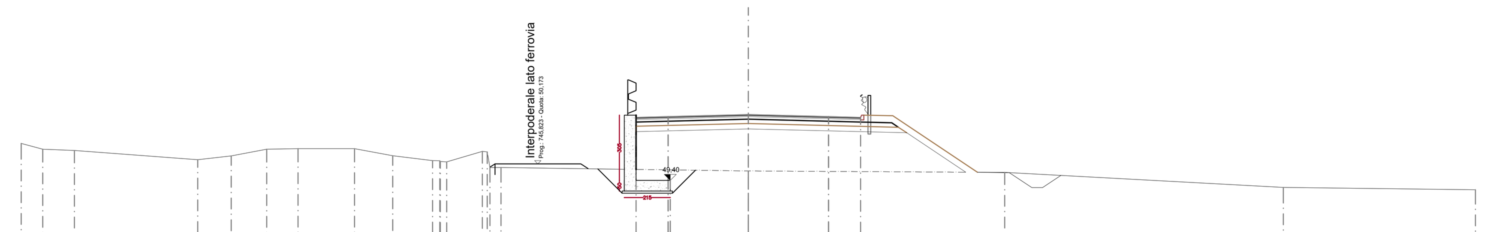
SEZIONE N.: 121
QT. PROGETTO: 52,479
DIST.PROG.: 2775,000
DIST.PREC.: 25,000
DIST.SUCC.: 25,000

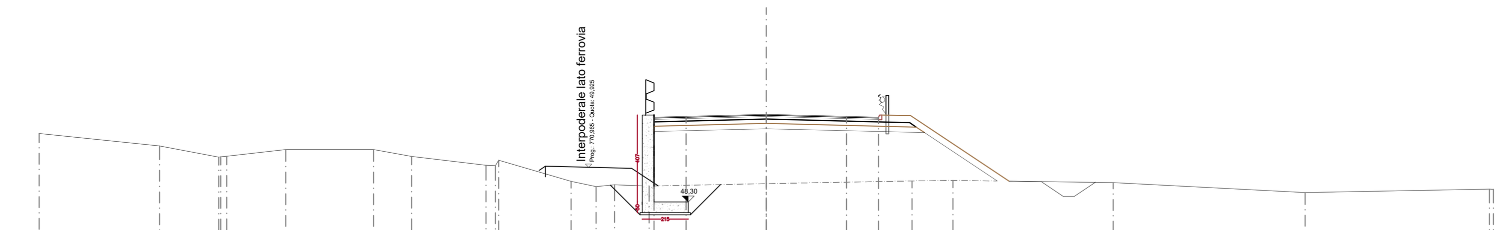


SCALA 1:200

QT.RIF. 40,000

QUOTE TERRENO	51,131 50,859 50,795 50,364 50,548 50,858 50,880 50,879 50,551 50,326 50,314 50,279 50,263 50,755 50,733 50,000 50,000 49,840 49,773 49,074 48,961
DIST. PARZIALI TERRENO	1,003 1,483 5,766 1,567 1,655 1,467 2,640 1,788 1,863 1,667 0,511 11,569 11,985 13,032 8,983
DIST. PROGR. TERRENO	-34,000 -32,997 -31,514 -25,748 -24,181 -22,526 -21,059 -18,419 -16,631 -14,768 -14,431 -14,404 -14,108 -12,441 -12,208 -12,081 -11,569 0,000 11,985 25,017 34,000
QUOTE STRATO SUP.	52,386 52,479 52,386 52,348 52,448 52,421 49,780 49,761 49,632
DIST. PARZIALI STRATO SUP.	3,750 3,750 1,500 1,350 3,960 1,500 2,398
DIST. PROGR. STRATO SUP.	-3,750 0,000 3,750 5,250 5,400 6,750 10,710 12,210 14,607

