

**S.S.121 "Catane"**  
Intervento S.S.121 – Tratto Palermo (A19) – rotatoria Bolognetta

**PROGETTO DEFINITIVO**

COD. UP62

**PROGETTAZIONE:** ATI VIA - SERING - VDP - BRENG

**RESPONSABILE DELL'INTEGRAZIONE DELLE PRESTAZIONI SPECIALISTICHE:**

*Dott. Ing. Giovanni Piazza (Ord. Ing. Prov. Roma A27296)*

**GRUPPO DI PROGETTAZIONE**

MANDATARIA:

MANDANTI:

**PROGETTISTA:**

Responsabile Tracciato stradale: *Dott. Ing. Massimo Capasso (Ord. Ing. Prov. Roma 26031)*  
 Responsabile Strutture: *Dott. Ing. Giovanni Piazza (Ord. Ing. Prov. Roma 27296)*  
 Responsabile Idraulica, Geotecnica e Impianti: *Dott. Ing. Sergio Di Maio (Ord. Ing. Prov. Palermo 2872)*  
 Responsabile Ambiente: *Dott. Ing. Francesco Ventura (Ord. Ing. Prov. Roma 14660)*



**GEOLOGO:**

*Dott. Geol. Enrico Curcuruto (Ord. Geo. Regione Sicilia 966)*

**COORDINATORE SICUREZZA IN FASE DI PROGETTAZIONE:**

*Dott. Ing. Matteo Di Girolamo (Ord. Ing. Prov. Roma 15138)*

**RESPONSABILE SIA:**

*Dott. Ing. Francesco Ventura (Ord. Ing. Prov. Roma 14660)*



**VISTO: IL RESPONSABILE DEL PROCEDIMENTO:**

*Dott. Ing. Luigi Mupo*

**PROGETTO STRADALE**  
**STRADE SECONDARIE**  
**AS\_E92 AS\_E93**  
**Sezioni trasversali**



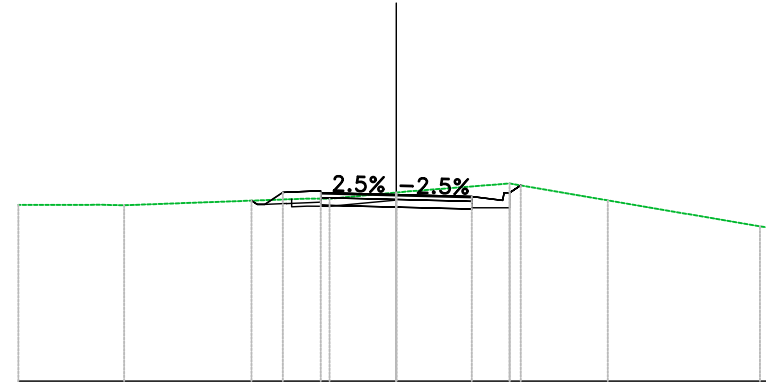
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D		-	-	-	-
C		-	-	-	-
B	-	-	-	-	-
A	EMISSIONE	FEBB.2023	D.MORARU	M.TOSI	G.PIAZZA
REV.	DESCRIZIONE	DATA	REDATTO	VERIFICATO	APPROVATO



Materiali - Progr.0+020.00

Materiali	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	0.00	0.00
Scavo	2.35	44.12
Scotico	0.00	0.00
Terreno vegetale	0.37	11.15

AS\_E91  
 Sez. 02  
 Progr.: 0+020.00  
 Scala : 1:200  
 Q.Rif. : 100.00



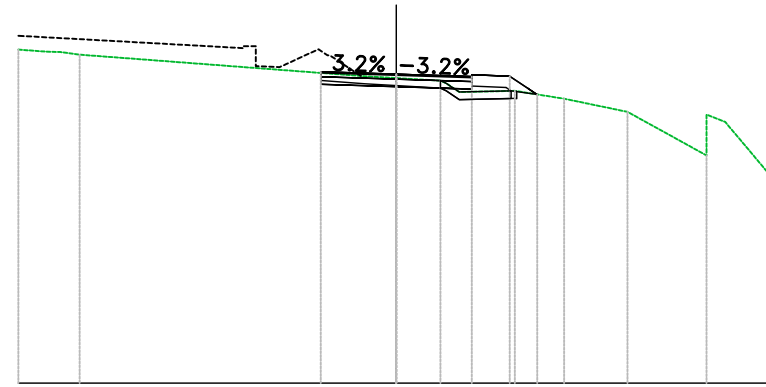
PROGRESSIVE TERRENO	10+00	7.80	7.20		2.36	1.77	0.00	3.00	5.60	9.62
PARZIALI TERRENO		2.20	0.60	4.84	0.59	1.77		2.66	2.60	4.03
QUOTE TERRENO	104.66	104.66	104.65		104.83	104.82	104.99	105.23	104.78	104.09
PROGRESSIVE PROGETTO					3.88	3.00	2.00	0.00	2.00	3.82
PARZIALI PROGETTO					0.48	1.00	2.00		0.82	0.29
QUOTE PROGETTO					104.77	104.96	104.98	104.93	104.88	104.78
QUOTE SOTTOFONDO					104.77	104.70	104.65	104.60	104.55	104.58





Materiali - Progr.0+080.00		
Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	0.15	12.25
Scavo	0.82	11.60
Scotico	0.37	16.91
Terreno vegetale	0.44	15.45

