

Scale: 1:500

**670W**  
MAXIMUM POWER OUTPUT

**0~+5W**  
POSITIVE POWER TOLERANCE

**21.6%**  
MAXIMUM EFFICIENCY

**Preliminary**

PRODUCT: TSM-6622C-20  
POWER RANGE: 655-670W

**High customer value**

- Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance of System) cost, shorter payback time
- Lowest guaranteed first year annual degradation
- Designed for compatibility with existing microinverter system components
- Higher return on investment

**High power up to 670W**

- Up to 21.6% module efficiency with high density interconnect technology
- Multi-chamber technology for better light trapping effect, lower series resistance and improved current collection

**High reliability**

- Pinfield micro-cracks with innovative non-destructive cutting technology
- Enhanced PID resistance through cell process and module material control
- Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas
- Mechanical performance up to 5400Pa positive load and 2400Pa negative load

**High energy yield**

- Bilateral (BIPV Incident Angle Modifier) and low irradiation performance, validated by 3rd party certifications
- The unique design provides optimized energy production under low-irradiation conditions
- Lower temperature coefficient (-0.34%) and operating temperature
- Up to 25% additional power gain from back side depending on albedo

**Trina Solar's Vertex Bifacial Dual Glass Performance Warranty**

Comprehensive Products and System Certifications

**Trina Solar**

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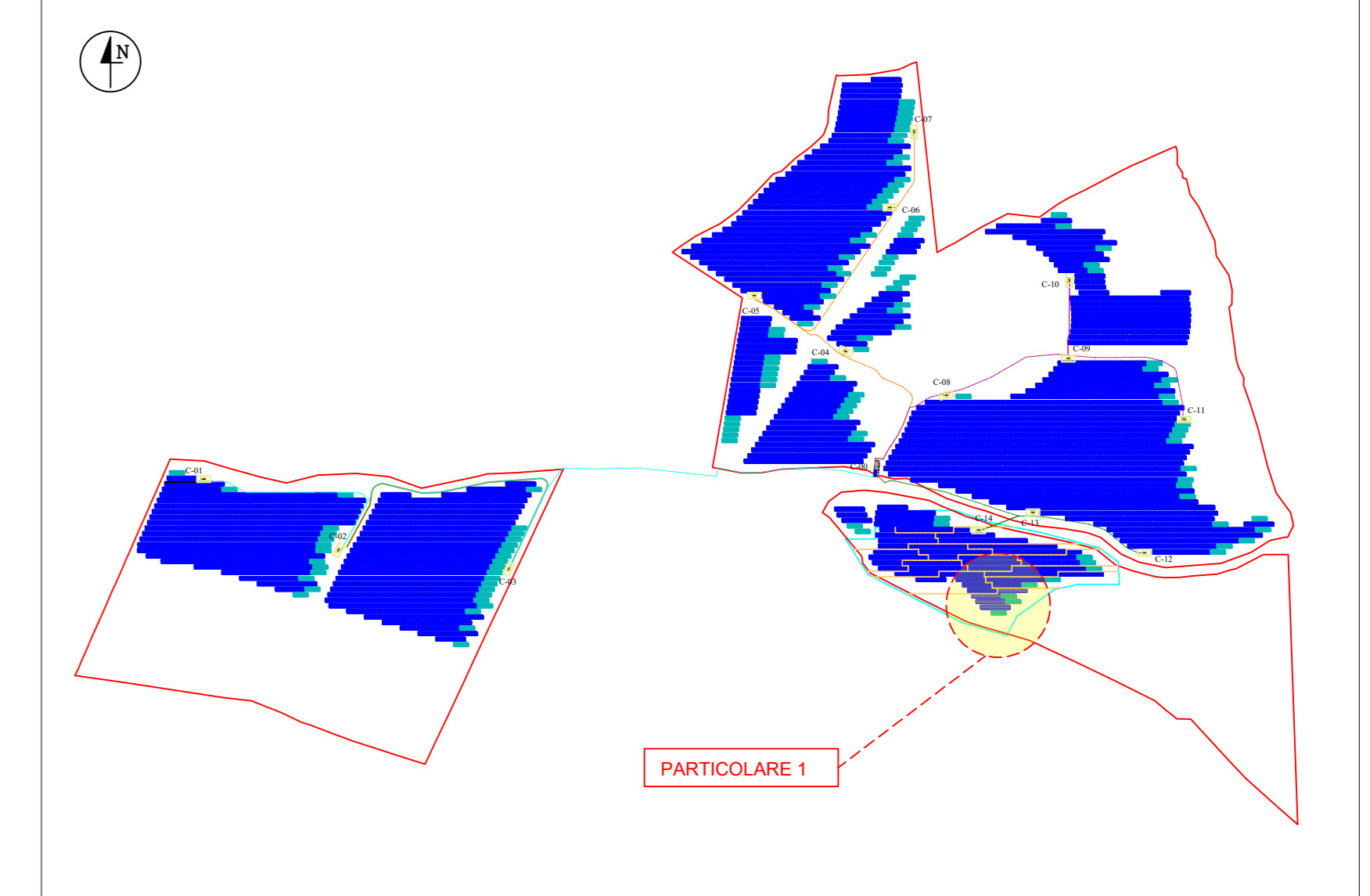
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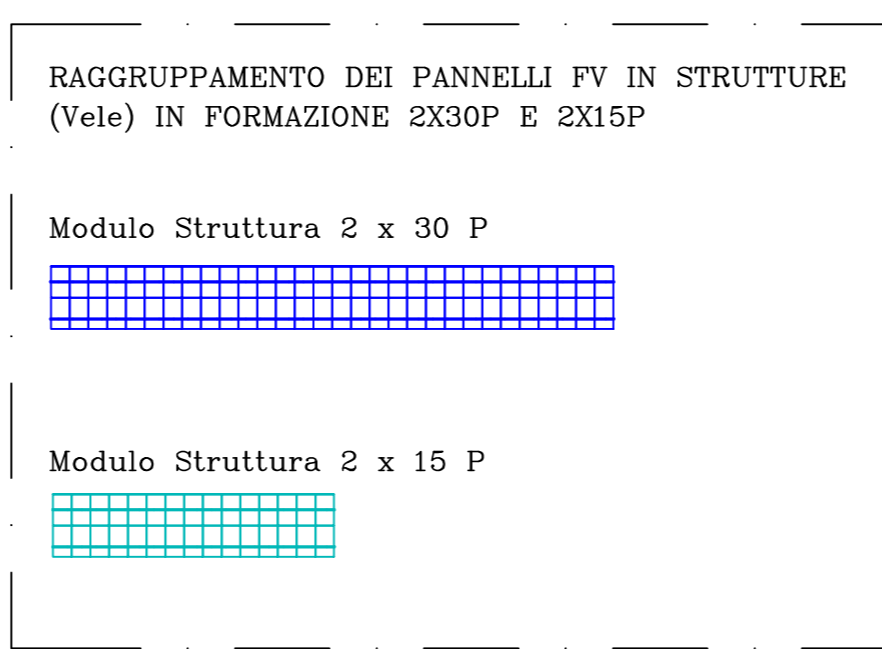
**Trina Solar**



