



UNIONE EUROPEA
Fondo Europeo di Sviluppo Regionale



*Mitigazione dei rischi naturali per la sicurezza e la mobilità
nelle aree montane del Mezzogiorno: Il contributo dei Collaboratori di Ricerca*

TRACCIATI STRADALI MONTANI E MITIGAZIONE DEL RISCHIO IDROGEOLOGICO: INDIVIDUAZIONE DI PERCORSI VIARI ALTERNATIVI

Responsabili Scientifici: Prof. Maurizio Diomedì e Prof. Donato Ciampa

Scuola di Ingegneria (SI – UNIBAS)

Relatore: Pietro Vuono

Ruolo: Assegnista

15 Gennaio 2024



Soluzioni stradali alternative in grado di migliorare l'accessibilità alle aree montane della Basilicata, in territori caratterizzati da un precario e instabile assetto idrogeologico.

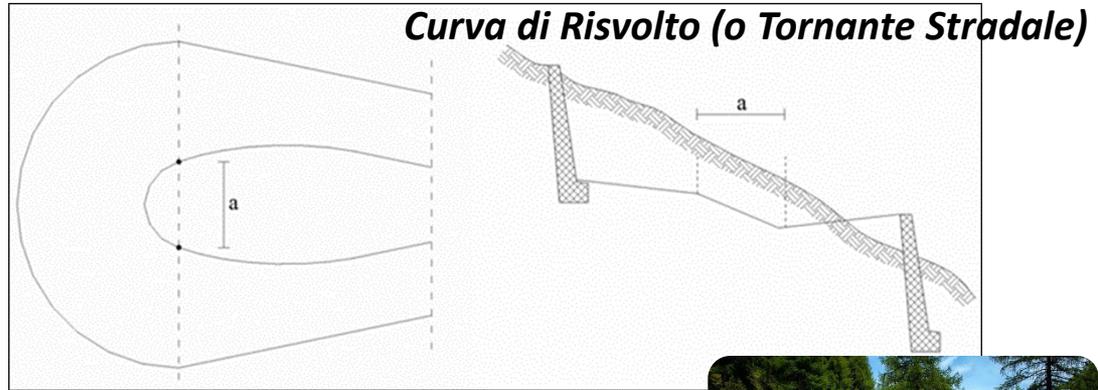
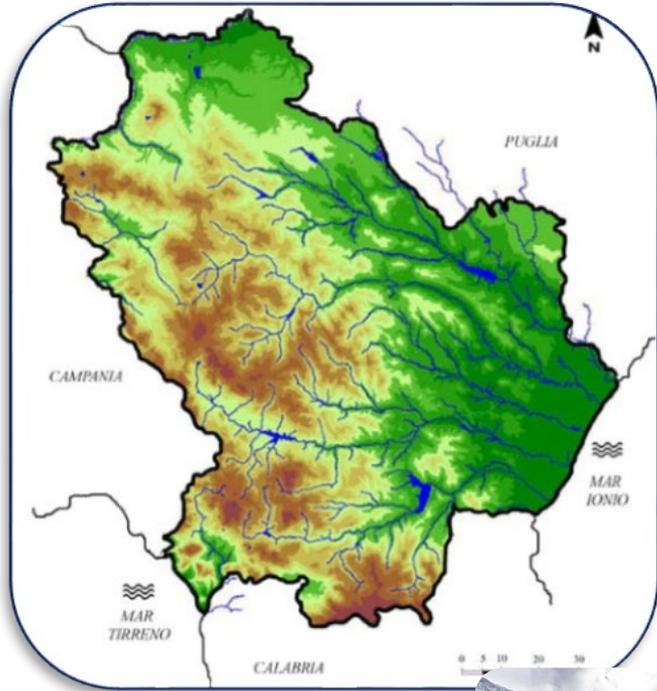
- Riduzione dei tempi di percorrenza;
- Compatibilità con la morfologia del territorio e con le aree soggette a rischio idrogeologico;
- Incremento della sicurezza stradale;
- Sostenibilità economica;
- Valorizzazione degli aspetti paesaggistici, culturali e ambientali.

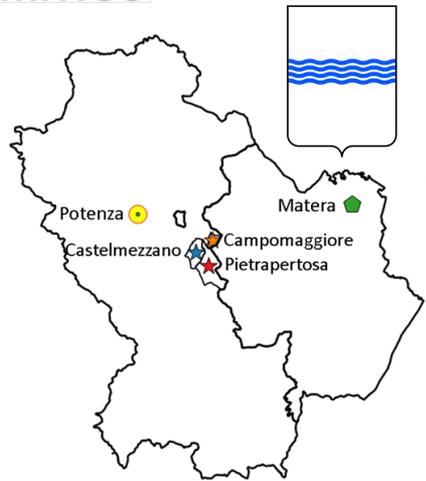
Sono stati affrontati due casi:

- **Collegamento diretto: Castelmezzano e Pietrapertosa;**
- **Collegamento "affidabile": Pietrapertosa e S.S. 407 "Basentana".**



INTRODUZIONE: LA VIABILITA' MONTANA

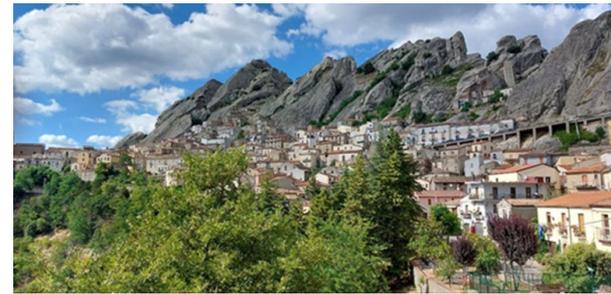




Castelmazzano



Parco Gallipoli Cognato Piccole Dolomiti Lucane



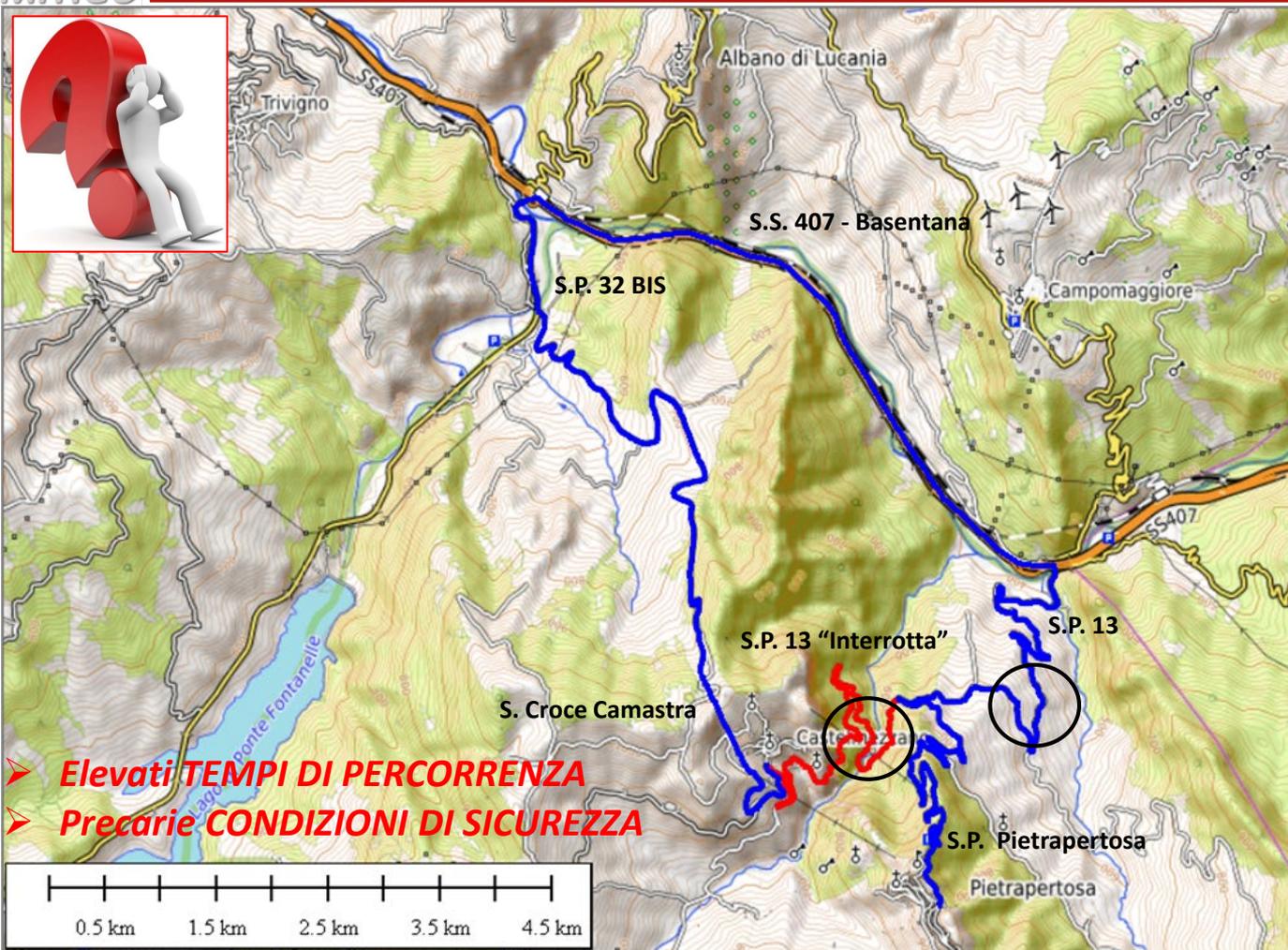
Pietrapertosa



ANALISI DELLA RETE VIARIA

- ✓ Livello gerarchico dei rami della rete;
- ✓ Stabilità idro-geologica dei versanti;
- ✓ Valutazione plano-altimetrica dei tracciati.

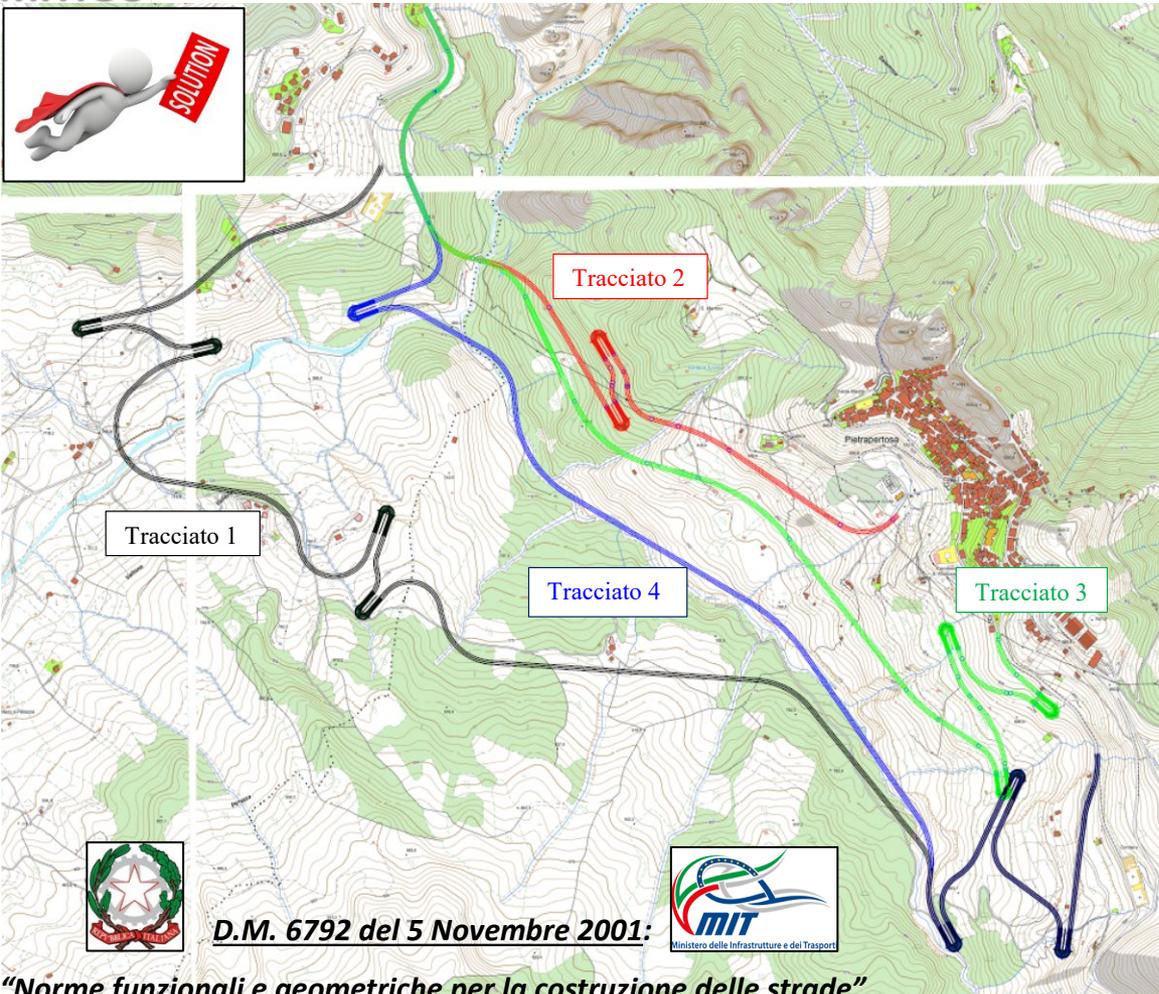
STATO DI FATTO: ANALISI DELLA RETE VIARIA DELL' AREA DI STUDIO



- **Elevati TEMPI DI PERCORRENZA**
- **Precarie CONDIZIONI DI SICUREZZA**



Castelmezzano, S.P. 13, Aprile 2017



Caratteristiche principali delle alternative progettuali

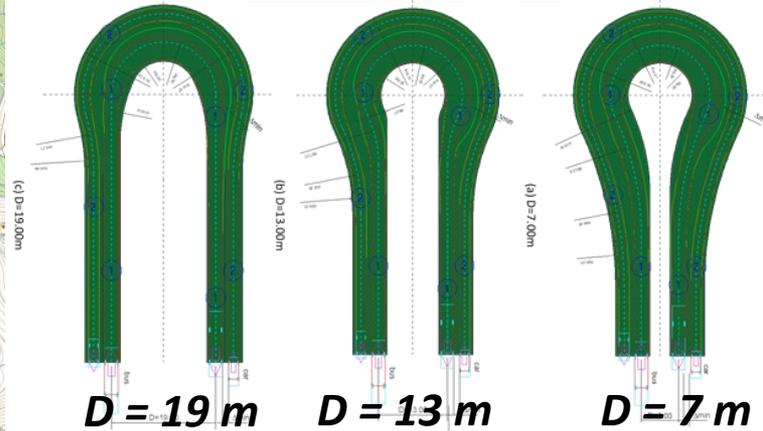
Alternativa di Tracciato	1	2	3	4
Lunghezza tracciato (m)	5925	2353	3512	4502
Lunghezza in trincea/rilevato (m)	5925	1093	2857	3449
Lunghezza in viadotto (m)	-	1260	655	1053
Tornanti	7	2	3	4
Tempo di percorrenza [40km/h (min)]	≈ 10	≈ 6	≈ 8	≈ 8



D.M. 6792 del 5 Novembre 2001:



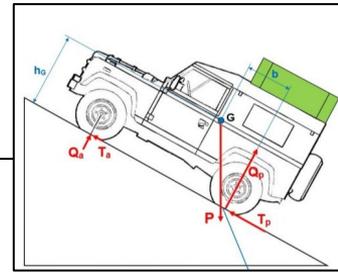
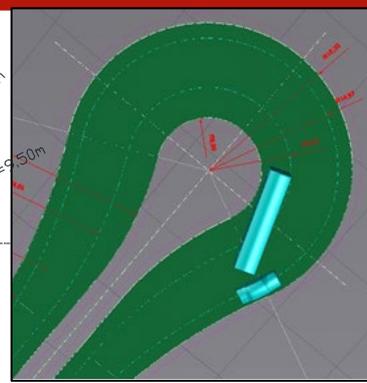
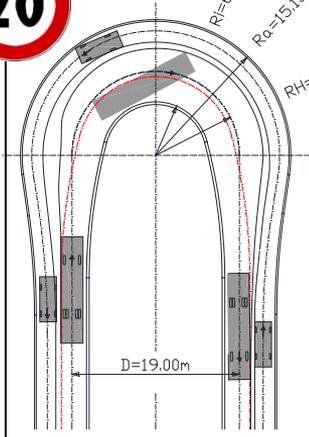
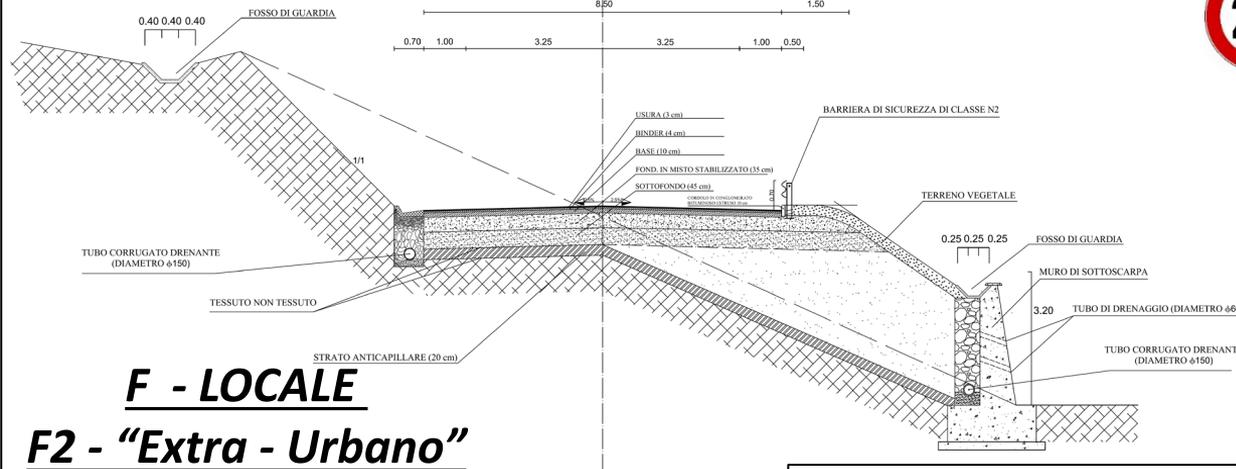
“Norme funzionali e geometriche per la costruzione delle strade”



“Mountain Roads Geometric Design: ... (Ciampa D., Olita S.)”