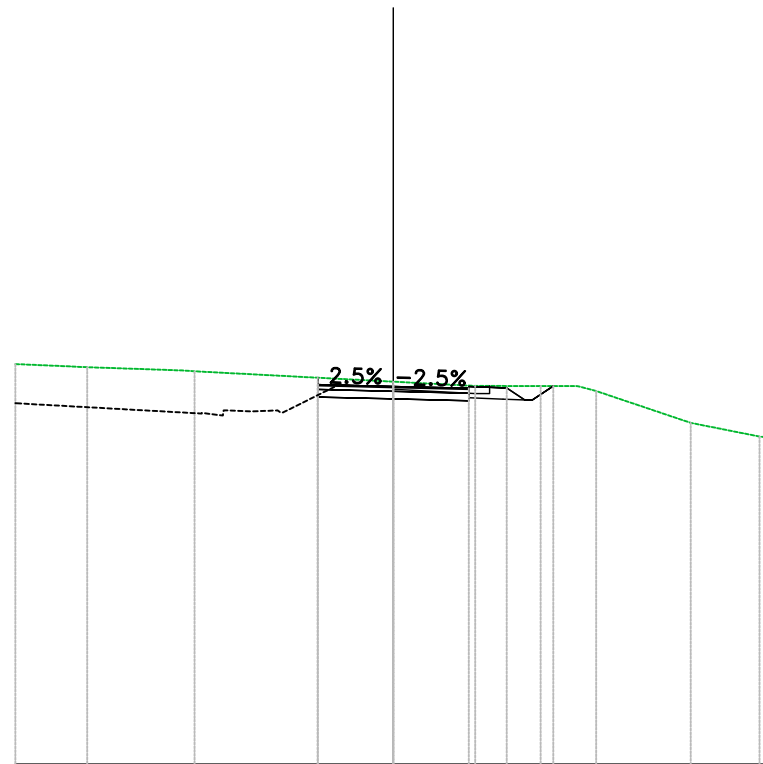
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 Sez. 05  
 Progr.: 0+080.00  
 Scala : 1:200  
 Q.Rif. : 100.00



PROGRESSIVE TERRENO	10.00	8.89	8.58	0.82	0.00	1.17	3.14	4.44	6.12	8.21	10.00
PARZIALI TERRENO	0.75	0.52	7.55	0.82	1.17	1.47	1.30	1.68	2.09	0.49	1.30
QUOTE TERRENO	108.82	108.76	108.69	108.11	108.07	108.00	107.73	107.52	107.17	106.02	105.37
PROGRESSIVE PROGETTO				-2.00		2.00	3.00	3.78			
PARZIALI PROGETTO				2.00	2.00	1.00	0.48	0.48			
QUOTE PROGETTO				108.23	108.17	108.10	108.11	107.89			
QUOTE SOTTOFONDO				107.90	107.84	107.77	107.82	107.63			

Materiali - Progr.0+100.00		
Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	0.00	1.48
Scavo	2.51	33.23
Scotico	0.00	3.73
Terreno vegetale	0.37	8.06

AS\_E91  
 Sez. 06  
 Progr.: 0+100.00  
 Scala : 1:200  
 Q.Rif. : 100.00

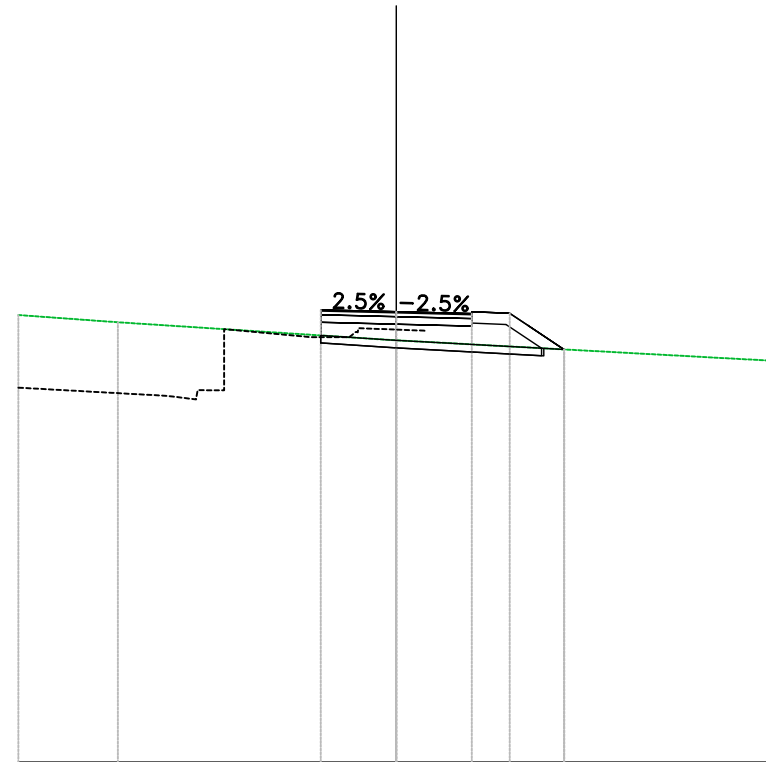


PROGRESSIVE TERRENO	10.00	8.10	5.26	0.00	2.17	3.90	4.88	6.31	7.87	10.00
PARZIALI TERRENO	1.90	2.51	5.26	2.17	1.73	0.98	0.49	1.56	1.82	
QUOTE TERRENO	110.58	110.50	110.39	110.11	110.00	110.00	110.00	109.55	109.02	108.64
PROGRESSIVE PROGETTO			-2.00		2.00	3.00	3.48	4.23		
PARZIALI PROGETTO			2.00	2.00	1.00	0.48	0.55			
QUOTE PROGETTO			109.71	109.99	109.94	109.85	109.63	110.00		
QUOTE SOTTOFONDO			109.71	109.66	109.61	109.65	109.63	110.00		

