

AUTOSTRADA (A11): FIRENZE - PISA NORD

TRATTO: FIRENZE - PISTOIA

AMPLIAMENTO ALLA TERZA CORSIA

LOTTO 1

PROGETTO ESECUTIVO

AUTOSTRADA A11 -TRATTO FIRENZE-PISTOIA

Sezioni trasversali cuspidi di svincolo

Sezioni trasversali di controllo

IL PROGETTISTA SPECIALISTICO

Ing. Gianluca Salvatore Spinazzola
Ord. Ingg. Milano n.A26796

Responsabile Strade e Arredi Stradali

IL RESPONSABILE INTEGRAZIONE
PRESTAZIONI SPECIALISTICHE



Ing. Andrea Federico Ceppi
Ord. Ingg. Milano n.A26059

IL DIRETTORE TECNICO

Ing. Orlando Mazza
Ord. Ingg. Pavia n.1496

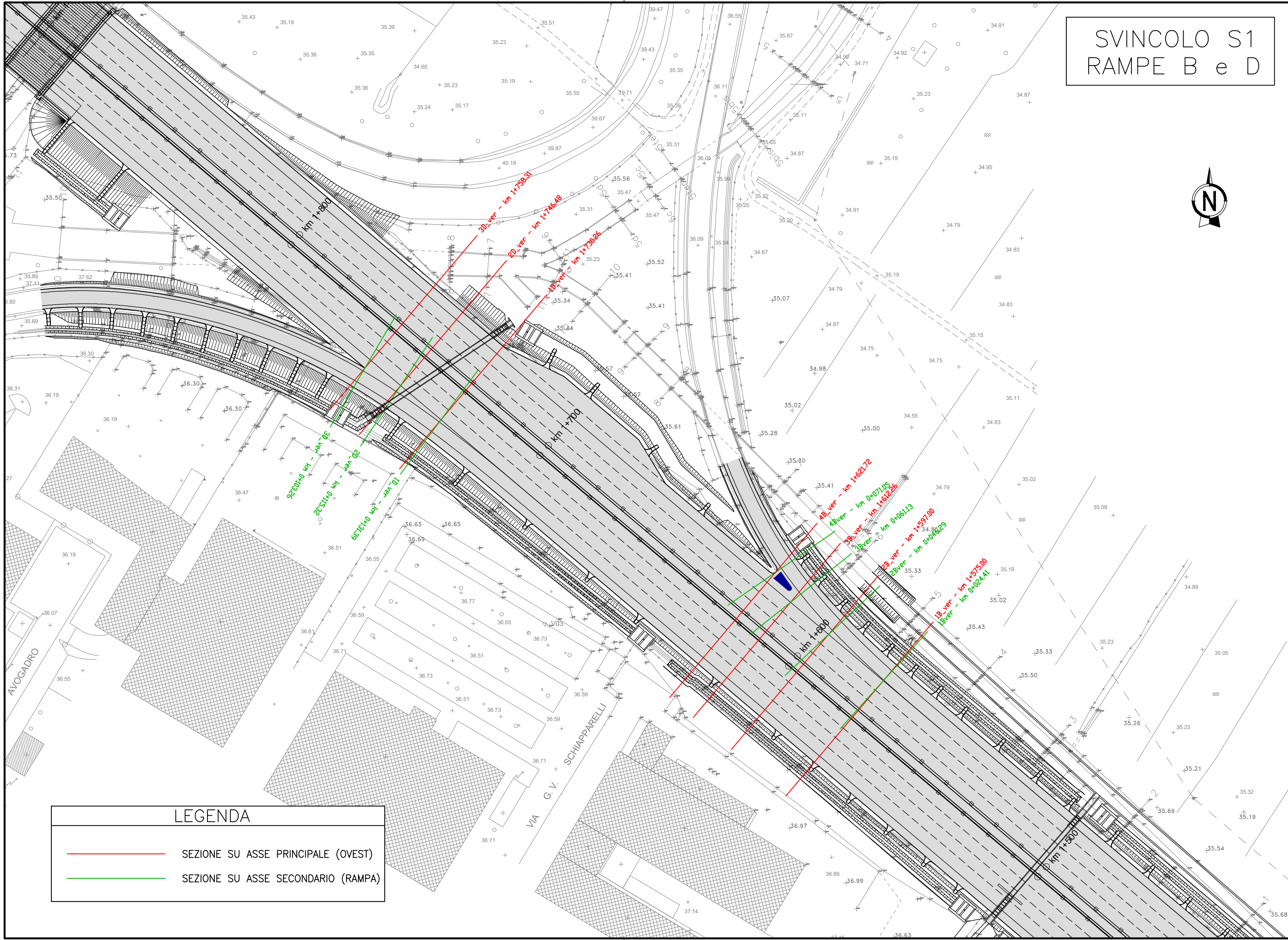
DIVISIONE PROGETTAZIONE E D.L. NUOVE OPERE AUTOSTRADALI

RIFERIMENTO PROGETTO			CODICE IDENTIFICATIVO				RIFERIMENTO ELABORATO				ORDINATORE
Codice Commessa	Lotto, Sub-Prog. Cod. Appalto	Fase	Capitolo	Paragrafo	W B S	Parte d'opera	Tip.	Disciplina	Progressivo	Rev.	-
111117	LL01	PE	A1	PRS	SZ000	00000	D	STD	0121	0	SCALA 1:200

 	PROJECT MANAGER:	SUPPORTO SPECIALISTICO:	REVISIONE	
	Ing. Paolo Simonetta Ord. Ingg. Varese n.2239		n.	data
REDATTO:	VERIFICATO:		0	Ottobre 2018

	<p>VISTO DEL COMMITTENTE</p>  <p>IL RESPONSABILE UNICO DEL PROCEDIMENTO Ing. Giovanni Scotto Lavina</p>	<p>VISTO DEL CONCEDENTE</p>  <p>Ministero delle Infrastrutture e dei Trasporti DIPARTIMENTO PER LE INFRASTRUTTURE, GLI AFFARI GENERALI ED IL PERSONALE STRUTTURA DI VIGILANZA SULLE CONCESSIONARIE AUTOSTRADALI</p>
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SVINCOLO S1 RAMPE B e D



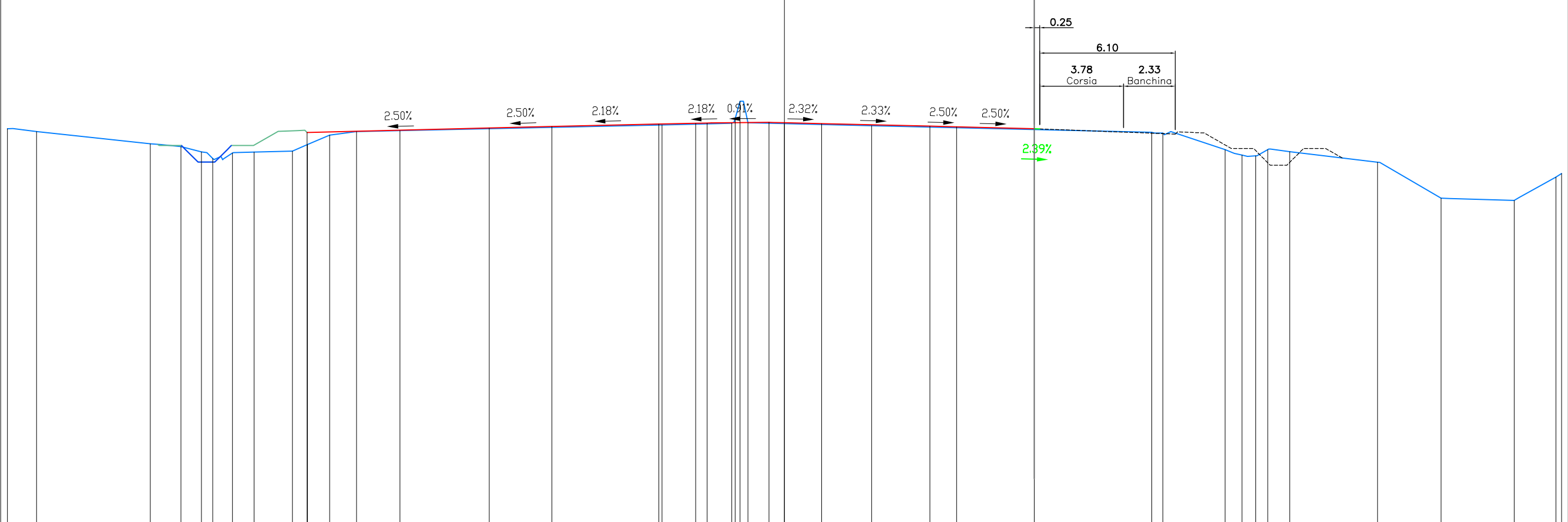
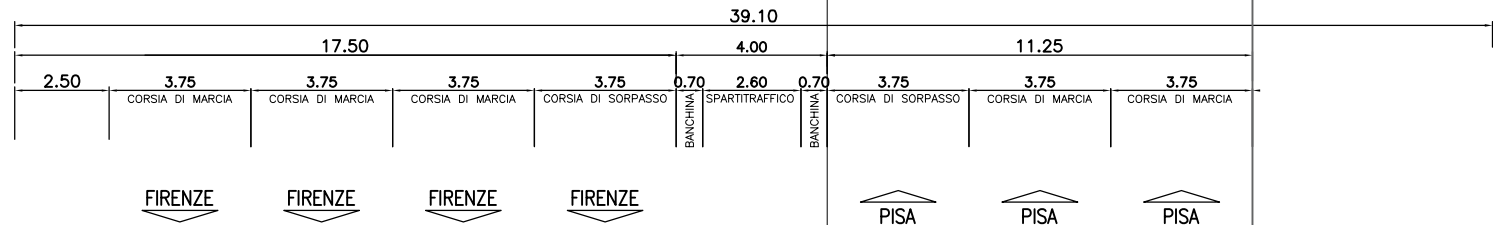
LEGENDA

- SEZIONE SU ASSE PRINCIPALE (OVEST)
- SEZIONE SU ASSE SECONDARIO (RAMPA)