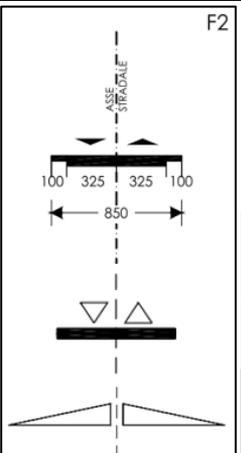
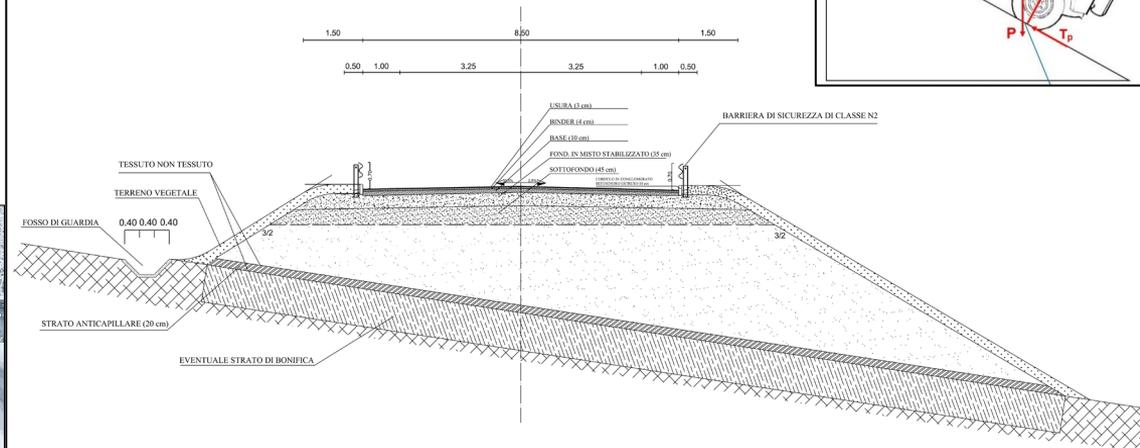
SEZIONE TRASVERSALE DELLA PIATTAFORMA STRADALE

SEZIONE TIPO A MEZZA COSTA



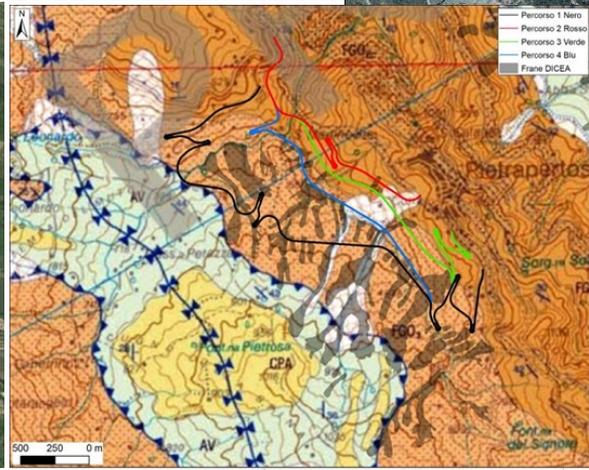
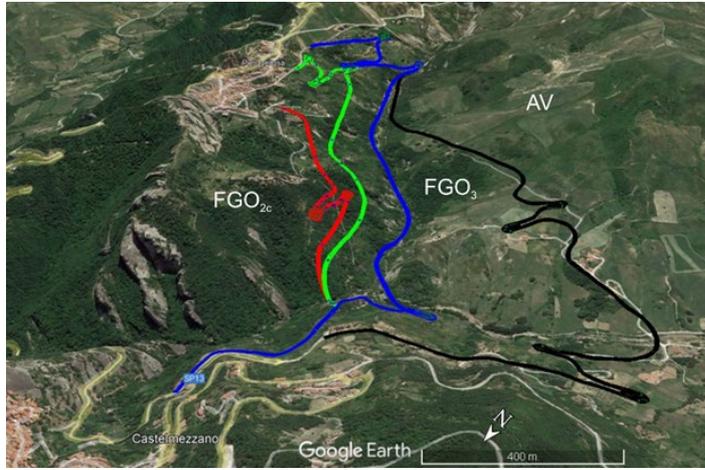
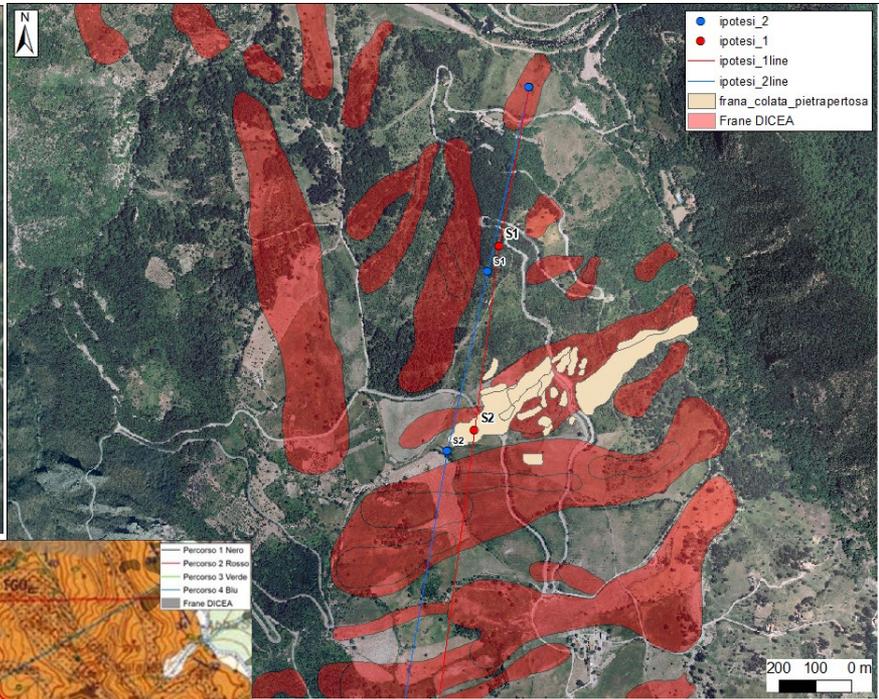
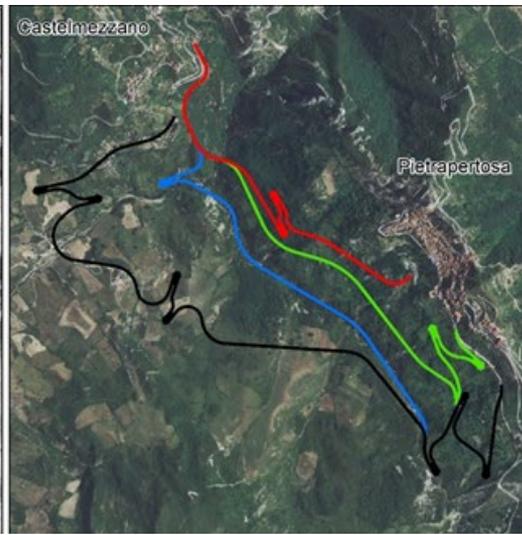
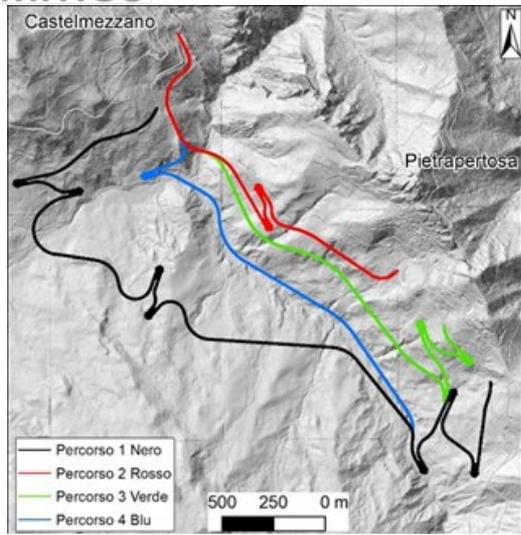
F - LOCALE
F2 - "Extra - Urbano"

SEZIONE TIPO IN RILEVATO



D.M. 5/11/2001

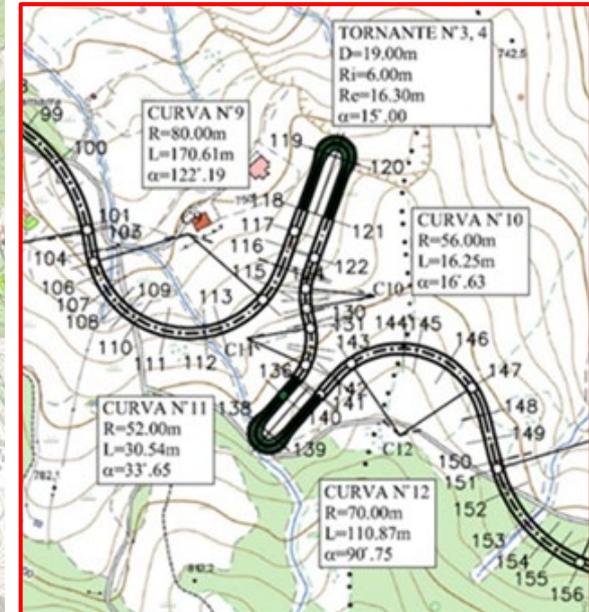
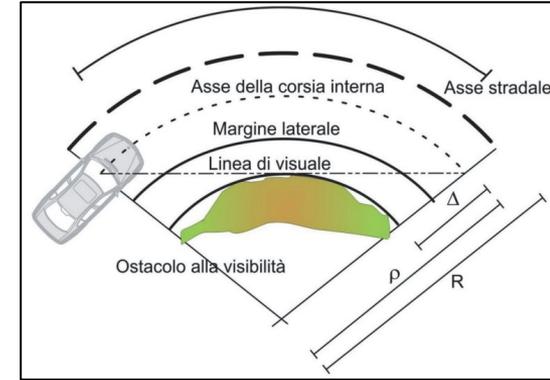
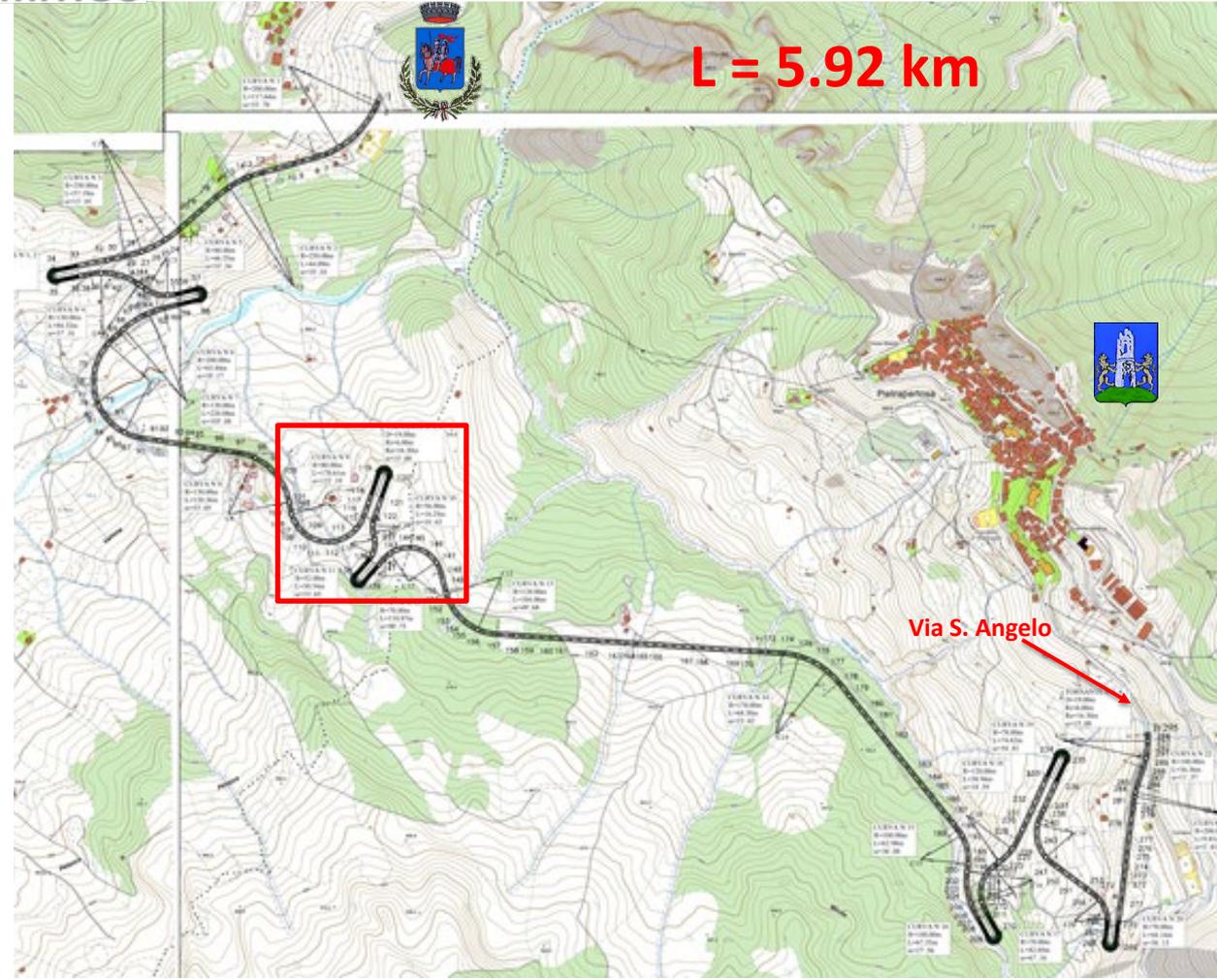




