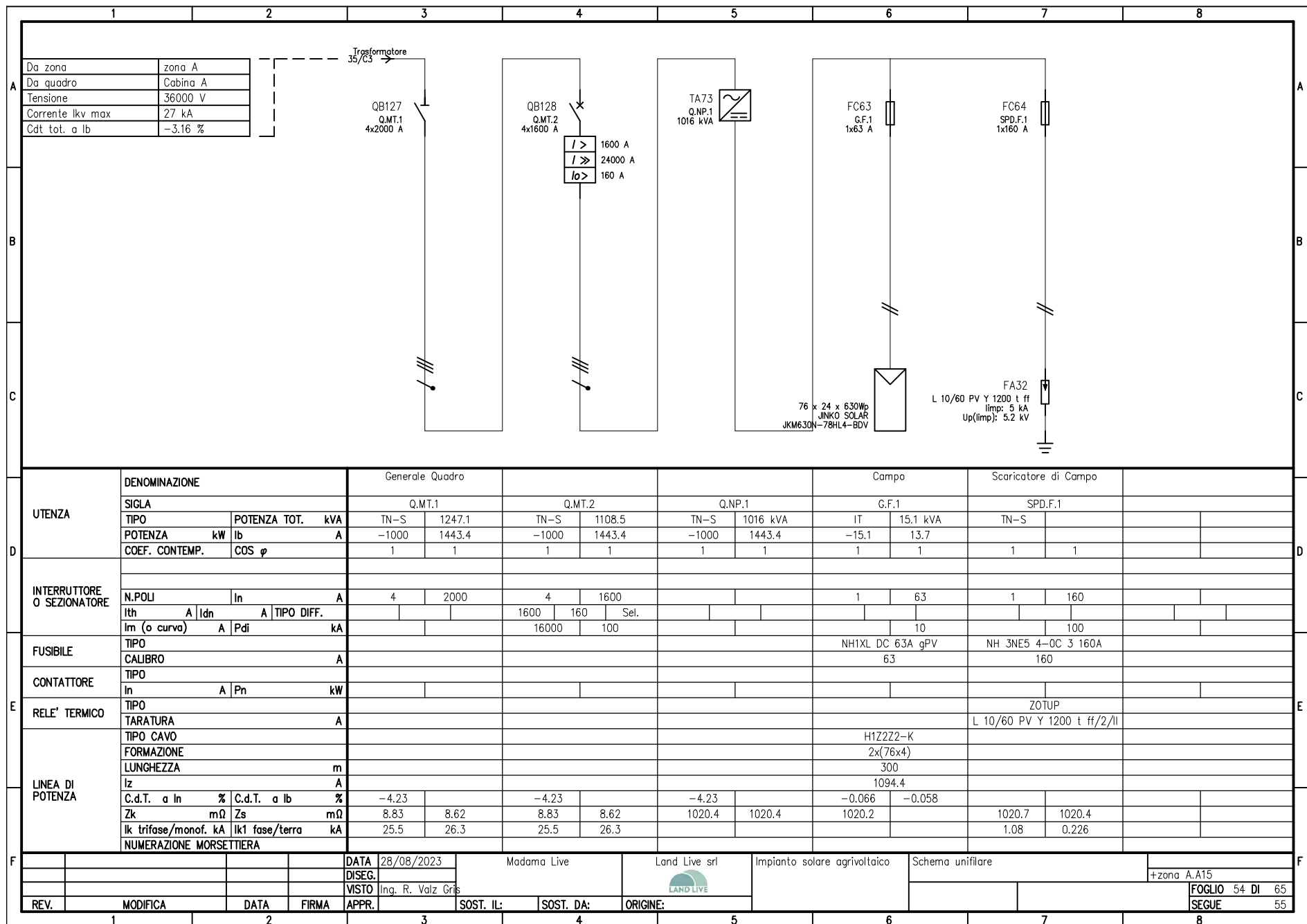


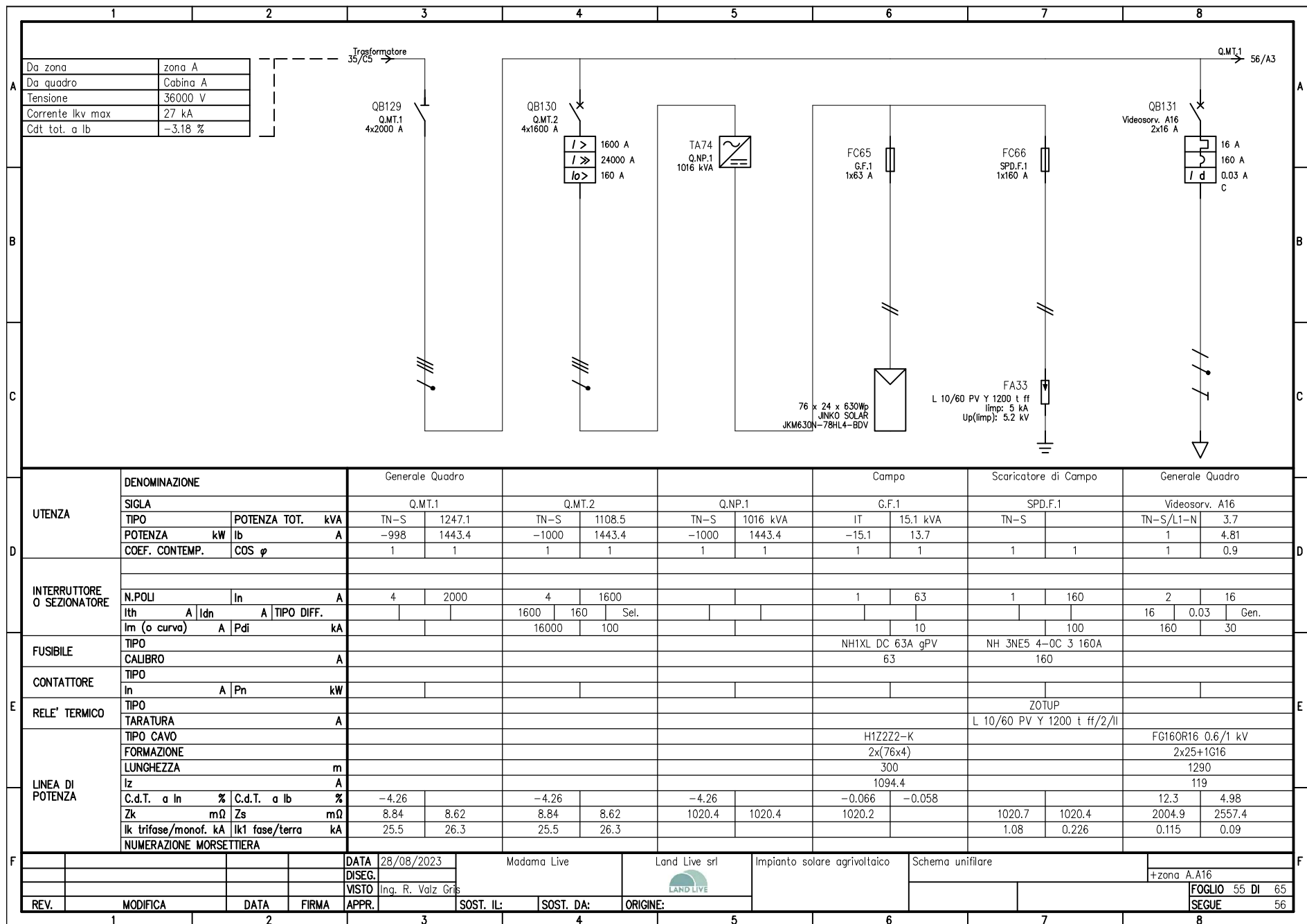


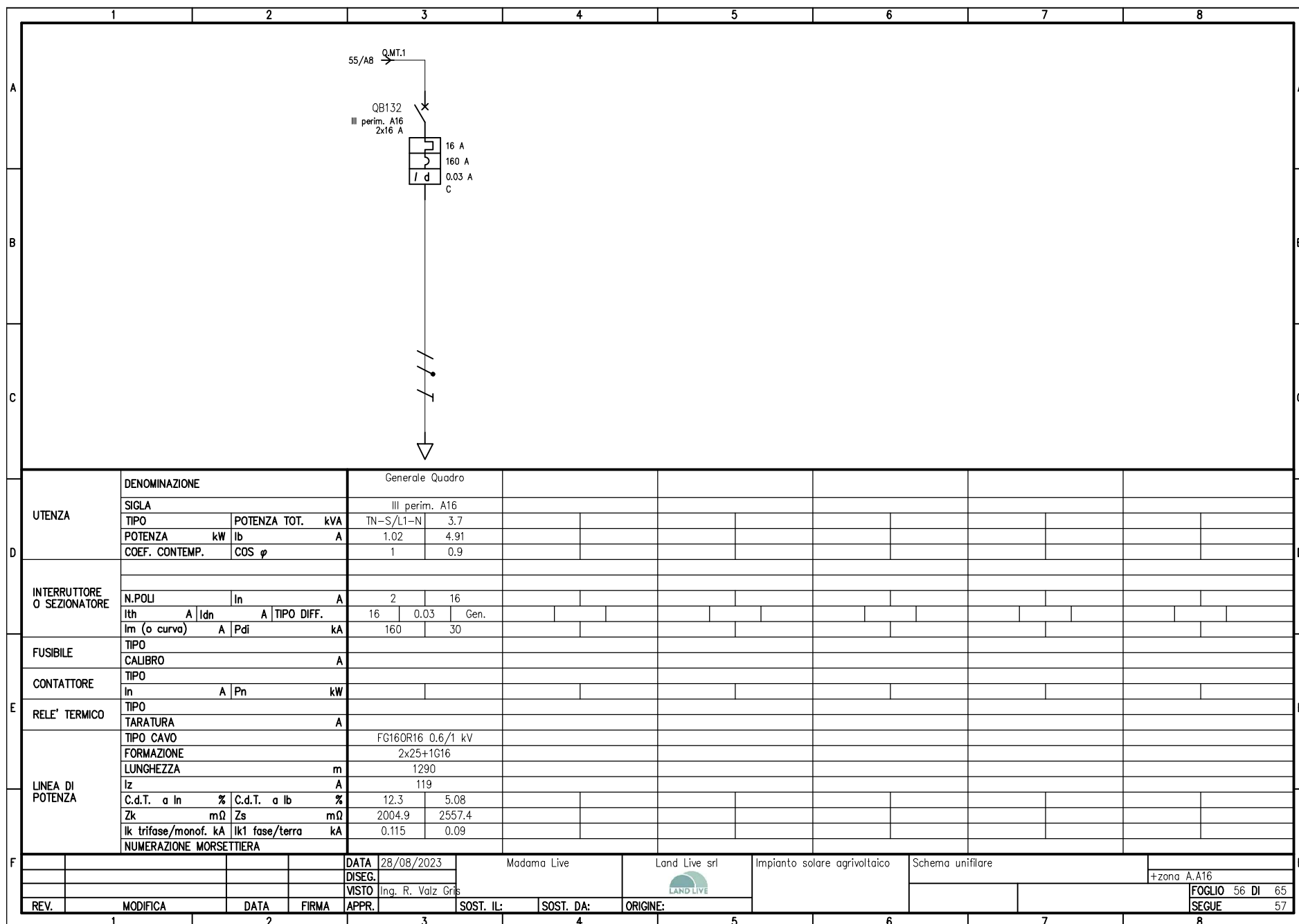


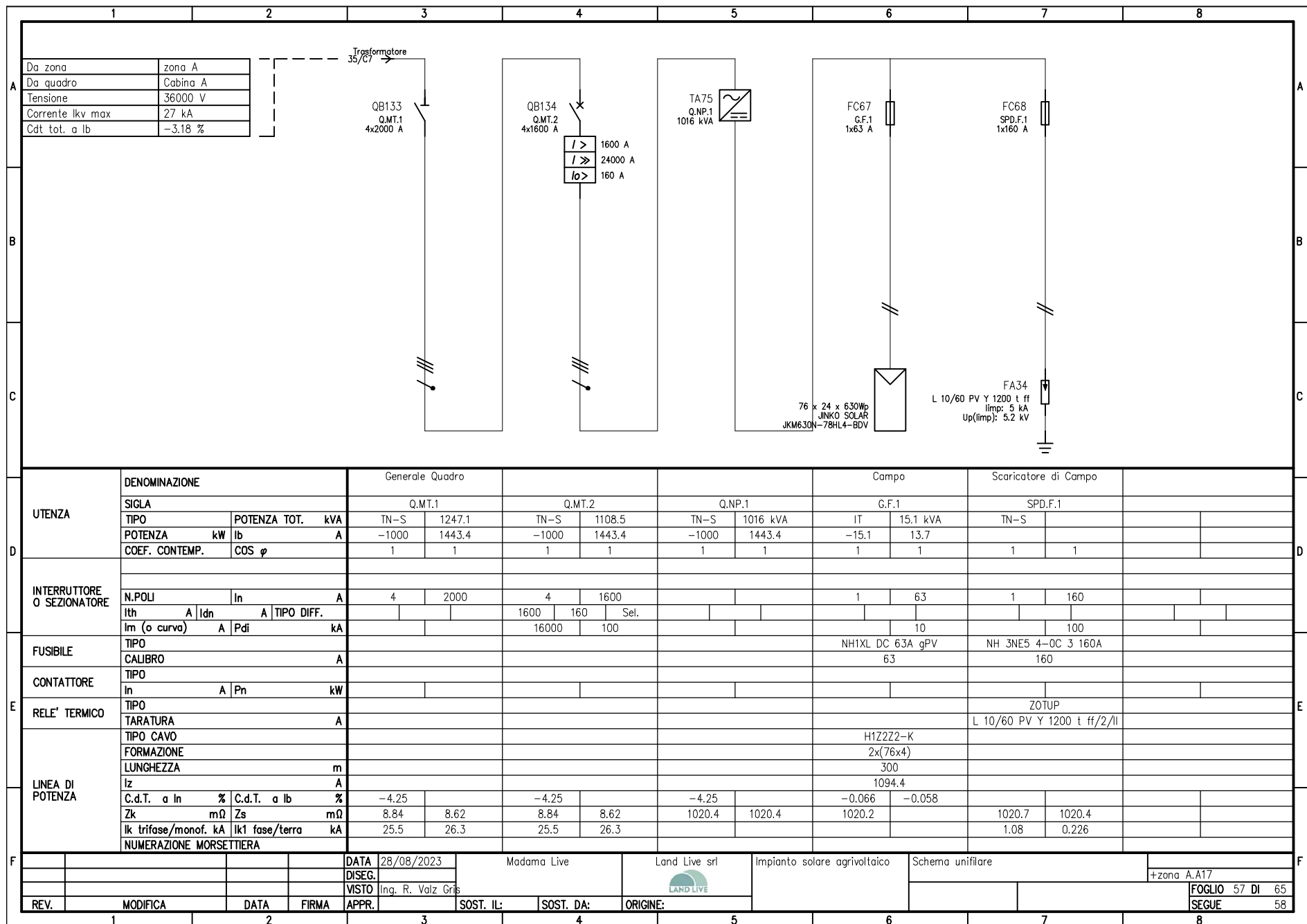


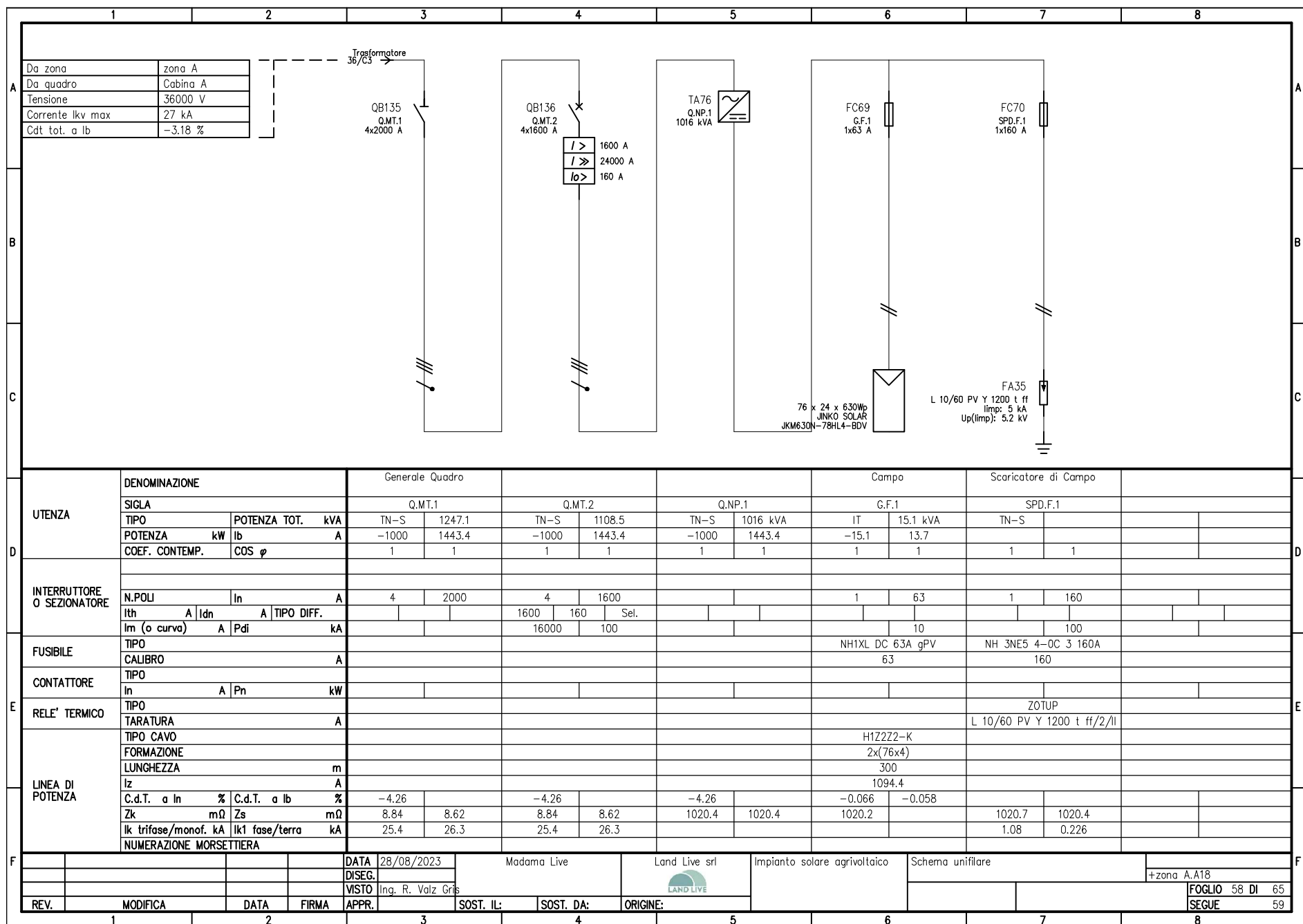