Materiali - Progr.0+120.00

Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	2.46	24.65
Scavo	0.00	25.11
Scotico	1.17	11.69
Terreno vegetale	0.71	10.85

AS\_E91  
 Sez. 07  
 Progr.: 0+120.00  
 Scala : 1:200  
 Q.Rif. : 100.00

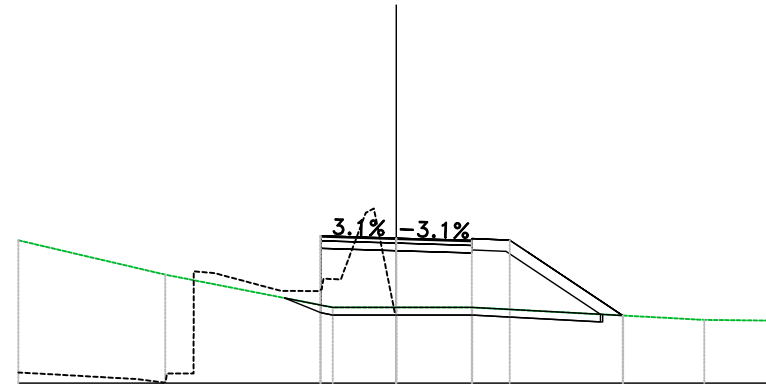


PROGRESSIVE TERRENO	10+00	7+37	0+00	10+00				
PARZIALI TERRENO	2.63	7.23	10.00					
QUOTE TERRENO	111.82	111.63	111.15	110.61				
PROGRESSIVE PROGETTO			-2.00	0.00	2.00	3.00	3.48	4.48
PARZIALI PROGETTO			2.00	2.00	1.00	0.48	0.95	
QUOTE PROGETTO			111.96	111.91	111.86	111.87	111.95	110.91
QUOTE SOTTOFONDO			111.88	111.58	111.53	111.57	110.95	110.91



Materiali - Progr.0+140.00		
Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	9.29	117.07
Scavo	0.00	0.00
Scotico	1.58	27.32
Terreno vegetale	1.28	19.61

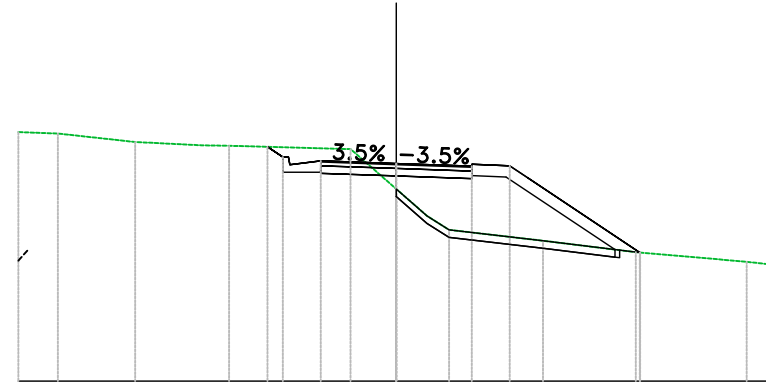
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 Sez. 08  
 Progr.: 0+140.00  
 Scala : 1:200  
 Q.Rif. : 110.00



PROGRESSIVE TERRENO	10.00	6.11	1.68	0.00	0.62	2.01	8.15	10.00
PARZIALI TERRENO	3.89	4.43	1.19	0.62	1.39	6.14	1.85	
QUOTE TERRENO	113.78	112.87	112.00	112.00	112.00	112.00	111.67	111.65
PROGRESSIVE PROGETTO			-2.00		2.00	3.00	6.00	
PARZIALI PROGETTO			2.00	2.00	1.00	2.51		
QUOTE PROGETTO			113.89	113.83	113.77	113.78	111.79	
QUOTE SOTTOFONDO			112.89	113.50	113.44	113.48	111.82	

Materiali – Progr.0+160.00		
Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	5.82	146.67
Scavo	1.49	15.46
Scotico	1.16	26.32
Terreno vegetale	1.43	25.06

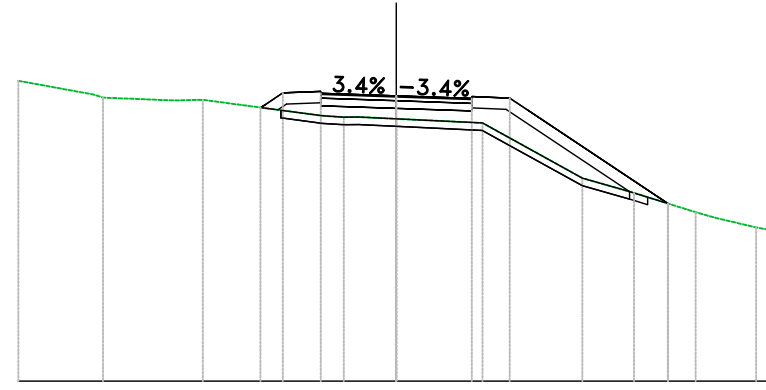
AS\_E91  
 Sez. 09  
 Progr.: 0+160.00  
 Scala : 1:200  
 Q.Rif. : 110.00