PROFILO PT-OVEST-2

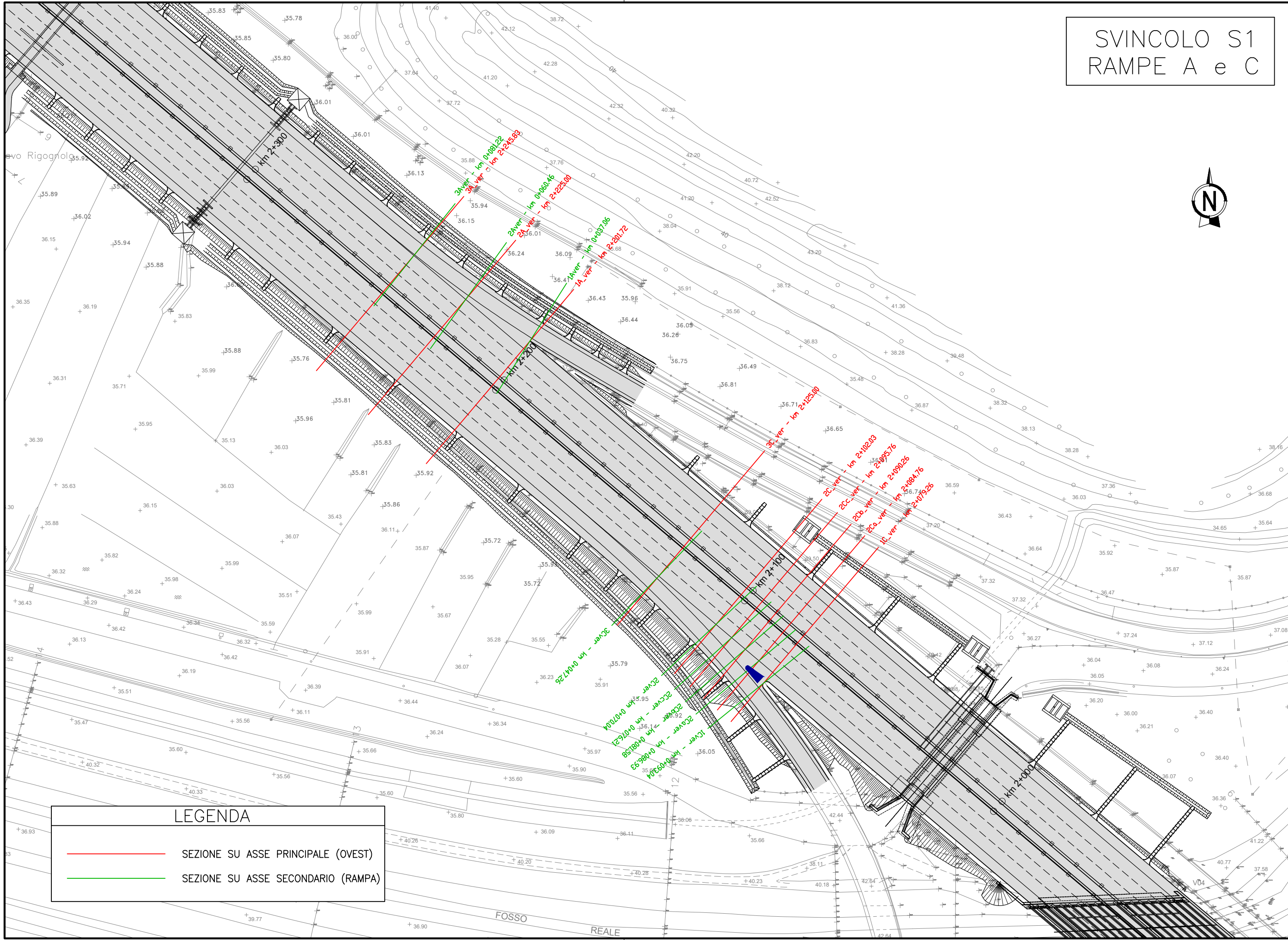
SEZIONE 1B_ver

PROGRESSIVA 1575.00



PROGRESSIVE TERRENO	35.00	33.68	28.57	27.18	26.26	25.75	24.86	23.89	22.16	21.48	20.48	19.28	17.32	5.52	2.37	2.22	2.00	1.65	3.93	16.54	17.04	19.84	20.61	21.23	21.76	22.76	26.71	29.58	32.87	34.75	35.00
PARZIALI TERRENO	1.32	5.11	1.39	0.92	0.51	0.89	0.97	1.73	0.68	1.00	1.20	1.96	11.80	3.15	0.15	0.22	0.35	5.58	12.61	0.50	2.80	0.77	0.62	0.53	1.00	3.95	2.87	3.29	1.88	0.25	0.25
QUOTE TERRENO	36.72	36.59	36.04	35.92	35.68	35.38	35.63	35.67	35.71	36.01	36.43	36.59	36.63	36.89	36.96	37.17	37.96	36.99	36.85	36.56	36.52	35.78	35.53	35.49	35.78	35.68	35.21	33.59	33.49	34.54	34.71
PROGRESSIVE PROGETTO									21.50					5.66	4.00	3.48		0.70								11.25					
PARZIALI PROGETTO											8.20			2.83		4.81	1.66	0.52	0.18	2.60	0.70	1.68		4.87	1.20	3.50					
QUOTE PROGETTO									36.55					36.75		36.82		36.93	36.98	37.00	36.99	36.95		36.83	36.80	36.72					

SVINCOLO S1 RAMPE A e C



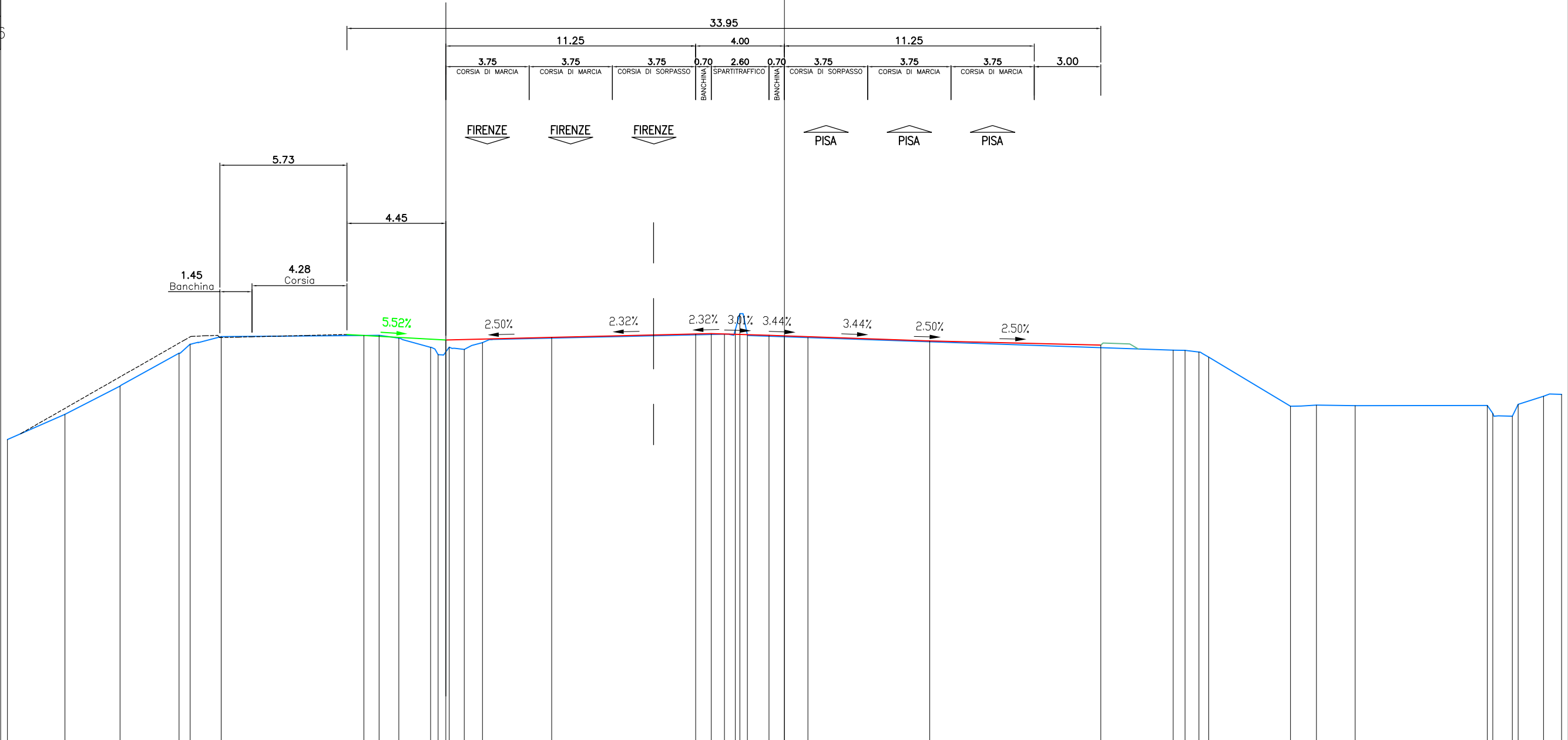
LEGENDA

- SEZIONE SU ASSE PRINCIPALE (OVEST)
- SEZIONE SU ASSE SECONDARIO (RAMPA)

PROFILO PT-OVEST-2

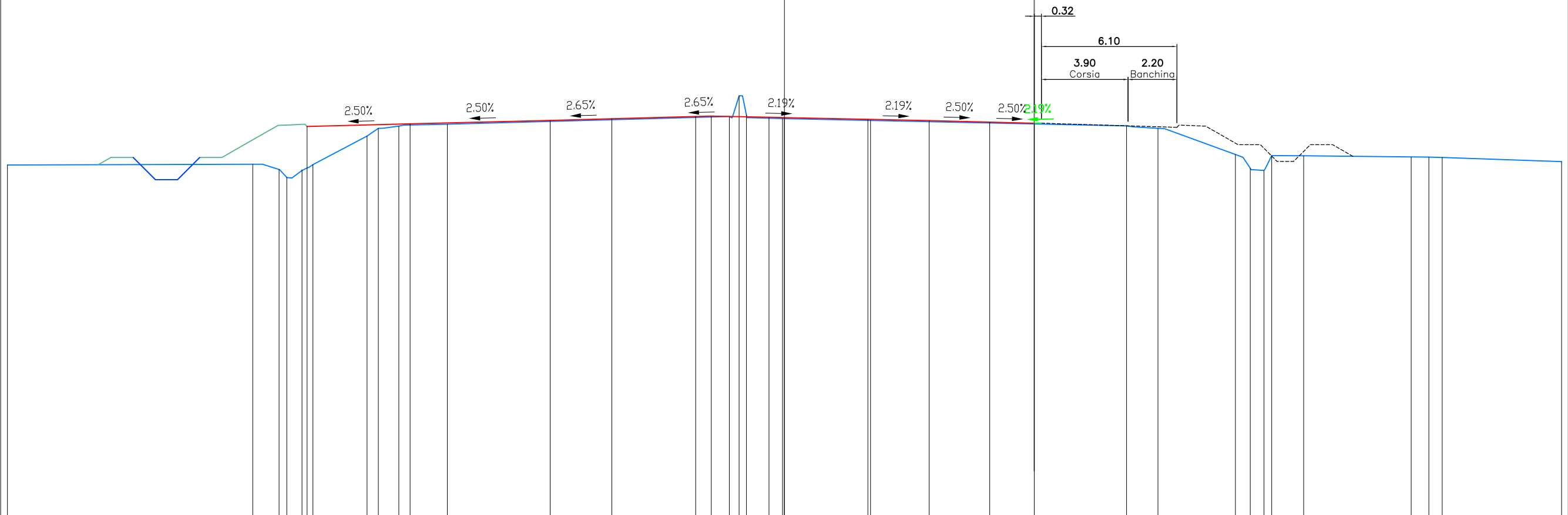
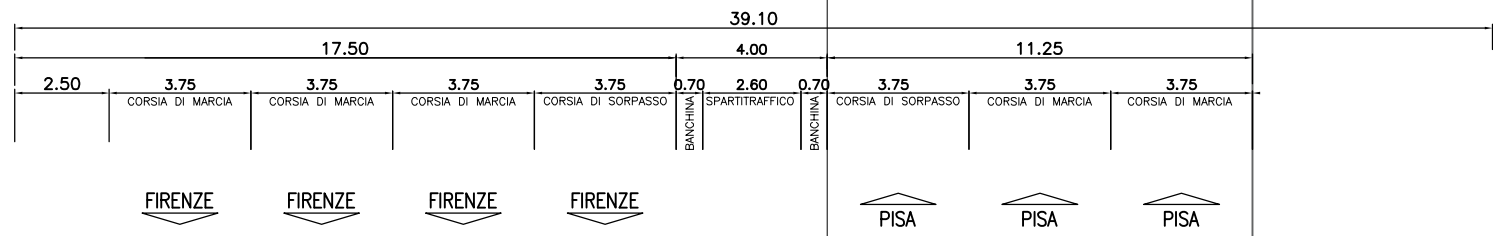
SEZIONE 2Cb_ver

PROGRESSIVA 2090.26



PROGRESSIVE TERRENO	35.00	32.41	29.93	27.27	26.77	25.37	18.94	18.26	17.37	15.93	15.60	15.10	14.42	13.60	1.05	17.50	18.04	18.67	19.11	22.79	23.96	25.70	31.66	31.90	32.78	33.04	34.19	35.00	
PARZIALI TERRENO	2.59	2.48	2.66	0.50	1.40	6.43	0.68	0.89	1.44	0.33	0.50	0.68	0.82	10.90	0.49	0.20	0.34	2.72	16.45	3.68	1.17	1.74	5.96	0.24	0.88	0.26	1.15	0.81	
QUOTE TERRENO	35.55	36.67	37.95	39.43	39.83	40.17	40.23	40.24	40.10	39.70	39.36	39.70	39.60	39.91	40.13	39.57	39.56	39.48	39.25	37.04	37.09	37.07	37.07	37.07	36.72	36.60	37.13	37.49	37.57
PROGRESSIVE PROGETTO											15.25		10.48		4.00	3.30			6.54			14.25							
PARZIALI PROGETTO											4.77		6.48		0.70	0.70		6.54	7.71										
QUOTE PROGETTO											40.03		40.14		40.29	40.31		40.23	39.98			39.79							

