REGIONE SICILIANA
LIBERO CONSORZIO COMUNALE DI TRAPANI
COMUNI DI CALATAFIMI SEGESTA E GIBELLINA

PROGETTO PER LA REALIZZAZIONE DI UN IMPIANTO EOLICO DI POTENZA PARI A P_n = 75,4 MW (P_i = 72MW), SU TERRENO SITO NEL COMUNE DI CALATAFIMI SEGESTA (TP) IN CATASTO AI FG. 94 P:LLE 246, 247, 368, 248, 340, 411, AL FG. 99 P.LLE 93, 92, 3, AL FG. 107 P.LLE 7, 15, 16, 123, 209, 208, 54, 206, AL FG. 104 P.LLE 4, 49, 33, 156, 157, AL FG. 106 P.LLE 93, 86, 23, 94, AL FG. 107 P.LLA 44, AL FG. 105 P.LLA 128, AL FG. 115 P.LLE 192, 136, 281, 66, 208, AL FG. 117 P.LLE 38, 28, E AL FG. 98 P.LLE 468, 463, 469, 470, 471 E ALTRE AFFERENTI ALLE OPERE DI RETE NEI COMUNI DI CALATAFIMI SEGESTA E GIBELLINA (TP)

Timbro e firma del progettista

Capital Engineering snc
Ing. Vincenzo Massaro

Capital Engineering snc
Ing. Salvatore Li Vigni

Timbri autorizzativi

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Data: 22/12/2022 19:10:12

TRANSPORT ROAD SURVEY REPORT

IDENTIFICAZIONE ELABORATO							
Livello prog.	ID Terna S.p.A.	Tipo Elabor.	N.ro Elabor.	Project ID	NOME FILE	DATA	SCALA
PDef	202100949	Relazione	18.1	CANICHIDDEUSI	CANICHIDDEUSI Road Survey 15 12 2022.pdf	22.12.2022	-

REVISIONI					
VERSIONE	DATA	DESCRIZIONE	ESEGUITO	VERIFICATO	APPROVATO
Rev.00	22.12.2022	Prima emissione	GR	MC	VM

IL PROPONENTE

CANICHIDDEUSI WIND SRL
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SU INCARICO DI

Coolbine
Grounded Clean Ventures

Coolbine S.r.L.
Sede legale: Via Trinacria, 52 - 90144 - Palermo
e-mail: progettazione@coolbine.it

Customer: COOLBINE

Transport Road Survey Report

Project: Canichiddeusi – Calatafimi (TP) Italy

Transport rappresentative:
Filippo CARDONE, S.A.E. S.r.l.

1. Summary

According to the Customer's request, it has been analyzed 12xV162 configuration transport feasibility to get to *CANICHIDDEUSI* wind farm.

Road Survey date: *15/12/2022*

Customer Representative:

Transporter Representative: Filippo CARDONE, *S.A.E. S.r.l.*

2. Specs Description

Project	*CANICHIDDEUSI*
Country	Italy
Location	Calatafimi (Canichiddeusi) – Province of Trapani (TP) – Sicily Region
Scope	Planning Stage – Transport Logistic – Feasibility Study
Turbine	12xV162 HH119
Transport Mode	☐ Standard ☒ Transshipment ☒ Blade Lifter ☒ Tower ☒ Nacelle ☒ SPSS
MW	
Start From	Port of Trapani (TP)

3. Weight and Dimensions

3.1 Blades and Nacelle kit Specs

3.1.1 V162 – 6MW HH125m Specs

Nacelle	length mm	width mm	height mm	Weight kgs
	18500	4200	4450	71000

Single blade	length mm	width mm	height mm	Weight kgs
	81100	4396	4425	27700

Hub	length mm	width mm	height mm	Weight kgs
	4980	4401	3812	59400

Drive train	length mm	width mm	height mm	Weight kgs
	7500	2700	3000	92500

3.2 Tower typology Maximum Diameter: Ø 4,50m

3.2.1 HH125m – Specs (Not Standard)

Tower	Bottom end mm.	top end mm.	length mm.	weight kgs.
Top section	4150	4000	30000	53000
Middle section 4	4150	4150	28000	73000
Middle section 3	4150	4150	20720	75000
Middle section 2	4150	4150	16800	77000
Middle section 1	4150	4150	14280	77000
Bottom section	4500	4150	12500	80000

3.2.2 HH105m Specs

Tower	Bottom end mm.	top end mm.	length mm.	weight kgs.
Top section	3670	3258	33000	51000
Middle section 2	4028	3670	28840	67000
Middle section 1	4041	4028	24920	83000
Bottom section	4450	4041	15840	83000

3.2.3 HH119m Specs

Tower	Bottom end mm.	top end mm.	length mm.	weight kgs.
Top section	4150	4000	30000	52000
Middle section 4	4150	4150	21000	47000
Middle section 3	4150	4150	21000	63000
Middle section 2	4150	4150	18760	76000
Middle section 1	4150	4150	14280	79000
Bottom section	4500	4150	11560	80000

4. Preamble

SAE has been appointed to conduct a feasibility study for a project of COOLBINE located near Calatafimi (TP) in Sicily region in Italy. The study has been commissioned in order to define the feasibility to deliver wind turbine components to **CANICHIDDEUSI *wind farm***, which consists of 12xv162 having several tower typologies.

The study that follows has been conducted based on the packing list that COOLBINE provided to SAE on 12/12/2022 and the site visit was executed on 15/12/2022.

5. Table of content

6. Executive Summary

Following the visit carried out on December 12, 2022, from the loading point to no. 2 site access, assuming all modifications described in this report, SAE found the possibility to transport all components to Canichiddeusi wind farm access.