SEZIONE N.: 122
QT. PROGETTO: 52,403
DIST.PROG.: 2800,000
DIST.PREC.: 25,000
DIST.SUCC.: 25,000

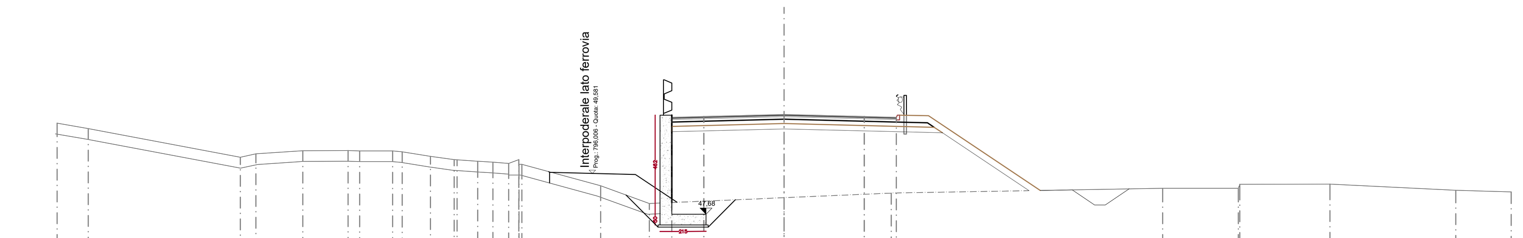


SCALA 1:200

QT.RIF. 40,000

QUOTE TERRENO	51,506 50,921 50,401 50,421 50,439 50,760 50,756 50,437 50,016 50,000 50,256 49,270 49,020 49,107 49,045 49,157 49,285 49,309 49,210 48,738 48,900 48,896
DIST. PARZIALI TERRENO	5,633 2,769 2,766 4,101 1,779 3,478 3,390 1,168 0,862 1,616 5,477 6,813 1,918 7,493 8,977 8,618
DIST. PROGR. TERRENO	-34,000 -28,367 -25,597 -25,506 -25,232 -22,466 -18,365 -16,586 -13,108 -12,661 -12,513 -9,124 -7,956 -7,094 -5,477 0,000 6,813 8,731 16,224 25,201 33,819 34,000
QUOTE STRATO SUP.	52,309 52,403 52,309 52,272 52,372 52,345 49,274 49,254 49,221
DIST. PARZIALI STRATO SUP.	3,750 3,750 1,500 1,350 4,604 1,500 2,539
DIST. PROGR. STRATO SUP.	-3,750 0,000 3,750 5,250 5,400 6,750 11,354 12,854 15,393

SEZIONE N.: 123
QT. PROGETTO: 52,327
DIST.PROG.: 2825,000
DIST.PREC.: 25,000
DIST.SUCC.: 25,000

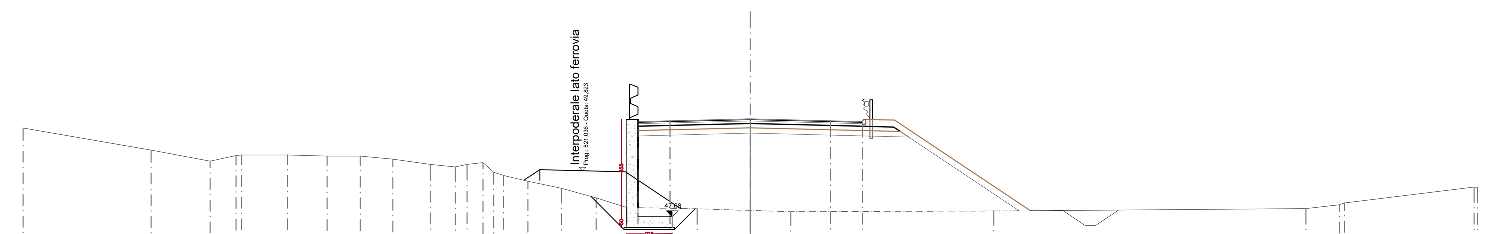


SCALA 1:200

QT.RIF. 40,000

QUOTE TERRENO	51,921 51,671 50,336 50,494 50,641 50,647 50,631 50,631 50,590 50,375 50,220 50,212 50,142 50,108 50,048 50,218 50,000 49,000 48,175 48,445 48,661 48,885 48,886 49,071 49,081 48,792 48,720
DIST. PARZIALI TERRENO	1,456 7,116 0,730 2,193 2,112 0,540 1,548 1,322 1,112 0,964 0,709 0,735 3,680 2,281 6,301 5,007 12,692 3,541 4,219 5,884 2,595
DIST. PROGR. TERRENO	-34,000 -32,544 -25,427 -24,697 -22,504 -20,392 -19,853 -18,305 -17,863 -16,541 -15,428 -15,290 -14,325 -13,616 -12,881 -12,407 -12,400 -12,262 -8,582 -6,301 0,000 5,007 17,698 21,239 21,302 25,521 31,405 34,000
QUOTE STRATO SUP.	52,233 52,327 52,233 52,196 52,296 52,269 48,784 48,810 48,857
DIST. PARZIALI STRATO SUP.	3,750 3,750 1,500 1,350 5,224 1,500 2,660
DIST. PROGR. STRATO SUP.	-3,750 0,000 3,750 5,250 5,400 6,750 11,974 13,474 16,134