PROGRESSIVE TERRENO	10.00	8.95	6.91	5.15	4.43	1.21	0.00	0.81	1.40	3.88	6.34	9.27	10.00
PARZIALI TERRENO	1.05	2.04	1.76	0.72	3.22	1.21	0.81	0.58	2.48	2.46	2.94	0.73	
QUOTE TERRENO	116.59	116.55	116.32	116.24	116.22	116.14	115.08	114.37	114.00	113.71	113.41	113.16	113.07
PROGRESSIVE PROGETTO							0.00	2.00	3.00	3.48	6.48		
PARZIALI PROGETTO				0.41	0.82	2.00	2.00	1.00	0.48	2.96			
QUOTE PROGETTO				116.20	115.72	115.82	115.75	115.68	115.98	115.58	113.40		
QUOTE SOTTOFONDO				115.39	115.49	115.42	115.42	115.35	115.40	113.48			

Materiali - Progr.0+180.00		
Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	3.32	87.20
Scavo	0.00	15.53
Scotico	1.84	28.78
Terreno vegetale	2.06	32.49

AS\_E91  
 Sez. 10  
 Progr.: 0+180.00  
 Scala : 1:200  
 Q.Rif. : 110.00

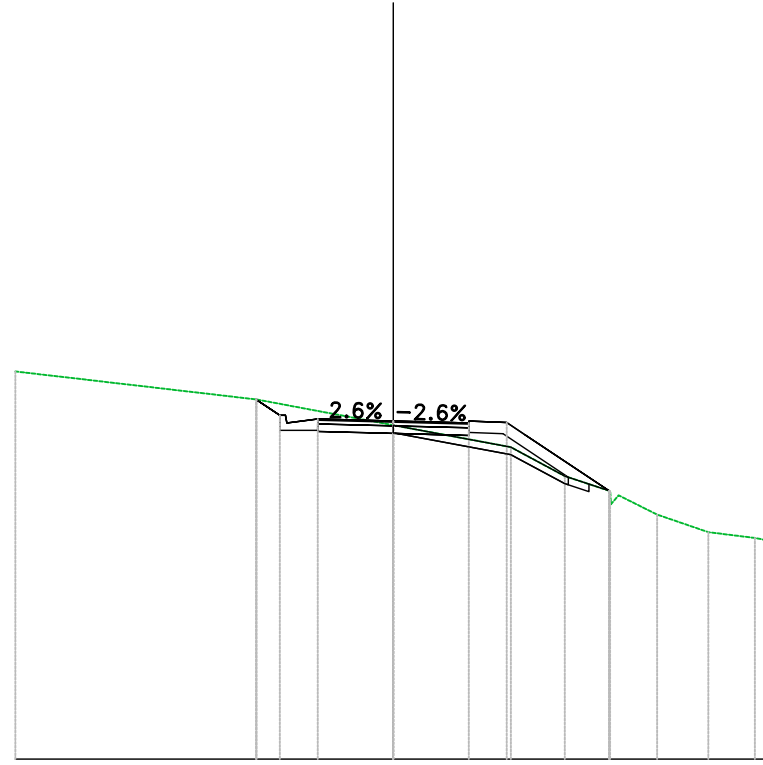


PROGRESSIVE TERRENO	10.00	7.76	5.89	5.12	1.95	0.92	0.00	2.28	4.92	6.29	7.92	8.46	9.52	10.00
PARZIALI TERRENO	1.98	1.87	0.77	3.17	0.56	0.92	2.28	2.63	1.37	1.63	0.54	1.06		
QUOTE TERRENO	117.94	117.50	117.42	117.44	117.02	116.98	116.94	116.83	115.37	114.98	114.47	114.31	114.06	113.98
PROGRESSIVE PROGETTO					3.00	2.00		2.00			7.18			
PARZIALI PROGETTO				0.48	1.00	2.00	2.00	1.00	3.70					
QUOTE PROGETTO				117.20	117.61	117.54	117.48	117.49	115.01	114.70				
QUOTE SOTTOFONDO				117.23	117.33	117.28	117.21	117.15	117.19	115.01	114.70			

Materiali - Progr.0+200.00

Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	0.49	37.35
Scavo	1.62	16.46
Scotico	0.93	27.22
Terreno vegetale	1.08	30.48

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 Sez. 11  
 Progr.: 0+200.00  
 Scala : 1:200  
 Q.Rif. : 110.00