M. De Falco, L. Massaro, A. Santo
(DICEA - Università di Napoli
Federico II)

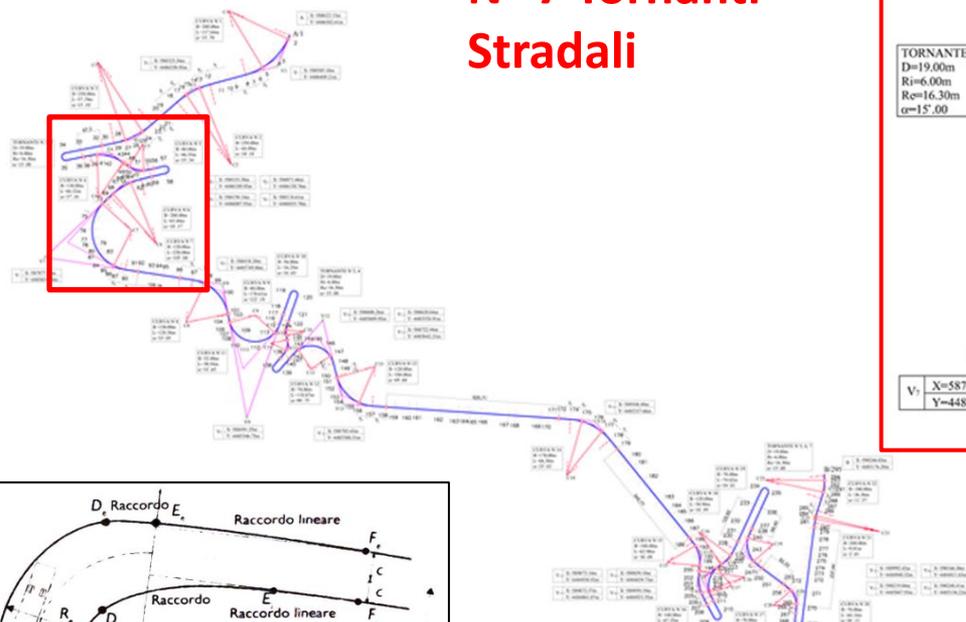


ALTERNATIVA 1: ANDAMENTO PLANIMETRICO

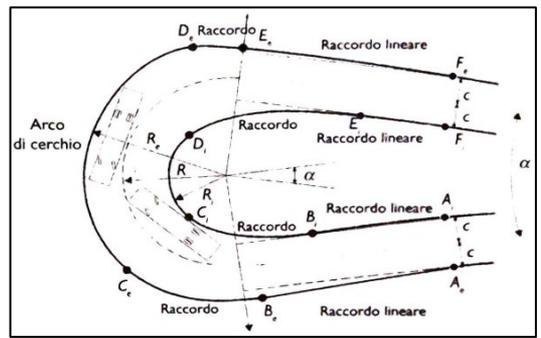
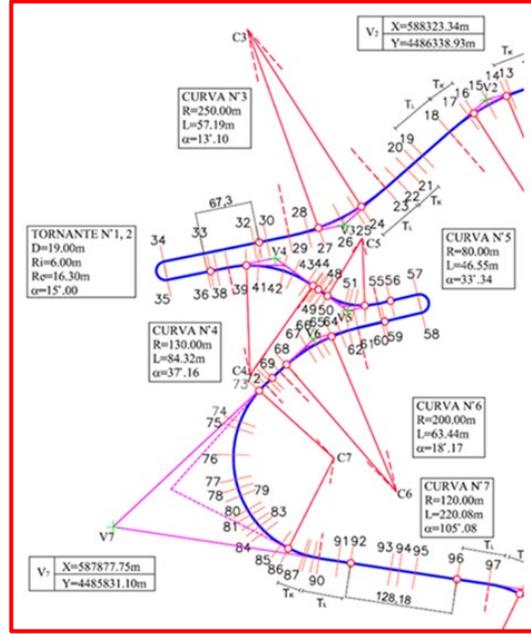


ALTERNATIVA 1: POLIGONALE DI TRACCIAMENTO

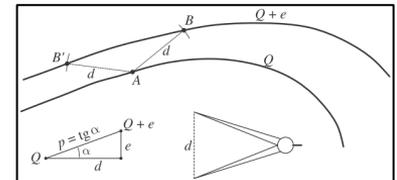
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251	Alt. 252	Alt. 253	Alt. 254	Alt. 255	Alt. 256	Alt. 257	Alt. 258	Alt. 259	Alt. 260	Alt. 261	Alt. 262	Alt. 263	Alt. 264	Alt. 265	Alt. 266	Alt. 267	Alt. 268	Alt. 269	Alt. 270	Alt. 271	Alt. 272	Alt. 273	Alt. 274	Alt. 275	Alt. 276	Alt. 277	Alt. 278	Alt. 279	Alt. 280	Alt. 281	Alt. 282	Alt. 283	Alt. 284	Alt. 285	Alt. 286	Alt. 287	Alt. 288	Alt. 289	Alt. 290	Alt. 291	Alt. 292	Alt. 293	Alt. 294	Alt. 295	Alt. 296	Alt. 297	Alt. 298	Alt. 299	Alt. 300	<table border="1"> <tr><td>Alt. 301</td><td>Alt. 302</td><td>Alt. 303</td><td>Alt. 304</td></tr> <tr><td>Alt. 305</td><td>Alt. 306</td><td>Alt. 307</td><td>Alt. 308</td></tr> <tr><td>Alt. 309</td><td>Alt. 310</td><td>Alt. 311</td><td>Alt. 312</td></tr> <tr><td>Alt. 313</td><td>Alt. 314</td><td>Alt. 315</td><td>Alt. 316</td></tr> <tr><td>Alt. 317</td><td>Alt. 318</td><td>Alt. 319</td><td>Alt. 320</td></tr> <tr><td>Alt. 321</td><td>Alt. 322</td><td>Alt. 323</td><td>Alt. 324</td></tr> <tr><td>Alt. 325</td><td>Alt. 326</td><td>Alt. 327</td><td>Alt. 328</td></tr> <tr><td>Alt. 329</td><td>Alt. 330</td><td>Alt. 331</td><td>Alt. 332</td></tr> <tr><td>Alt. 333</td><td>Alt. 334</td><td>Alt. 335</td><td>Alt. 336</td></tr> <tr><td>Alt. 337</td><td>Alt. 338</td><td>Alt. 339</td><td>Alt. 340</td></tr> <tr><td>Alt. 341</td><td>Alt. 342</td><td>Alt. 343</td><td>Alt. 344</td></tr> <tr><td>Alt. 345</td><td>Alt. 346</td><td>Alt. 347</td><td>Alt. 348</td></tr> <tr><td>Alt. 349</td><td>Alt. 350</td><td>Alt. 351</td><td>Alt. 352</td></tr> <tr><td>Alt. 353</td><td>Alt. 354</td><td>Alt. 355</td><td>Alt. 356</td></tr> <tr><td>Alt. 357</td><td>Alt. 358</td><td>Alt. 359</td><td>Alt. 360</td></tr> <tr><td>Alt. 361</td><td>Alt. 362</td><td>Alt. 363</td><td>Alt. 364</td></tr> <tr><td>Alt. 365</td><td>Alt. 366</td><td>Alt. 367</td><td>Alt. 368</td></tr> <tr><td>Alt. 369</td><td>Alt. 370</td><td>Alt. 371</td><td>Alt. 372</td></tr> <tr><td>Alt. 373</td><td>Alt. 374</td><td>Alt. 375</td><td>Alt. 376</td></tr> <tr><td>Alt. 377</td><td>Alt. 378</td><td>Alt. 379</td><td>Alt. 380</td></tr> <tr><td>Alt. 381</td><td>Alt. 382</td><td>Alt. 383</td><td>Alt. 384</td></tr> <tr><td>Alt. 385</td><td>Alt. 386</td><td>Alt. 387</td><td>Alt. 388</td></tr> <tr><td>Alt. 389</td><td>Alt. 390</td><td>Alt. 391</td><td>Alt. 392</td></tr> <tr><td>Alt. 393</td><td>Alt. 394</td><td>Alt. 395</td><td>Alt. 396</td></tr> <tr><td>Alt. 397</td><td>Alt. 398</td><td>Alt. 399</td><td>Alt. 400</td></tr> </table>	Alt. 301	Alt. 302	Alt. 303	Alt. 304	Alt. 305	Alt. 306	Alt. 307	Alt. 308	Alt. 309	Alt. 310	Alt. 311	Alt. 312	Alt. 313	Alt. 314	Alt. 315	Alt. 316	Alt. 317	Alt. 318	Alt. 319	Alt. 320	Alt. 321	Alt. 322	Alt. 323	Alt. 324	Alt. 325	Alt. 326	Alt. 327	Alt. 328	Alt. 329	Alt. 330	Alt. 331	Alt. 332	Alt. 333	Alt. 334	Alt. 335	Alt. 336	Alt. 337	Alt. 338	Alt. 339	Alt. 340	Alt. 341	Alt. 342	Alt. 343	Alt. 344	Alt. 345	Alt. 346	Alt. 347	Alt. 348	Alt. 349	Alt. 350	Alt. 351	Alt. 352	Alt. 353	Alt. 354	Alt. 355	Alt. 356	Alt. 357	Alt. 358	Alt. 359	Alt. 360	Alt. 361	Alt. 362	Alt. 363	Alt. 364	Alt. 365	Alt. 366	Alt. 367	Alt. 368	Alt. 369	Alt. 370	Alt. 371	Alt. 372	Alt. 373	Alt. 374	Alt. 375	Alt. 376	Alt. 377	Alt. 378	Alt. 379	Alt. 380	Alt. 381	Alt. 382	Alt. 383	Alt. 384	Alt. 385	Alt. 386	Alt. 387	Alt. 388	Alt. 389	Alt. 390	Alt. 391	Alt. 392	Alt. 393	Alt. 394	Alt. 395	Alt. 396	Alt. 397	Alt. 398	Alt. 399	Alt. 400
Alt. 1	Alt. 2	Alt. 3	Alt. 4																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 5	Alt. 6	Alt. 7	Alt. 8																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 9	Alt. 10	Alt. 11	Alt. 12																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 13	Alt. 14	Alt. 15	Alt. 16																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 17	Alt. 18	Alt. 19	Alt. 20																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 21	Alt. 22	Alt. 23	Alt. 24																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 25	Alt. 26	Alt. 27	Alt. 28																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 29	Alt. 30	Alt. 31	Alt. 32																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 33	Alt. 34	Alt. 35	Alt. 36																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 37	Alt. 38	Alt. 39	Alt. 40																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 41	Alt. 42	Alt. 43	Alt. 44																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 45	Alt. 46	Alt. 47	Alt. 48																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 49	Alt. 50	Alt. 51	Alt. 52																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 53	Alt. 54	Alt. 55	Alt. 56																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 57	Alt. 58	Alt. 59	Alt. 60																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 61	Alt. 62	Alt. 63	Alt. 64																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 65	Alt. 66	Alt. 67	Alt. 68																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 69	Alt. 70	Alt. 71	Alt. 72																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 73	Alt. 74	Alt. 75	Alt. 76																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 77	Alt. 78	Alt. 79	Alt. 80																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 81	Alt. 82	Alt. 83	Alt. 84																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 85	Alt. 86	Alt. 87	Alt. 88																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 89	Alt. 90	Alt. 91	Alt. 92																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 93	Alt. 94	Alt. 95	Alt. 96																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 97	Alt. 98	Alt. 99	Alt. 100																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 101	Alt. 102	Alt. 103	Alt. 104																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 105	Alt. 106	Alt. 107	Alt. 108																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 109	Alt. 110	Alt. 111	Alt. 112																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 113	Alt. 114	Alt. 115	Alt. 116																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 117	Alt. 118	Alt. 119	Alt. 120																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 121	Alt. 122	Alt. 123	Alt. 124																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 125	Alt. 126	Alt. 127	Alt. 128																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 129	Alt. 130	Alt. 131	Alt. 132																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 133	Alt. 134	Alt. 135	Alt. 136																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 137	Alt. 138	Alt. 139	Alt. 140																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 141	Alt. 142	Alt. 143	Alt. 144																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 145	Alt. 146	Alt. 147	Alt. 148																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 149	Alt. 150	Alt. 151	Alt. 152																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 153	Alt. 154	Alt. 155	Alt. 156																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 157	Alt. 158	Alt. 159	Alt. 160																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 161	Alt. 162	Alt. 163	Alt. 164																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 165	Alt. 166	Alt. 167	Alt. 168																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 169	Alt. 170	Alt. 171	Alt. 172																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 173	Alt. 174	Alt. 175	Alt. 176																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 177	Alt. 178	Alt. 179	Alt. 180																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 181	Alt. 182	Alt. 183	Alt. 184																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 185	Alt. 186	Alt. 187	Alt. 188																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 189	Alt. 190	Alt. 191	Alt. 192																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 193	Alt. 194	Alt. 195	Alt. 196																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 197	Alt. 198	Alt. 199	Alt. 200																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 201	Alt. 202	Alt. 203	Alt. 204																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 205	Alt. 206	Alt. 207	Alt. 208																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 209	Alt. 210	Alt. 211	Alt. 212																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 213	Alt. 214	Alt. 215	Alt. 216																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 217	Alt. 218	Alt. 219	Alt. 220																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 221	Alt. 222	Alt. 223	Alt. 224																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 225	Alt. 226	Alt. 227	Alt. 228																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 229	Alt. 230	Alt. 231	Alt. 232																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 233	Alt. 234	Alt. 235	Alt. 236																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 237	Alt. 238	Alt. 239	Alt. 240																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 241	Alt. 242	Alt. 243	Alt. 244																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 245	Alt. 246	Alt. 247	Alt. 248																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 249	Alt. 250	Alt. 251	Alt. 252																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 253	Alt. 254	Alt. 255	Alt. 256																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 257	Alt. 258	Alt. 259	Alt. 260																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 261	Alt. 262	Alt. 263	Alt. 264																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 265	Alt. 266	Alt. 267	Alt. 268																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 269	Alt. 270	Alt. 271	Alt. 272																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 273	Alt. 274	Alt. 275	Alt. 276																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 277	Alt. 278	Alt. 279	Alt. 280																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 281	Alt. 282	Alt. 283	Alt. 284																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 285	Alt. 286	Alt. 287	Alt. 288																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 289	Alt. 290	Alt. 291	Alt. 292																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 293	Alt. 294	Alt. 295	Alt. 296																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 297	Alt. 298	Alt. 299	Alt. 300																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 301	Alt. 302	Alt. 303	Alt. 304																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 305	Alt. 306	Alt. 307	Alt. 308																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 309	Alt. 310	Alt. 311	Alt. 312																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 313	Alt. 314	Alt. 315	Alt. 316																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 317	Alt. 318	Alt. 319	Alt. 320																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 321	Alt. 322	Alt. 323	Alt. 324																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 325	Alt. 326	Alt. 327	Alt. 328																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 329	Alt. 330	Alt. 331	Alt. 332																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 333	Alt. 334	Alt. 335	Alt. 336																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 337	Alt. 338	Alt. 339	Alt. 340																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 341	Alt. 342	Alt. 343	Alt. 344																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 345	Alt. 346	Alt. 347	Alt. 348																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 349	Alt. 350	Alt. 351	Alt. 352																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 353	Alt. 354	Alt. 355	Alt. 356																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 357	Alt. 358	Alt. 359	Alt. 360																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 361	Alt. 362	Alt. 363	Alt. 364																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 365	Alt. 366	Alt. 367	Alt. 368																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 369	Alt. 370	Alt. 371	Alt. 372																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 373	Alt. 374	Alt. 375	Alt. 376																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 377	Alt. 378	Alt. 379	Alt. 380																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 381	Alt. 382	Alt. 383	Alt. 384																																																																																																																																																																																																																																																																																																																																																																																																																
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Alt. 389	Alt. 390	Alt. 391	Alt. 392																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 393	Alt. 394	Alt. 395	Alt. 396																																																																																																																																																																																																																																																																																																																																																																																																																
Alt. 397	Alt. 398	Alt. 399	Alt. 400																																																																																																																																																																																																																																																																																																																																																																																																																