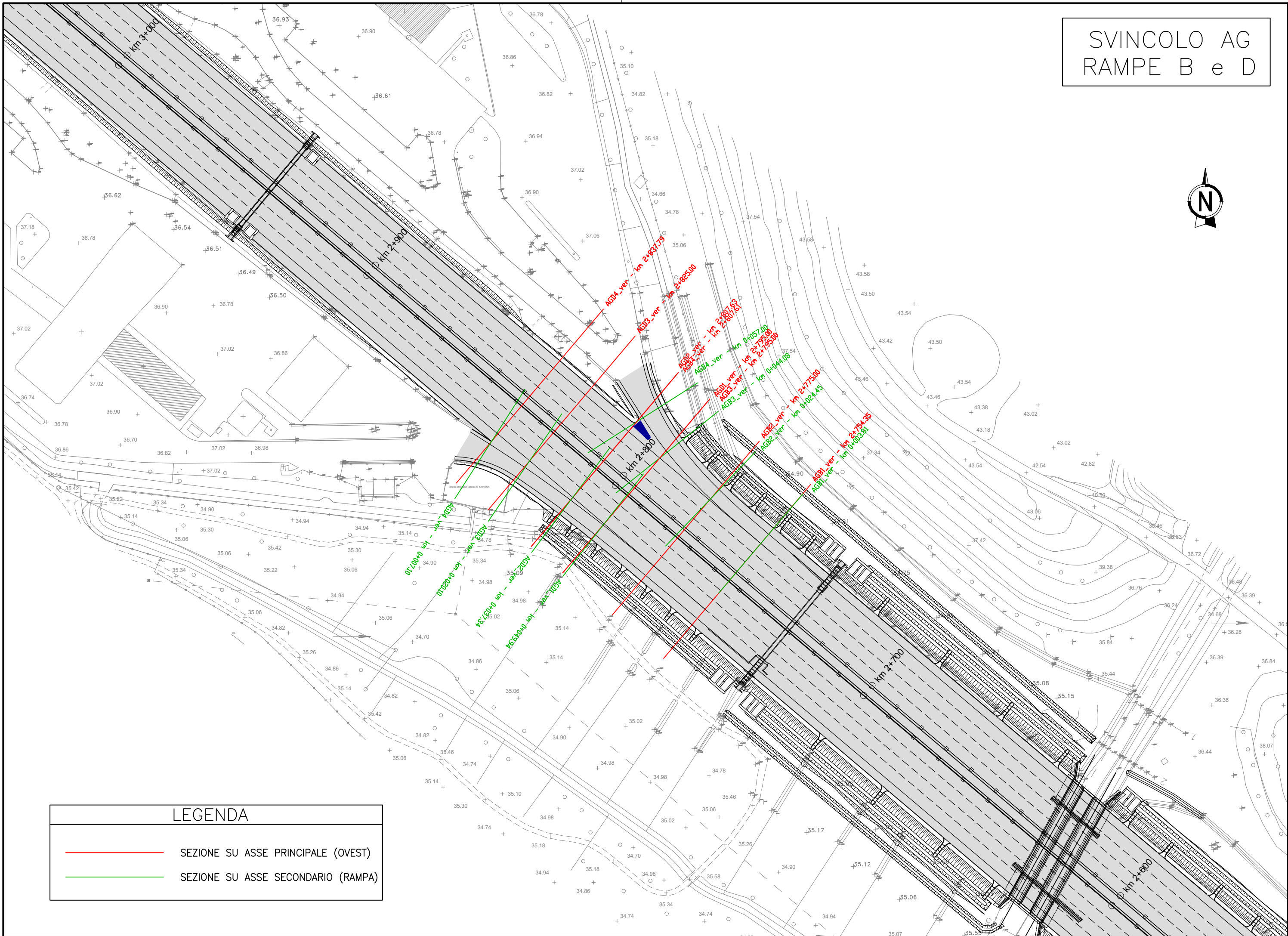
PROFILO PT-OVEST-2
 SEZIONE 3A_ver
 PROGRESSIVA 2245.83



20
 200
 200

PROGRESSIVE TERRENO	35.00	-23.95	-22.76	-22.41	-21.73	-21.24	18.80	18.29	17.37	-15.19		-2.49	-2.04	-1.71	-0.08	3.87		15.41	16.83	20.31	20.98	21.60	21.94	23.38	28.23	29.02	29.63	35.00	
PARZIALI TERRENO	11.05	1.19	0.35	0.68	0.49	2.44	0.51	0.92	2.18		12.70	0.45	0.33	1.63	3.95		11.54	1.42	3.48	0.67	0.62	0.34	1.44	4.85	0.79	0.61	5.37		
QUOTE TERRENO	35.79	35.82	35.58	35.23	35.54	35.80	37.09	37.44	37.54	37.63		37.97	38.90	38.04	37.88	37.80		37.55	37.44	36.26	35.64	35.54	36.21	36.20	36.16	36.14	36.12	35.94	
PROGRESSIVE PROGETTO					21.50		16.86				10.56	7.78		4.00	3.30		0.70		0.00										
PARZIALI PROGETTO						4.64			6.30		2.78	3.78		0.70		3.76	2.75	2.73	2.01										
QUOTE PROGETTO					37.52		37.64				37.80	37.87		37.97	37.99		37.94	37.92		37.84	37.78	37.71	37.66						

SVINCOLO AG RAMPE B e D



LEGENDA

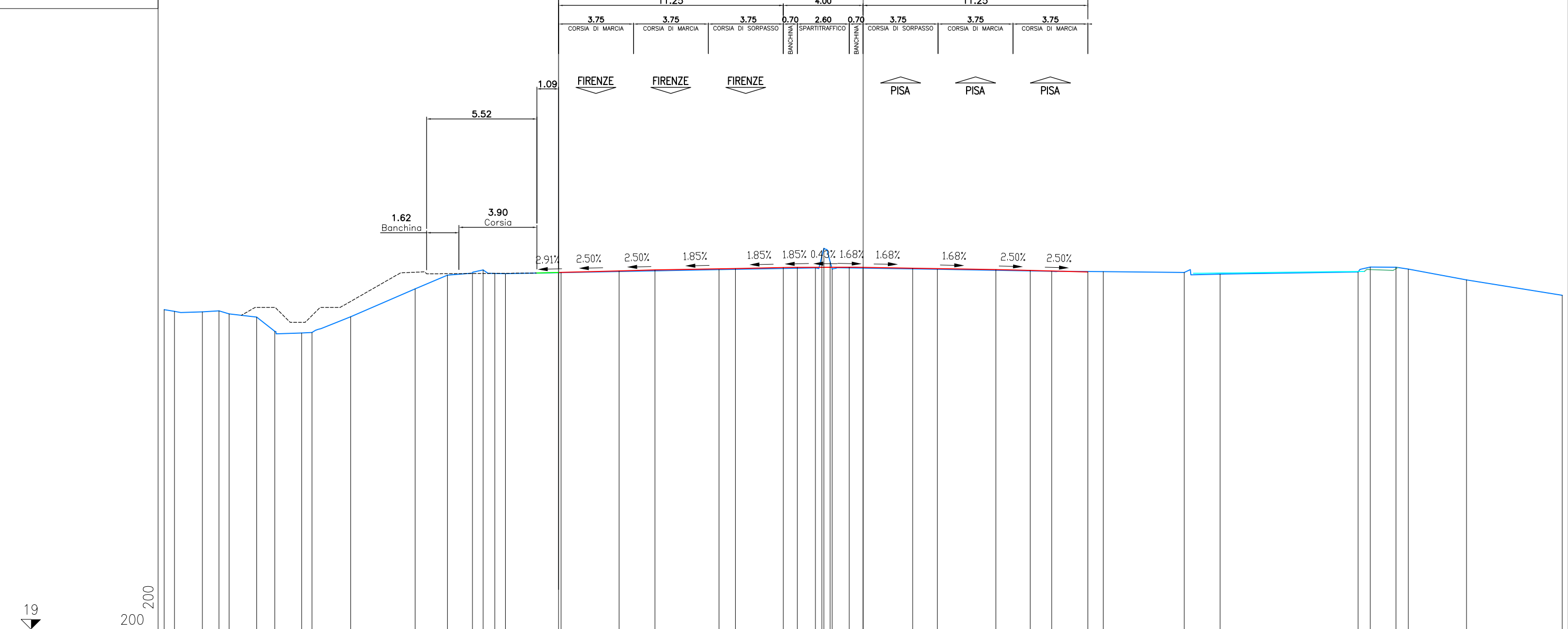
— SEZIONE SU ASSE PRINCIPALE (OVEST)

— SEZIONE SU ASSE SECONDARIO (RAMPA)