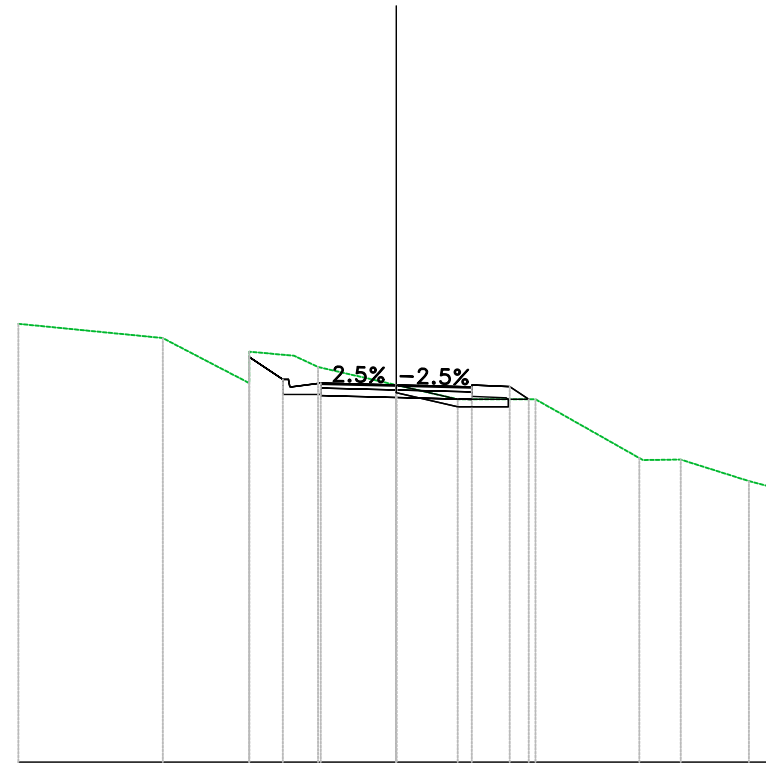


	120.25	119.51	118.83	118.25	117.48	117.09	116.46	116.00	115.76
PROGRESSIVE TERRENO	10.00	3.61	0.00	3.11	4.54	5.73	6.98	8.34	9.57
PARZIALI TERRENO	6.39	3.61		2.73	1.30	1.20	1.02	1.36	1.23
QUOTE TERRENO	120.25	119.51	118.83	118.25	117.48	117.09	116.46	116.00	115.76
PROGRESSIVE PROGETTO		3.63	0.00	2.00	3.00	5.72			
PARZIALI PROGETTO		0.63	2.00	1.00	2.23				
QUOTE PROGETTO		119.51	118.94	118.89	118.58	117.00			
QUOTE SOTTOFONDO		119.51	118.61	118.56	118.60	117.45			

Materiali – Progr.0+217.60

Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	0.05	4.81
Scavo	2.60	37.16
Scotico	0.59	13.36
Terreno vegetale	0.39	12.95

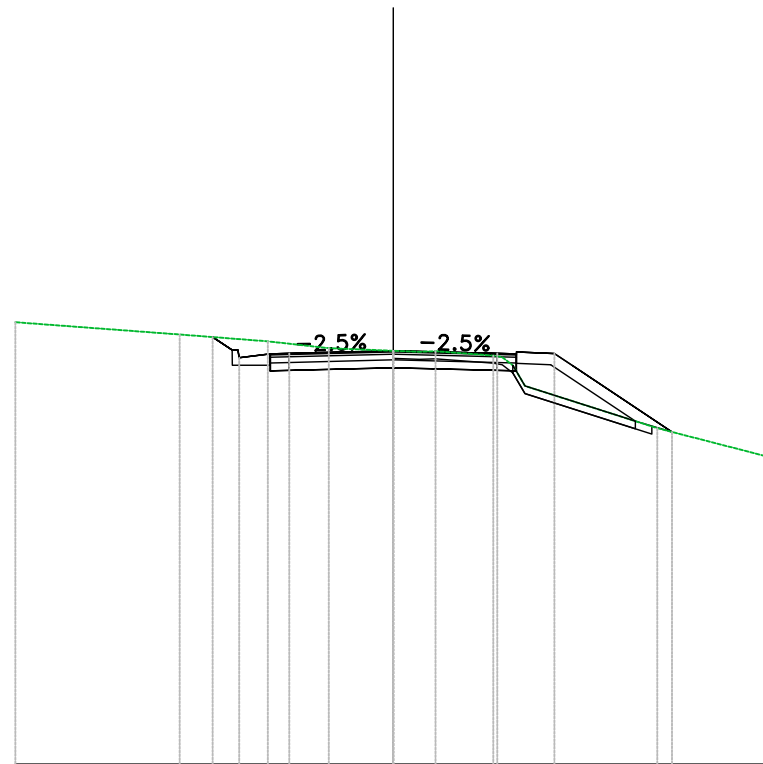
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 Progr.: 0+217.60  
 Scala : 1:200  
 Q.Rif. : 110.00



PROGRESSIVE TERRENO	10.00	6.18	3.89	2.71	2.07	0.00	1.62	3.68	6.43	7.52	9.33	10.00
PARZIALI TERRENO	3.77	2.29	0.00	1.18	0.64	2.07	1.62	2.06	2.75	0.96	1.81	0.67
QUOTE TERRENO	121.59	121.21	120.85	120.75	120.45	119.97	119.59	119.60	118.04	118.00	117.43	117.25
PROGRESSIVE PROGETTO			3.89	2.82	2.00		2.00	3.00				
PARZIALI PROGETTO			0.89	0.82	2.00		2.00	1.00				
QUOTE PROGETTO			120.71	119.92	120.02	119.64	119.92	119.60				
QUOTE SOTTOFONDO			120.71	119.72	119.69	119.64	119.59	119.63				

Materiali - Progr.0+000.00		
Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	1.43	0.00
Scavo	3.97	0.00
Scotico	0.65	0.00
Terreno vegetale	1.25	0.00