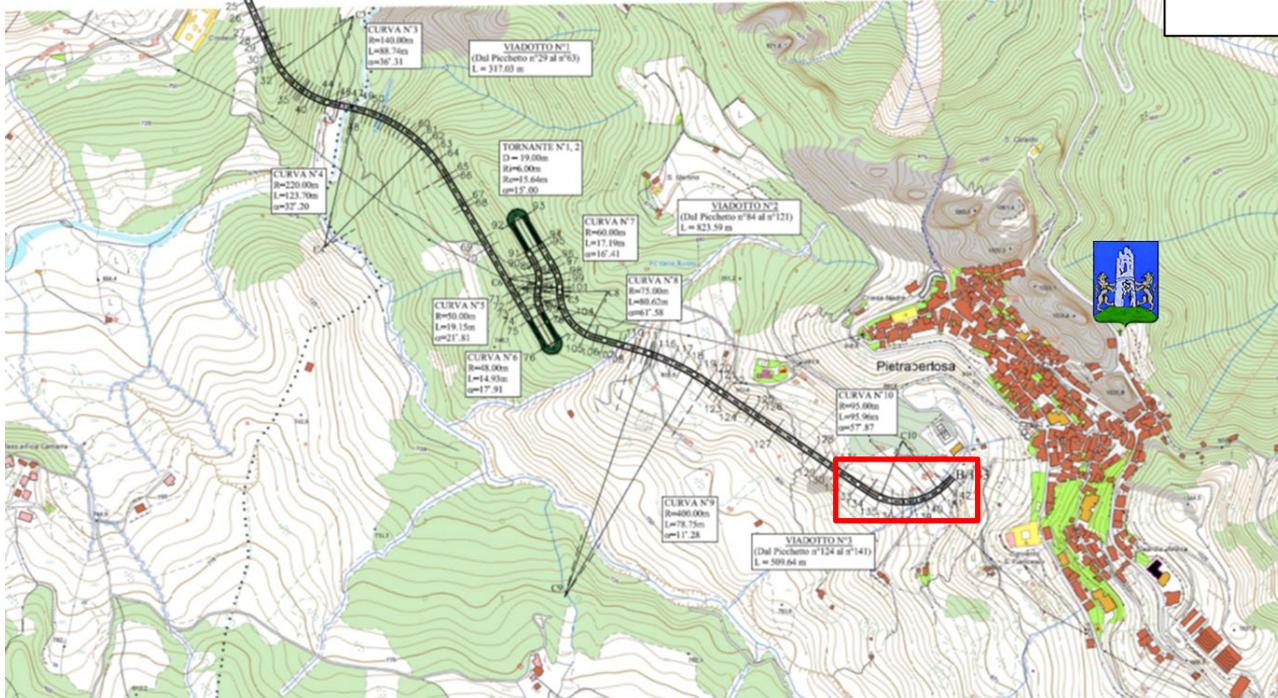
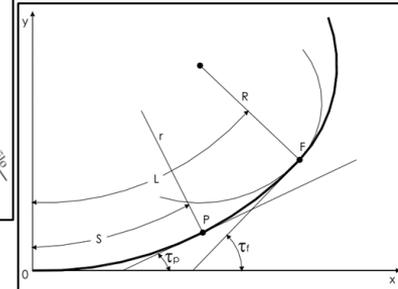
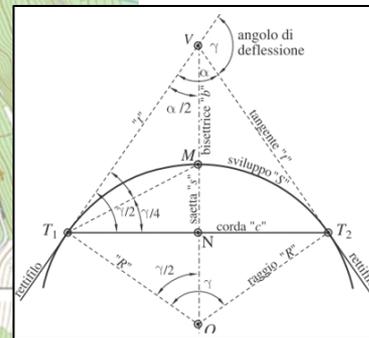
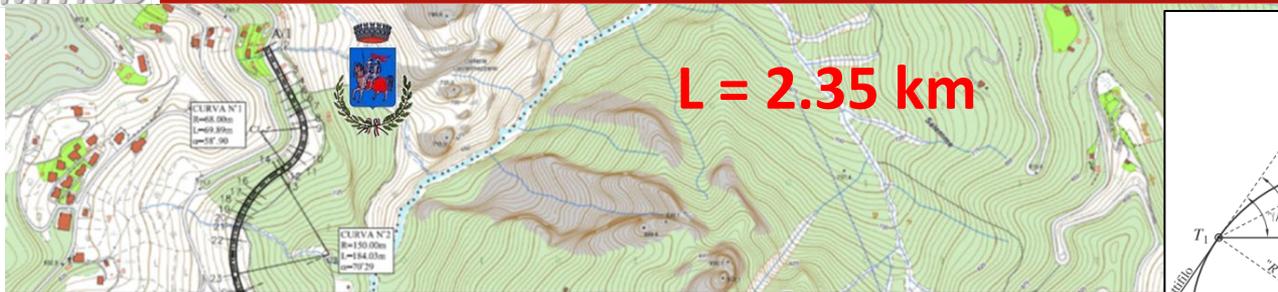
N° 7 Tornanti Stradali



$D = 19 m$
 $R_{INT} = 6 m$
 $D_{MIN} = 1.05 m$
 $\alpha = 15^\circ$

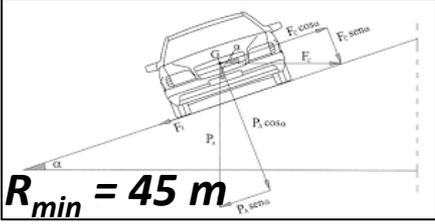


ALTERNATIVA 2: ANDAMENTO PLANIMETRICO



ALTERNATIVA 2: POLIGONALE DI TRACCIAMENTO

GLIOTTOIDE RETTIFILLO - CERCHIO K1	
Aa=0m	R=150m
Ra=0m	R2=150m
L=52.94 m	L2=4.53m
X=+52.14 m	X2=+0.33m
Y=+0.80 m	Y2=+0.22m
T=24.73°	T2=4.40°
Xa=59.34 m	Xa2=7.95m
Ya=69.71m	Ya2=10.01m
Δa=7.71m	Δa2=2.11m
Ta=+3.20m	Ta2=0.89m
Lx=17.24m	Lx2=4.44m
px=0.27°	px2=0.17°
lx=53.39m	lx2=4.34m



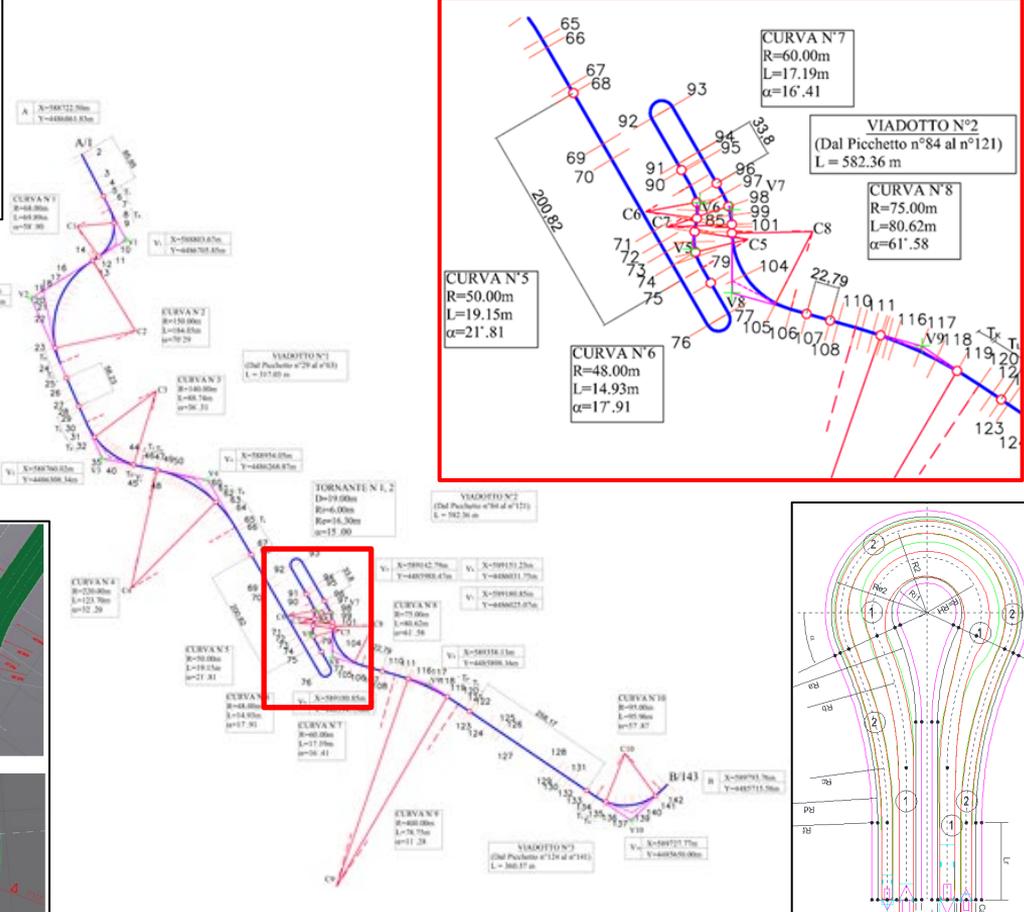
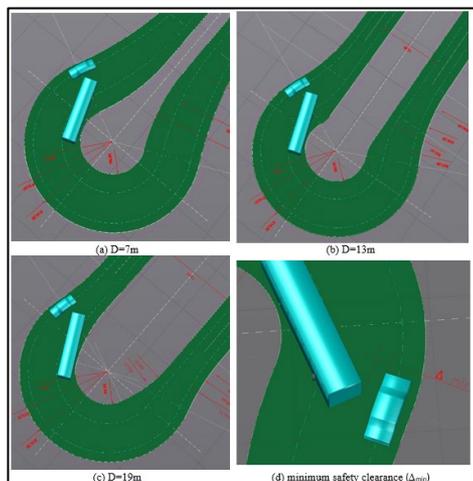
GLIOTTOIDE RETTIFILLO - CERCHIO K2	
Aa=0m	R=150m
Ra=0m	R2=150m
L=58.81 m	L2=4.53 m
X=+58.88 m	X2=+0.72 m
Y=+0.64 m	Y2=+0.22 m
T=24.50°	T2=4.40°
Xa=70.42 m	Xa2=1.50 m
Ya=70.96m	Ya2=1.18m
Δa=0.96m	Δa2=0.19m
Ta=39.21m	Ta2=0.07m
Lx=18.73m	Lx2=1.54m
px=0.17°	px2=0.17°
lx=58.03m	lx2=2.29m

GLIOTTOIDE DI FLESSO K3	
Aa=10m	R=200m
R1=+220m	R2=+140m
L1=+7.24m	L2=+7.21m
X1=+17.25m	X2=+7.08m
Y1=+0.23 m	Y2=+0.22m
T=0.52°	T2=0.16°
Xa=+62m	Xa2=+3.85m
Ya=221.09m	Ya2=222.06m
Δa=0.08m	Δa2=0.22m
Ta=+1.09m	Ta2=+0.22m
Lx=+6.75m	Lx2=+0.03m
px=0.02°	px2=0.00°
lx=17.25m	lx2=1.02m

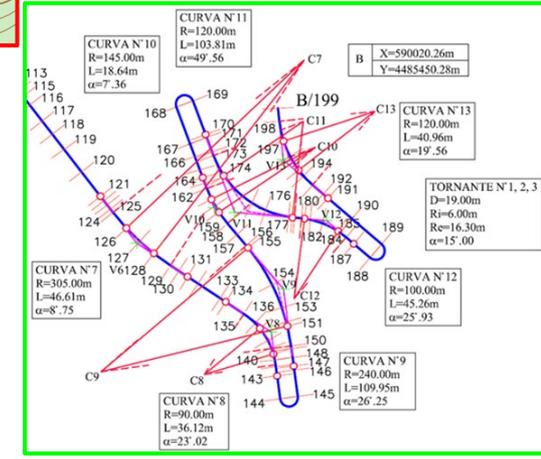
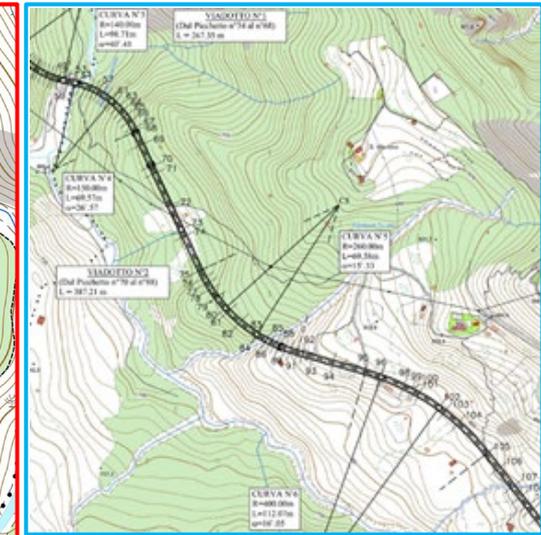
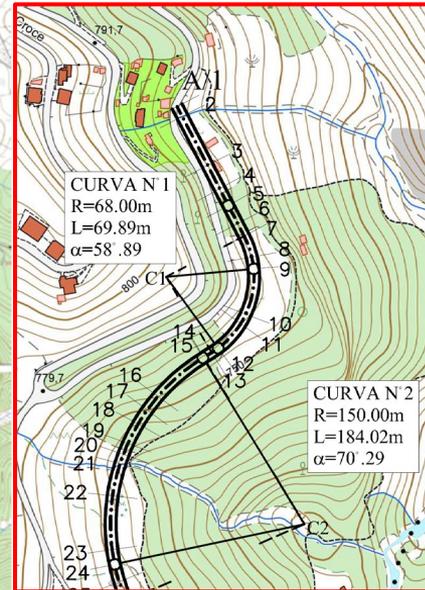
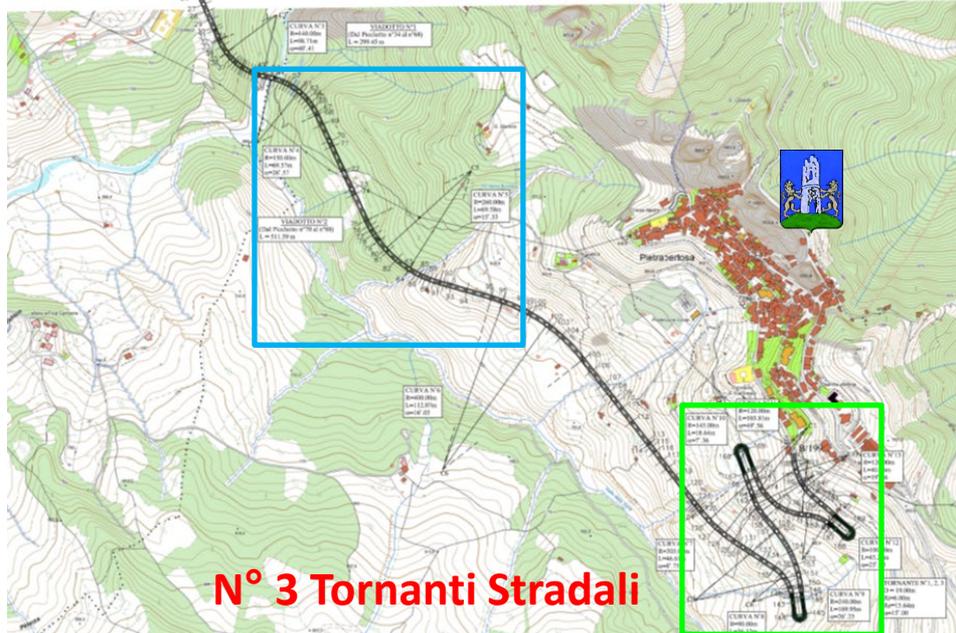
GLIOTTOIDE RETTIFILLO - CERCHIO K4	
Aa=0m	R=150m
Ra=0m	R2=150m
L=10.00m	L2=4.53m
X=+31.87m	X2=+0.12m
Y=+0.28m	Y2=+0.22m
T=20.57°	T2=3.90°
Xa=19.95m	Xa2=3.78m
Ya=0.85m	Ya2=0.03m
Δa=0.85m	Δa2=0.03m
Ta=+1.33m	Ta2=+0.04m
Lx=15.67m	Lx2=+0.13m
px=0.78°	px2=0.17°
lx=32.18m	lx2=4.46m

GLIOTTOIDE RETTIFILLO - CERCHIO K5	
Aa=0m	R=150m
Ra=0m	R2=150m
L=32.00m	L2=4.53m
X=+32.00m	X2=+23.87m
Y=+0.82m	Y2=+1.80m
T=22.10°	T2=12.27°
Xa=18.00m	Xa2=12.02 m
Ya=48.96m	Ya2=60.40m
Δa=0.96m	Δa2=0.80m
Ta=+1.24m	Ta2=2.22m
Lx=17.30m	Lx2=8.05m
px=1.30°	px2=0.27°
lx=33.56m	lx2=13.9m

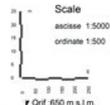
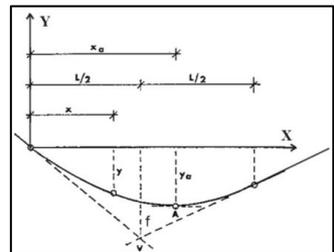
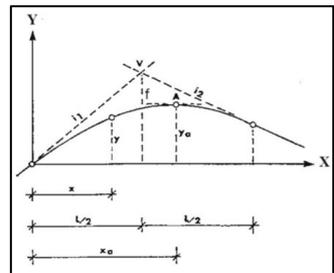
GLIOTTOIDE DI FLESSO K11	
Aa=18.00m	R=150m
R1=+75m	R2=+90m
L1=+3.63m	L2=+4.53m
X1=+0.63m	X2=+0.54m
Y1=+0.63 m	Y2=+0.66m
T=0.90°	T2=1.04°
Xa=+1.81m	Xa2=2.27m
Ya=18.00m	Ya2=0.01m
Δa=0.01m	Δa2=0.01m
Ta=+0.42m	Ta2=+0.48m
Lx=+1.21m	Lx2=+0.24m
px=0.31°	px2=0.44°
lx=3.63m	lx2=4.53m



ALTERNATIVA 3: ANDAMENTO PLANIMETRICO



**ASSENZA DI
 CRITICITA' RILEVANTI**



Picchetto

Quote terreno s.l.m.

Quote progetto s.l.m.

Distanze parziali (m)

Distanze progressive (m)

Distanze altimetriche (m)

Diagramma della curvatura

Curvatura (m.s.l.m.)

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...