SEZIONE N.: 124
QT. PROGETTO: 52,250
DIST.PROG.: 2850,000
DIST.PREC.: 25,000
DIST.SUCC.: 25,000

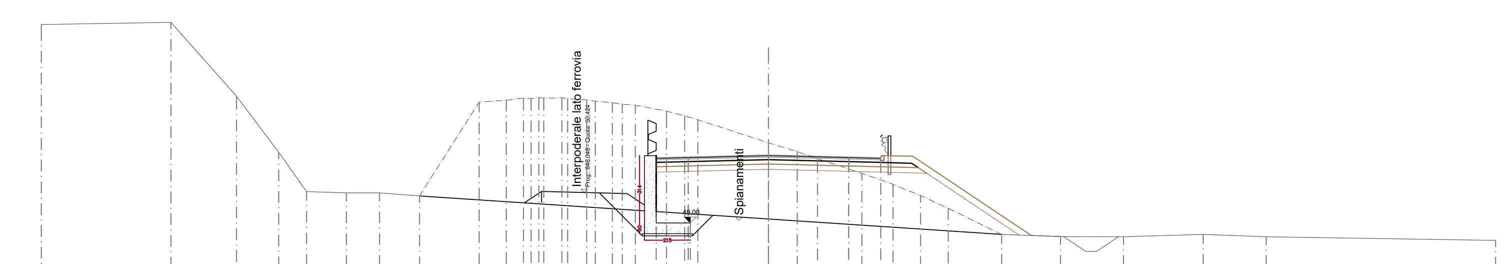


SCALA 1:200

QT.RIF. 40,000

QUOTE TERRENO	51,815 50,789 50,270 50,533 50,558 50,558 50,504 50,504 50,365 50,115 50,000 50,119 50,198 49,749 49,603 49,331 49,000 48,553 48,100 48,041 47,964 47,905 47,938 48,050 48,226 48,315 49,062 49,046
DIST. PARZIALI TERRENO	5,981 2,762 1,211 2,144 1,857 1,548 1,521 1,752 1,167 0,551 0,743 0,501 1,138 1,581 1,610 1,436 3,295 2,480 1,896 9,487 14,596 1,569 6,067
DIST. PROGR. TERRENO	-34,000 -28,019 -25,257 -24,046 -23,785 -21,641 -19,783 -18,236 -16,715 -14,962 -13,796 -13,245 -12,502 -12,001 -11,539 -10,401 -8,821 -7,211 -5,775 -2,480 0,000 1,896 11,383 25,979 27,549 27,784 33,851 34,000
QUOTE STRATO SUP.	52,157 52,250 52,157 52,119 52,219 52,192 47,951 47,963 47,983
DIST. PARZIALI STRATO SUP.	3,750 3,750 1,500 1,350 6,358 1,500 2,620
DIST. PROGR. STRATO SUP.	-3,750 0,000 3,750 5,250 5,400 6,750 13,108 14,608 17,227