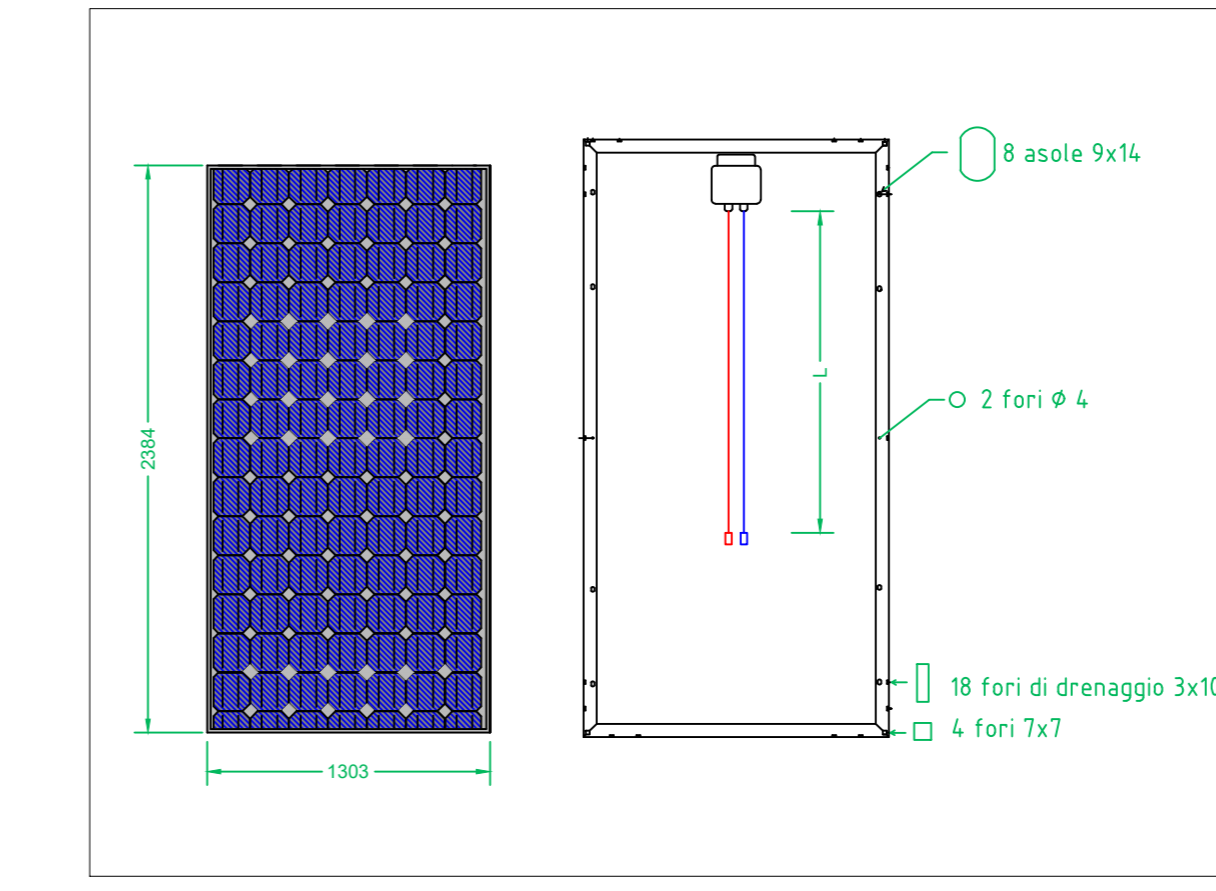
DATI ELETTRICI DEL PANNELLO E FORMAZIONE STRINGA