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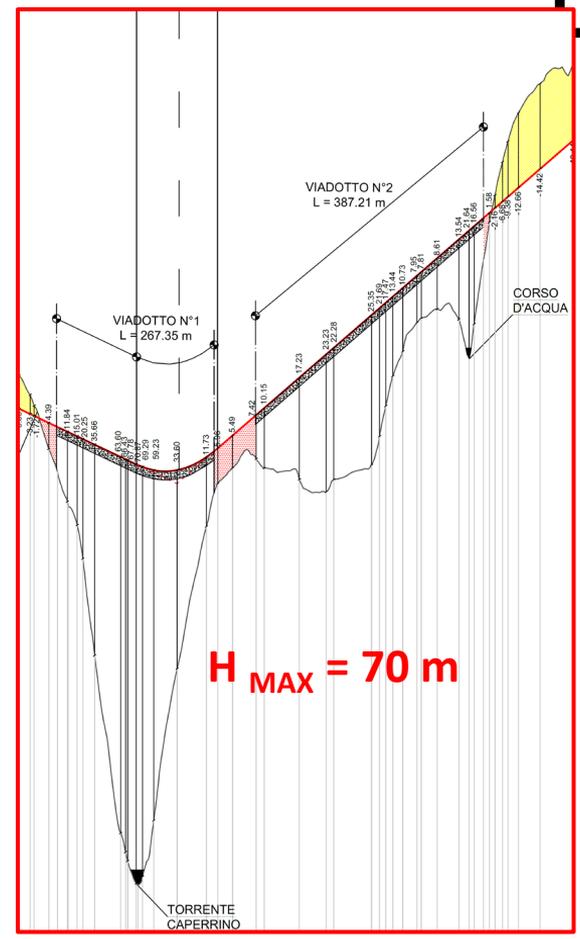
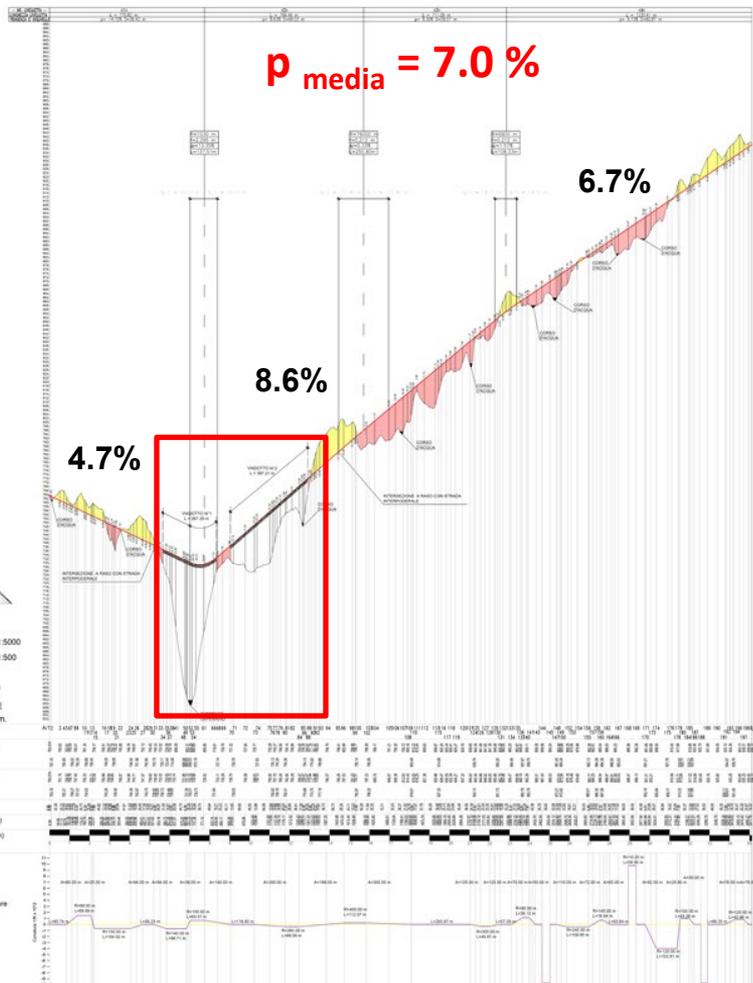
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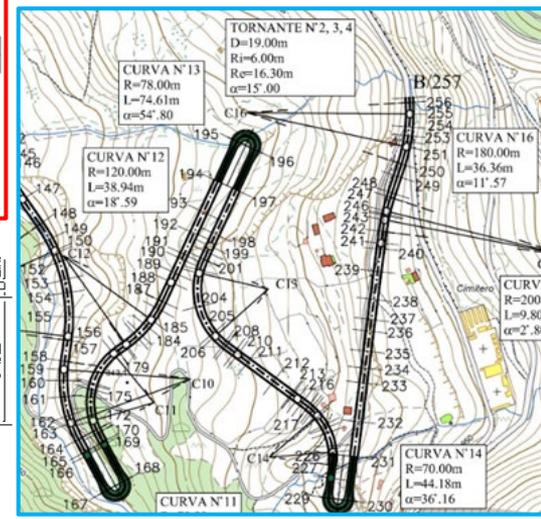
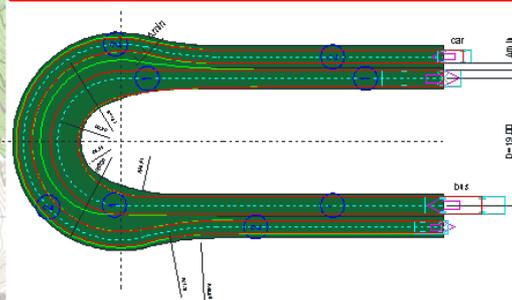
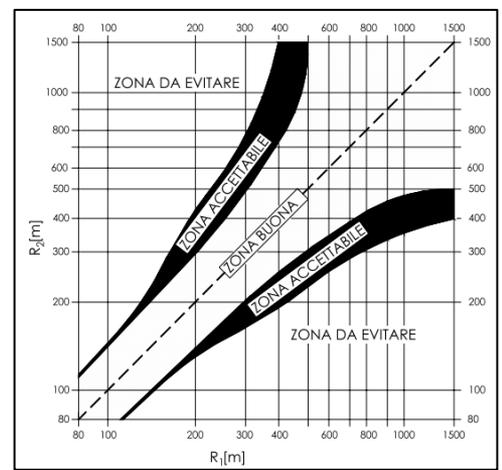
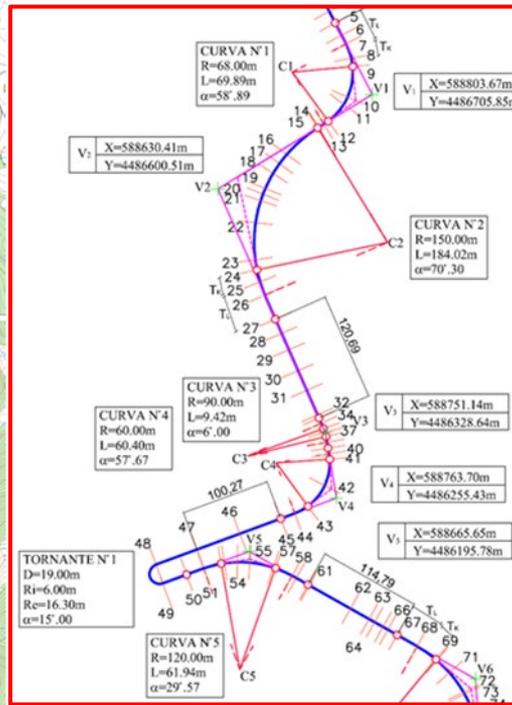
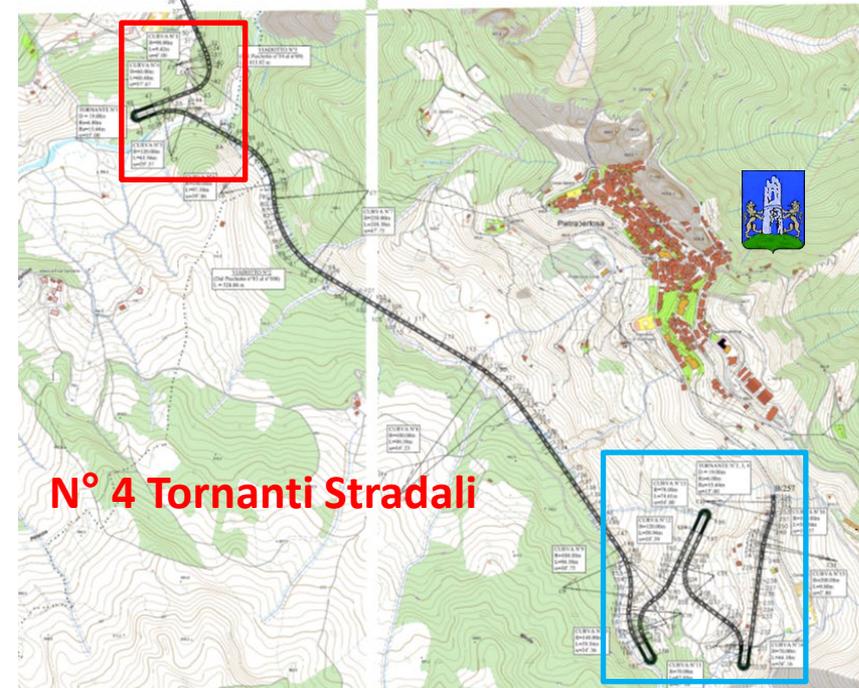
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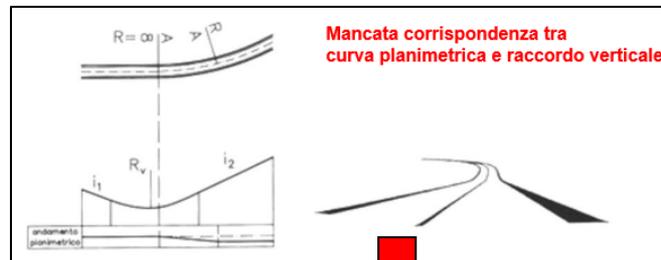
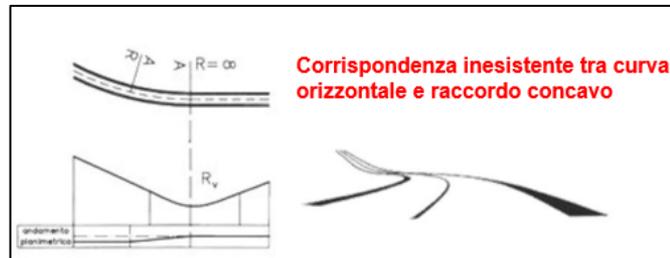
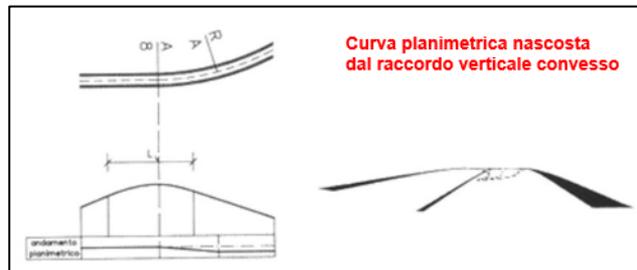
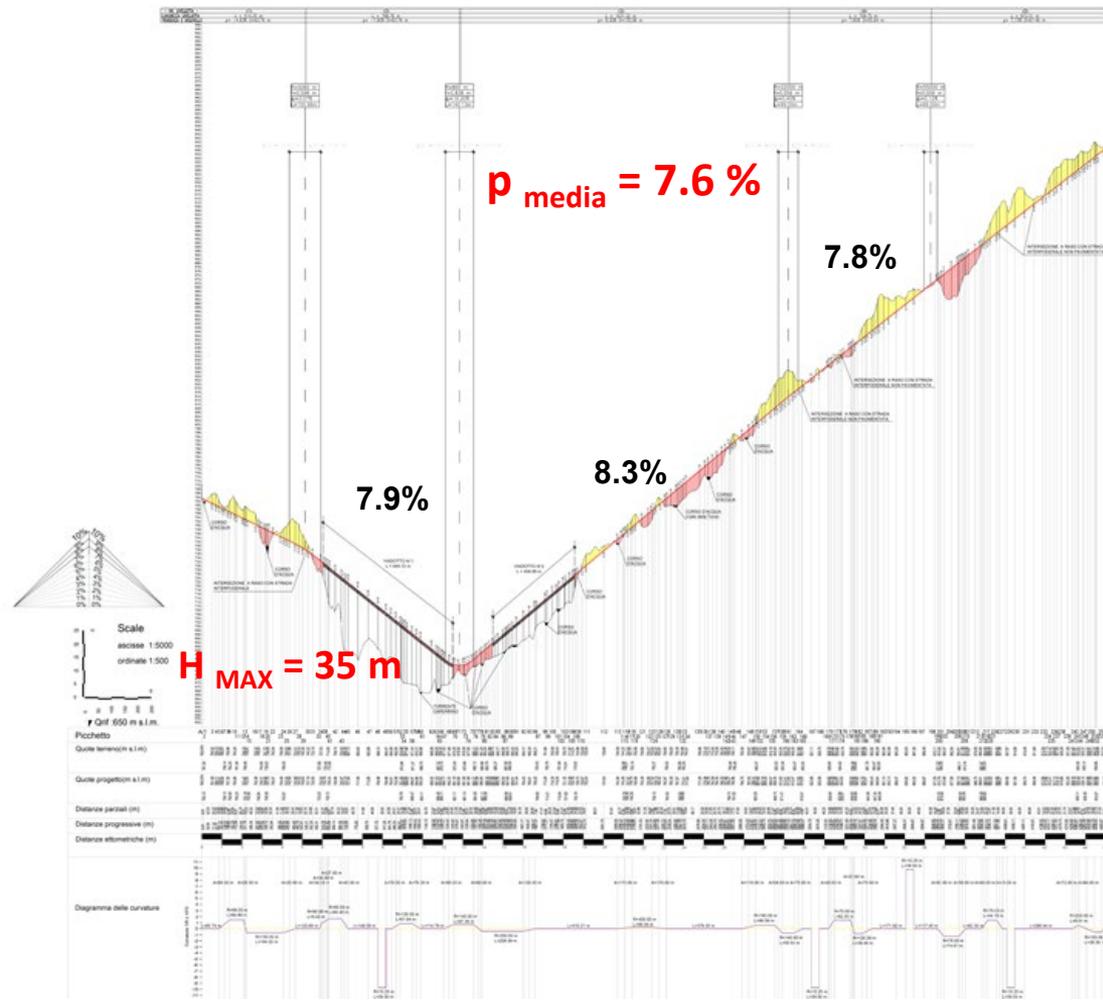
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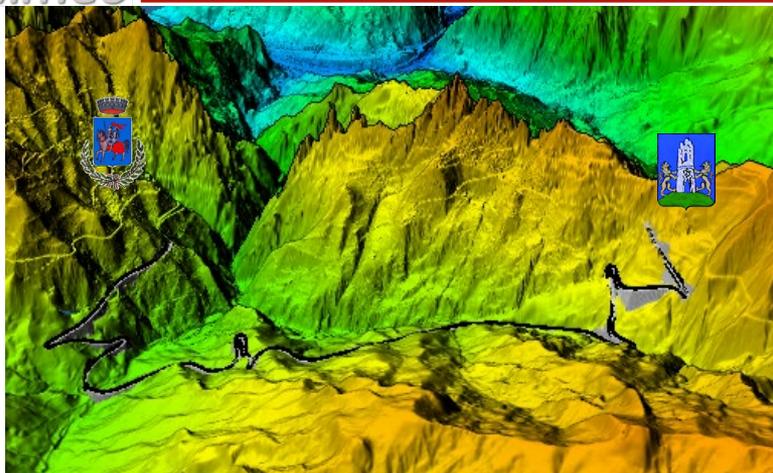
ALTERNATIVA 4: ANDAMENTO PLANIMETRICO