7. General Route Description: from Port of Trapani

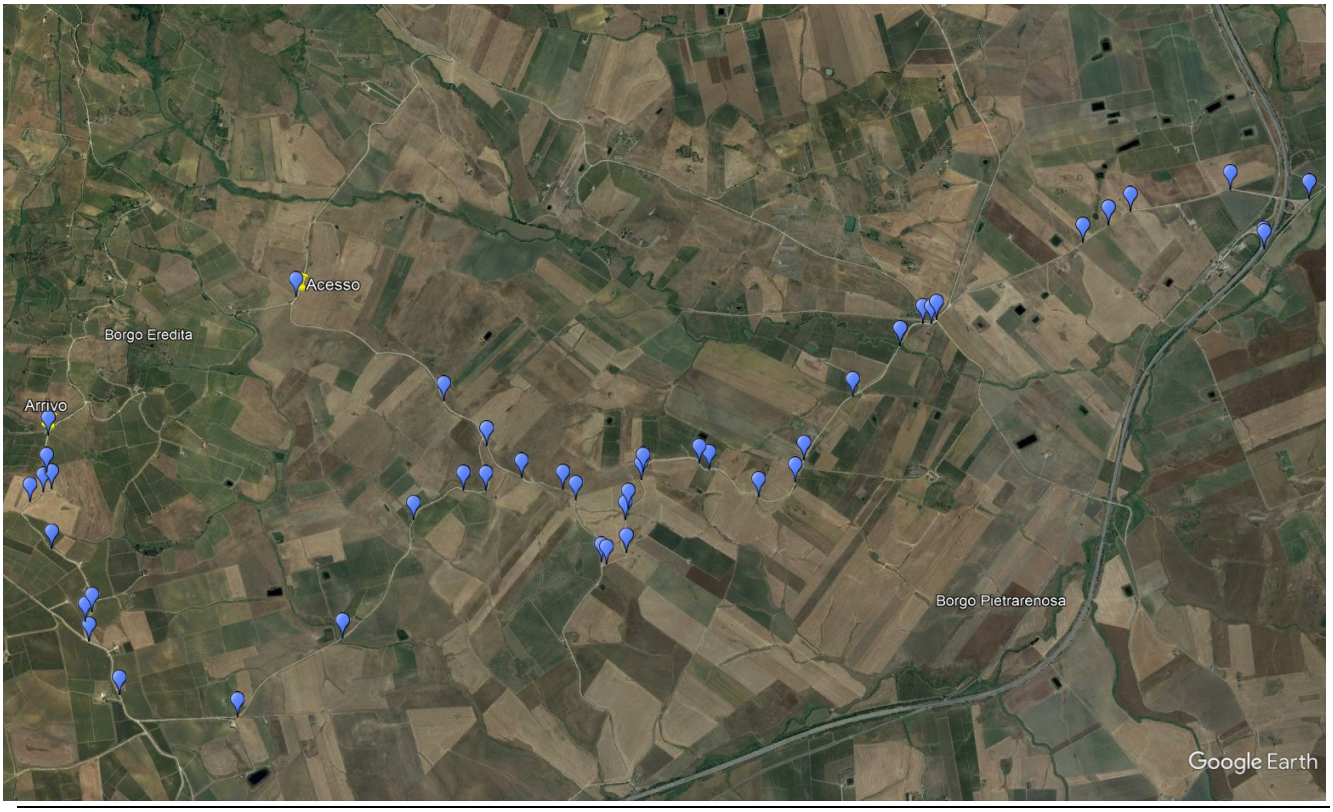
CANICHIDDEUSI_V162_kmz

- **Port of Trapani (TP)**
- **Via Isola Zavorra (TP):** from Port of Trapani to Via I Dorsale Z.I.R. (TP);
- **Via I Dorsale Z.I.R. (TP):** from Via Isola Zavorra to Via Libica (TP);
- **Via Libica (TP):** from Via I Dorsale Z.I.R. to Raccordo Autostradale A29 Palermo-Mazara;
- **Raccordo Autostradale A29 Palermo-Mazara:** from Via Libica to A29 Dir;
- **A29 Dir:** From Raccordo Autostradale to A29;
- **A29:** from A29 Dir to A29 Gallitello exit in reverse;
- **SB18:** from A29 to SB16;
- **SB16:** from SB18 to **transshipment area (Obs.11)**;
- **SB16:** from Transshipment area to SB14;
- **SB14:** from SB16 to **1st Site Access**;
- **SB19:** from SB16 to SP14;
- **SP14:** from SB19 to **2nd Site Access.**