PROFILO PT-OVEST-2

SEZIONE AGD2_ver

PROGRESSIVA 2807.63

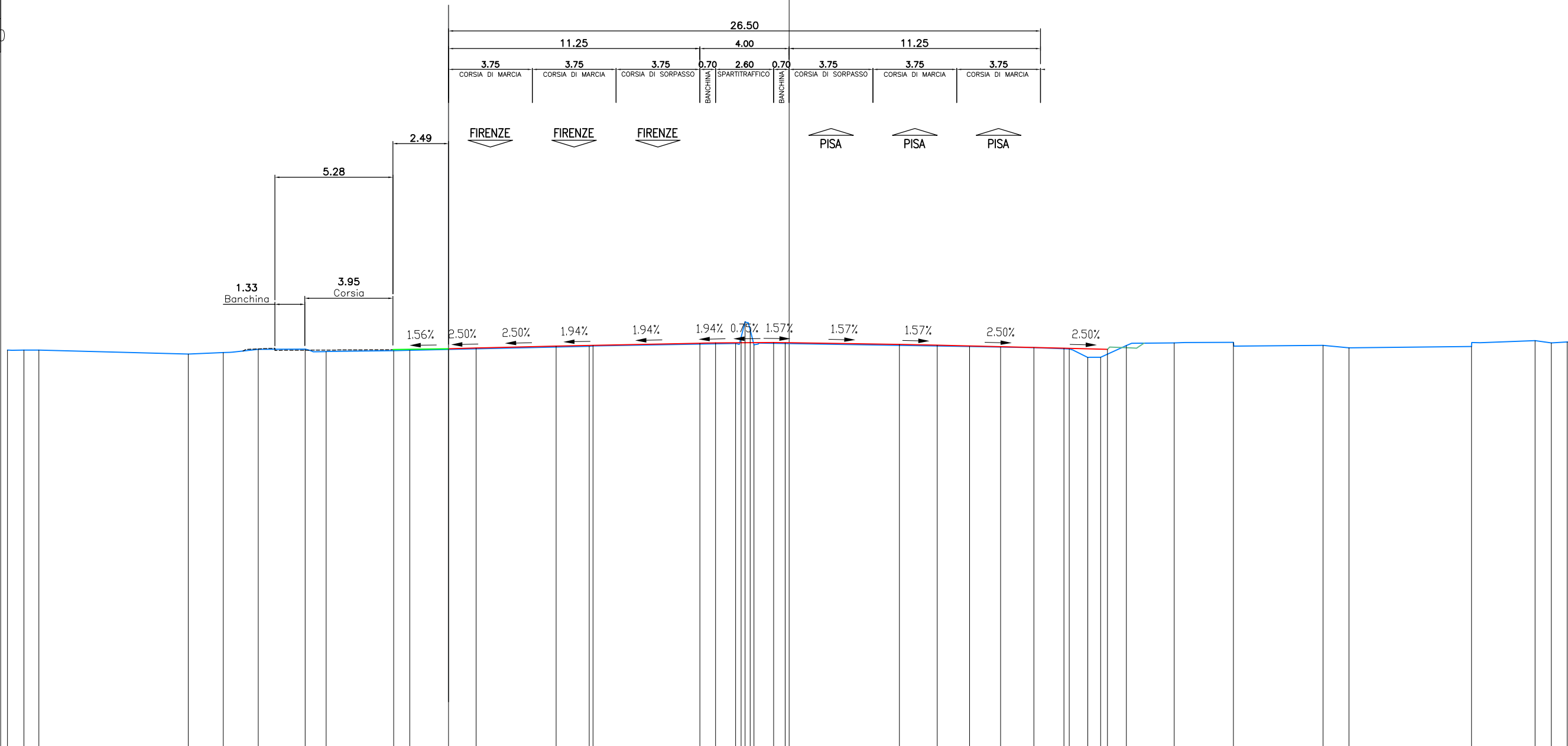


PROGRESSIVE TERRENO	35.00	34.48	33.08	32.25	31.75	30.36	29.46	28.11	27.60	25.66	22.43	20.81	19.57	19.03	18.44	17.91	15.12	7.22	2.39	2.07	1.96	1.65	1.56	3.72	9.44	12.02	16.08	17.87	24.78	25.39	26.67	27.29	30.20	35.00
PARZIALI TERRENO	0.52	1.40	0.83	0.50	1.39	0.90	1.35	0.51	1.94	3.23	1.62	1.24	0.54	0.59	0.53	2.79	7.90	4.83	0.32	0.11	0.31	0.09	5.28	5.72	2.58	4.06	1.79	6.91	0.61	1.28	0.62	2.91	4.80	
QUOTE TERRENO	35.02	34.93	34.90	34.96	34.81	34.65	33.93	33.85	33.87	34.66	36.06	36.74	36.85	37.01	36.83	36.82	36.87	37.02	37.11	37.69	38.09	37.41	37.05	37.04	36.93	36.92	36.88	36.79	36.91	37.15	37.14	37.05	36.51	35.74
PROGRESSIVE PROGETTO																	15.25	12.22	10.42	6.39	4.00	3.30	0.70	0.00	2.48	6.64	8.36	11.25						
PARZIALI PROGETTO																	3.03	1.80	4.03	2.39	0.70	2.60	0.70	2.48	4.16	1.72	2.89							
QUOTE PROGETTO																	36.88	36.96	37.00	37.08	37.12	37.13	37.15	37.13	37.09	37.02	36.98	36.91						

PROFILO PT-OVEST-2

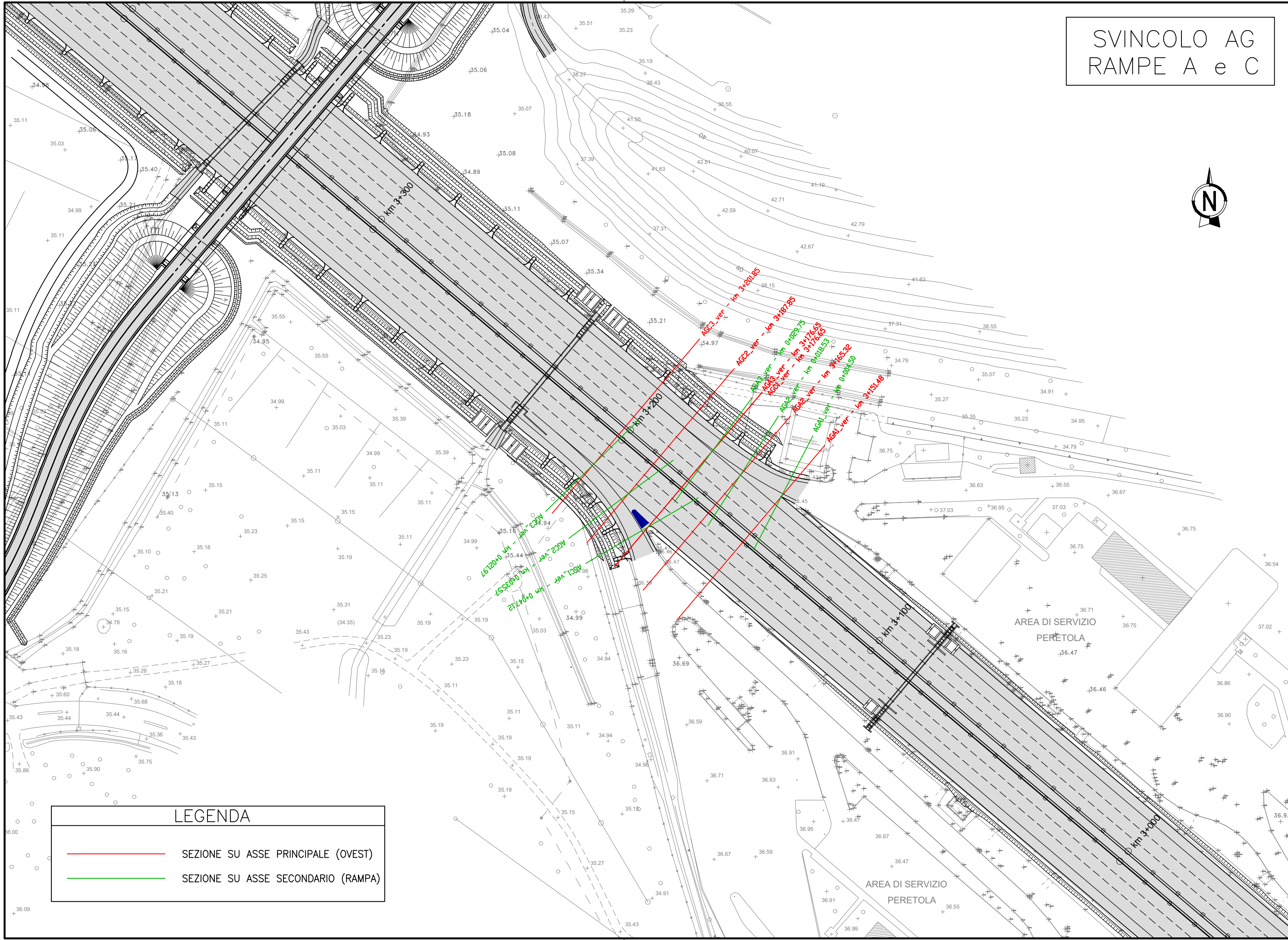
SEZIONE AGD3_ver

PROGRESSIVA 2825.00





PROGRESSIVE TERRENO	35.00	34.26	33.59	26.91	25.34	23.77	21.67	20.73	17.70	16.99	8.95	2.40	2.16	1.98	1.75	1.57	8.08	9.47	10.95	12.54	13.37	13.94	15.10	17.24	19.89	23.90	25.06	30.54	33.39	34.12	34.83	35.00
PARZIALI TERRENO	0.74	0.67		6.68	1.57	1.57	2.10	0.94	3.03	0.71	8.04	0.24	0.18	0.23	0.18	9.65	1.39	1.48	1.59	0.83	0.57	1.16	2.14	2.65	4.01	1.16	5.48	2.85	0.73	0.71	0.17	
QUOTE TERRENO	36.75	36.75	36.75	36.57	36.64	36.78	36.79	36.69	36.72	36.74	36.92	37.05	37.32	38.02	37.65	36.99	36.91	36.89	36.86	36.81	36.42	36.43	36.96	37.08	37.10	36.96	36.85	36.91	37.17	37.08	37.11	37.11
PROGRESSIVE PROGETTO									15.25		14.02						4.93		6.63			12.30		14.25								
PARZIALI PROGETTO									1.23		3.58						5.11		5.67			1.95										
QUOTE PROGETTO									36.81		36.84						37.00		36.98			36.83		36.79								