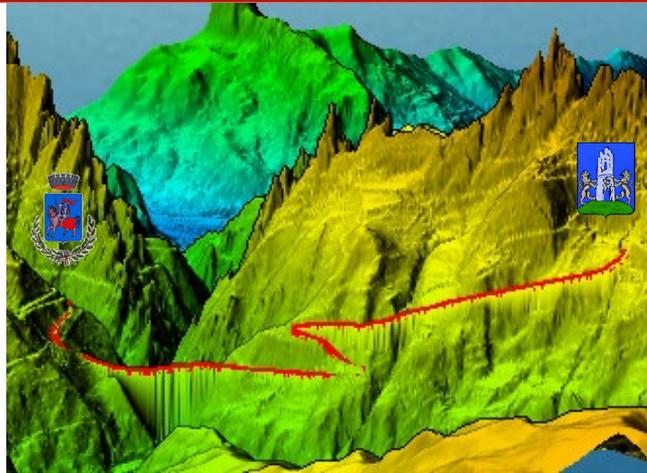
COORDINAMENTO PLANO-ALTIMETRICO



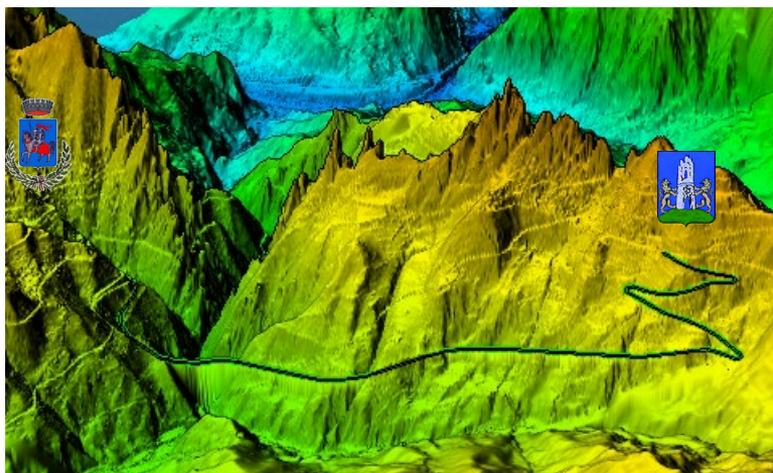
CORRETTA PERCEZIONE DEL TRACCIATO



a)



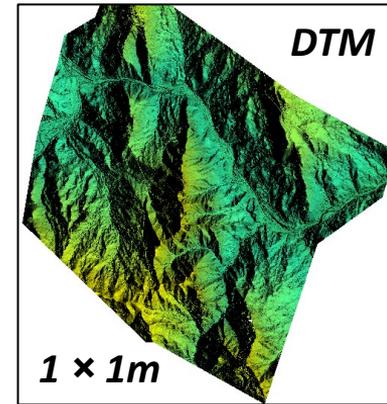
b)



c)



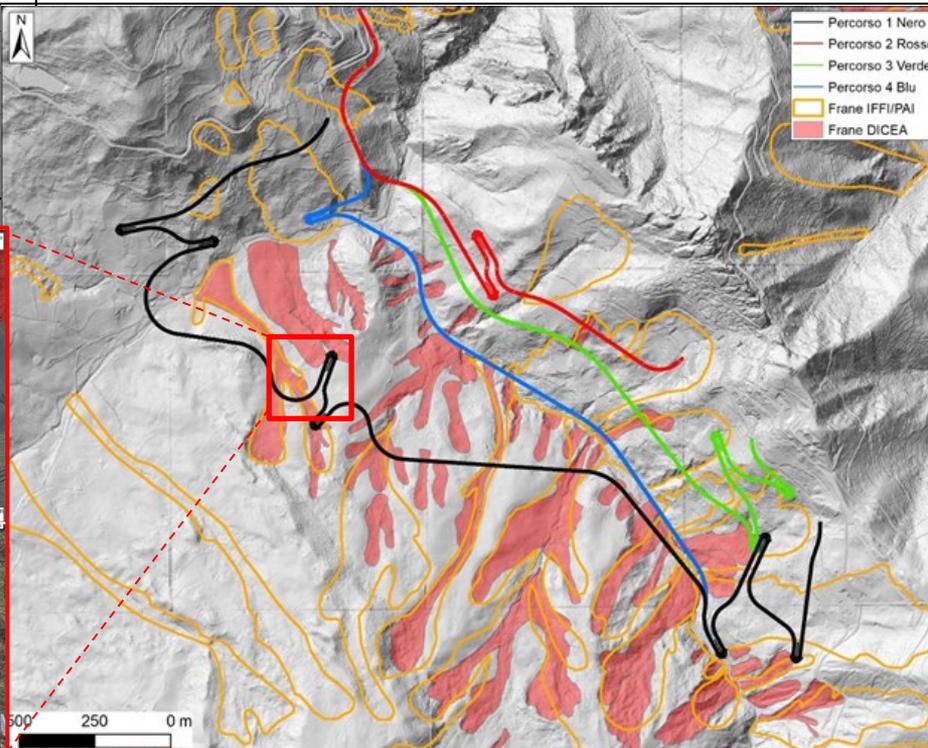
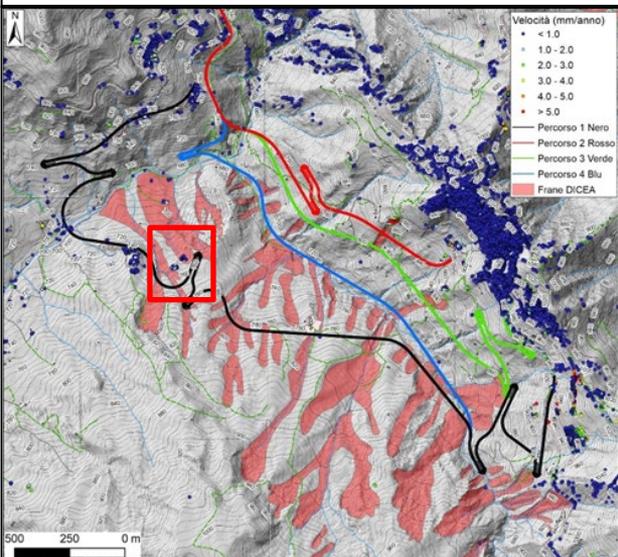
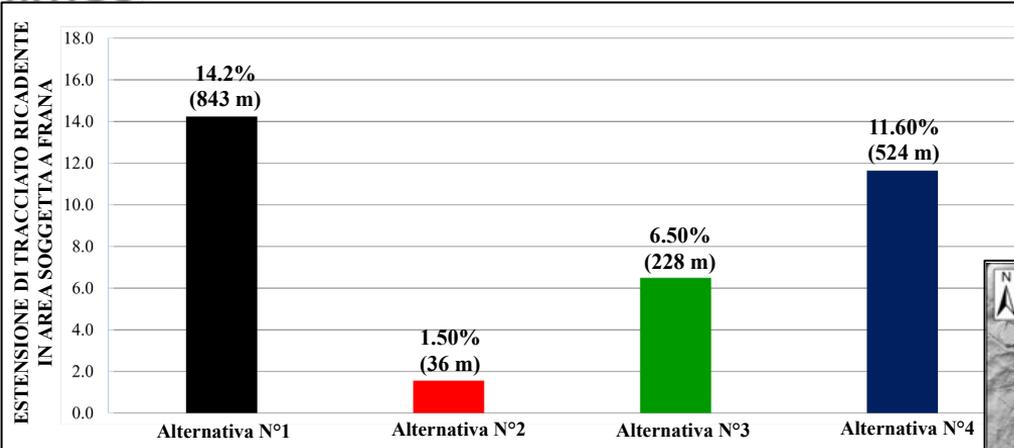
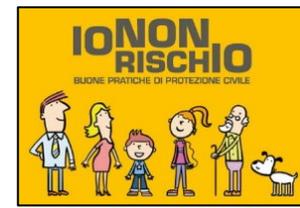
d)



a) Tracciato 1; b) Tracciato 2; c) Tracciato 3; d) Tracciato 4.



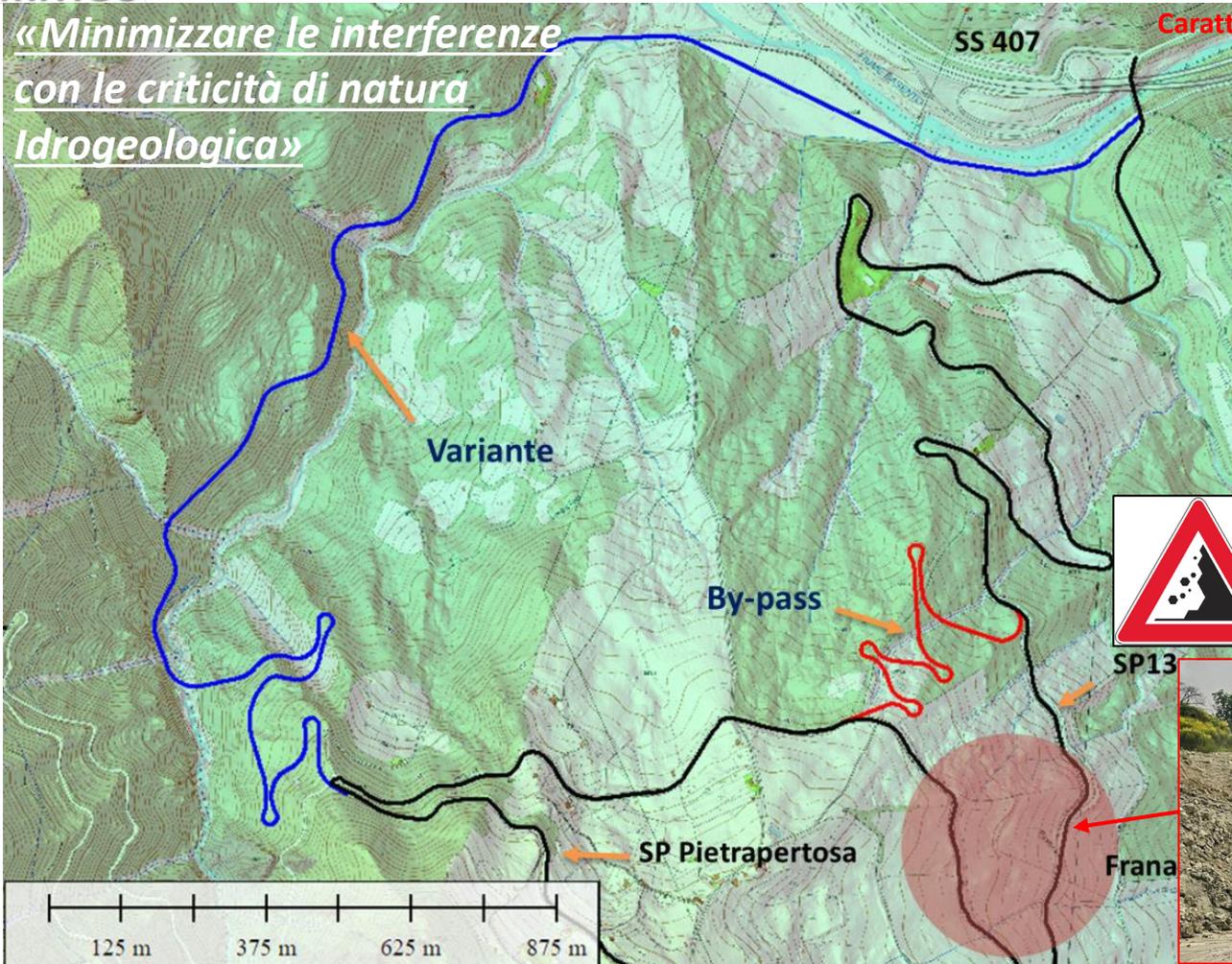
N°2 e N°3:
Maggiore Compatibilità
Idrogeologica



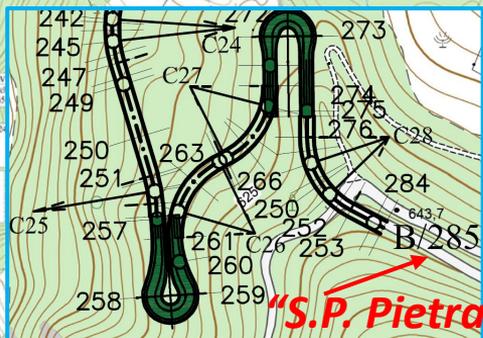
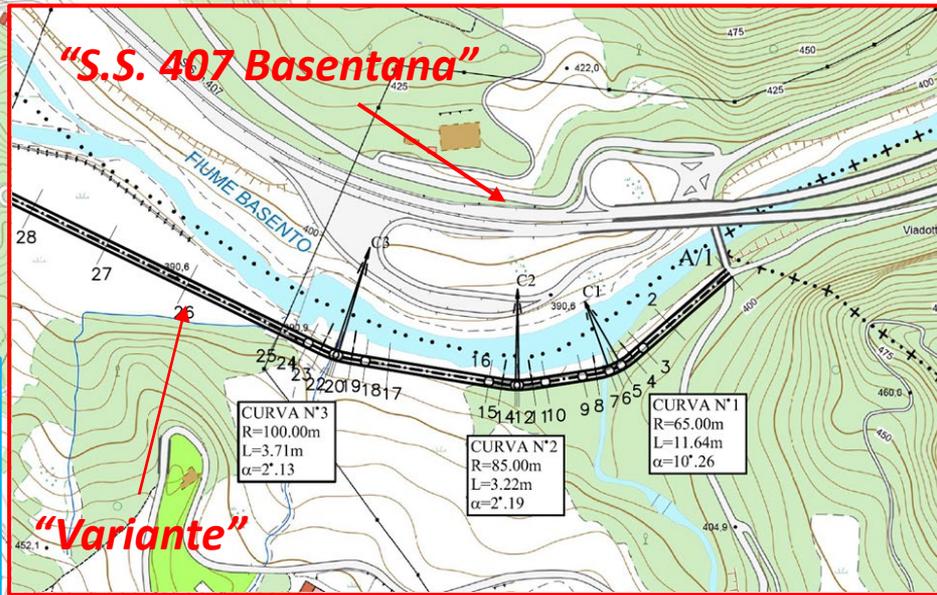
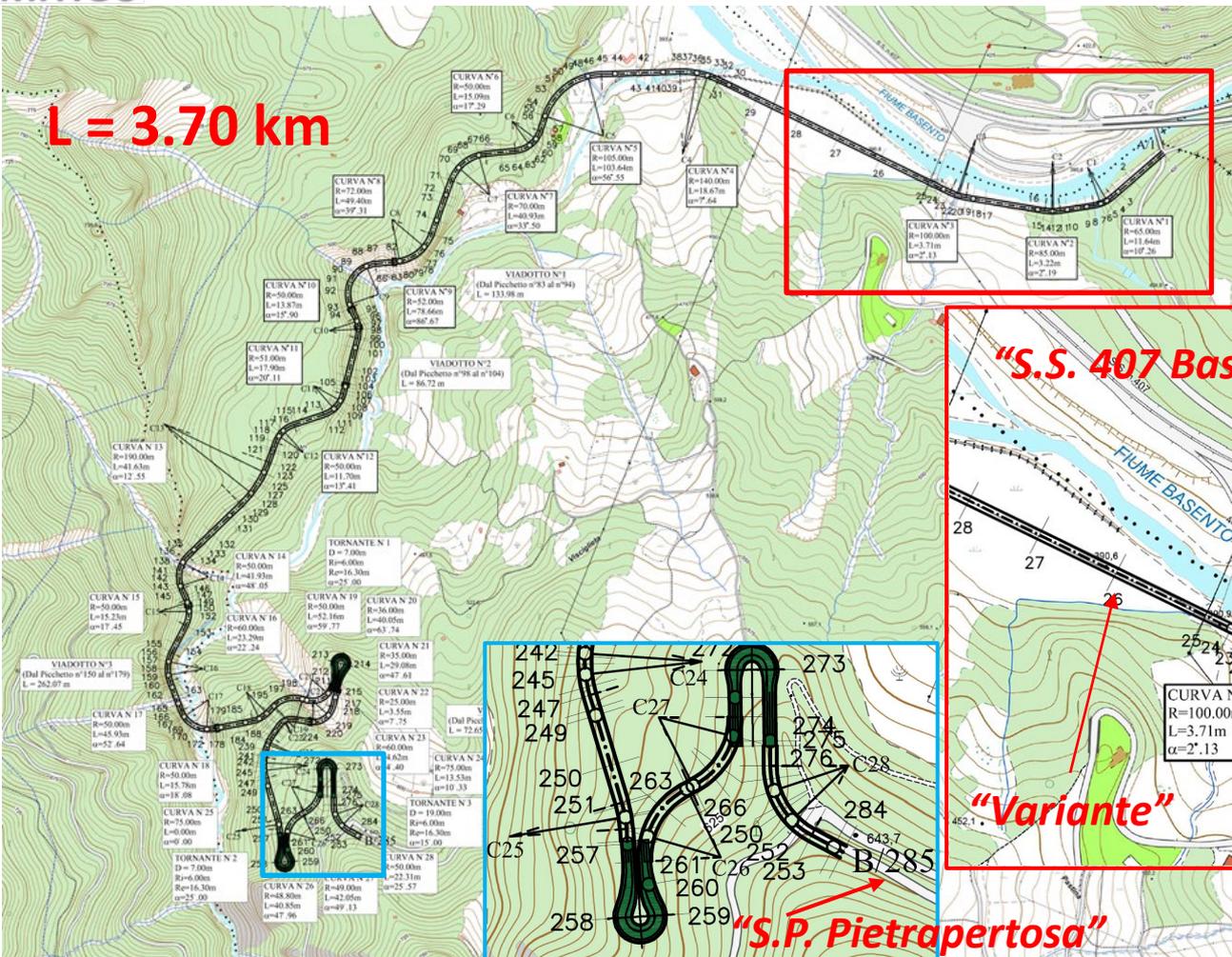
«Minimizzare le interferenze con le criticità di natura Idrogeologica»