8. Map of observations

8.1 Map of Observations from Obs. 1 to Obs. 8

8.2 Map of Observations from Obs. 9 to Obs. 52



9. Road Modifications – from the port of Trapani

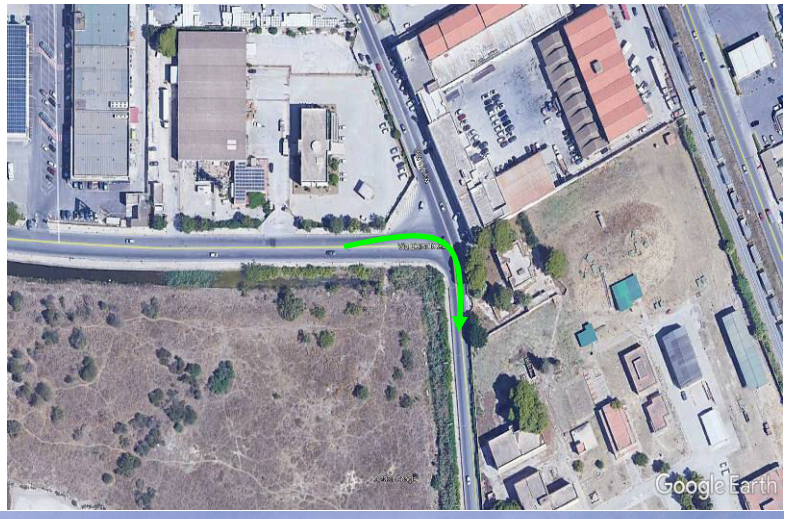
Observation 1

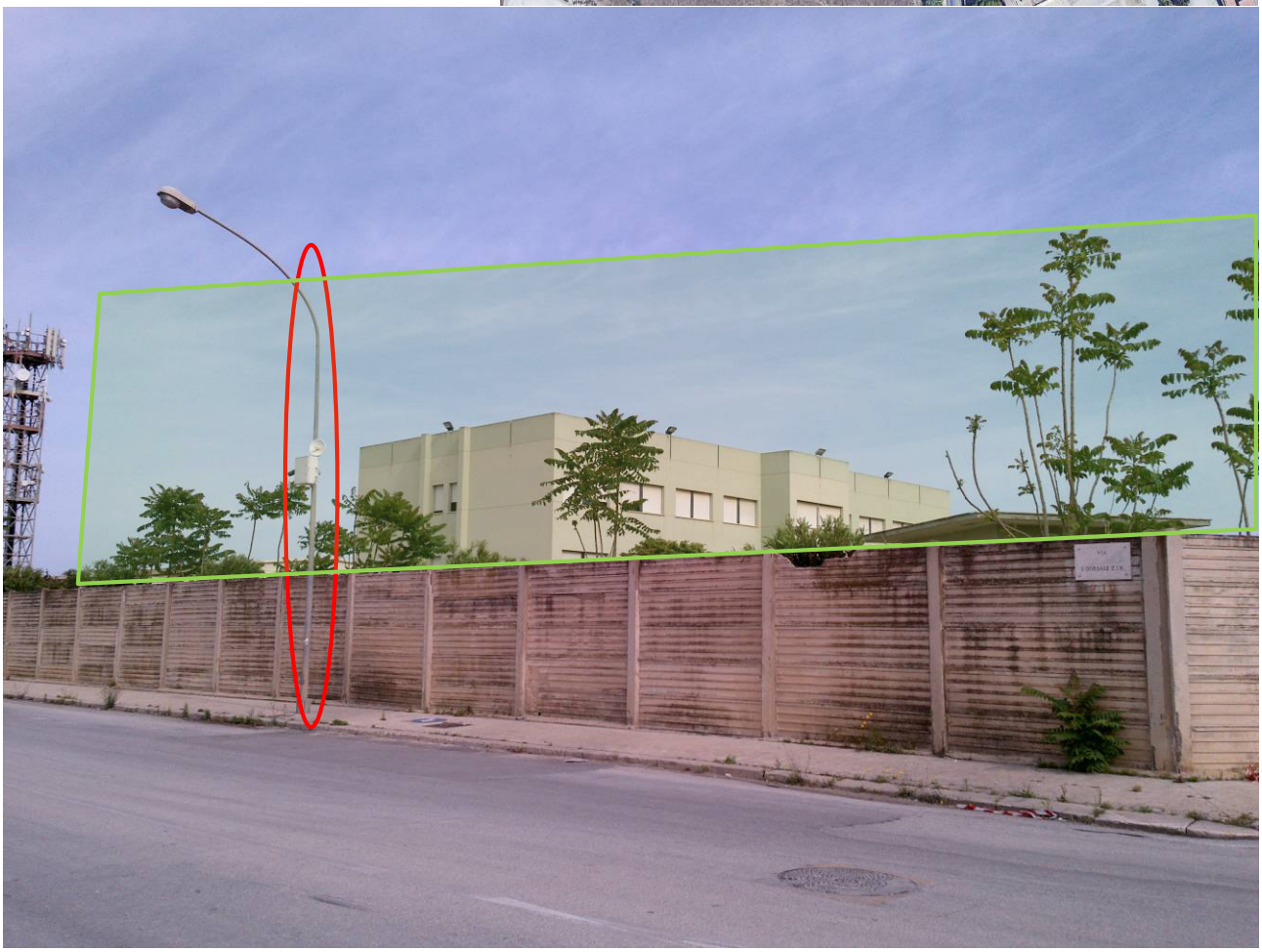
Port of Trapani – loading components from a private property in front of the port exit.
Use the existing exit from a private property where components will be stored.
Make practicable the sidewalk as shown in the picture in order to reduce the gap with the road level.

All components will be transported with conventional trailers and then transferred on Blade Lifter and modular trailers in a dedicated transshipment area.