Dati del Pannello FV		Raccomandato Stringa	
Modello:	Vertex	Temperatura esterna minima:	-5 °C
Tipologia Costruttiva:		Temperatura esterna massima:	85 °C
<b>DATI TECNICI</b>			
Numero di pannelli FV per stringa:	30	Numero di pannelli FV per stringa:	30
Potenza Pannello FV:	Pp = 670 [W]	Potenza Stringa:	20100 W
Tensione:	Voc = 44.10 [V]	Tensione di stringa:	1344.30 V
Corrente:	Isc = 18.42 [A]	Corrente di stringa:	17.30 A
Tensione nominale:	Vmppt = 38.20 [V]	Tensione a vuoto (Voc):	1380.00 V
Corrente nominale:	Imppt = 17.55 [A]		
Efficienza:	η = 21.80 [%]		
Dimensioni:	2384 x 1303 x 35 mm		
Temperatura Coefficient of Pmax:	-0.340 [%/°C]		
Temperatura Coefficient of Isc:	-0.150 [%/°C]		
Temperatura Coefficient of Voc:	0.040 [%/°C]		
Maximum system voltage:	1500 [V]		

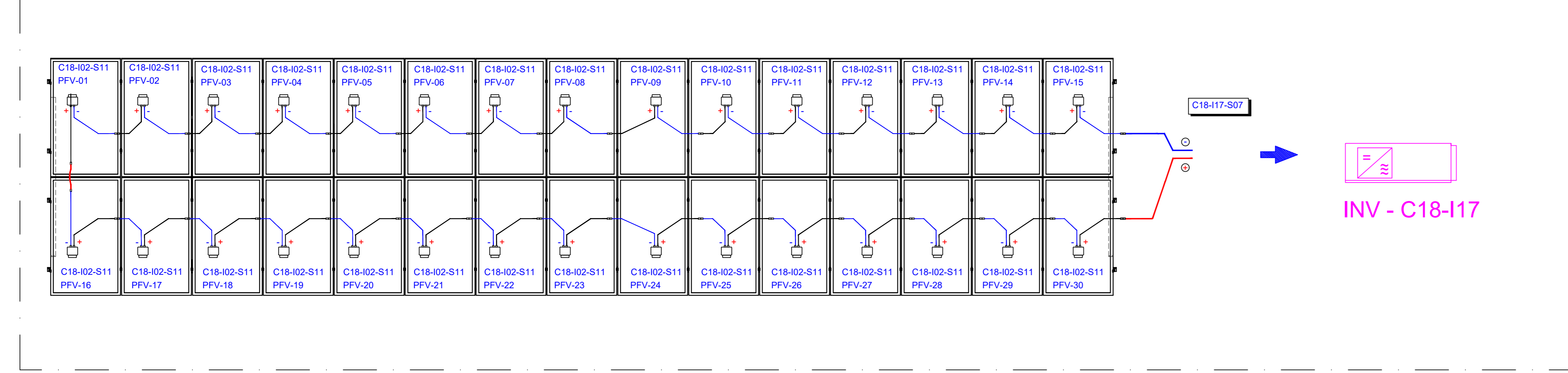
PARTICOLARE 2



PANNELLO FOTOVOLTAICO UTILIZZATO



PARTICOLARE 2: COLLEGAMENTO STRINGA SU STRUTTURA 2X15P



**CODIFICA ELEMENTI DELL'IMPIANTO FOTOVOLTAICO (NOMENCLATURA CABLAGGIO STRINGHE)**

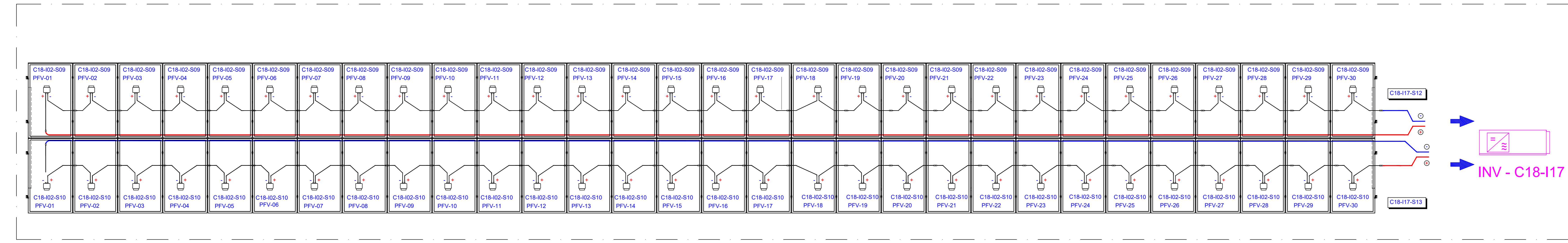
Cxx-Iyy-Szz

> Cxx: CABINA: xx (xx = 1..20)  
> Iyy: INVERTER: yy (yy = 1..17)  
> Sww: STRINGA: ww (yy = 1..11 / 12 / 14)

ESEMPLO PER CABINA C-18  
Inverter 02, Stringhe 09 e 10 su Struttura 2X30P

C18-102-S09 C18-102-S10 C18-102-S11

PARTICOLARE 2: COLLEGAMENTO STRINGHE SU STRUTTURA 2X30P



REV	DISEGNATO DA	DATA	VERIFICATO DA	DATA	APPROVATO DA	DATA