Caratteristiche principali delle alternative progettuali

Alternativa di Tracciato	A (Variante)	B (By-Pass)
Lunghezza tracciato (m)	3726	1113
Lunghezza in trincea/rilevato (m)	3171	1113
Lunghezza in viadotto (m)	555	-
Tornanti	3	4



L = 3.70 km

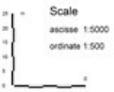


TRACCIATO A: ANDAMENTO ALTIMETRICO

$p_{media} = 5.5\%$

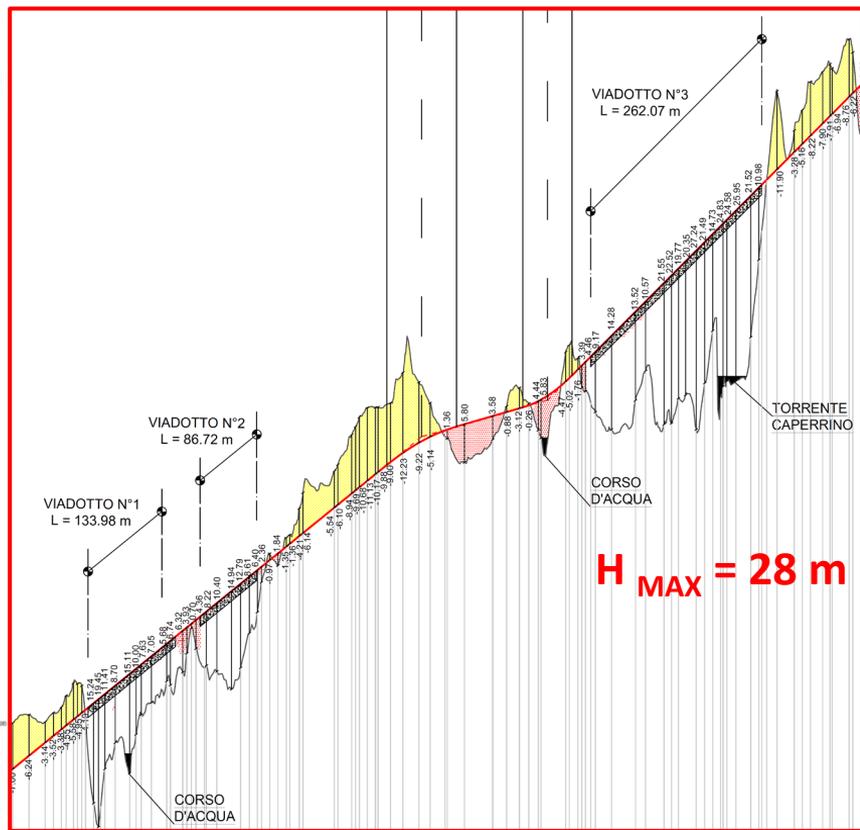
8.1%

10.0%



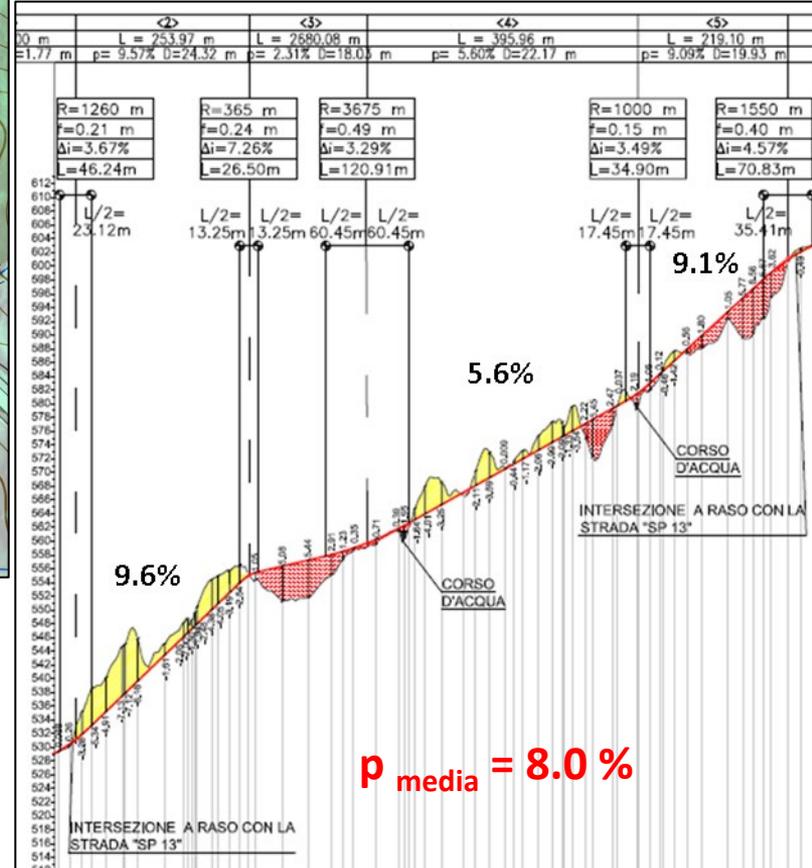
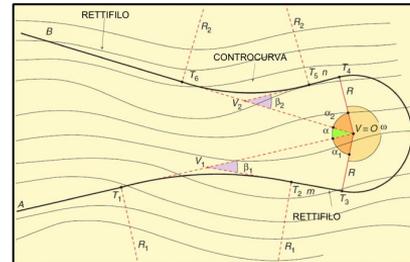
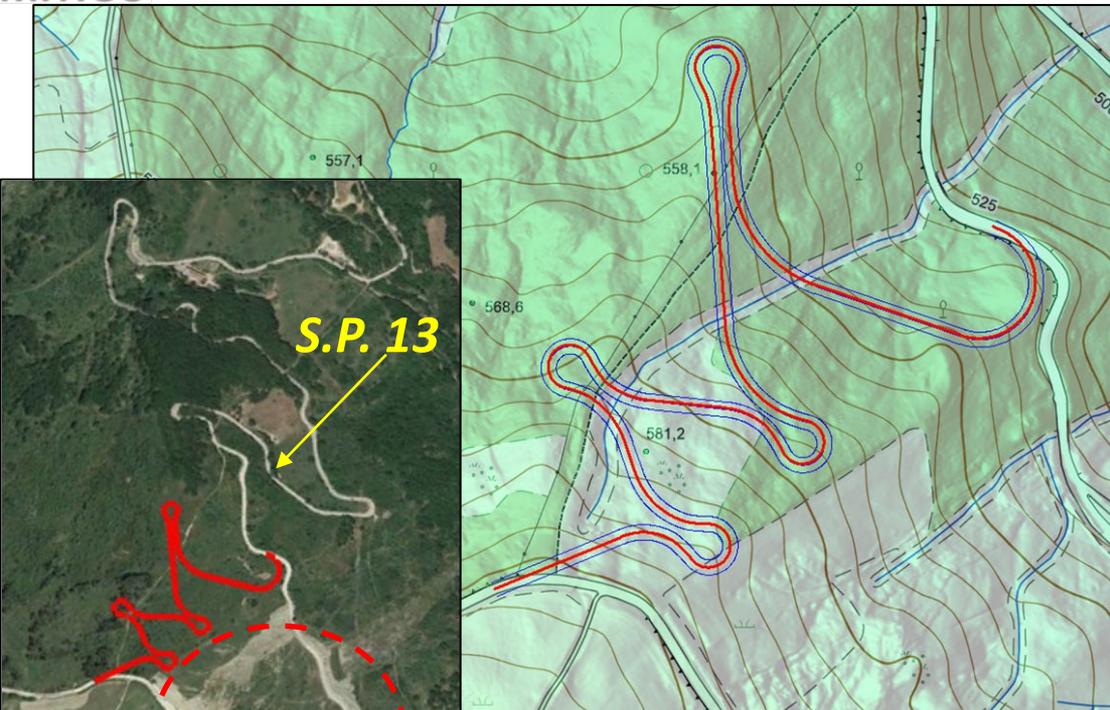
Chf. 350 m s.l.m.

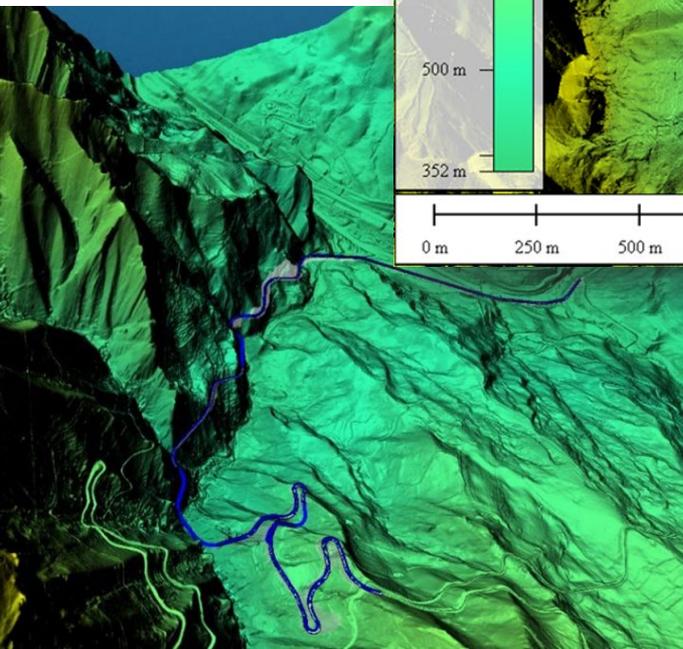
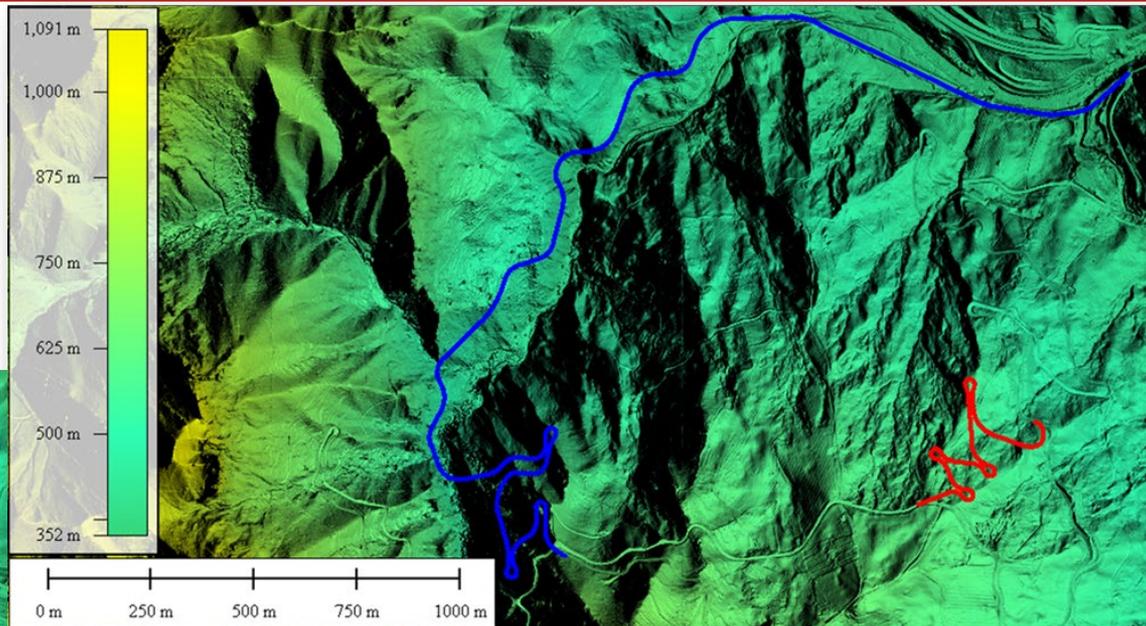
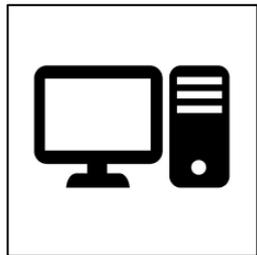
Picchetto	Quote terreno (s.l.m.)	Quote progetto (s.l.m.)	Distanze parziali (m)	Distanze progressive (m)	Distanze etimetriche (m)
1	250.00	250.00	0.00	0.00	0.00
2	250.00	250.00	0.00	0.00	0.00
3	250.00	250.00	0.00	0.00	0.00
4	250.00	250.00	0.00	0.00	0.00
5	250.00	250.00	0.00	0.00	0.00
6	250.00	250.00	0.00	0.00	0.00
7	250.00	250.00	0.00	0.00	0.00
8	250.00	250.00	0.00	0.00	0.00
9	250.00	250.00	0.00	0.00	0.00
10	250.00	250.00	0.00	0.00	0.00
11	250.00	250.00	0.00	0.00	0.00
12	250.00	250.00	0.00	0.00	0.00
13	250.00	250.00	0.00	0.00	0.00
14	250.00	250.00	0.00	0.00	0.00
15	250.00	250.00	0.00	0.00	0.00
16	250.00	250.00	0.00	0.00	0.00
17	250.00	250.00	0.00	0.00	0.00
18	250.00	250.00	0.00	0.00	0.00
19	250.00	250.00	0.00	0.00	0.00
20	250.00	250.00	0.00	0.00	0.00
21	250.00	250.00	0.00	0.00	0.00
22	250.00	250.00	0.00	0.00	0.00
23	250.00	250.00	0.00	0.00	0.00
24	250.00	250.00	0.00	0.00	0.00
25	250.00	250.00	0.00	0.00	0.00
26	250.00	250.00	0.00	0.00	0.00
27	250.00	250.00	0.00	0.00	0.00
28	250.00	250.00	0.00	0.00	0.00
29	250.00	250.00	0.00	0.00	0.00
30	250.00	250.00	0.00	0.00	0.00
31	250.00	250.00	0.00	0.00	0.00
32	250.00	250.00	0.00	0.00	0.00
33	250.00	250.00	0.00	0.00	0.00
34	250.00	250.00	0.00	0.00	0.00
35	250.00	250.00	0.00	0.00	0.00
36	250.00	250.00	0.00	0.00	0.00
37	250.00	250.00	0.00	0.00	0.00
38	250.00	250.00	0.00	0.00	0.00
39	250.00	250.00	0.00	0.00	0.00
40	250.00	250.00	0.00	0.00	0.00
41	250.00	250.00	0.00	0.00	0.00
42	250.00	250.00	0.00	0.00	0.00
43	250.00	250.00	0.00	0.00	0.00
44	250.00	250.00	0.00	0.00	0.00
45	250.00	250.00	0.00	0.00	0.00
46	250.00	250.00	0.00	0.00	0.00
47	250.00	250.00	0.00	0.00	0.00
48	250.00	250.00	0.00	0.00	0.00
49	250.00	250.00	0.00	0.00	0.00
50	250.00	250.00	0.00	0.00	0.00
51	250.00	250.00	0.00	0.00	0.00
52	250.00	250.00	0.00	0.00	0.00
53	250.00	250.00	0.00	0.00	0.00
54	250.00	250.00	0.00	0.00	0.00
55	250.00	250.00	0.00	0.00	0.00
56	250.00	250.00	0.00	0.00	0.00
57	250.00	250.00	0.00	0.00	0.00
58	250.00	250.00	0.00	0.00	0.00
59	250.00	250.00	0.00	0.00	0.00
60	250.00	250.00	0.00	0.00	0.00
61	250.00	250.00	0.00	0.00	0.00
62	250.00	250.00	0.00	0.00	0.00
63	250.00	250.00	0.00	0.00	0.00
64	250.00	250.00	0.00	0.00	0.00
65	250.00	250.00	0.00	0.00	0.00
66	250.00	250.00	0.00	0.00	0.00
67	250.00	250.00	0.00	0.00	0.00
68	250.00	250.00	0.00	0.00	0.00
69	250.00	250.00	0.00	0.00	0.00
70	250.00	250.00	0.00	0.00	0.00
71	250.00	250.00	0.00	0.00	0.00
72	250.00	250.00	0.00	0.00	0.00
73	250.00	250.00	0.00	0.00	0.00
74	250.00	250.00	0.00	0.00	0.00
75	250.00	250.00	0.00	0.00	0.00
76	250.00	250.00	0.00	0.00	0.00
77	250.00	250.00	0.00	0.00	0.00
78	250.00	250.00	0.00	0.00	0.00
79	250.00	250.00	0.00	0.00	0.00
80	250.00	250.00	0.00	0.00	0.00
81	250.00	250.00	0.00	0.00	0.00
82	250.00	250.00	0.00	0.00	0.00
83	250.00	250.00	0.00	0.00	0.00
84	250.00	250.00	0.00	0.00	0.00
85	250.00	250.00	0.00	0.00	0.00
86	250.00	250.00	0.00	0.00	0.00
87	250.00	250.00	0.00	0.00	0.00
88	250.00	250.00	0.00	0.00	0.00
89	250.00	250.00	0.00	0.00	0.00
90	250.00	250.00	0.00	0.00	0.00
91	250.00	250.00	0.00	0.00	0.00
92	250.00	250.00	0.00	0.00	0.00
93	250.00	250.00	0.00	0.00	0.00
94	250.00	250.00	0.00	0.00	0.00
95	250.00	250.00	0.00	0.00	0.00
96	250.00	250.00	0.00	0.00	0.00
97	250.00	250.00	0.00	0.00	0.00
98	250.00	250.00	0.00	0.00	0.00
99	250.00	250.00	0.00	0.00	0.00
100	250.00	250.00	0.00	0.00	0.00