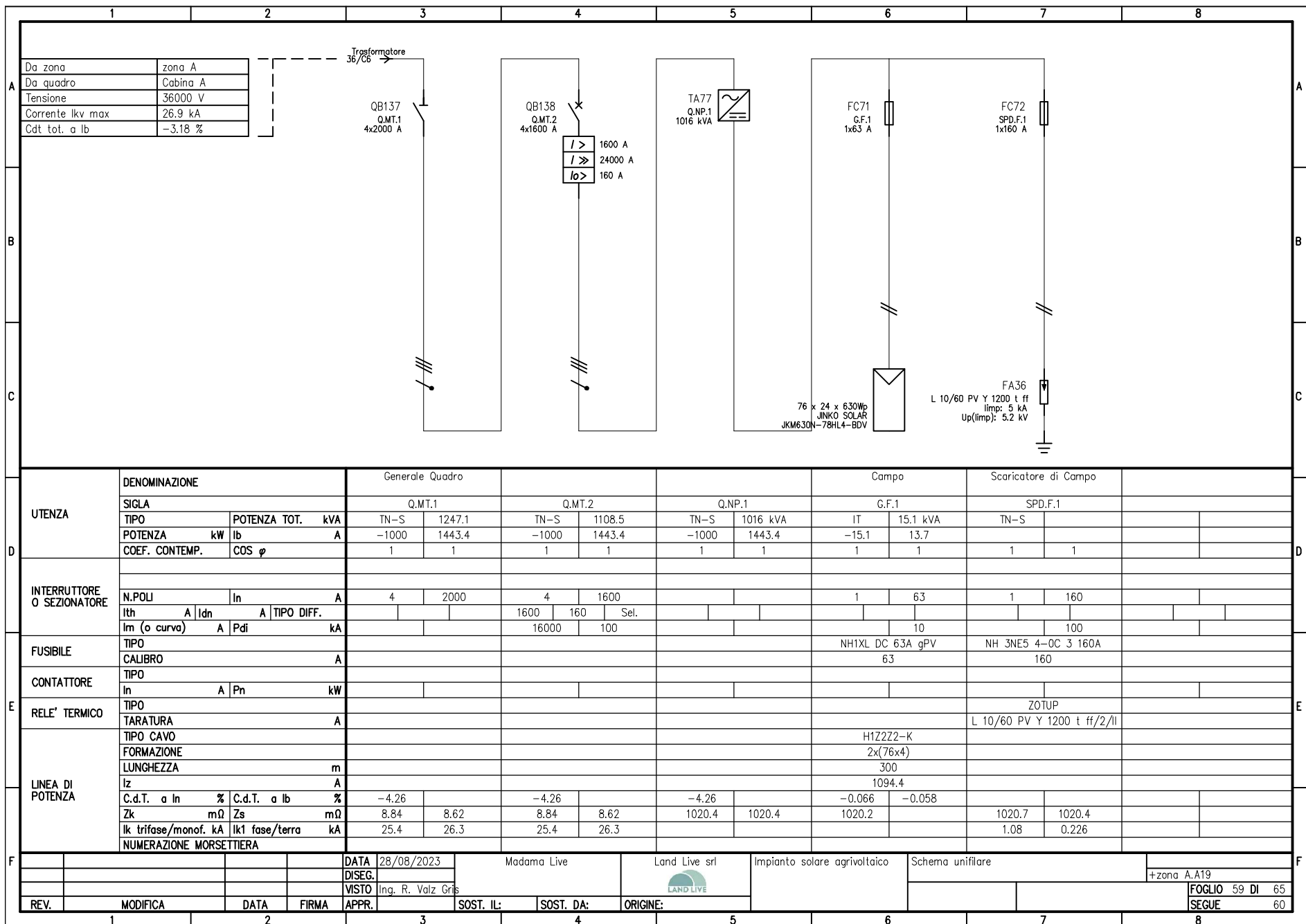


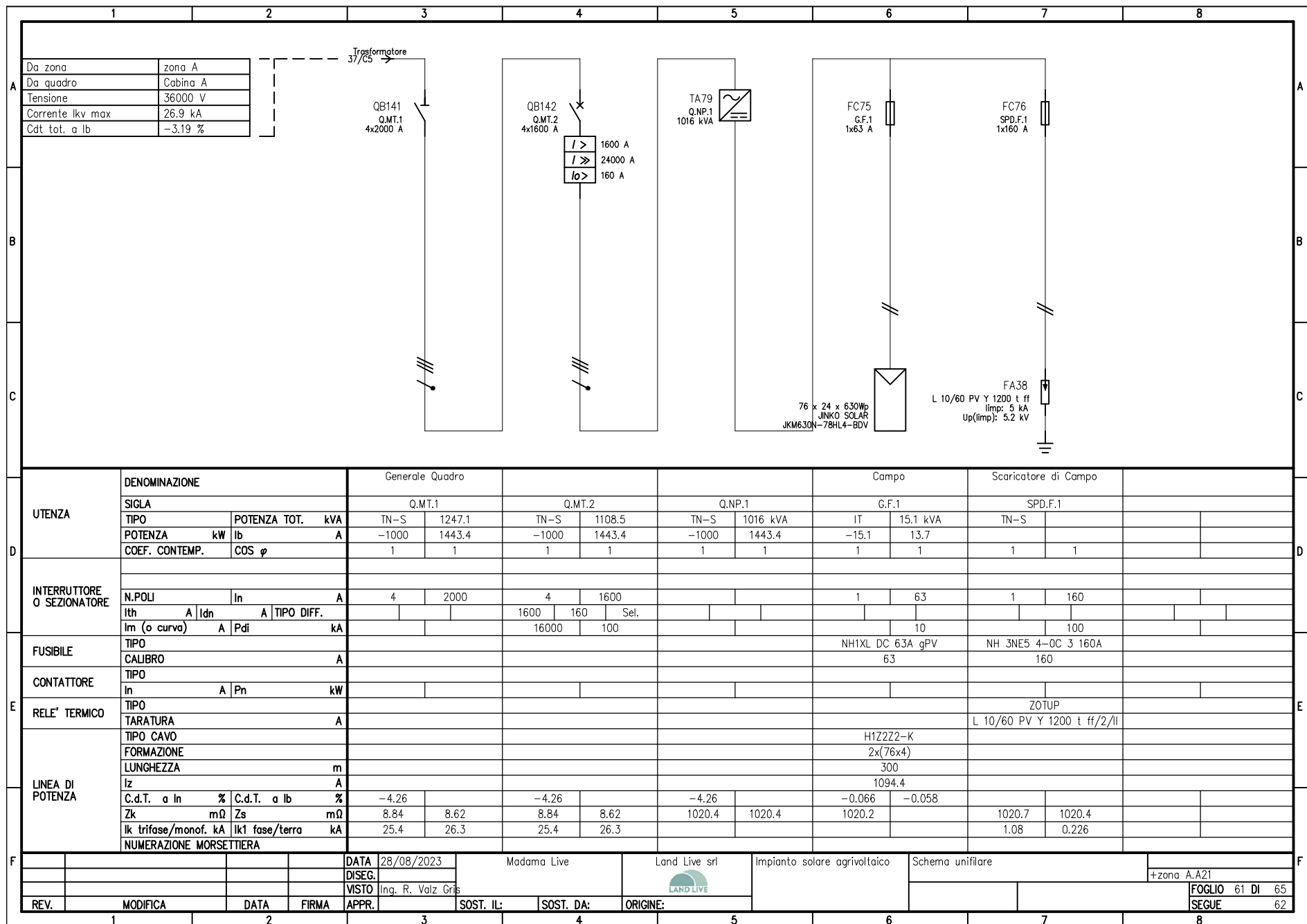


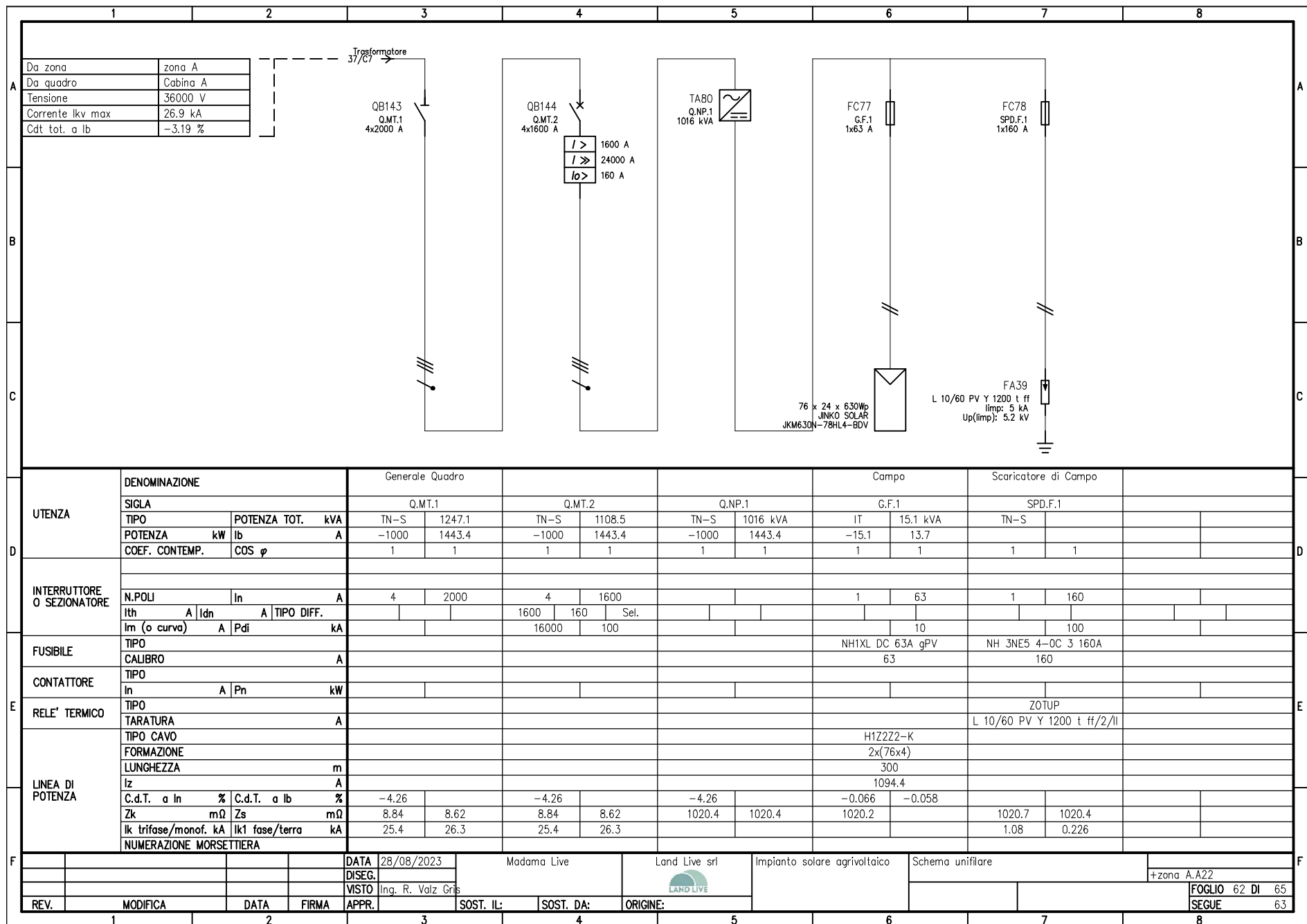


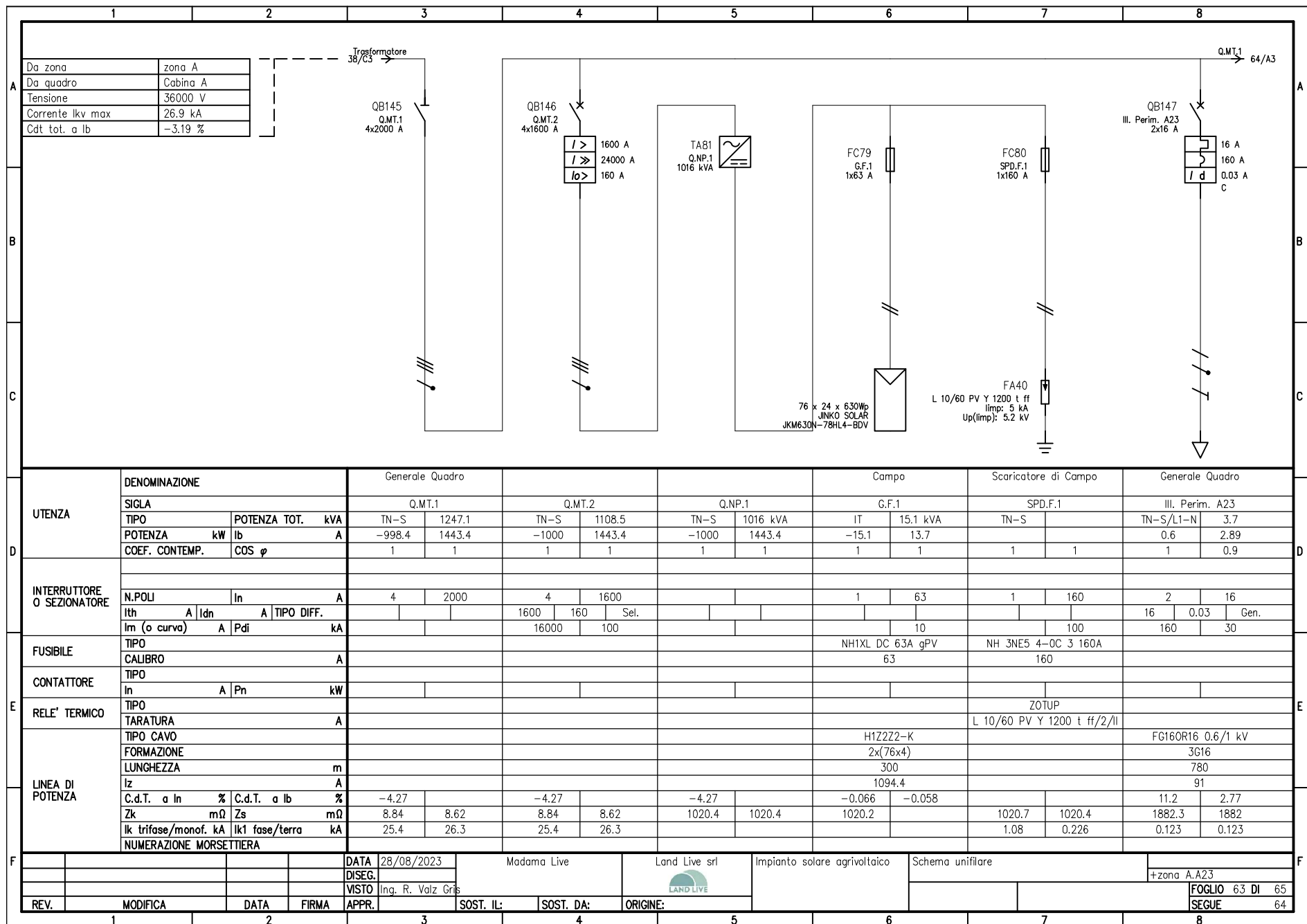




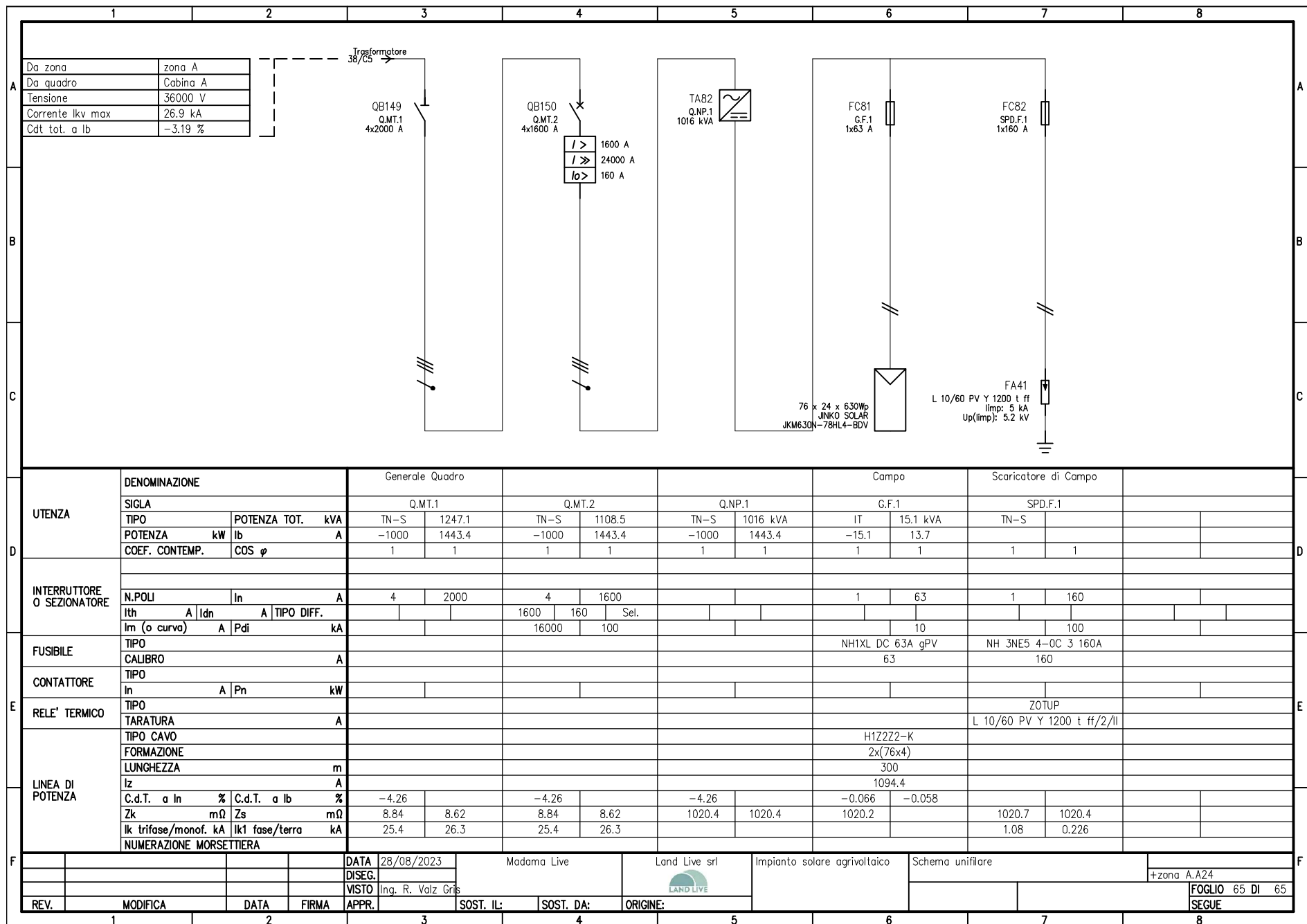