R00	Ing. S. Matta	10/2023	Innova Service S.r.l.	10/2023	DS Italia 14 S.r.l.	10/2023
SCALA 1:500		SEDE PROGETTO		FORMATO		
DATA TIPO DI EMISSIONE						
31/10/2023						
Committente: Sviluppo progetto FV: DS Italia 14 S.r.l. Via del Plebiscito n. 112 - Roma (RM) P.IVA 16380571006				Studio di progettazione: LA SIA S.p.A. Viale L. Schiavonetti, 28600173-Roma (RM) P.IVA 08207411003		
<p>PROGETTO</p> <p>Progetto Definitivo per la realizzazione di un impianto agrivoltaico denominato "Bonorva-Mores" della potenza di picco di 36.079,50 kWp e potenza di immissione di 29.830,00 kW e delle relative opere di connessione alla RTN nei comuni di Bonorva e di Mores (SS)</p>						
TITOLO ELABORATO						
PARTICOLARI COSTRUTTIVI PANNELLI FOTOVOLTAICI						
<p>Coordinamento Progettisti:</p> <p>INNOVA SERVICE S.r.l. Via Santa Margherita, 4 - 09124 Cagliari (CA) P.IVA 03379940921 PEC: innovaserviceca@pec.it</p>						
<p>GRUPPO DI LAVORO</p> <p>per INNOVA SERVICE S.r.l.: Giorgio Roberto Porrigli - Architetto Silvano Melis - Ingegnere Elettrico Aurora Melis - Geometra Antonio Dedoni - Ingegnere Idraulico Marta Camba - Geologo</p> <p>per LA SIA S.p.A.: Riccardo Sacconi - Ingegnere Civile Stefano Cherchi - Acquirente Francesco Melis - Agronomo Francesco Paolo Pinchera - Biologo Rita Bossi - Dottore Agronomo</p>						
NOME ELABORATO						REV
TAV_PART_01-FV1						00