SEZIONE N.: 125
QT. PROGETTO: 52,174
DIST.PROG.: 2875,000
DIST.PREC.: 25,000
DIST.SUCC.: 25,000

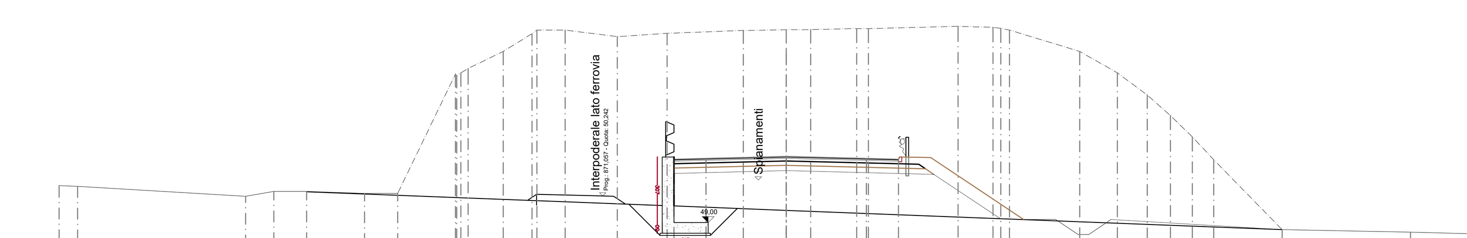


SCALA 1:200

QT.RIF. 40,000

QUOTE TERRENO	58,263 58,359 54,920 52,300 50,465 50,401 50,401 50,259 54,638 54,731 54,824 54,806 54,856 54,822 54,840 54,793 54,745 54,680 54,612 54,541 54,496 54,216 54,000 53,814 52,744 52,327 52,000 51,319 50,800 50,278 49,685 48,463 48,368 48,360 48,463 48,352 48,187
DIST. PARZIALI TERRENO	6,063 3,069 1,973 1,304 1,862 1,548 1,865 2,789 1,272 0,803 0,851 0,892 0,791 0,612 1,456 0,847 0,620 3,296 1,349 0,944 2,076 1,462 1,285 1,293 2,497 2,756 2,941 3,731 2,943 10,723
DIST. PROGR. TERRENO	-34,000 -27,937 -24,869 -22,896 -21,592 -19,729 -18,182 -16,316 -13,527 -12,256 -11,453 -11,100 -10,731 -10,506 -9,655 -9,387 -8,495 -8,088 -7,296 -6,832 -6,220 -4,764 -3,916 -3,296 0,000 1,349 2,293 4,369 5,831 7,116 8,410 10,906 13,662 16,603 20,334 23,277 34,000
QUOTE STRATO SUP.	52,080 52,043 52,143 52,116 48,415 48,368 48,360
DIST. PARZIALI STRATO SUP.	1,500 1,350 5,548 1,500 2,579
DIST. PROGR. STRATO SUP.	3,750 5,250 5,400 6,750 12,298 13,798 16,377

SEZIONE N.: 126
QT. PROGETTO: 52,098
DIST.PROG.: 2900,000
DIST.PREC.: 25,000
DIST.SUCC.: 25,000

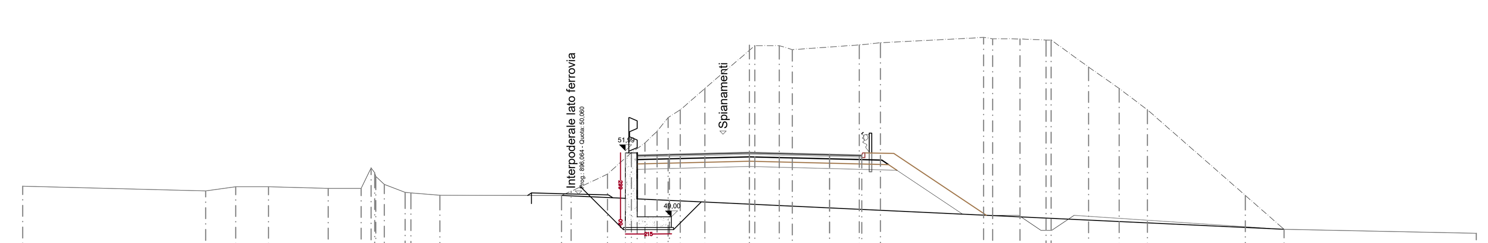


SCALA 1:200

QT.RIF. 40,000

QUOTE TERRENO	50,725 50,693 50,229 50,455 50,455 50,364 50,364 55,939 55,858 56,000 56,206 57,000 57,827 58,000 58,000 57,691 57,846 57,981 58,012 58,020 58,069 58,066 58,172 58,126 58,083 58,000 57,000 56,000 54,958 54,000 53,000 51,937 48,670 48,549 48,420
DIST. PARZIALI TERRENO	0,857 7,862 1,316 1,536 2,711 1,548 2,698 1,637 1,344 1,320 2,443 2,330 3,564 2,008 1,141 2,146 0,553 4,192 1,637 3,283 1,762 1,399 1,086 1,025 0,994 3,200 6,000 4,815
DIST. PROGR. TERRENO	-34,000 -33,143 -25,281 -23,965 -22,429 -19,718 -18,171 -15,473 -15,414 -15,217 -14,874 -13,237 -11,894 -11,665 -10,344 -7,901 -5,571 -2,008 0,000 1,141 3,287 3,840 8,032 9,669 10,026 10,436 13,719 15,481 16,880 17,966 18,991 19,985 23,185 29,185 34,000
QUOTE STRATO SUP.	
DIST. PARZIALI STRATO SUP.	
DIST. PROGR. STRATO SUP.	