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	1	2	3	4	5	6	7	8		
A	63/A8 Q.MT.1 QB148 Videosorv. A23 2x16 A 16 A 160 A 0.03 A C								A	
B									B	
C									C	
D	UTENZA	DENOMINAZIONE		Generale Quadro					D	
		SIGLA		Videosorv. A23						
		TIPO	POTENZA TOT. kVA	TN-S/L1-N 3.7						
		POTENZA kW	lb A	1 4.81						
		COEF. CONTEMP.	COS φ	1 0.9						
	INTERRUTTORE O SEZIONATORE	N.POLI		In A	2 16					
		Ith A	Idn A	TIPO DIFF.	16 0.03 Gen.					
		Im (o curva) A	Pdi kA	160 30						
	FUSIBILE	TIPO								
		CALIBRO		A						
	CONTATTORE	TIPO								
		In A	Pn kW							
E	RELE' TERMICO	TIPO							E	
		TARATURA		A						
	LINEA DI POTENZA	TIPO CAVO		FG160R16 0.6/1 kV						
		FORMAZIONE		3G16						
		LUNGHEZZA		m 780						
		Iz A	91							
		C.d.T. a In %	C.d.T. a Ib %	11.2 4.63						
		Zk mΩ	Zs mΩ	1882.3 1882						
		Ik trifase/monof. kA	Ik1 fase/terra kA	0.123 0.123						
	NUMERAZIONE MORSETTIERA									
F				DATA	28/08/2023	Modama Live	Land Live srl	Impianto solare agrivoltaico	Schema unifilare	F
				DISEG.					+zona A.A23	
				VISTO	Inq. R. Valz Gris					
	REV.	MODIFICA	DATA	FIRMA	APPR.	SOST. IL:	SOST. DA:	ORIGINE:		FOGLIO 64 DI 65
										SEGUE 65
	1	2	3	4	5	6	7	8		



A

B

C

D

E

F

+zona A.A24

FOGLIO 65 DI 65

SEGUE