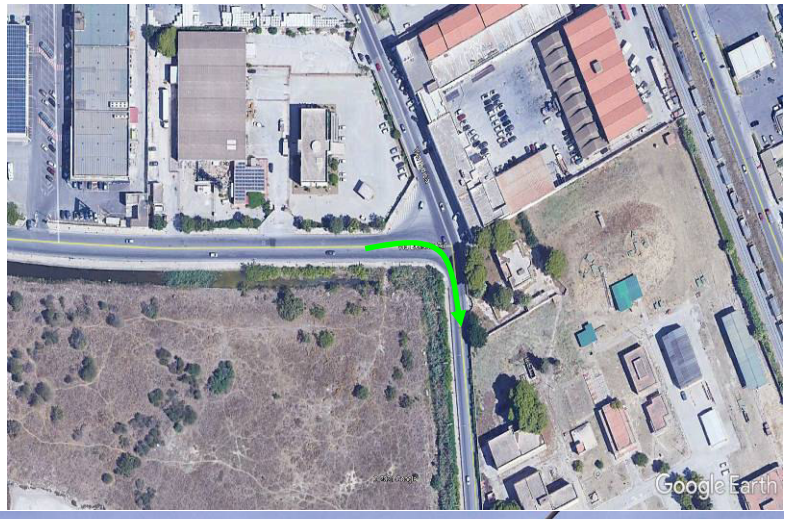
N 38.010843° E 12.527949°

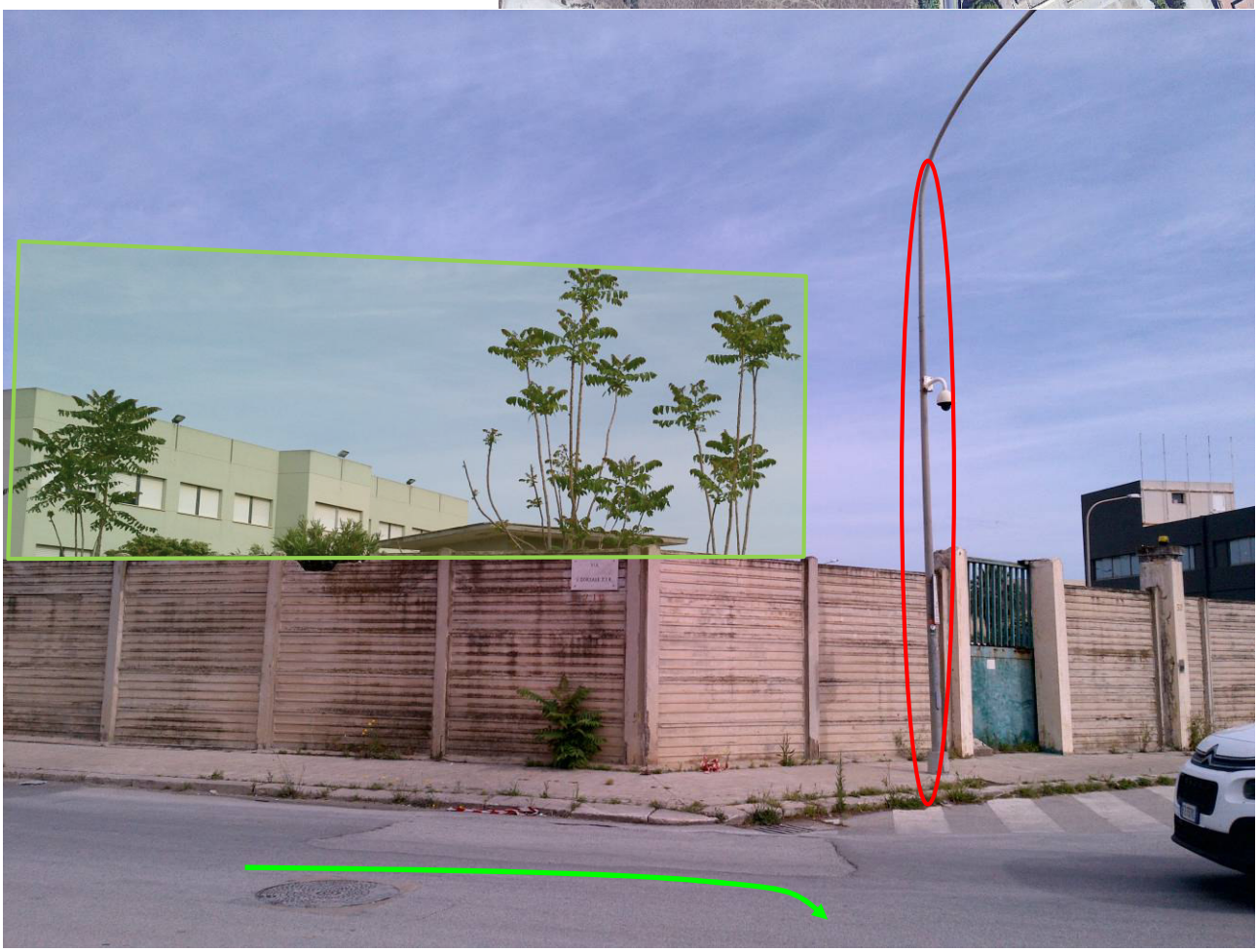
Observation 2.01
The pole on the left has to be removed.
The tree branches on the left have to be cut.
N 38,01073° E 12,53542°



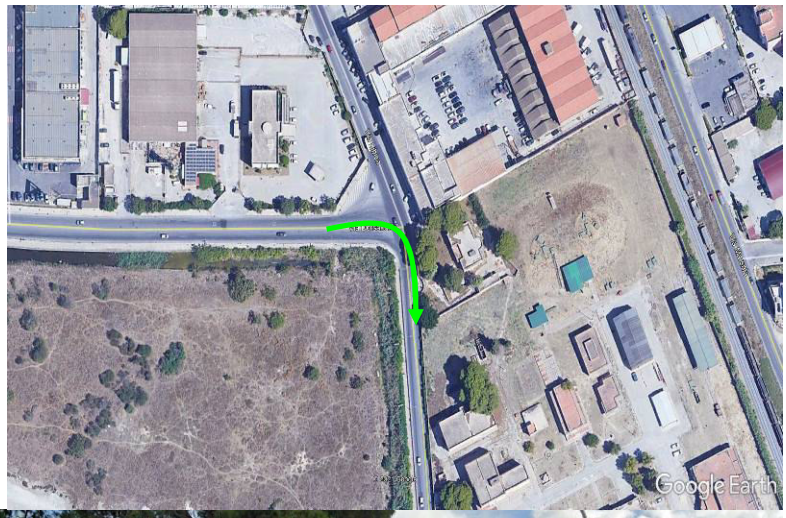


Observation 2.02
The pole on the left has to be removed.
The tree branches on the left have to be cut.
N 38,01073° E 12,53542°