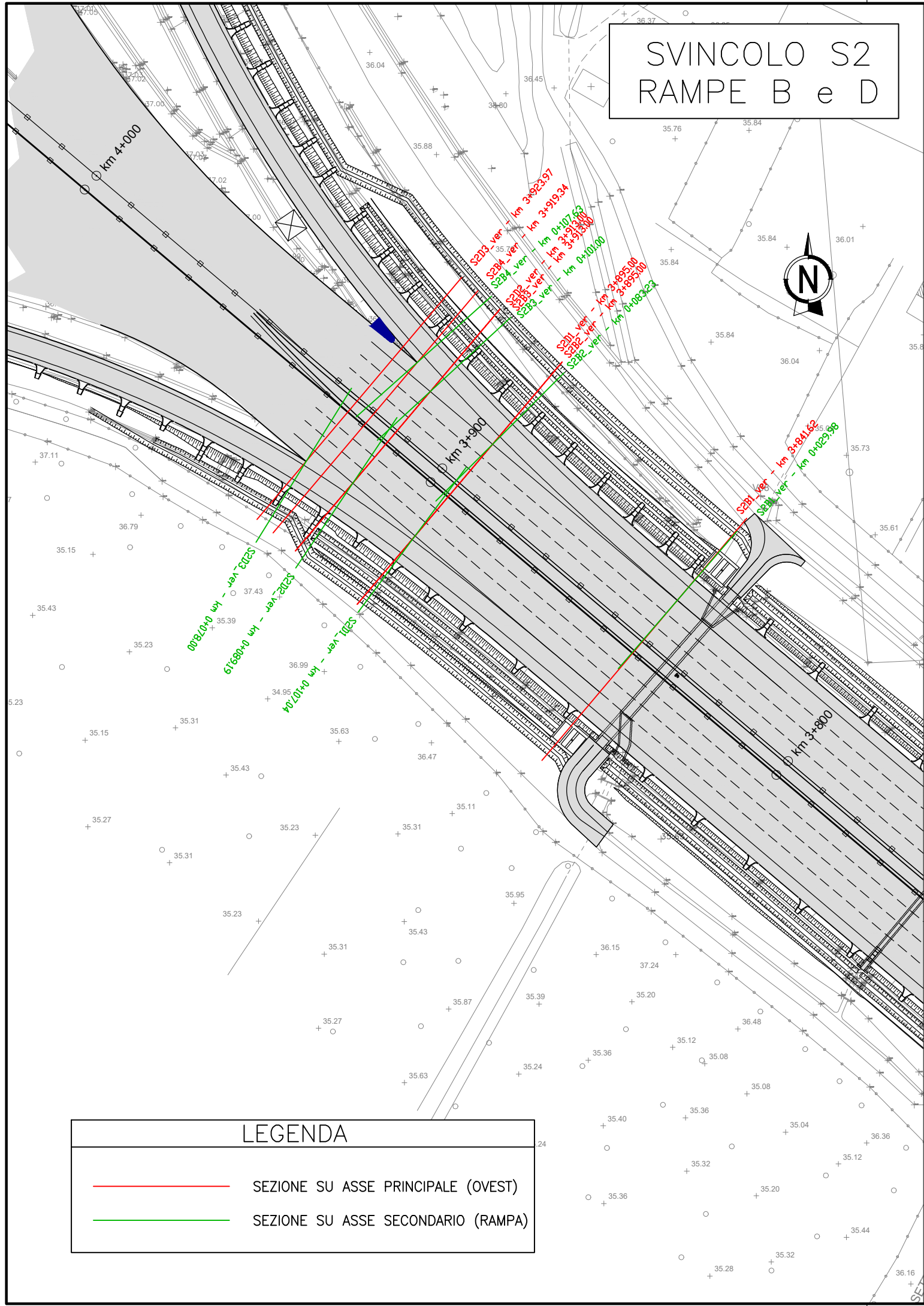
SVINCOLO AG RAMPE A e C



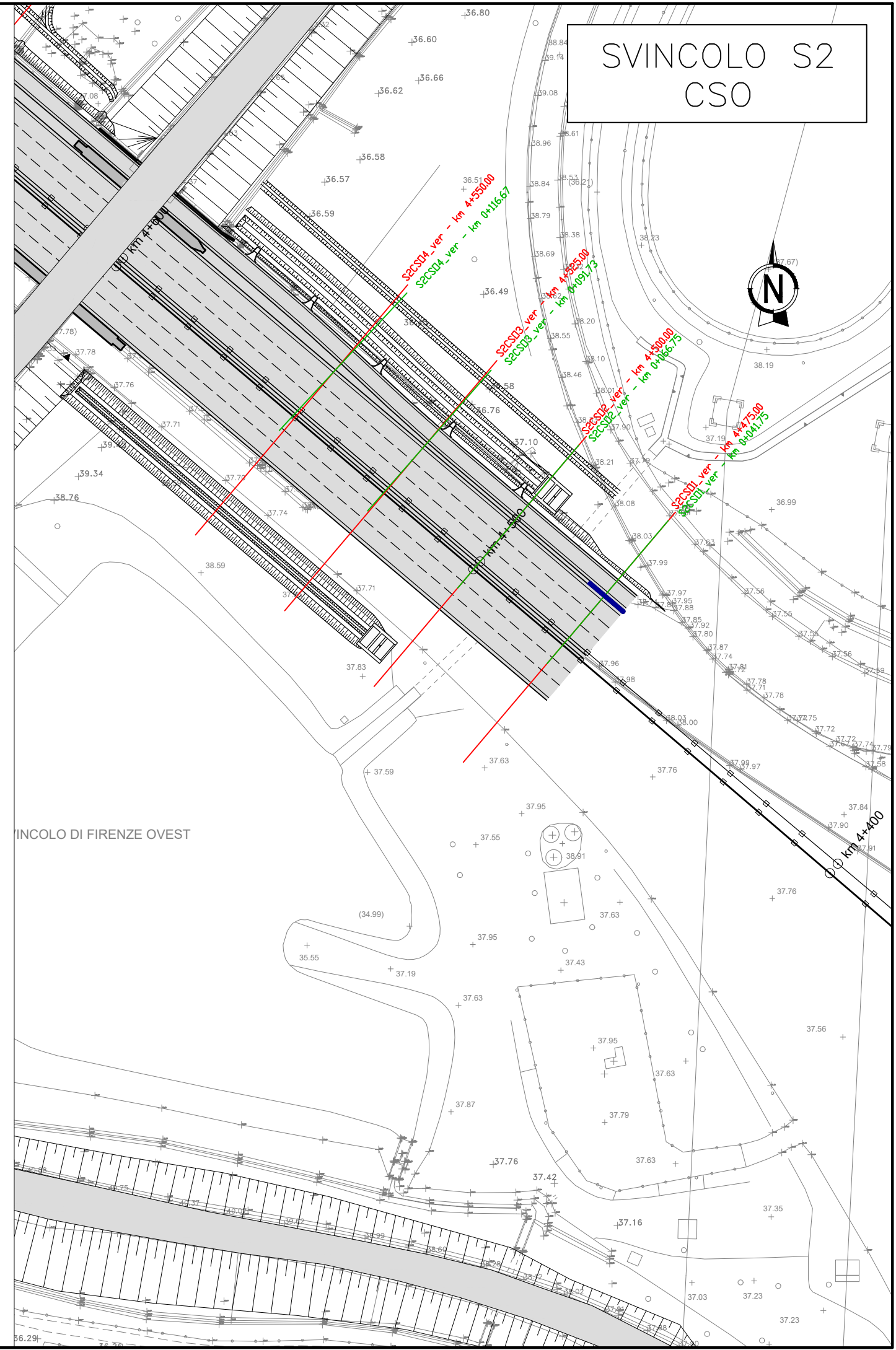
LEGENDA

	SEZIONE SU ASSE PRINCIPALE (OVEST)
	SEZIONE SU ASSE SECONDARIO (RAMPA)

SVINCOLO S2 RAMPE B e D



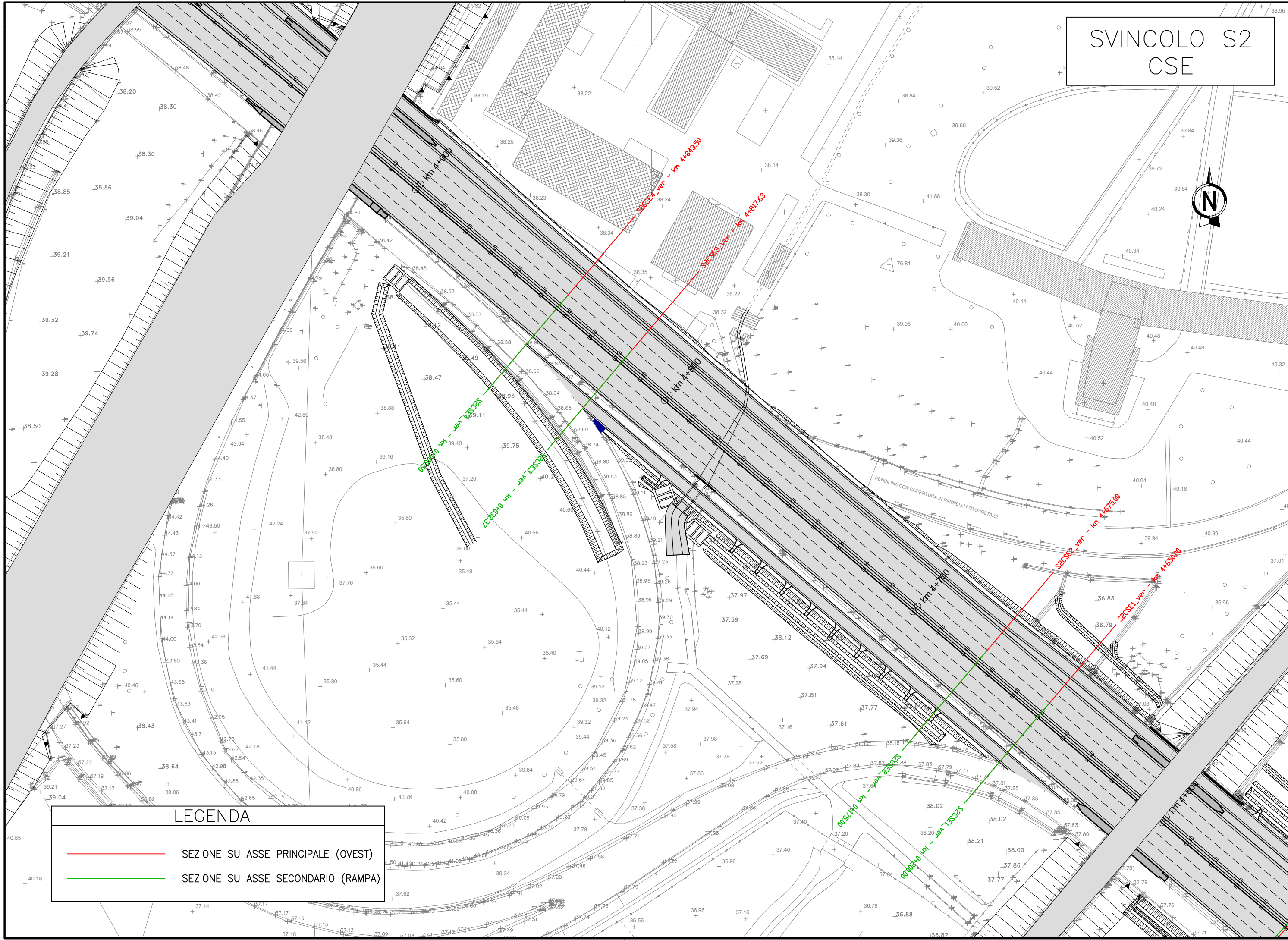
SVINCOLO S2 CSO



LEGENDA

- SEZIONE SU ASSE PRINCIPALE (OVEST)
- SEZIONE SU ASSE SECONDARIO (RAMPA)

SVINCOLO S2 CSE



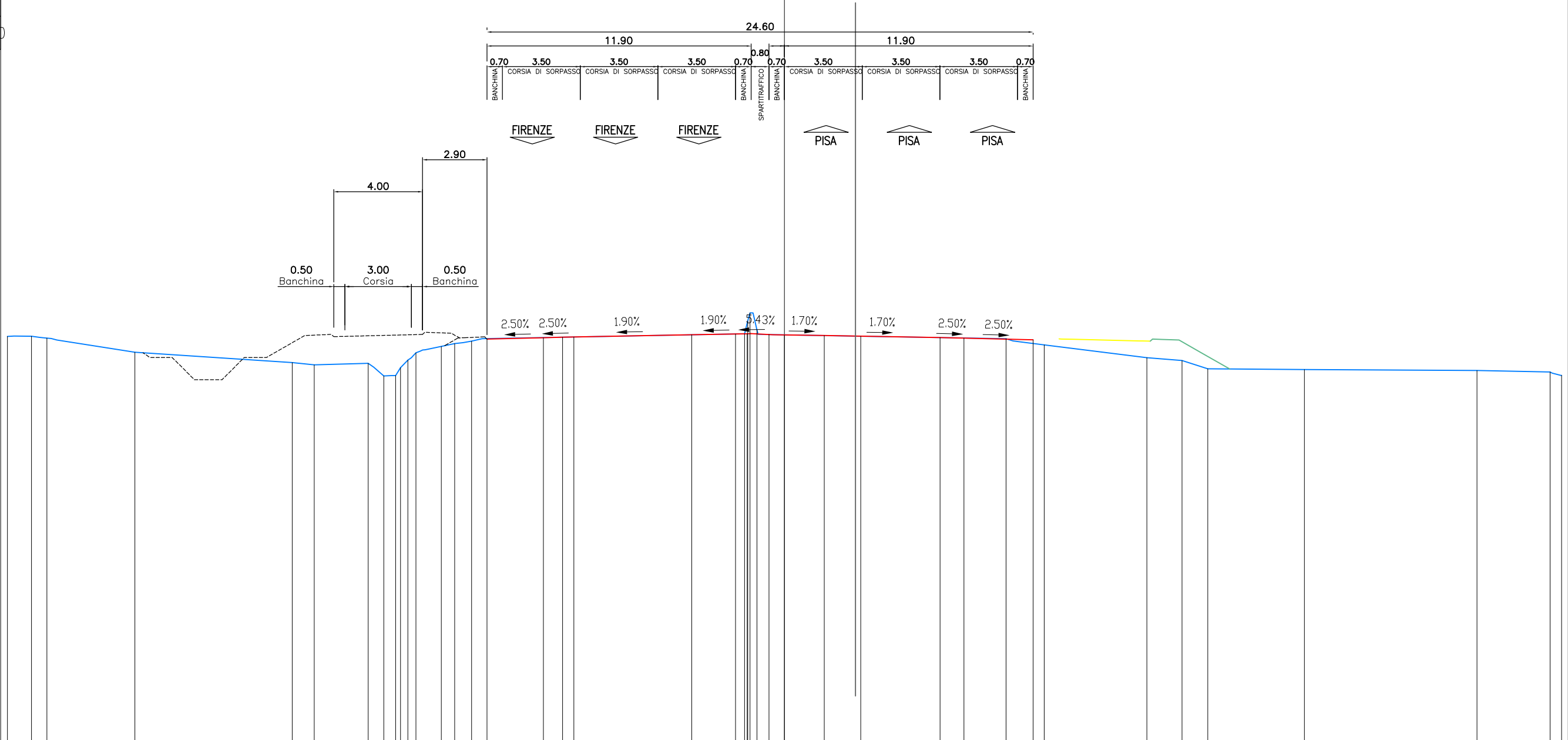
LEGENDA

- SEZIONE SU ASSE PRINCIPALE (OVEST)
- SEZIONE SU ASSE SECONDARIO (RAMPA)