SEZIONE N.: 127
QT. PROGETTO: 52,021
DIST.PROG.: 2925,000
DIST.PREC.: 25,000
DIST.SUCC.: 25,000

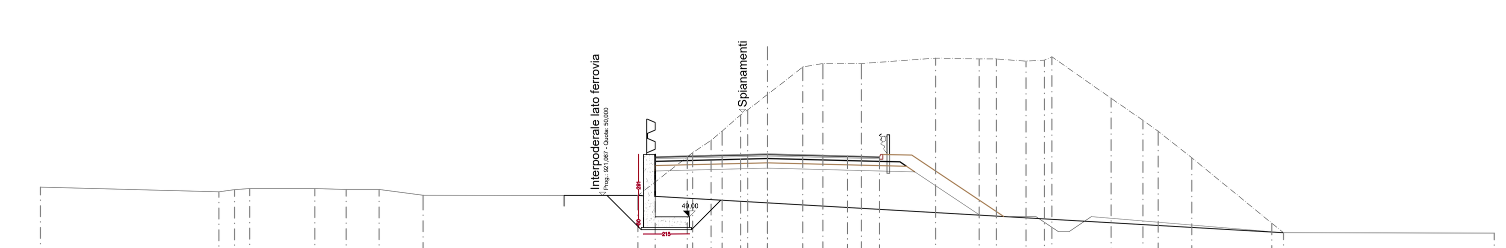


SCALA 1:200

QT.RIF. 40,000

QUOTE TERRENO	50,434 50,207 50,408 50,408 50,327 50,327 51,283 51,059 50,883 50,512 50,146 50,113 50,009 50,000 50,190 51,000 52,000 52,449 53,000 53,641 54,000 55,000 56,788 57,000 57,000 56,814 57,034 57,136 57,385 57,324 57,314 57,264 57,266 56,000 55,000 54,000 50,000 48,416 48,232
DIST. PARZIALI TERRENO	8,559 1,409 1,536 2,788 1,548 0,979 1,350 5,692 1,709 1,113 0,636 0,567 0,518 0,566 1,153 2,085 1,148 0,610 3,132 0,993 4,821 1,282 1,218 1,747 1,431 1,326 4,576 1,810 8,998
DIST. PROGR. TERRENO	-34,000 -25,441 -24,031 -22,496 -19,708 -18,160 -17,698 -17,526 -17,475 -17,083 -16,104 -15,834 -14,483 -8,791 -8,346 -6,638 -5,525 -4,889 -4,322 -3,804 -3,238 -2,085 0,000 0,247 1,395 2,005 5,137 6,129 10,950 11,374 12,656 13,874 14,113 15,860 17,291 18,616 23,192 25,002 34,000
QUOTE STRATO SUP.	
DIST. PARZIALI STRATO SUP.	
DIST. PROGR. STRATO SUP.	

SEZIONE N.: 128
QT. PROGETTO: 51,945
DIST.PROG.: 2950,000
DIST.PREC.: 25,000
DIST.SUCC.: 25,000



SCALA 1:200

QT.RIF. 40,000

QUOTE TERRENO	50,388 50,168 50,267 50,322 50,317 50,277 50,274 50,009 50,000 52,000 52,574 53,000 53,768 54,000 54,712 56,000 56,162 56,163 56,417 56,380 56,379 56,276 56,323 56,479 54,546 53,510 53,000 51,758 48,698 48,252 48,236
DIST. PARZIALI TERRENO	8,346 0,727 0,715 3,046 1,461 1,541 2,061 10,048 2,566 0,854 0,517 0,872 0,916 1,657 0,940 1,796 3,483 2,025 0,808 1,388 0,866 2,764 1,492 0,710 1,578 3,740 0,549 9,860
DIST. PROGR. TERRENO	-34,000 -25,654 -24,927 -24,212 -21,166 -19,705 -18,164 -16,103 -6,055 -3,489 -2,635 -2,118 -1,246 -0,916 0,000 1,657 2,597 4,392 7,875 9,900 10,708 12,096 12,962 13,308 16,071 17,563 18,273 19,851 23,591 24,140 34,000
QUOTE STRATO SUP.	51,851
DIST. PARZIALI STRATO SUP.	
DIST. PROGR. STRATO SUP.	-3,750

