

DATI IMPIANTO

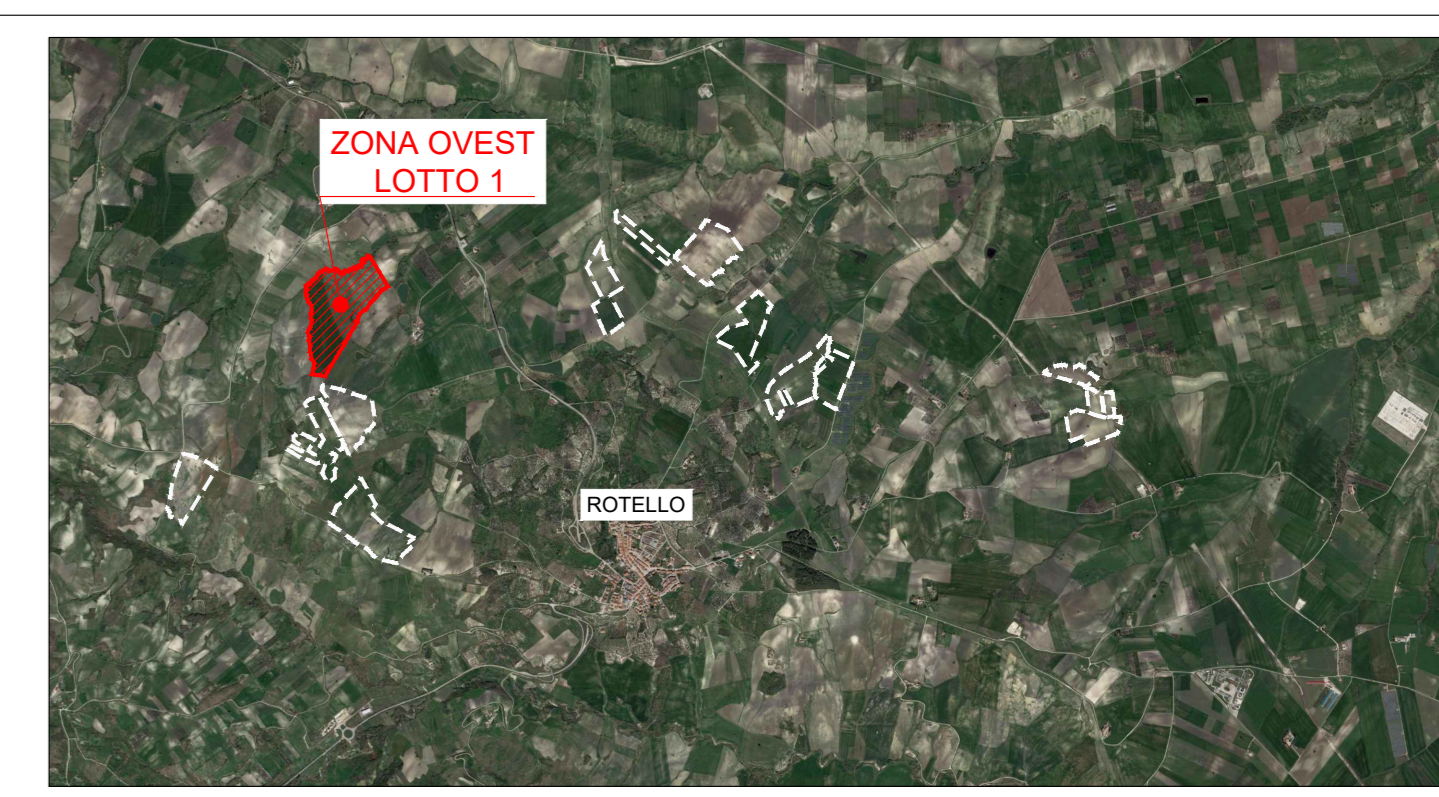
Pitch [m]	11
Potenza modulo [W]	685
Tracker da 28 moduli	752
Pot. totale [kW]	14423.36
Pot Inverter [kVA]	330.00
Numero inverter	39
Potenza AC [kW]	12870
Potenza apparente 30° [kVA]	13728

TRACKERS TOTALI: 752 (28 M)