PROFILO PT-OVEST-2

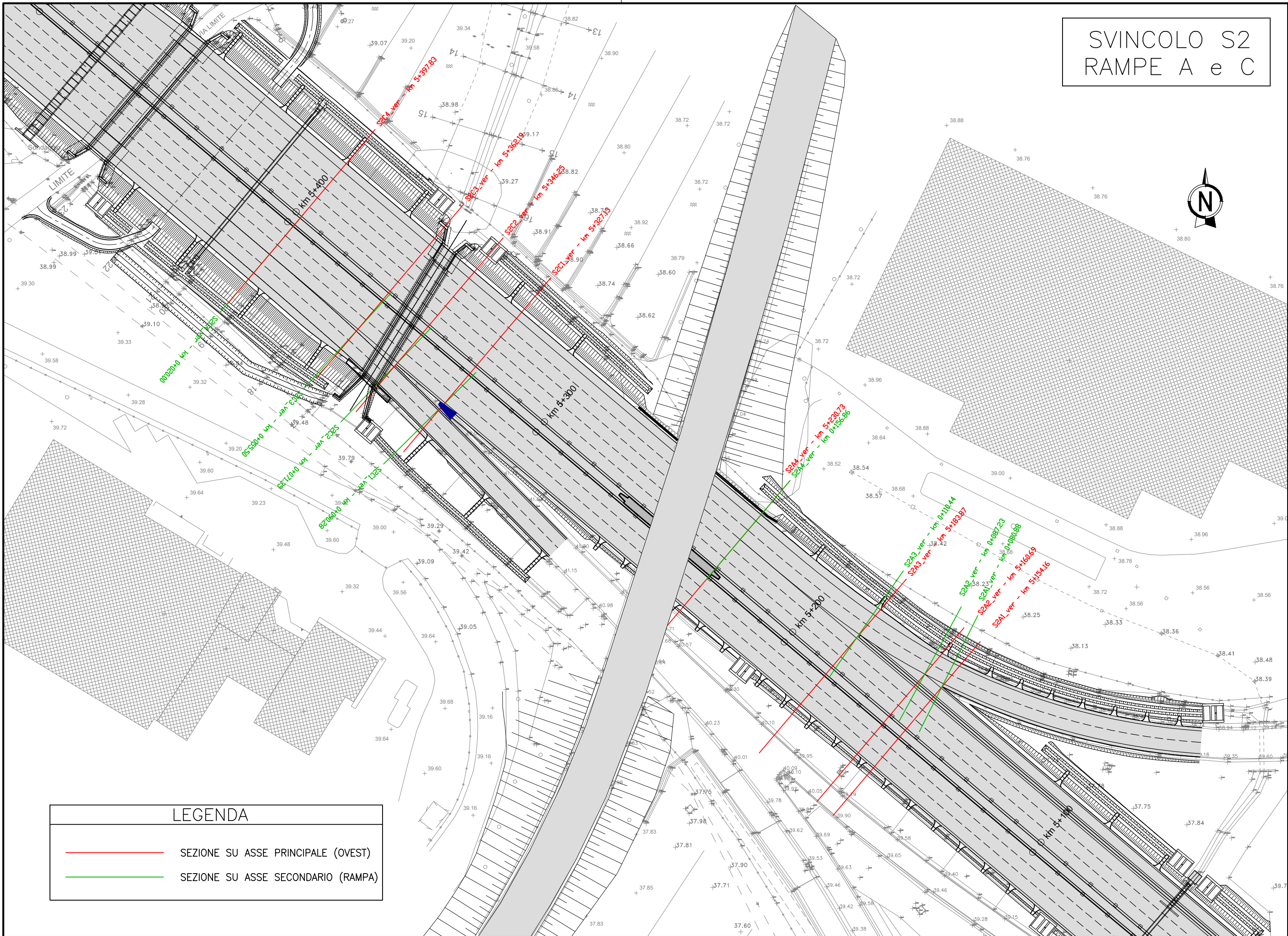
SEZIONE S2CSE2_ver



PROGRESSIVA 4675.00



PROGRESSIVE TERRENO	35.00	33.92	33.21	29.25	22.17	21.18	18.75	18.05	17.51	17.29	16.96	16.60	15.46	14.85	14.09	9.49	-1.80	-1.65	-1.55	-1.24	3.44	9.98	11.70	16.32	17.91	19.07	23.42	31.19	34.48	35.00
PARZIALI TERRENO	1.08	0.71	3.96	7.08	0.99	2.43	0.70	0.54	0.22	0.33	0.36	1.14	0.61	0.76	4.60	7.69	0.15	0.10	0.31	4.68	6.54	1.72	4.62	1.59	1.16	4.35	7.77	3.29	0.52	
QUOTE TERRENO	38.19	38.19	38.10	37.47	37.01	36.90	36.97	36.41	36.43	36.78	37.11	37.45	37.74	37.86	37.97	38.15	38.30	38.89	39.24	38.47	38.20	38.08	37.81	37.22	37.10	36.73	36.70	36.65	36.59	36.43
PROGRESSIVE PROGETTO															13.40	10.86	10.00													
PARZIALI PROGETTO															2.54	0.86	5.82	1.98	0.52	1.68	0.70	0.00	1.80	5.21	1.07	3.12	11.20			
QUOTE PROGETTO															38.06	38.13	38.15				38.26	38.27	38.25	38.22	38.13	38.11	38.03			

SVINCOLO S2 RAMPE A e C

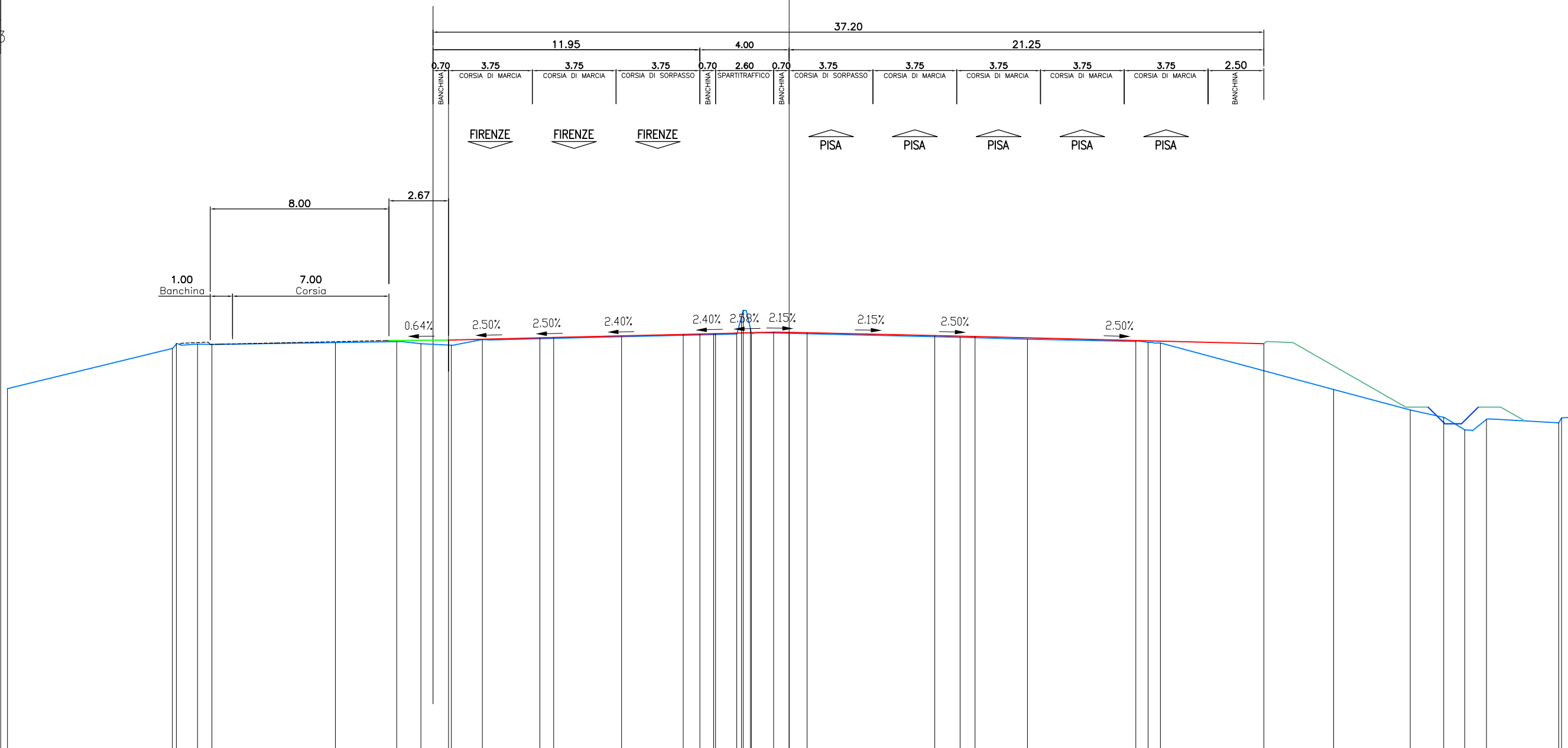


LEGENDA	
	SEZIONE SU ASSE PRINCIPALE (OVEST)
	SEZIONE SU ASSE SECONDARIO (RAMPA)

PROFILO PT-OVEST-2

SEZIONE S2C1_ver

PROGRESSIVA 5327.13

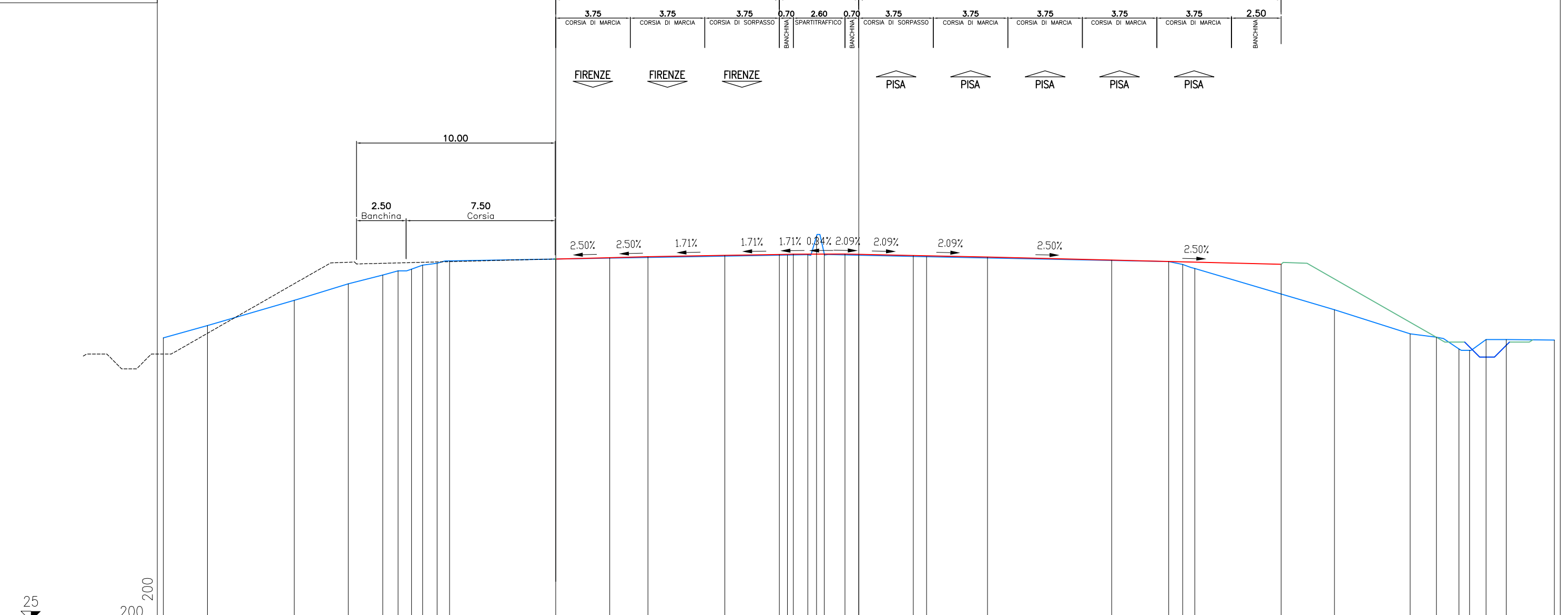


PROGRESSIVE TERRENO	35.00	27.61	27.44	26.49	25.84	20.32	17.57	16.49	15.12	13.74	7.50	2.35	2.14	2.06	1.74	1.69	7.65	10.67	15.52	16.07	16.62	24.37	27.81	29.30	30.24	31.22	34.45	34.58	35.00
PARZIALI TERRENO	7.39	0.17	0.95	0.65	5.52	2.75	1.08	1.37	1.38	6.24	5.15	0.21	0.08	0.32	0.05	9.34	3.02	4.85	0.55	0.55	7.75	3.44	1.49	0.94	0.98	3.23	0.13	0.42	
QUOTE TERRENO	40.09	41.90	42.12	42.09	42.08	42.15	42.20	42.11	42.04	42.29	42.42	42.54	43.30	43.60	42.79	42.57	42.40	42.31	42.21	42.17	42.14	40.06	39.14	38.82	38.25	38.72	38.57	38.79	38.77
PROGRESSIVE PROGETTO									15.25			4.75	3.38	3.30	0.70	0.00	0.80	6.51	8.32		21.25								
PARZIALI PROGETTO								4.09		5.79		0.75	0.62	0.08	0.60		5.71	1.81		12.93									
QUOTE PROGETTO									42.27			42.53	42.56	42.56	42.63	42.61	42.60	42.47	42.43		42.10								