anas
GRUPPO FS ITALIANE

Direzione Progettazione e Realizzazione Lavori

Variante alla SS12 da Buttapietra
alla tangenziale SUD di Verona

PROGETTO DEFINITIVO

COD. VE29

PROGETTAZIONE: RAGGRUPPAMENTO PROGETTISTI — MANDATARIA: Sigeco Engineering — MANDANTI: IDRO.STRADE s.r.l., Barci Engineering, SANDRO D'AGOSTINI INGEGNERE

IL RESPONSABILE DELL'INTEGRAZIONE DELLE PRESTAZIONI SPECIALISTICHE:
Ing. Antonino Alvaro – SIGECO ENGINEERING srl
Ordine Ingegneri Provincia di Cosenza n. A282

IL COORDINATORE PER LA SICUREZZA IN FASE DI PROGETTAZIONE:
Arch. Giuseppe Luciano – SIGECO ENGINEERING srl
Ordine Architetti Provincia di Reggio Calabria n. A2316

I GEOLOGI:
Dott. Geol. Domenico Carrà – SIGECO Eng. srl Ordine Geologi della Calabria n. 641
Dott. Geol. Francesco Molinaro – SIGECO Eng. srl Ordine Geologi della Calabria n. 1063

VISTO: IL RESPONSABILE DEL PROCEDIMENTO:
Ing. Antonio Marsella

PROTOCOLLO: DATA:

IL PROGETTISTA:
Arch. Giuseppe Luciano–SIGECO Eng. srl Ordine Architetti di Reggio Cal. n. A2316
Ing. Francesco Tucci – IDROSTRADE srl Ordine Ingegneri Cosenza n. A922
Ing. Carmine Guido – NO.DO. e Serv. srl Ordine Ingegneri Cosenza n. A1379
Ing. Sandro D'Agostini – Ordine Ingegneri Belluno n. A457
Ing. Antonio Barci – BARCI Eng. srl Ordine Ingegneri Cosenza n. A1003

GRUPPO DI PROGETTAZIONE:
Ing. Giovanni Costa – Steel Project Engineering – Ordine Ingegneri Livorno n. A1632
Arch. Alessandra Alvaro – SIGECO Eng. srl Ordine Architetti Cosenza n. A1490
Ing. Gaetano Zupo – SIGECO Eng. srl Ordine Ingegneri Cosenza n. A5385
Geom. Giuseppe Crispino – SIGECO Eng. srl Collegio Geometri Potenza n. 2296
Ing. Paola Tucci – IDROSTRADE srl Ordine Ingegneri Cosenza n. A5488
Ing. Mario Perri – IDROSTRADE srl Ordine Ingegneri Cosenza n. A3784
Arch. Simona Tucci – IDROSTRADE srl Ordine Ingegneri Cosenza n. A1637
Ing. Roberto Scrivano – NO.DO. e Serv. srl Ordine Ingegneri Cosenza n. A2061
Ing. Emiliano Domestico – NO.DO. e Serv. srl Ordine Ingegneri Cosenza n. A5501
Geol. Carolina Simone – NO.DO. e Serv. srl Ordine Geologi della Calabria n. 730
Ing. Giorgio Barci – BARCI Eng. srl Ordine Ingegneri Prov. di Cosenza n. A5873
Dott.ssa Laura Casadei – Kora s.r.l.–Iscr. el. Operatori abilitati Archeologia Prev. n. 2248

S.09 Muro di sostegno MS09
SEZIONI TRASVERSALI E SEZIONI TIPO_PARTE 4 DI 6

CODICE PROGETTO	NOME FILE	REV.	SCALA:
CO VE0029 D 2001	T00MS09STRSZ04_A / CODICE ELAB. T00MS09STRSZ04	A	VARIE

REV.	DESCRIZIONE	DATA	SOCIETA'	REDATTO	VERIFICATO	APPROVATO
D						
C						
B						
A	EMISSIONE	DIC 2021	Sigeco Engineering Srl	Ing. G. Zupo	Arch. G. Luciano	Ing. A. Alvaro