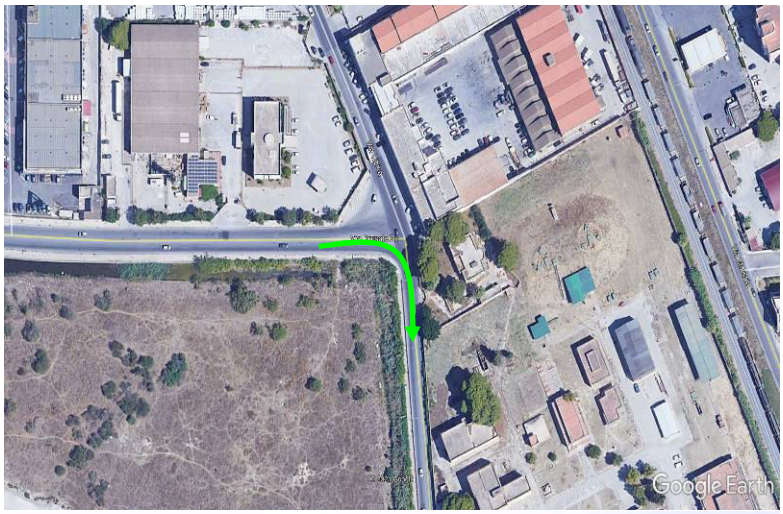


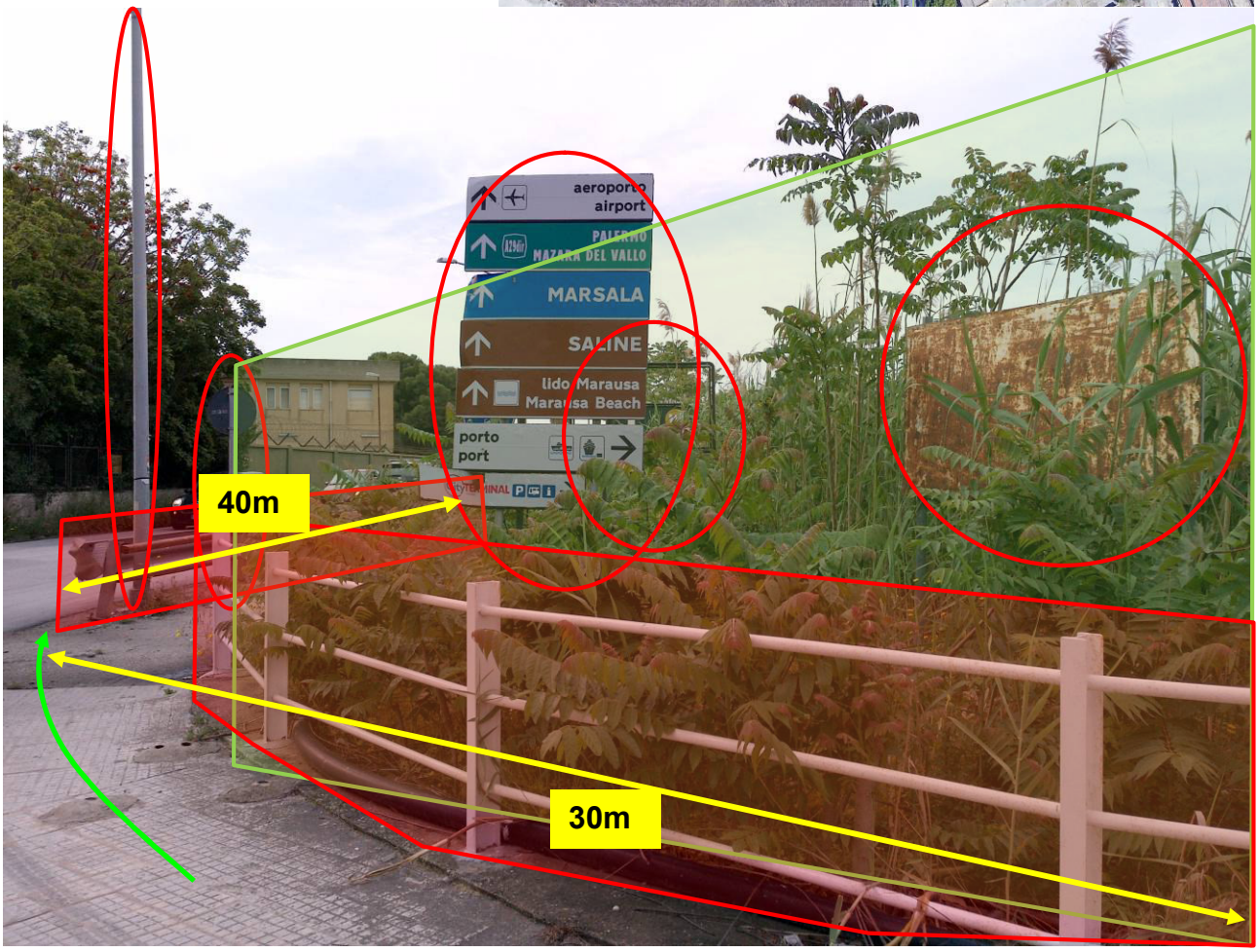


Observation 2.03
The sidewalk has to make accessible as in the picture for the entire curving radius.
N 38,01065° E 12,53571°