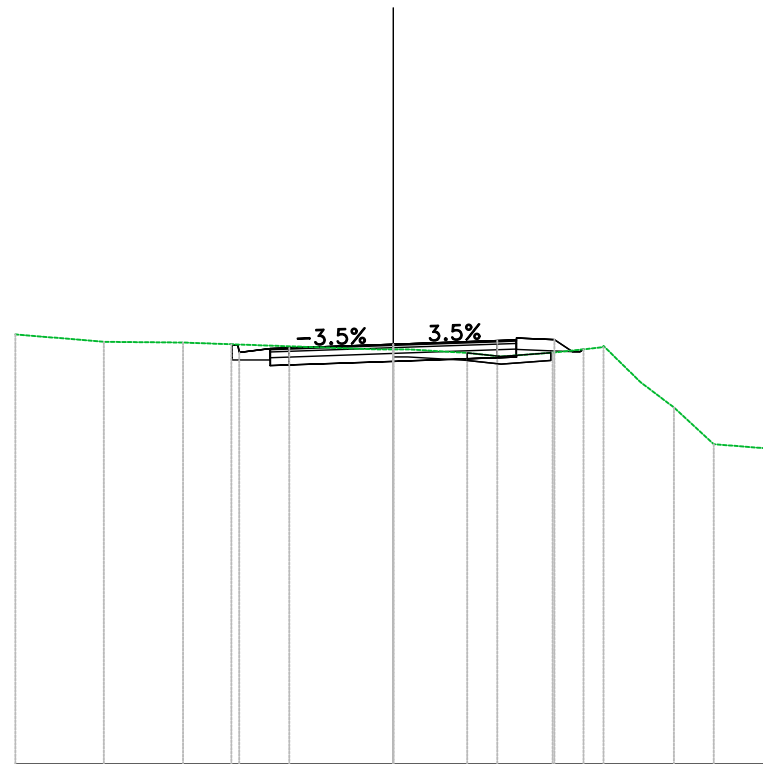
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 Progr.: 0+000.00  
 Scala : 1:200  
 Q.Rif. : 100.00



PROGRESSIVE TERRENO	10:00		-5.65		-3.32		-1.71		0.00	0.69		2.65	3.16		6.99	10:00
PARZIALI TERRENO		4.35		2.33		1.61		1.71	0.69		1.53	0.32		3.50		3.01
QUOTE TERRENO	111.69		111.36		111.18		111.00		110.93	110.90		110.80	110.54		108.88	108.11
PROGRESSIVE PROGETTO				-4.78	-4.08	-3.25	-2.75		0.00		2.75	3.25	4.26	4.74		7.37
PARZIALI PROGETTO				0.52	0.82	0.50		2.75		2.75	0.50	1.00	0.48		2.63	
QUOTE PROGETTO			111.29	110.75	110.88	110.86		110.93		110.86	110.86	110.86	110.84		108.78	108.78
QUOTE SOTTOFONDO			110.53	110.49	110.48	110.48		110.48		110.40	110.56	109.07	108.78			

Materiali - Progr.0+020.00		
Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	0.11	16.50
Scavo	2.34	61.89
Scotico	0.44	11.62
Terreno vegetale	0.37	17.49

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 Sez. 02  
 Progr.: 0+020.00  
 Scala : 1:200  
 Q.Rif. : 100.00



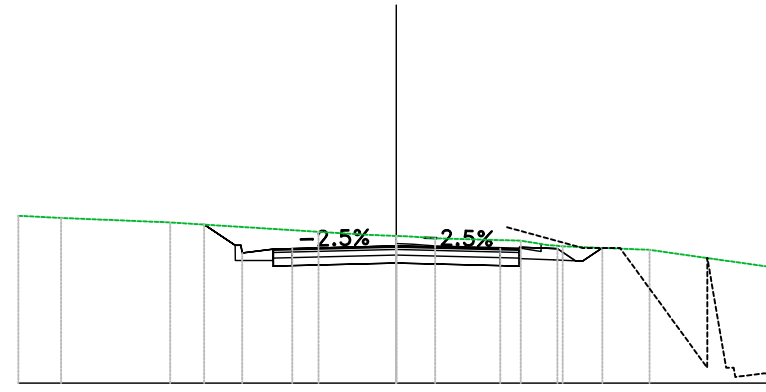
PROGRESSIVE TERRENO	10.00	-7.66	-5.56		0.00	1.96	2.85	4.22	5.56	6.54	7.42	8.48	10.00
PARZIALI TERRENO		2.34	2.10	5.16		1.57	0.89	1.37	1.34	0.98	0.88	1.05	1.52
QUOTE TERRENO	111.36	111.17	111.15		110.97	110.87	110.78	110.88	111.03	110.10	109.43	108.46	108.34
PROGRESSIVE PROGETTO				4.88	0.00	2.75	3.25	4.26	5.03				
PARZIALI PROGETTO			0.82	0.50	2.75	2.75	0.50	1.00	0.48				
QUOTE PROGETTO			110.89	110.99	111.10	111.20	111.23	110.97					
QUOTE SOTTOFONDO			110.69	110.54	110.65	110.76	110.93	110.97					





Materiali - Progr.0+060.00		
Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	0.00	0.90
Scavo	6.81	90.84
Scotico	0.00	8.66
Terrano vegetale	0.37	11.70

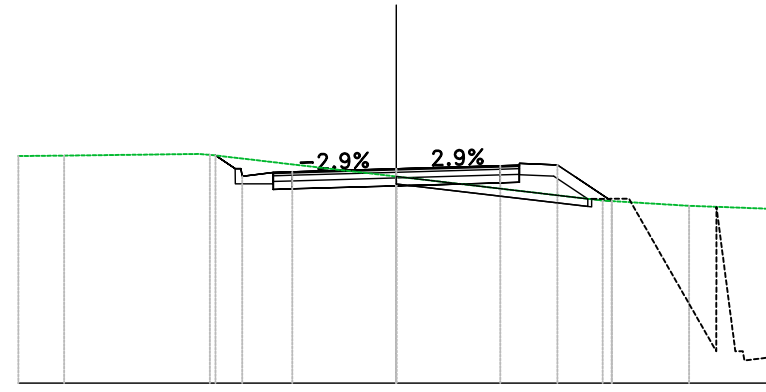
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 Scala : 1:200  
 Q.Rif. : 110.00