PROFILO PT-OVEST-2

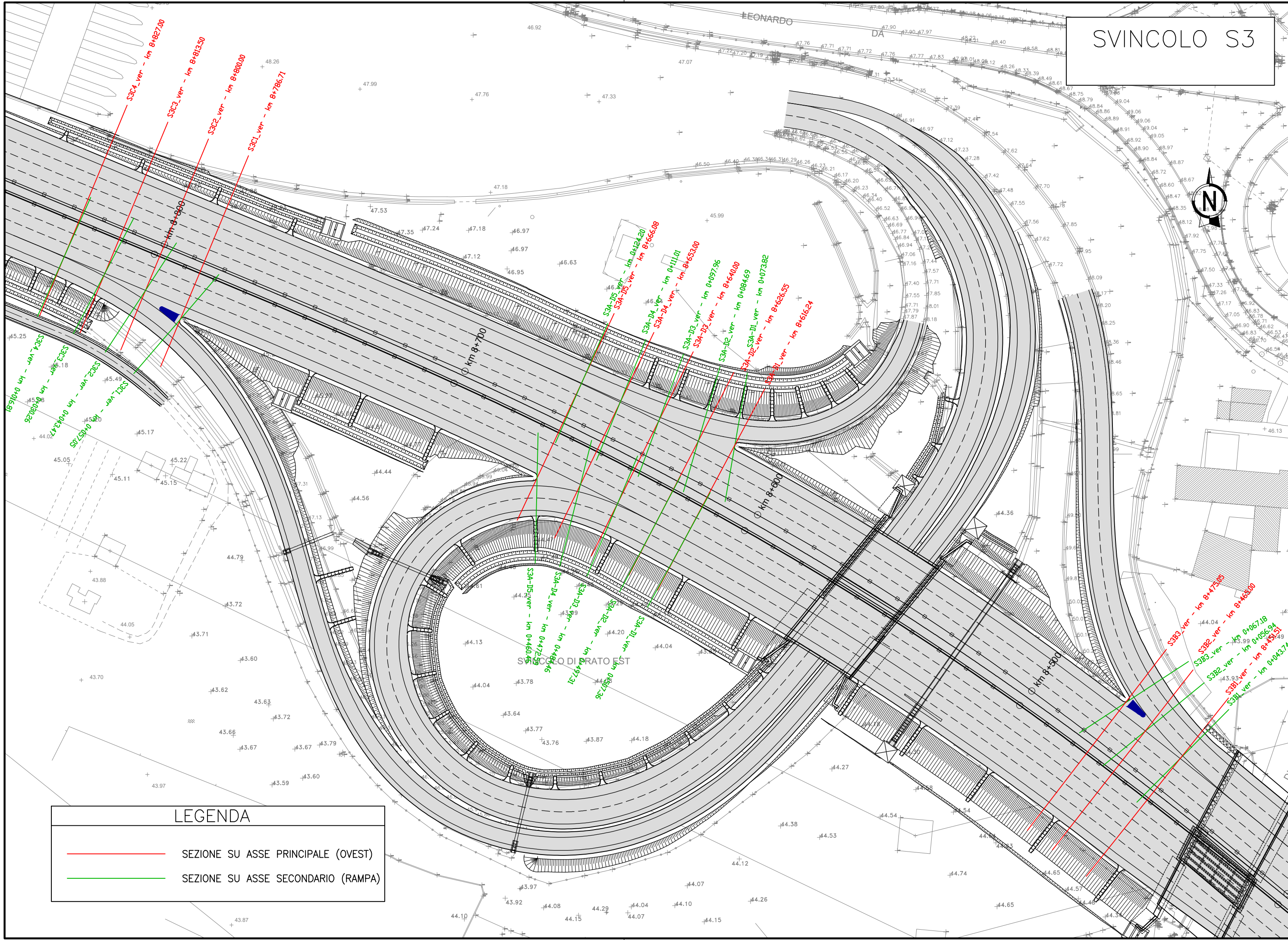
SEZIONE S2C4_ver

PROGRESSIVA 5397.83



PROGRESSIVE TERRENO	35.00	32.78	28.41	25.69	23.95	23.18	22.51	21.95	21.22	20.59	3.60	2.57	2.12	1.74	3.41	15.59	16.30	16.91	23.93	27.74	29.06	30.20	30.73	31.57	32.58	35.00
PARZIALI TERRENO	2.22	4.37	2.72	1.74	0.77	0.67	0.56	0.73	0.63	16.99	1.03	0.45	0.38	5.15	12.18	0.71	0.61	7.02	3.81	1.32	1.14	0.53	0.84	1.01	2.42	
QUOTE TERRENO	39.25	39.87	41.13	41.96	42.40	42.61	42.71	42.91	43.00	43.12	43.41	43.43	44.36	43.48	43.33	43.08	42.94	42.74	40.66	39.45	39.28	38.69	38.62	39.17	39.16	39.13
PROGRESSIVE PROGETTO											15.25	12.54	10.61	6.74	4.00	3.30	0.70	0.70	0.00	2.74	6.47	12.72	21.25			
PARZIALI PROGETTO											2.71	1.93	3.87	2.74	0.70	2.60	0.70	2.74	3.73	6.25	8.53					
QUOTE PROGETTO											43.21	43.28	43.33	43.39	43.44	43.45	43.46	43.45	43.39	43.31	43.16	42.94				

SVINCOLO S3



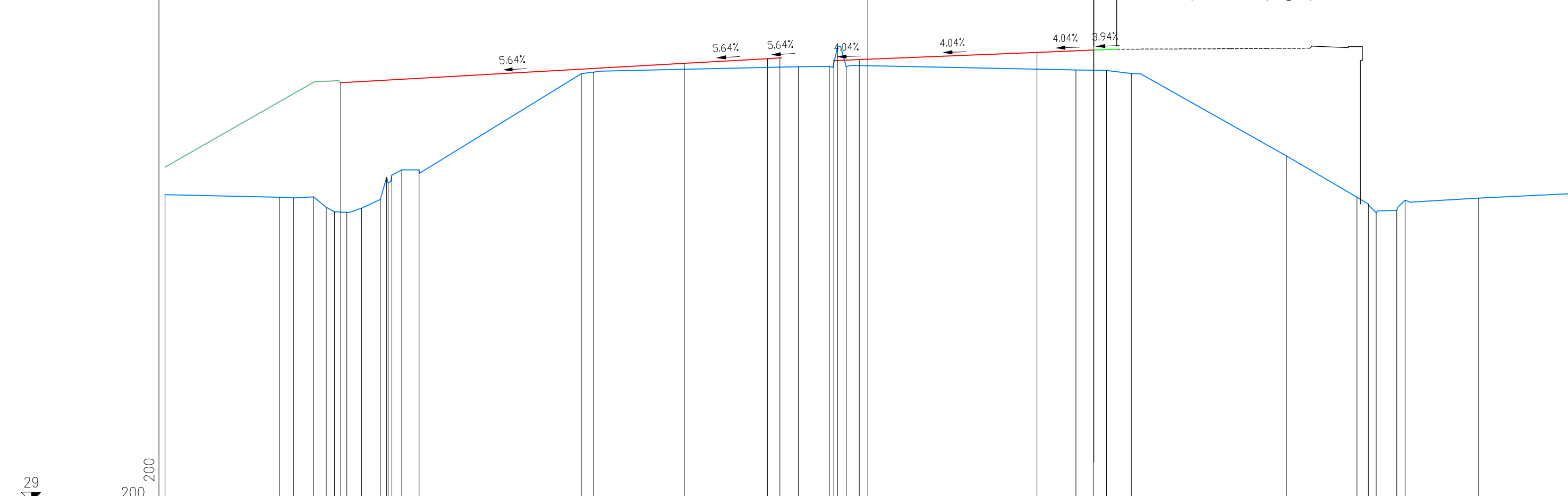
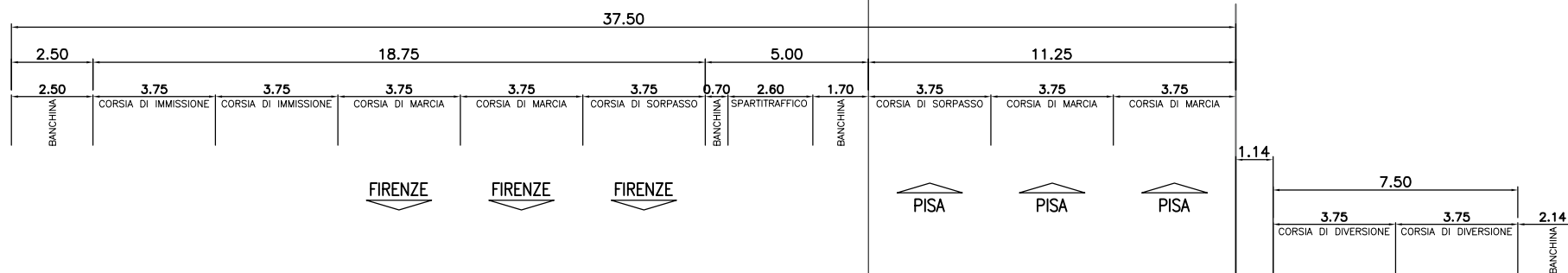
LEGENDA

- SEZIONE SU ASSE PRINCIPALE (OVEST)
- SEZIONE SU ASSE SECONDARIO (RAMPA)