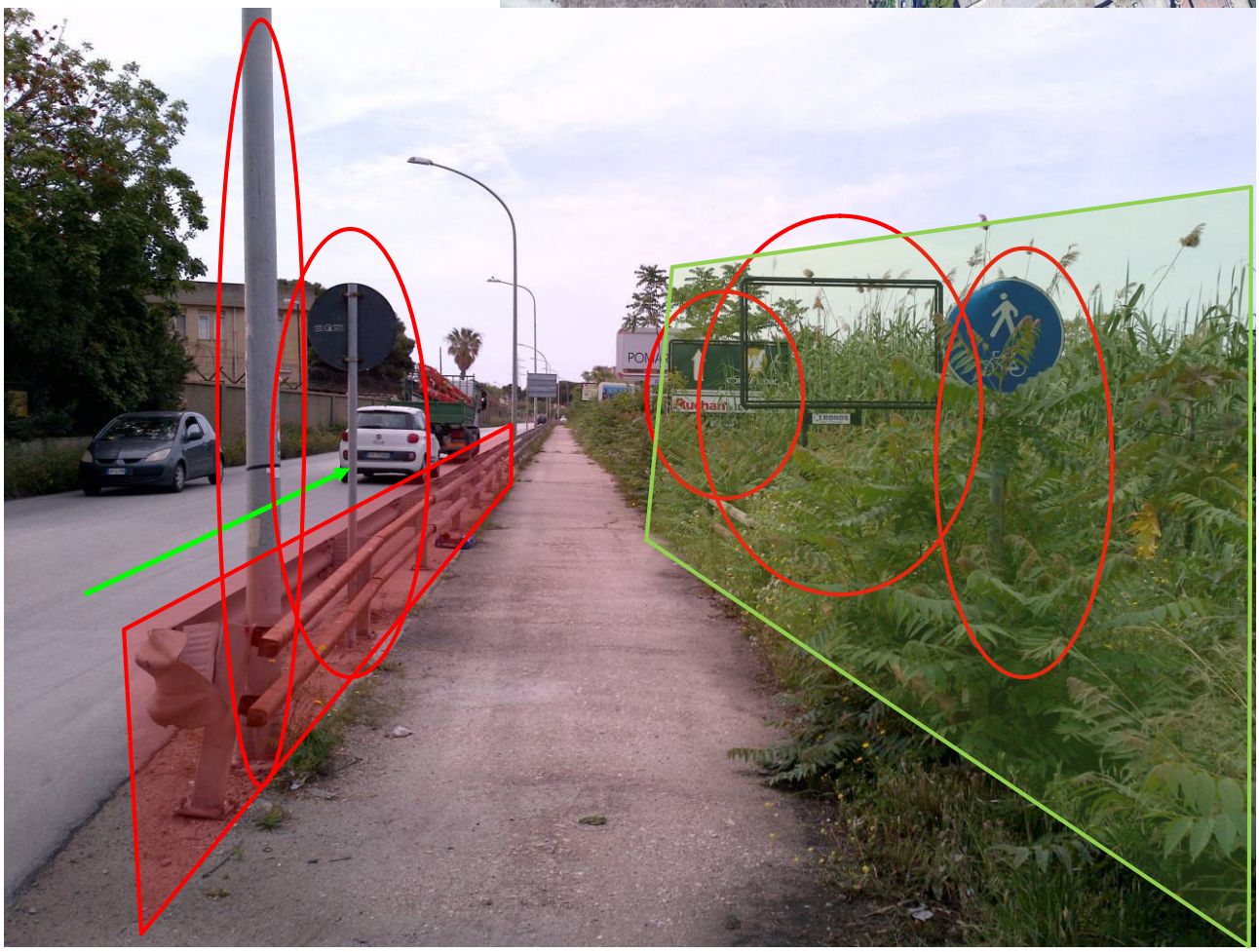


Observation 2.04
The guardrail on the right has to be removed.
The pole on the right has to be removed.
The railing on the right has to be removed.
The no. 2 road signs have to be removed.
The no. 2 billboards have to be removed.
The vegetation on the right has to be cut.
N 38,0107° E 12,53568°