- 506 TRACKERS 1R_EXT
- 62 TRACKERS 1R_MED1P
- 184 TRACKERS 1R_INT1P

Montante	Profilo Montante	Profilo	Materiale	Infissione Montante [m]	Infissione [m]	Unità
Zone I C Central Post	1R_EXT	HEA 160	HEA 180	S355	4.50	506
Zone I C Lateral Post	1R_EXT	IPEA 200	IPEA 220	S355	4.20	2024
Zone III P1 Central Post	1R_MED1P	HEA 140	HEA 160	S355	5.50	62
Zone III P1 Lateral Post	1R_MED1P	IPEA 200	IPEA 220	S355	4.50	62
Zone III P1 Lateral Post Perimeter	1R_MED1P	IPEA 220	IPEA 240	S355	5.00	62
Zone IV P1 Central Post	1R_INT1P	HEA 140	HEA 160	S355	5.50	184
Zone IV P1 Lateral Post	1R_INT1P	IPEA200	IPEA 220	S355	4.50	184
Zone IV P1 Lateral Post Perimeter	1R_INT1P	IPEA 220	IPEA 240	S355	4.50	184

PIANTA CHIAVE



NOTE

- TUTTE LE DIMENSIONI SONO ESPRESSE IN m SALVO DOVE DIVERSAMENTE SPECIFICATO
- TUTTE LE QUOTE ALTIMETRICHE SONO ESPRESSE IN m l.m.m.
- TUTTE LE COORDINATE SONO RIFERITE AL SISTEMA UTM-WGS84 ZONA 33N



PROGETTO DEFINITIVO DI UN IMPIANTO AGRO-FOTOVOLTAICO DELLA POTENZA COMPLESSIVA DI 57 MWp, E RELATIVE OPERE DI CONNESSIONE ALLA RETE, CON SISTEMA DI ACCUMULO DI CAPACITA' PARI A 10 MWh DA REALIZZARSI NEL COMUNE DI ROTELLO E MONTELONGO (CB)

PROGETTO DEFINITIVO

COMMITTENTE: ROTELLO SOLAR s.r.l.

PROGETTISTA: **FRANCESCO** INGEGNERE TECNICO (Dott. Ing. Simone Venturini)

TITOLO ELABORATO: **PARTICOLARI COSTRUTTIVI TRACKERS - FONDAZIONI ZONA OVEST - LOTTO 1**

ELABORATO n°: B020F-D-R001-GEN-TP-02
 NOME FILE: B020F-D-R001-GEN-TP-02-00.DWG
 SCALA: 1:1500
 DATA: Dicembre 2022

N.	DATA	DESCRIZIONE	ELABORATO	CONTROLLATO	APPROVATO
00	01 Dicembre 2022	Emissione	R. Minoia	M. Palvarini	S. Venturini
01					
02					
04					

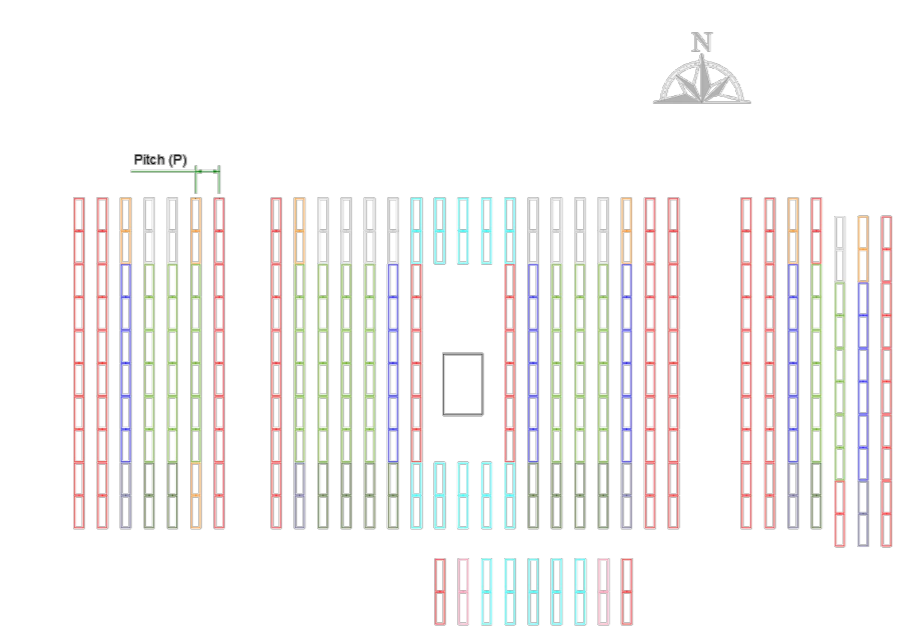
Exterior trackers: Most exposed to the wind and more robust trackers, they are in the EW perimeter areas. For these tracker types there is no difference in perimeter are North or South.

Intermediate trackers: Medium exposed to the wind, they are in between the exterior and interior trackers.

Interior trackers: 3rd tracker into the array and on. Less exposed to the wind and lighter trackers. They are covered by other trackers in the four quadrants.