PROFILO PT-OVEST-2

SEZIONE S3B1_ver

PROGRESSIVA 8451.5

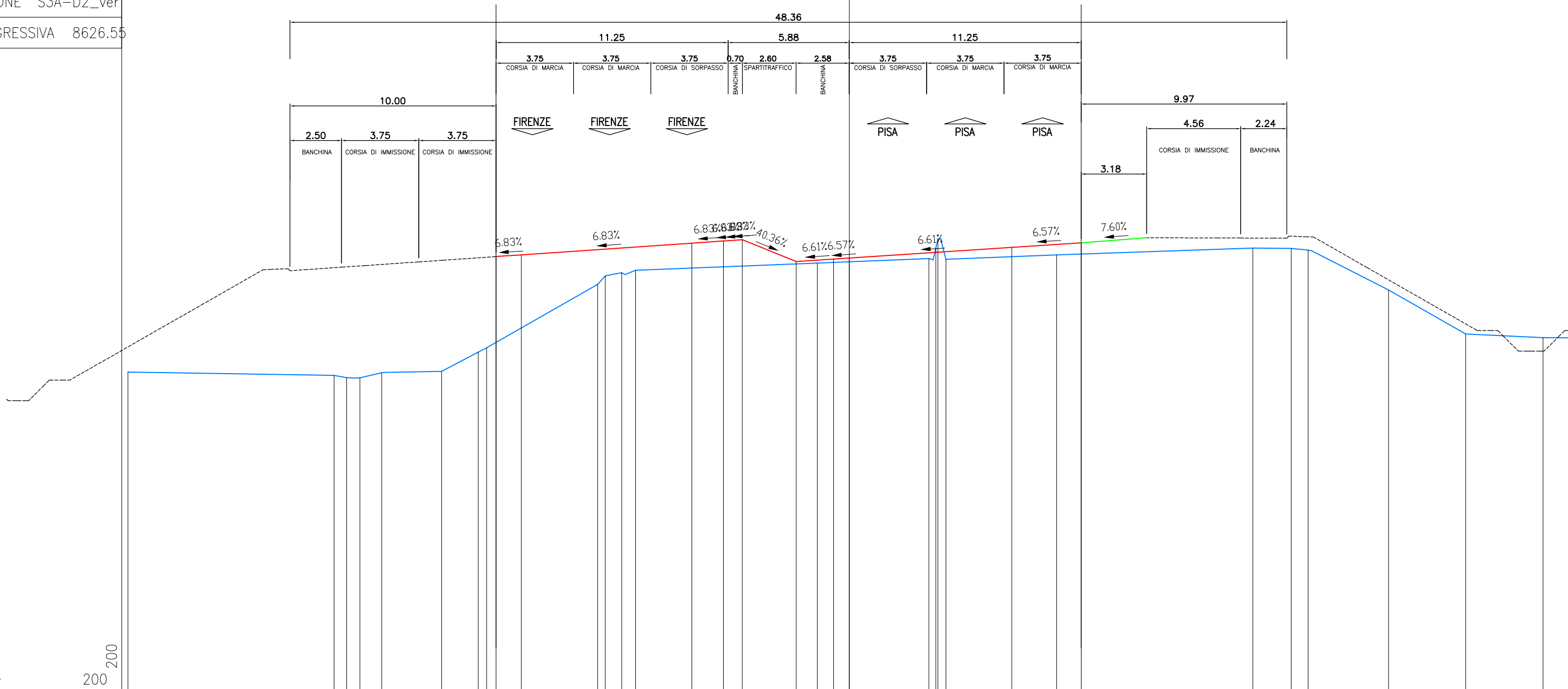


PROGRESSIVE TERRENO	35.00	29.30	28.60	27.60	26.97	26.56	25.94	25.20	24.27	23.96	23.88	23.70	23.21	22.35	14.27	13.66	3.46	1.92	1.51	1.08	10.36	11.88	13.12	20.85	24.36	24.93	25.31	26.34	26.76	30.42	35.00
PARZIALI TERRENO	5.70	0.70	1.00	0.63	0.41	0.62	0.74	0.93	0.31	0.08	0.18	0.49	0.86	8.08	0.61	10.20	1.54	0.41	0.43	11.44	1.52	1.24	7.73	3.51	0.57	0.38	1.03	0.42	3.66	4.58	
QUOTE TERRENO	44.30	44.18	44.15	44.19	43.68	43.46	43.43	43.64	44.06	45.17	44.89	45.28	45.54	50.33	50.41	50.67	50.69	51.65	50.68	50.51	50.49	50.33	46.24	44.18	43.84	43.42	43.51	44.03	44.13	44.35	
PROGRESSIVE PROGETTO		-26.25												-9.14		-5.00	4.38	-1.70	-0.43		8.42	11.25									
PARZIALI PROGETTO		17.11												4.14		0.62	0.08	1.27		8.85	2.83										
QUOTE PROGETTO		49.88												50.84		51.07	51.11	50.97	51.03		51.38	51.50									

PROFILO PT-OVEST-2

SEZIONE S3A-D2_ver

PROGRESSIVA 8626.55

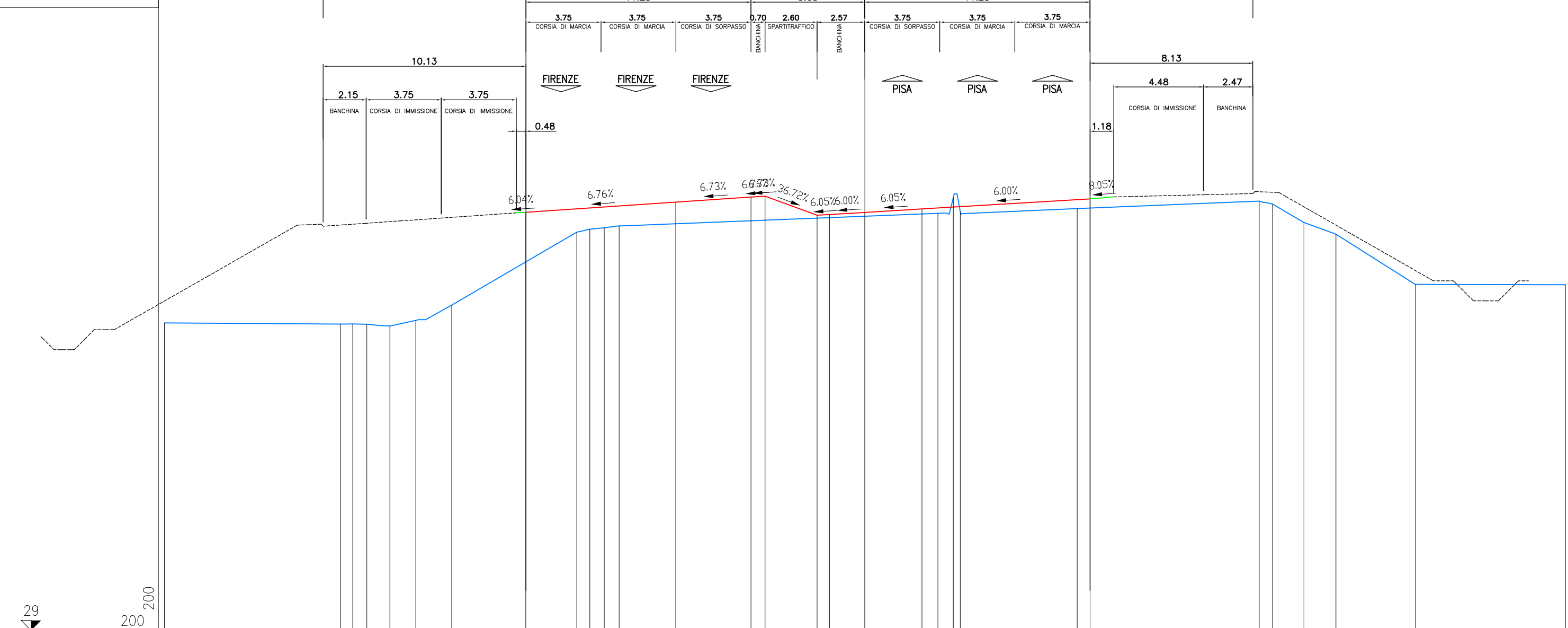


PROGRESSIVE TERRENO	35.00	25.00	24.39	23.74	22.69	19.78	18.00	17.59	12.21	11.84	11.04	10.37	1.55	3.86	4.20	4.30	4.69	10.06	19.57	21.44	22.26	26.16	29.90	33.66	35.00
PARZIALI TERRENO	10.00	0.61	0.65	1.05	2.91	1.78	0.41	5.38	0.37	0.80	0.67	8.82	5.41	0.34	0.10	0.39	5.37	9.51	1.87	0.82	3.90	3.74	3.76	1.34	
QUOTE TERRENO	44.39	44.23	44.12	44.11	44.36	44.42	45.36	45.56	48.64	49.06	49.20	49.32	49.68	49.89	50.41	50.85	49.84	50.07	50.40	50.38	50.30	48.37	46.23	46.06	46.05
PROGRESSIVE PROGETTO							17.14	15.91	7.64	6.10	5.20	2.57	0.76				7.88	11.25							
PARZIALI PROGETTO							1.23	8.27	1.54	0.90	0.03	2.63	1.81		7.88		3.37								
QUOTE PROGETTO							49.99	50.08	50.64	50.75	50.81	49.75	49.87	49.92			50.44	50.66							

PROFILO PT-OVEST-2

SEZIONE S3A-D3_ver

PROGRESSIVA 8640.00

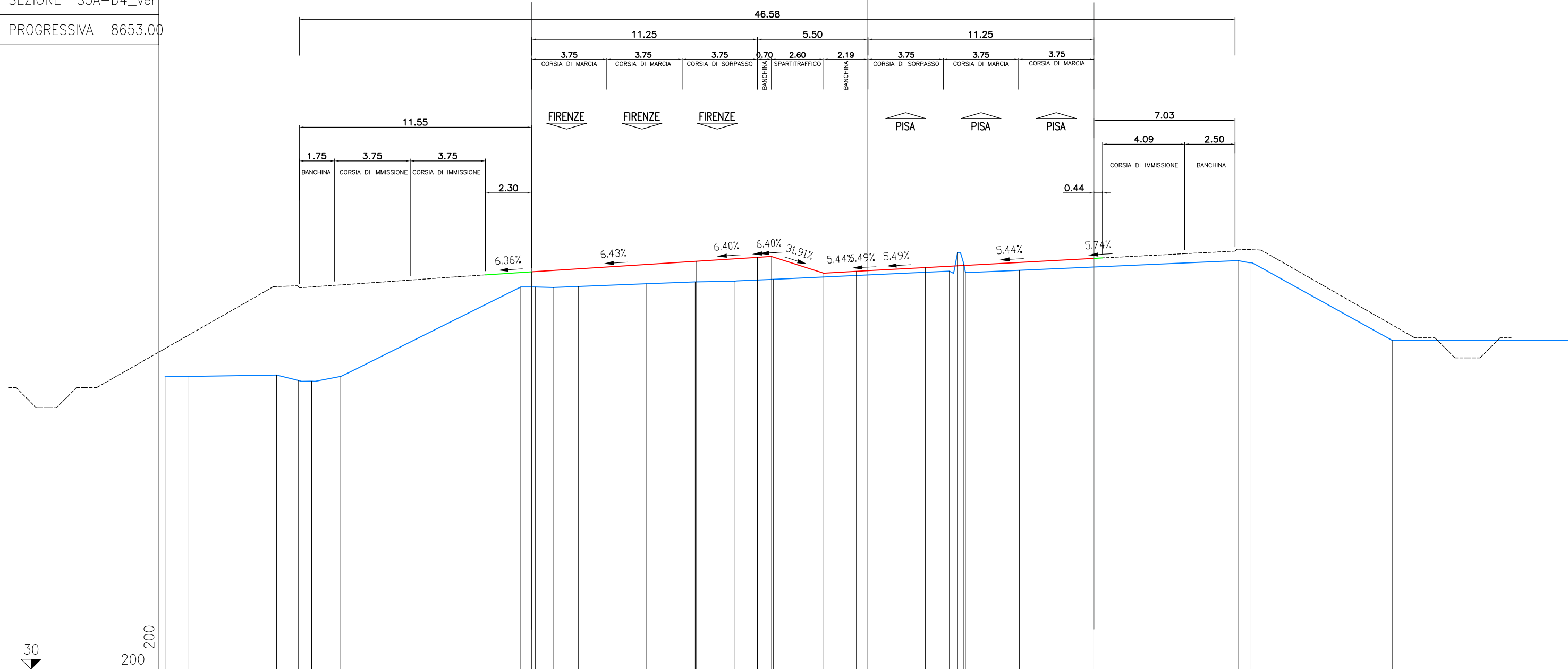


PROGRESSIVE TERRENO	35.00	26.21	25.59	24.88	23.73	22.44	20.64	14.40	13.75	13.02	12.28	3.65	4.42	4.77	10.61	19.70	20.38	21.94	23.53	27.50	35.00
PARZIALI TERRENO	8.79	0.62	0.71	1.15	1.29	1.80	6.24	0.65	0.73	0.74	15.93	0.77	0.35	5.84	9.09	0.68	1.56	1.59	3.97	7.50	
QUOTE TERRENO	44.36	44.29	44.30	44.29	44.20	44.48	45.24	48.89	49.03	49.11	49.20	49.83	50.62	49.90	50.06	50.44	50.29	49.37	48.79	46.28	46.26
PROGRESSIVE PROGETTO							16.94		9.45		5.69		2.39	1.78	0.00	2.85			11.25		
PARZIALI PROGETTO							7.49		3.76		0.70		2.60	0.61	1.78	2.85			8.40		
QUOTE PROGETTO							49.88		50.38		50.64		50.68	49.73	49.77	49.87	50.05		50.55		

PROFILO PT-OVEST-2

SEZIONE S3A-D4_ver

PROGRESSIVA 8653.00



PROGRESSIVE TERRENO	35.00	33.81		29.44	28.35	27.70	26.25		17.29	16.56	15.68	14.42		11.04	8.60	6.66	4.71		4.06	4.47	4.78	4.85	7.55		18.43	19.08		26.11		35.00
PARZIALI TERRENO	1.19	4.37	1.09	0.65	1.45		8.96	0.73	0.88	1.26	3.38	2.44	1.94	1.95		8.77	0.41	0.31	0.07	2.70		10.88		0.65	7.03		8.89			
QUOTE TERRENO	44.57	44.59	44.66	44.38	44.35	44.58		49.04	49.04	49.02	49.07		49.20	49.30	49.33	49.42		49.83	50.75	50.19	49.77	49.87		50.35	50.25		46.38		46.37	
PROGRESSIVE PROGETTO								16.75						8.55	5.50	4.80	2.20	0.57	2.86				11.25							
PARZIALI PROGETTO										8.20				3.05	0.70	2.60	1.63		3.43			8.39								
QUOTE PROGETTO								49.79						50.32	50.51	50.56	49.73	49.82	50.01			50.46								