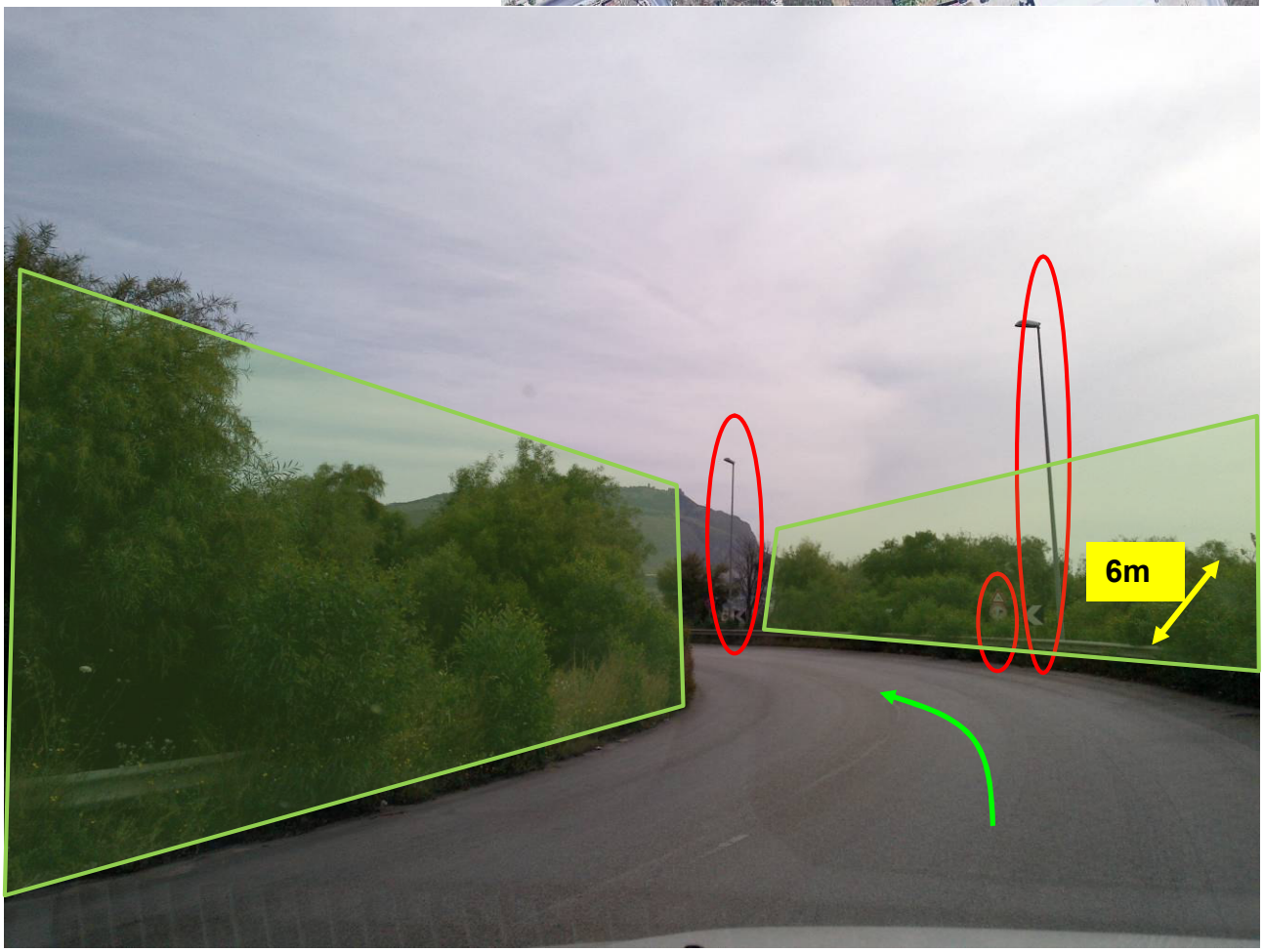
Observation 2.05
The guardrail on the right has to be removed.
The pole has to be removed.
The no. 2 road signs have to be removed.
The no. 2 billboards have to be removed.
The vegetation on the right has to be cut.
N 38,01065° E 12,53571°



Observation 3
The traffic island has to be made accessible. All road signs inside have to be removed.
Proceed against the traffic flow.
N 38.004150° E 12.535467°

Observation 4
The no. 4 poles have to be removed.
The vegetation on the right has to be cut to a depth of 6m. All the road signs in this area have to be removed.
N 38,00398° E 12,53784°

Observation 5
The no. 2 poles have to be removed.
The road sign has to be removed.
The vegetation on the right has to be cut to a depth of 6 meters.
The vegetation on the left along the bend has to be cut.
N 38,0041° E 12,53856°