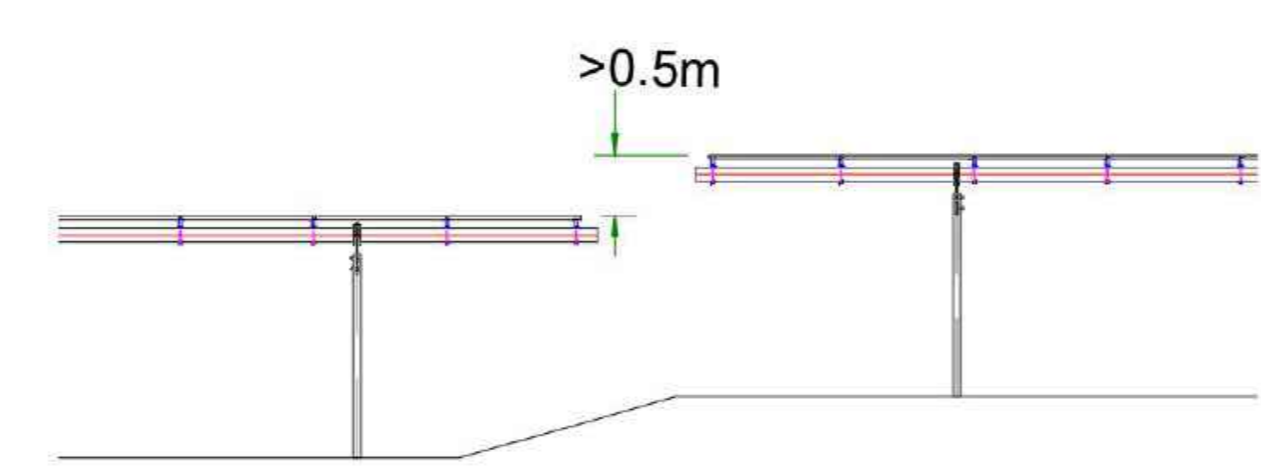
1st perimeter trackers: It affects to the intermediate and interior trackers, they have piles, panel rails and torque tube reinforced in the end area because this wing is exposed to the perimeter.

2nd perimeter trackers: It affects to the intermediate and interior trackers, they have piles, panel rails and torque tube reinforced in the end areas because the two wings are exposed to the perimeter.