PROGRESSIVE TERRENO	10.00	8.87	5.98	2.06	0.77	0.00	1.03	3.29	4.04	6.70	10.00
PARZIALI TERRENO	1.13	2.89	3.92	1.29	0.77	0.61	2.27	0.74	2.20	3.25	
QUOTE TERRENO	114.43	114.37	114.25	114.00	113.92	113.89	113.83	113.77	113.65	113.52	113.06
PROGRESSIVE PROGETTO			5.08	4.08	3.25	2.75	2.75	3.25	4.26	4.74	5.45
PARZIALI PROGETTO			0.82	0.82	0.50	2.75	2.75	0.50	1.00	0.48	0.51
QUOTE PROGETTO			114.19	113.44	113.54	113.63	113.58	113.54	113.55	113.23	113.58
QUOTE SOTTOFONDO			114.19	113.24	113.09	113.18	113.09	113.09	113.26	113.24	113.58

Materiali - Progr.0+080.00		
Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	0.82	8.28
Scavo	2.50	92.88
Scotico	1.01	10.20
Terreno vegetale	0.71	10.90

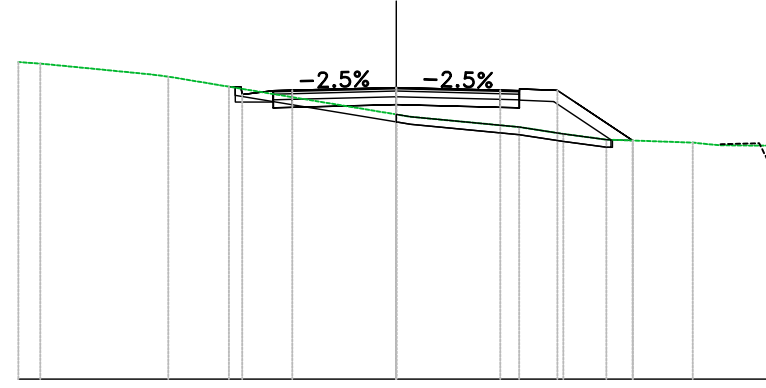
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 Sez. 05  
 Progr.: 0+080.00  
 Scala : 1:200  
 Q.Rif. : 110.00



PROGRESSIVE TERRENO	10.00	8.79	4.93	0.00	5.46	7.75	10.00
PARZIALI TERRENO	1.21	3.55	4.93	5.46	2.28	2.25	
QUOTE TERRENO	116.01	116.02	116.04	115.46	114.83	114.69	114.61
PROGRESSIVE PROGETTO			4.79	4.08	3.25	2.75	
PARZIALI PROGETTO			0.52	0.82	0.50	1.00	
QUOTE PROGETTO			116.02	115.47	115.57	115.45	114.81
QUOTE SOTTOFONDO			115.97	115.14	115.67	115.76	114.81

Materiali - Progr.0+100.00		
Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	2.79	36.81
Scavo	0.65	30.91
Scotico	1.14	21.90
Terreno vegetale	0.92	16.76

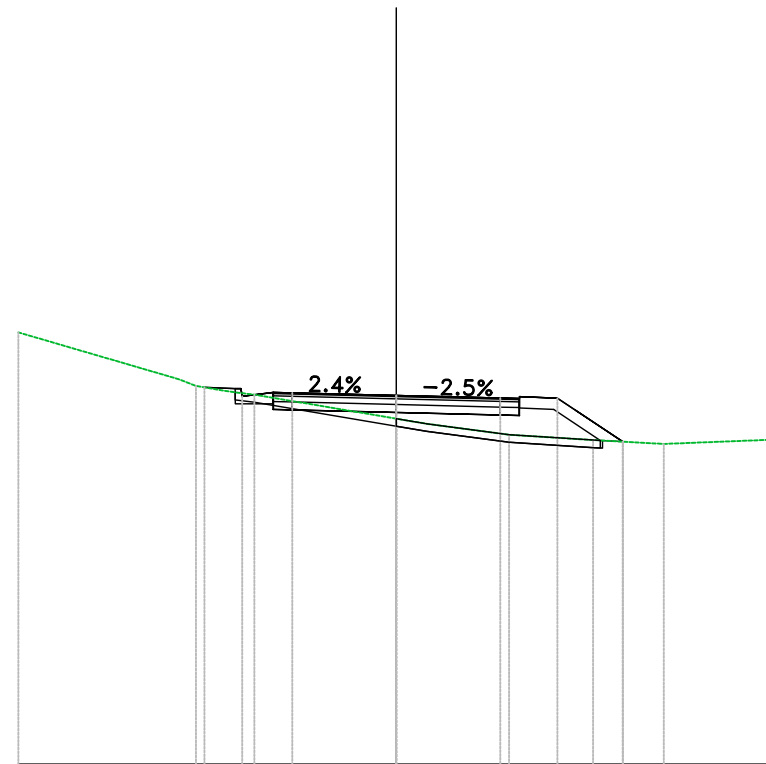
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 Sez. 06  
 Progr.: 0+100.00  
 Scala : 1:200  
 Q.Rif. : 110.00



PROGRESSIVE TERRENO	-10.00	-9.42	-6.03	0.00	3.25	4.42	5.56	7.84	8.34	10.00
PARZIALI TERRENO	0.58	2.97	6.03	2.87	1.17	1.14	2.29	0.50	1.39	
QUOTE TERRENO	118.38	118.35	118.00	117.00	116.67	116.48	116.33	116.25	116.20	116.17
PROGRESSIVE PROGETTO			-4.68	0.00	2.75	4.26	6.26			
PARZIALI PROGETTO			0.82	2.75	0.50	1.00	1.51			
QUOTE PROGETTO			117.32	117.71	117.64	117.64	116.31			
QUOTE SOTTOFONDO			117.18	117.26	117.18	117.34	116.33			