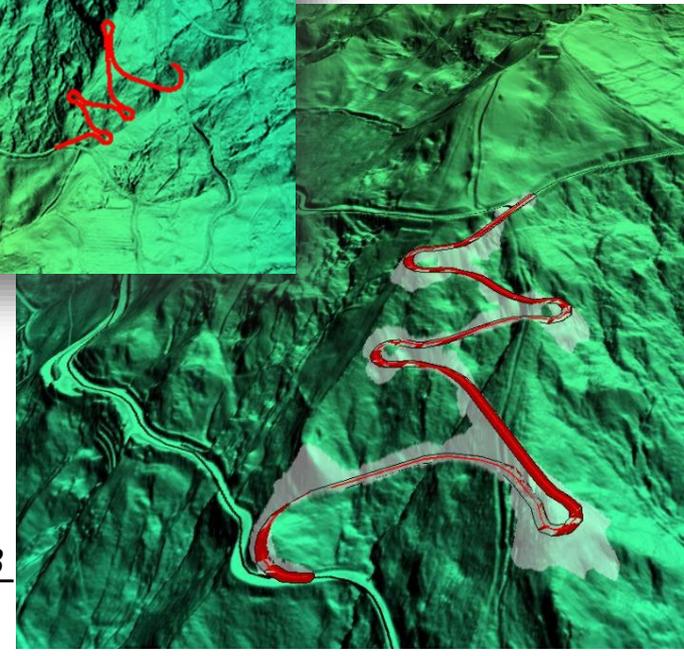
$L_{VIADOTTO} \approx 0.15 \times L_{TRACCIATO} \approx 555\text{ m}$

L = 1.10 km

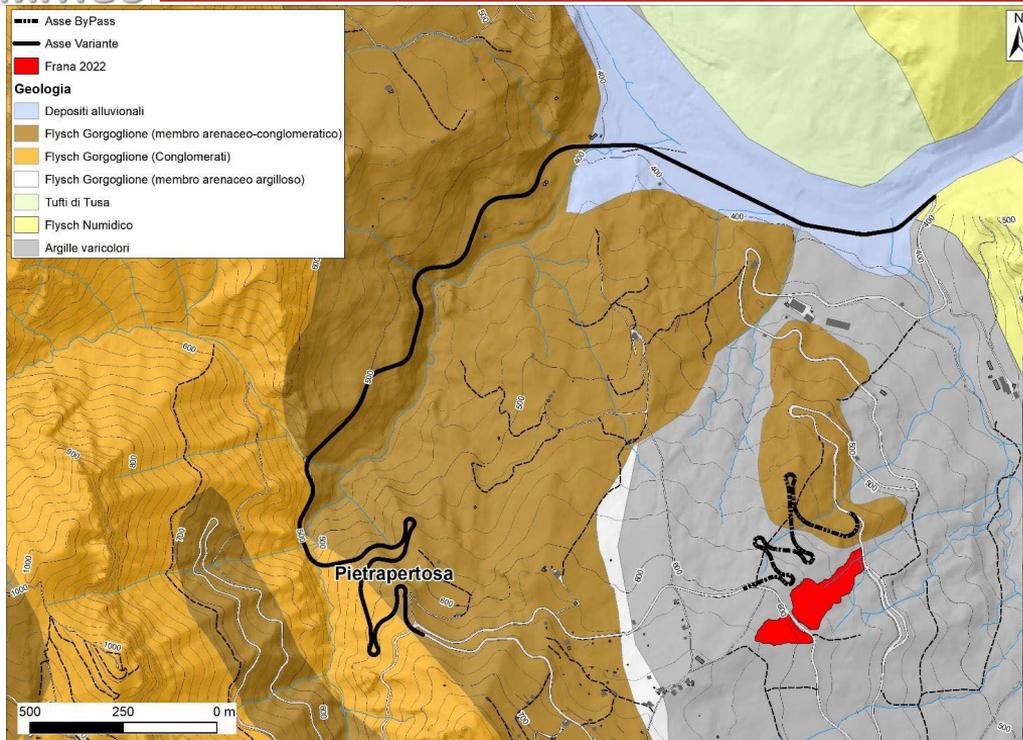




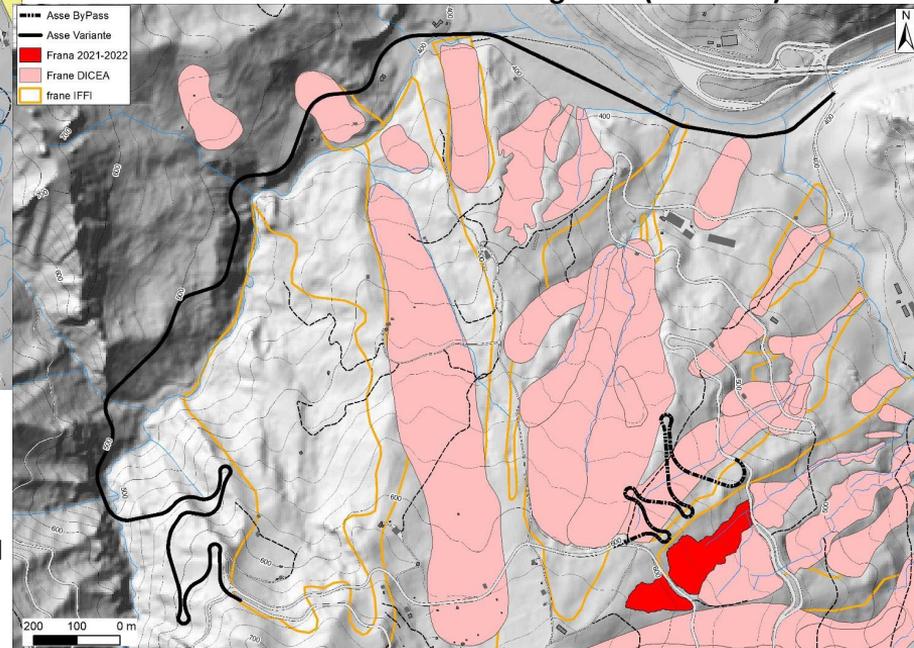
Tracciato A
(Variante)



Tracciato B
(By-Pass)



Successioni arenaceo -argillose (Variante)



Dettaglio geologico dell'area interessata dai due nuovi tracciati



Confronto delle frane censite con quelle del PAI/IFFI



VALUTAZIONE ECONOMICA

(Stima a Costi Standard rivalutati al 2022)

Alternativa di Tracciato	Castelmezzano-Pietrapertosa				Pietrapertosa - "S.S. 407 Basentana"	
	1	2	3	4	A	B
Lunghezza percorso (m)	5925	2353	3512	4502	3726	1113
AFO 1 - Lunghezza (m)	5925	1093	2857	3449	3171	1113
AFO 1 - Costo specifico (€/m)	1'946	1'946	1'946	1'946	1'946	1'946
AFO 1 - Totale (€)	11'527'088	2'126'432	5'558'294	6'710'030	6'168'092	2'165'079
AFO 3 - Lunghezza (m)	-	1260	655	1053	555	-
AFO 3 - Costo specifico (€/m)	-	10'496	10'496	10'496	10'496	-
AFO 3 - Totale (€)	-	13'222'718	6'870'406	11'048'426	5'829'810	-
Costo di Costruzione (€)	11'527'088	15'349'150	12'428'699	17'758'456	11'997'902	2'165'079
Costo specifico (€/km)	1'945'500	6'523'226	3'538'923	3'944'570	3'219'763	1'945'212



ALTERNATIVA 1

- Maggiore Estensione
- Minor Costo di Costruzione
- Assenza di Opere d'Arte
- Rischio Idrogeologico: Interferenza (14%)

ALTERNATIVA 3

- Nessuna Criticità Rilevante:
Geometrico/Funzionale, Rischio
Idrogeologico, Costo di Costruzione



ALTERNATIVA 2

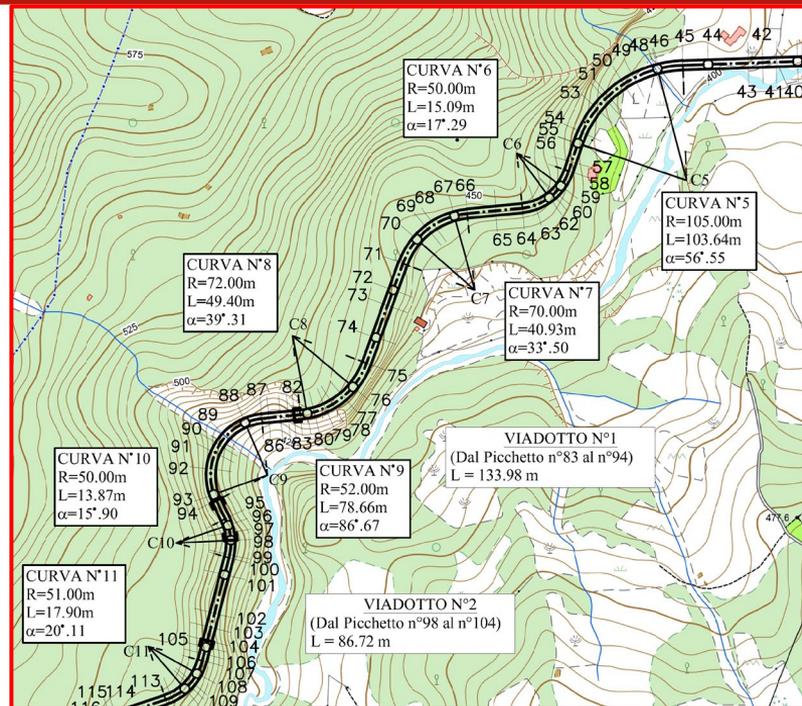
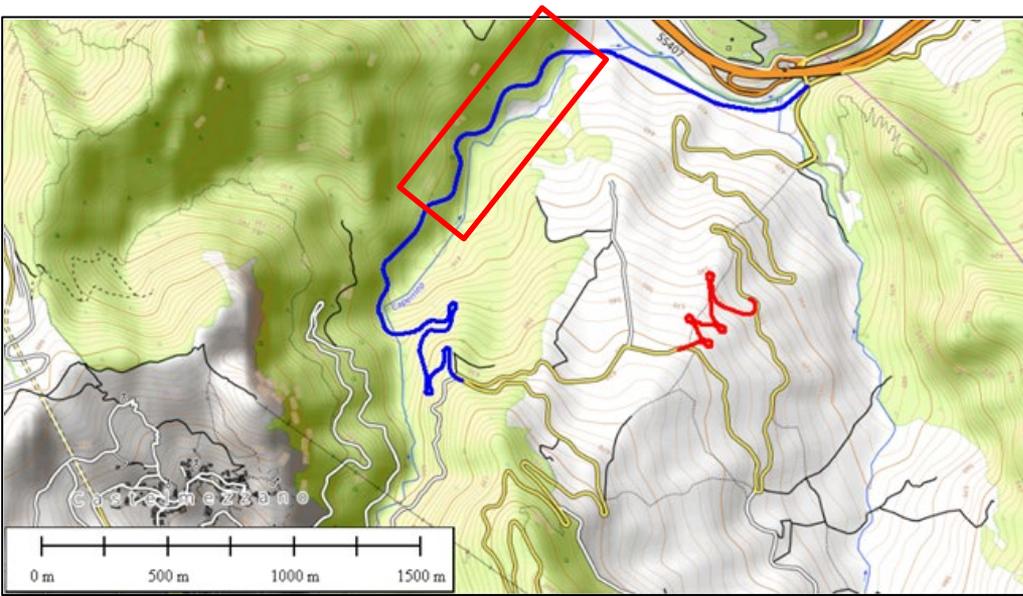
- Minore Estensione
- Maggior Costo Specifico di Costruzione
- Elevata Presenza di Opere d'Arte
- Rischio Idrogeologico: Interferenza (2%)
- Maggiore Accessibilità

ALTERNATIVA 4

- Maggior Costo di Costruzione
- Opere d'Arte
- Rischio Idrogeologico: Interferenza (11.6%)

PERCORSO A (VARIANTE)

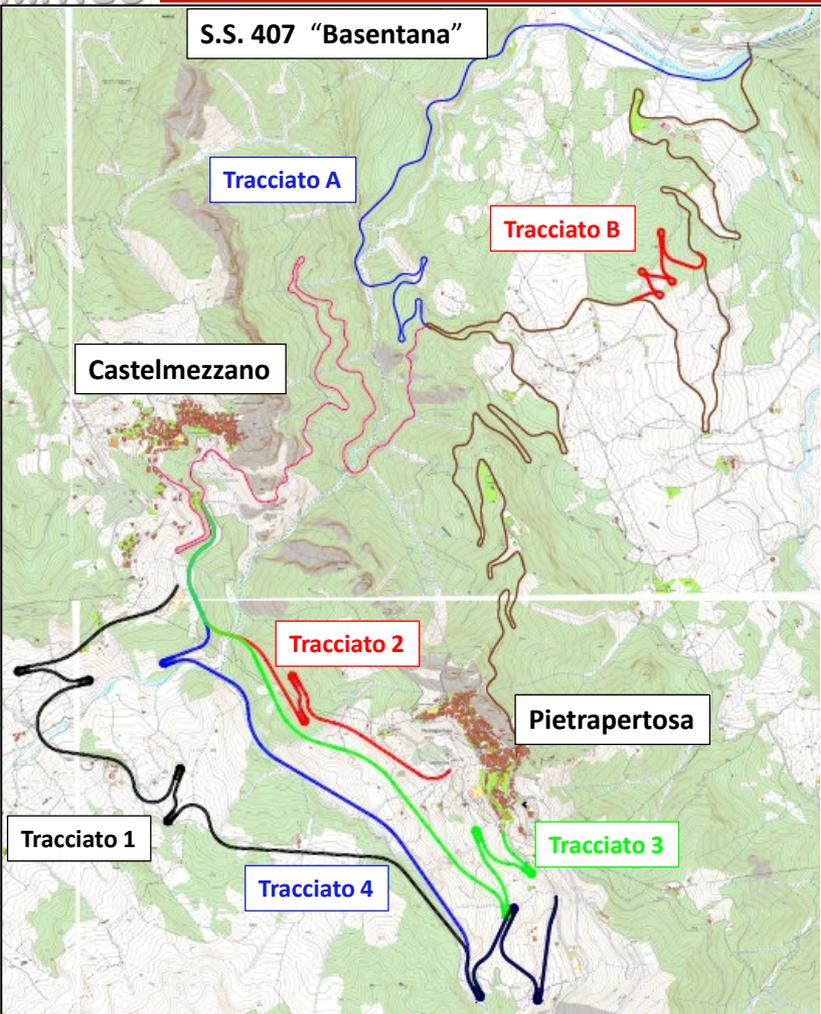
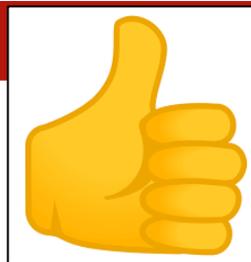
- Alternativa alla S.P. 13 (Orizzonte Temporale Ampio)
- Opere d'Arte
- Rischio Idrogeologico: Bassa Interferenza



PERCORSO B (BY-PASS)



➤ Soluzione "tampono" per mitigare le criticità di isolamento esistenti attualmente



Obiettivo Realizzativo 7
Soluzioni innovative di mobilità

Quadro organico esaustivo di alternative viarie per i comuni di Pietrapertosa e Castelmezzano di connessione tra i due centri abitati e con la viabilità principale di fondovalle





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- **Vuono P.** (2023). “Il progetto MITIGO: un’opportunità per ripensare al ruolo della viabilità montana in un contesto idrogeologicamente fragile”, Intervista a Pietro Vuono, dottore di ricerca presso la scuola di ingegneria dell’Università degli studi della Basilicata e assegnista di ricerca nel progetto MITIGO, Notiziario ASIT, “Strade & Autostrade”, Fascicolo n.161, Settembre/Ottobre 2023 – EDICEM S.r.l. ISSN 1723-2155;
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