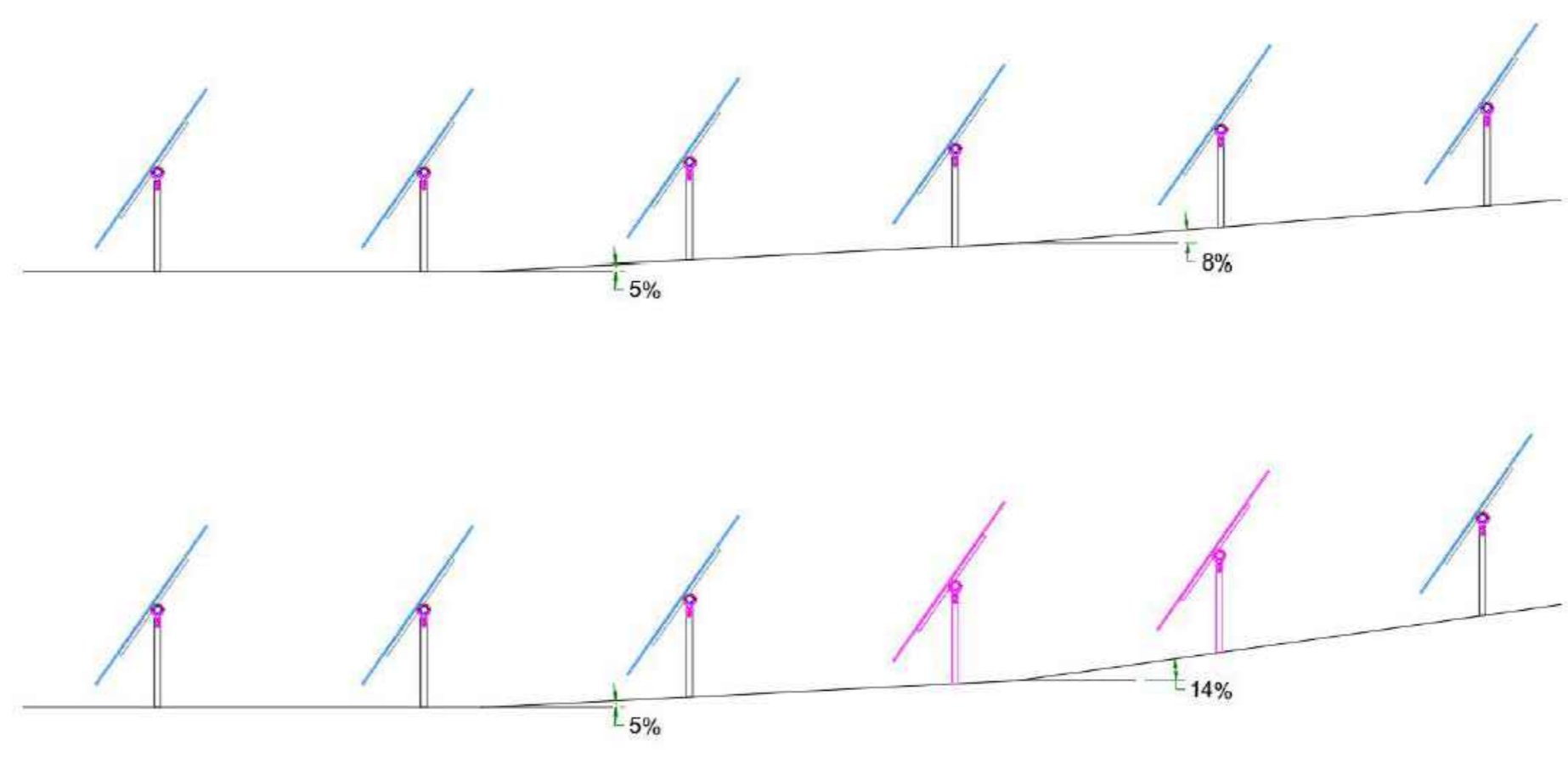


- Tracker types**
- Exterior
 - Intermediate
 - Interior
 - Intermediate 1st Perimeter North
 - Intermediate 1st Perimeter South
 - Interior 1st Perimeter North
 - Interior 1st Perimeter South
 - Intermediate 2nd Perimeter
 - Interior 2nd Perimeter

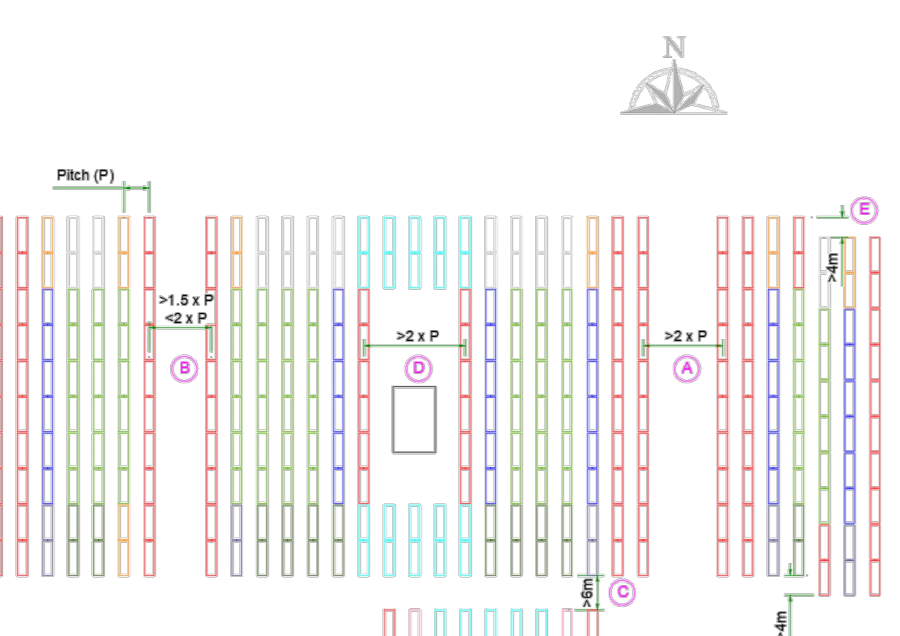
North South effect:
 For differences in height between the neighbour tracker at north or south higher than 0.5m, both trackers must be considered as perimeter.



East West effect:
 For changes of slope higher than 5%, both trackers must be considered as exterior.



- For pitches higher than the double the series of exterior intermediate-interior is repeated.
- For pitches between 1.5 and 2 times the standard only one exterior tracker is necessary in the central area of the aisle followed of interior trackers, so intermediate is not necessary.
- For separations higher than 6m in EW roads, perimeter trackers must be added.
- In case of inverters in middle of the aisle, perimeter and the series of ext-interm-tracker must be added.
- In case of misaligned trackers, for spaces higher than 8m an exterior tracker followed of the corresponding intermediate must be defined.



- Tracker types**
- Exterior
 - Intermediate
 - Interior
 - Intermediate 1st Perimeter North
 - Intermediate 1st Perimeter South
 - Interior 1st Perimeter North
 - Interior 1st Perimeter South
 - Intermediate 2nd Perimeter
 - Interior 2nd Perimeter