Materiali - Progr.0+120.00		
Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	2.47	51.14
Scavo	0.56	12.45
Scotico	1.08	21.56
Terrano vegetale	0.82	16.59

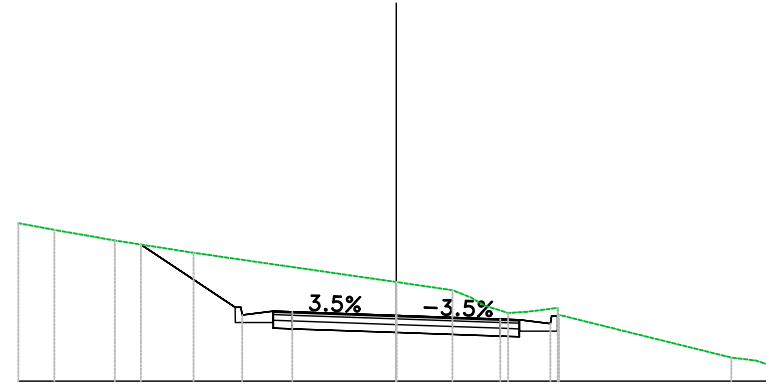
AS\_E93  
 Sez. 07  
 Progr.: 0+120.00  
 Scala : 1:200  
 Q.Rif. : 110.00



PROGRESSIVE TERRENO	10.00	5.30	4.50	3.75	0.00	0.81	2.99	5.20	7.08	120.00
PARZIALI TERRENO	4.24	0.56		3.75	0.81	2.18	2.22	1.87	2.86	
QUOTE TERRENO	121.42	120.00	119.87	119.77	119.13	119.00	118.71	118.57	118.47	118.58
PROGRESSIVE PROGETTO		5.07	4.08	3.25	0.00	3.25	4.26	4.74	6.00	
PARZIALI PROGETTO		0.81	0.82	0.50	2.75	2.75	0.50	1.00	0.48	1.25
QUOTE PROGETTO		119.96	119.73	119.83	119.75	119.68	119.68	119.58	118.53	
QUOTE SOTTOFONDO		120.00	119.53	119.38	119.30	119.23	119.38	118.56	118.53	

Materiali - Progr.0+140.00		
Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	0.00	22.09
Scavo	12.04	132.96
Scofico	0.00	9.65
Terreno vegetale	0.00	6.73

AS\_E93  
 Sez. 08  
 Progr.: 0+140.00  
 Scala : 1:200  
 Q.Rif. : 120.00

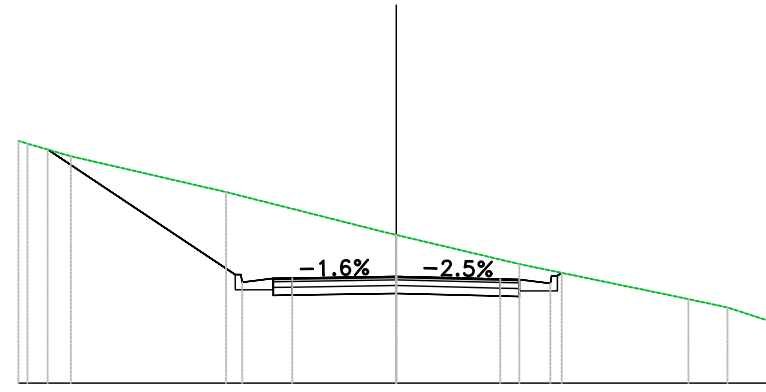


PROGRESSIVE TERRENO	10.00	9.05	7.45	5.36	0.00	1.49	2.33	2.96	3.50	4.27	8.86	9.51	10.00
PARZIALI TERRENO	0.95	1.60	2.08	5.36	1.49	0.49	0.63	0.54	0.77	4.59	0.65	0.49	
QUOTE TERRENO	124.18	124.00	123.72	123.39	122.62	122.41	122.00	121.80	121.84	121.94	120.62	120.54	120.38
PROGRESSIVE PROGETTO			6.75	4.08	3.25	2.75	2.75	3.25	4.98				
PARZIALI PROGETTO			2.49	0.82	0.50	2.75	0.50	0.82					
QUOTE PROGETTO			123.61	121.75	121.83	121.73	121.64	121.53					
QUOTE SOTTOFONDO			123.61	121.55	121.49	121.28	121.19	121.33					



Materiali - Progr.0+180.00		
Materiale	Area (m <sup>2</sup> )	Vol. (m <sup>3</sup> )
Rilevato	0.00	0.42
Scavo	18.60	341.43
Scotico	0.00	0.00
Terreno vegetale	0.00	5.57

AS\_E93  
 Sez. 10  
 Progr.: 0+180.00  
 Scala : 1:200  
 Q.Rif. : 120.00



PROGRESSIVE TERRENO	-9.78	-8.61	-4.50	0.00	3.25	7.73	8.76	9.66
PARZIALI TERRENO	1.15	4.11	4.16	3.25	4.48	1.03	0.95	
QUOTE TERRENO	126.53	126.00	125.05	123.92	123.15	122.22	122.00	121.58
PROGRESSIVE PROGETTO	-9.23		-4.08	0.00	2.75	4.98		
PARZIALI PROGETTO		4.96	0.82	2.75	0.50	0.82		
QUOTE PROGETTO	126.18		122.67	122.82	122.74	122.64		
QUOTE SOTTOFONDO	126.18		122.47	122.37	122.39	122.44		