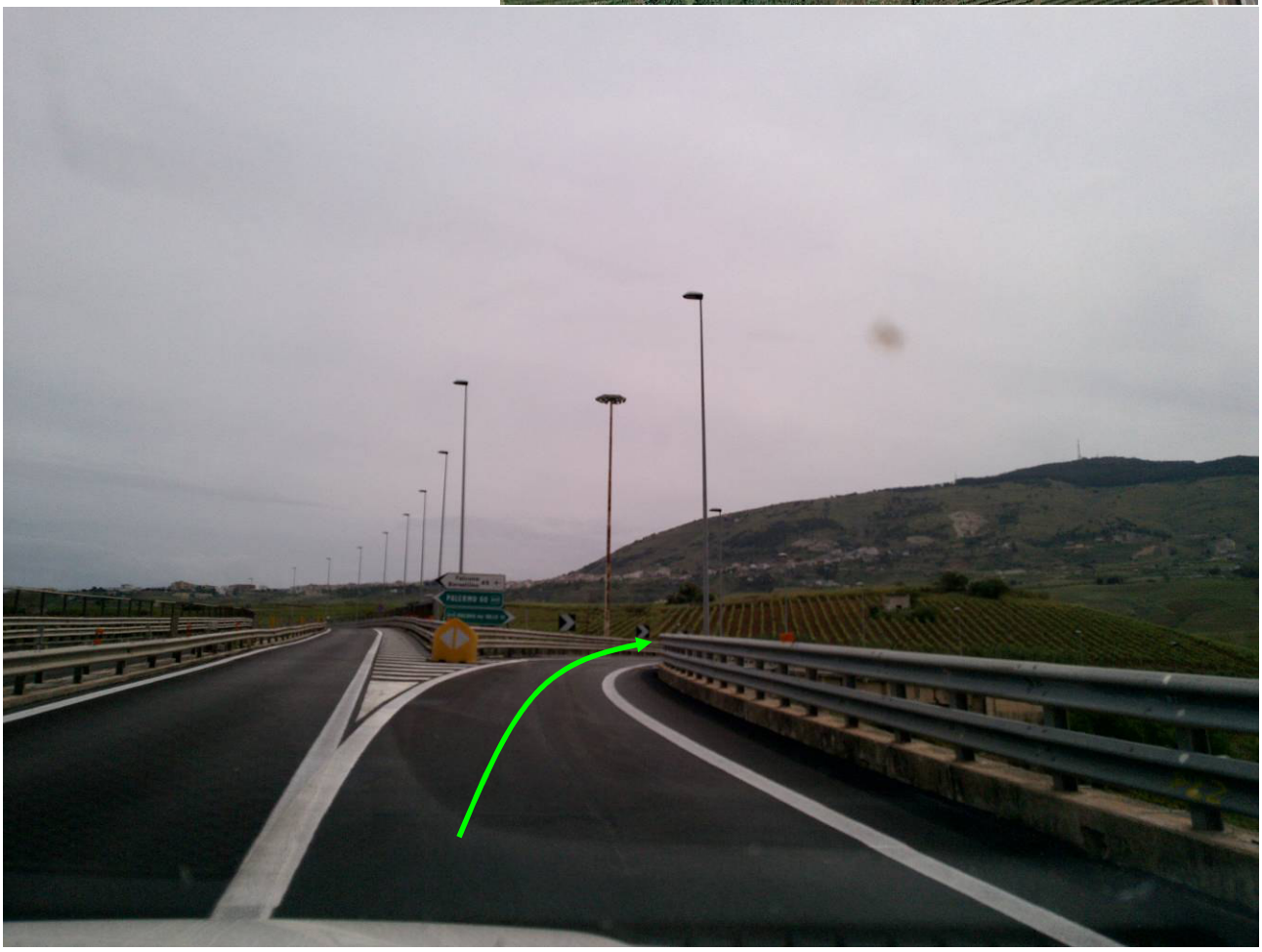


Observation 6

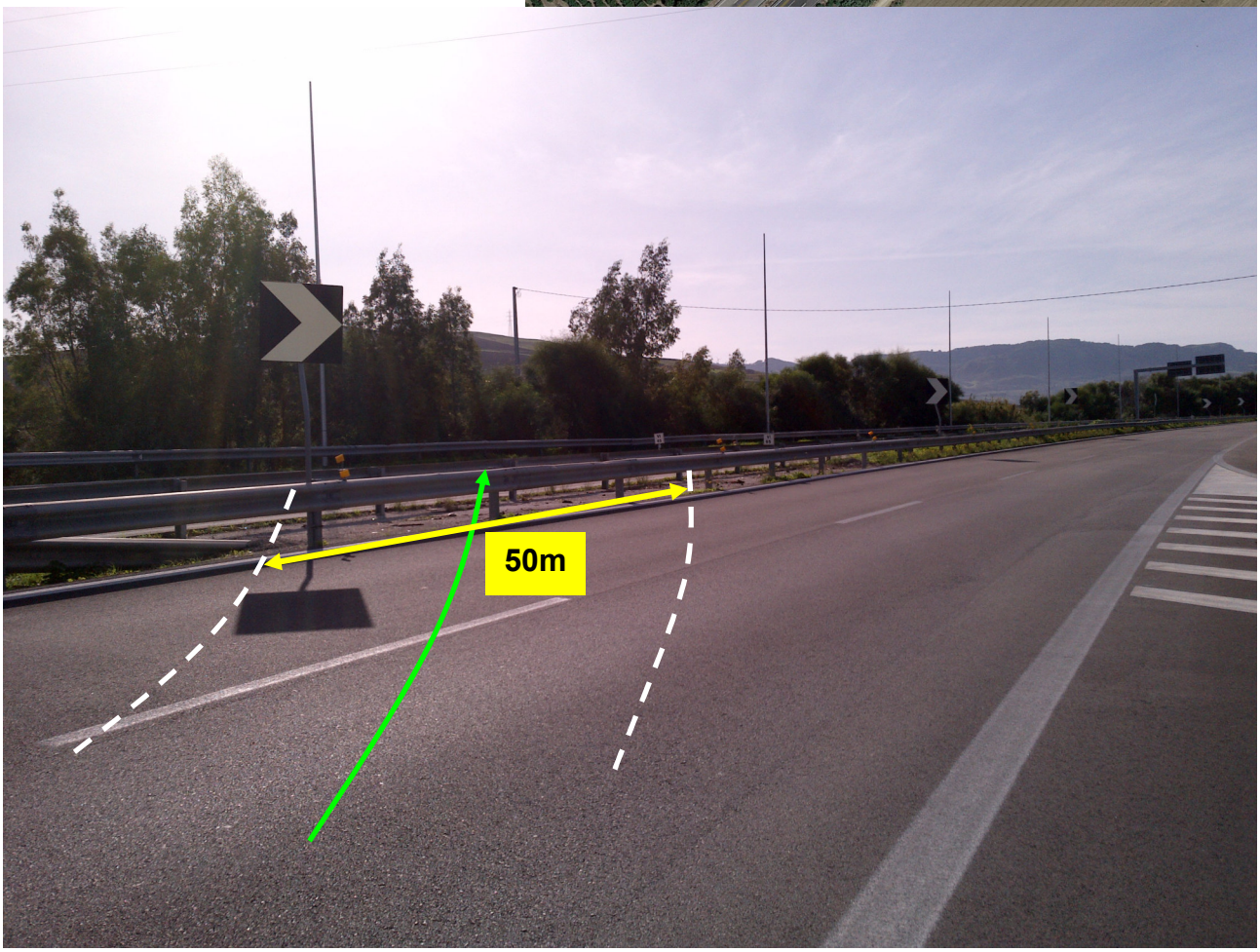
The railing on the left has to be removed (no. 5 elements).
The traffic island on the left has to be made accessible as in the picture.
N 38,01021° E 12,5536°

Observation 7
The existing bypass has to be arranged to use with all convoys.
N 38,00881° E 12,56848°

Observation 8
Proceed towards MAZARA.
N 37,96402° E 12,91892°



Observation 9.01
Open a gate 50mt large on the highway by removing guardrails and road signs.
N 37.858630° E 12.951881°



Observation 9.02

Take the exit for Gallitello in reverse from the opposite lane.

1) straight on; 2) reverse

N 37.858484° E 12.951928°