

COMMITTENTE:



ALTA SORVEGLIANZA:



GENERAL CONTRACTOR:



INFRASTRUTTURE FERROVIARIE STRATEGICHE DEFINITE DALLA  
LEGGE OBIETTIVO N. 443/01

LINEA A.V. /A.C. TORINO-VENEZIA Tratta VERONA-PADOVA  
Lotto funzionale Verona-Bivio Vicenza

PROGETTO ESECUTIVO

RILEVATI

RILEVATO FERROVIARIO DAL KM 0+174,45 AL KM 0+475,00

GENERALE

Tabulati movimenti terra

	GENERAL CONTRACTOR		DIRETTORE LAVORI		SCALA :
	IL PROGETTISTA INTEGRATORE ing. Giovanni MALAVENDA iscritto all'ordine degli ingegneri di Verona n. 4289 Data: 28/03/21	Consorzio Iricav Due Data:	ing. Luca ZACCARIA iscritto all'ordine degli ingegneri di Ravenna n. A1206 Data:		

COMMESSA	LOTTO	FASE	ENTE	TIPO DOC.	OPERA/DISCIPLINA	PROGR.	REV.	FOGLIO
IN17	11	E	I2	TT	R10200	001	A	DI

	VISTO CONSORZIO IRICAV DUE	
	Firma	Data
	ing. Luca RANDOLFI	

Progettazione :

Rev.	Descrizione	Redatto	Data	Verificato	Data	Approvato	Data
A	EMISSIONE	Roncà	31/03/21	Guilarte	31/03/21	Aiello	31/03/21
B							
C							



CIG. 8377957CD1	CUP: J41E91000000009	File: IN1711E12TTR10200001A.DWG
Progetto cofinanziato dalla Unione Europea		Cod. origine: CODICE

ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 1 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

SCOTICO TRINCEA

Sezione	Distanza progressiva	Sviluppo	Sviluppo Media	Distanza parziale	Area	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Area	
										Parziale	Totale
RI02-1	0+186.060	10.71 m				1012.021	-5.331	1.0052677			
Sx			10.77 m	13.940	150.18 m <sup>2</sup>				1.0058376	151.06 m <sup>2</sup>	151.06 m <sup>2</sup>
RI02-2	0+200.000	10.84 m				847.151	-5.428	1.0064074			
RI02-1	0+186.060	9.33 m				1012.021	4.643	0.9954122			
Dx			12.18 m	13.940	169.73 m <sup>2</sup>				0.9932671	168.59 m <sup>2</sup>	319.65 m <sup>2</sup>
RI02-2	0+200.000	15.02 m				847.151	7.521	0.9911220			
RI02-2	0+200.000	10.84 m				847.151	-5.428	1.0064074			
Sx			10.94 m	24.431	267.23 m <sup>2</sup>				1.0073911	269.21 m <sup>2</sup>	588.86 m <sup>2</sup>
RI02-3	0+224.431	11.04 m				659.000	-5.519	1.0083748			
RI02-2	0+200.000	15.02 m				847.151	7.521	0.9911220			
Dx			15.09 m	24.431	368.72 m <sup>2</sup>				0.9898099	364.96 m <sup>2</sup>	953.82 m <sup>2</sup>
RI02-3	0+224.431	15.16 m				659.000	7.580	0.9884977			
RI02-3	0+224.431	11.04 m				659.000	-5.519	1.0083748			
Sx			11.10 m	25.569	283.83 m <sup>2</sup>				1.0084234	286.22 m <sup>2</sup>	1240.04 m <sup>2</sup>
RI02-4	0+250.000	11.16 m				659.000	-5.583	1.0084719			
RI02-3	0+224.431	15.16 m				659.000	7.580	0.9884977			
Dx			15.20 m	25.569	388.75 m <sup>2</sup>				0.9884484	384.26 m <sup>2</sup>	1624.30 m <sup>2</sup>
RI02-4	0+250.000	15.25 m				659.000	7.645	0.9883991			
RI02-4	0+250.000	11.16 m				659.000	-5.583	1.0084719			
Sx			11.08 m	25.000	276.90 m <sup>2</sup>				1.0084006	279.23 m <sup>2</sup>	1903.53 m <sup>2</sup>
RI02-5	0+275.000	10.99 m				659.000	-5.489	1.0083293			
RI02-4	0+250.000	15.25 m				659.000	7.645	0.9883991			
Dx			15.31 m	25.000	382.87 m <sup>2</sup>				0.9883407	378.41 m <sup>2</sup>	2281.94 m <sup>2</sup>
RI02-5	0+275.000	15.38 m				659.000	7.722	0.9882822			
RI02-5	0+275.000	10.99 m				659.000	-5.489	1.0083293			
Sx			10.38 m	25.000	259.52 m <sup>2</sup>				1.0078619	261.56 m <sup>2</sup>	2543.50 m <sup>2</sup>
RI02-6	0+300.000	9.77 m				659.000	-4.873	1.0073945			
RI02-5	0+275.000	15.38 m				659.000	7.722	0.9882822			
Dx			15.54 m	25.000	388.46 m <sup>2</sup>				0.9881829	383.87 m <sup>2</sup>	2927.37 m <sup>2</sup>
RI02-6	0+300.000	15.69 m				659.000	7.853	0.9880835			
RI02-6	0+300.000	9.77 m				659.000	-4.873	1.0073945			
Sx			9.42 m	25.000	235.50 m <sup>2</sup>				1.0071320	237.18 m <sup>2</sup>	3164.55 m <sup>2</sup>
RI02-7	0+325.000	9.07 m				659.000	-4.527	1.0068695			

ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 2 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

SCOTICO TRINCEA

Sezione	Distanza progressiva	Sviluppo	Sviluppo Media	Distanza parziale	Area	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Area	
										Parziale	Totale
RI02-6	0+300.000	15.69 m	15.71 m	25.000	392.75 m <sup>2</sup>	659.000	7.853	0.9880835	0.9880888	388.07 m <sup>2</sup>	3552.62 m <sup>2</sup>
Dx	0+325.000	15.73 m				659.000	7.846	0.9880941			
RI02-7	0+325.000	9.07 m	8.92 m	13.217	117.89 m <sup>2</sup>	659.000	-4.527	1.0068695	1.0067671	118.69 m <sup>2</sup>	3671.31 m <sup>2</sup>
Sx	0+338.217	8.77 m				659.000	-4.392	1.0066646			
RI02-7	0+325.000	15.73 m	15.72 m	13.217	207.76 m <sup>2</sup>	659.000	7.846	0.9880941	0.9880888	205.29 m <sup>2</sup>	3876.60 m <sup>2</sup>
Dx	0+338.217	15.71 m				659.000	7.853	0.9880835			
RI02-8	0+338.217	8.77 m	8.67 m	11.783	102.15 m <sup>2</sup>	659.000	-4.392	1.0066646	1.0065850	102.82 m <sup>2</sup>	3979.42 m <sup>2</sup>
Sx	0+350.000	8.57 m				659.000	-4.287	1.0065053			
RI02-8	0+338.217	15.71 m	15.72 m	11.783	185.22 m <sup>2</sup>	659.000	7.853	0.9880835	0.9880736	183.01 m <sup>2</sup>	4162.43 m <sup>2</sup>
Dx	0+350.000	15.73 m				659.000	7.866	0.9880637			
RI02-9	0+350.000	8.57 m	8.63 m	25.000	215.64 m <sup>2</sup>	659.000	-4.287	1.0065053	1.0065493	217.05 m <sup>2</sup>	4379.48 m <sup>2</sup>
Sx	0+375.000	8.68 m				659.000	-4.345	1.0065933			
RI02-9	0+350.000	15.73 m	15.78 m	25.000	394.54 m <sup>2</sup>	659.000	7.866	0.9880637	0.9880250	389.82 m <sup>2</sup>	4769.30 m <sup>2</sup>
Dx	0+375.000	15.84 m				659.000	7.917	0.9879863			
RI02-10	0+375.000	8.68 m	8.99 m	25.000	224.81 m <sup>2</sup>	659.000	-4.345	1.0065933	1.0068172	226.34 m <sup>2</sup>	4995.64 m <sup>2</sup>
Sx	0+400.000	9.30 m				659.000	-4.640	1.0070410			
RI02-10	0+375.000	15.84 m	15.81 m	25.000	395.31 m <sup>2</sup>	659.000	7.917	0.9879863	0.9880083	390.57 m <sup>2</sup>	5386.21 m <sup>2</sup>
Dx	0+400.000	15.79 m				659.000	7.888	0.9880303			
RI02-11	0+400.000	9.30 m	8.93 m	25.000	223.37 m <sup>2</sup>	659.000	-4.640	1.0070410	1.0067755	224.88 m <sup>2</sup>	5611.09 m <sup>2</sup>
Sx	0+425.000	8.57 m				659.000	-4.290	1.0065099			
RI02-11	0+400.000	15.79 m	15.82 m	25.000	395.56 m <sup>2</sup>	659.000	7.888	0.9880303	0.9880083	390.82 m <sup>2</sup>	6001.91 m <sup>2</sup>
Dx	0+425.000	15.86 m				659.000	7.917	0.9879863			

ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 3 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

SCOTICO TRINCEA

Sezione	Distanza progressiva	Sviluppo	Sviluppo Media	Distanza parziale	Area	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Area	
										Parziale	Totale
RI02-12 Sx	0+425.000	8.57 m	7.98 m	27.002	215.53 m <sup>2</sup>	659.000	-4.290	1.0065099	1.0060577	216.84 m <sup>2</sup>	6218.75 m <sup>2</sup>
RI02-13	0+452.002	7.39 m				659.000	-3.694	1.0056055			
RI02-12 Dx	0+425.000	15.86 m	15.90 m	27.002	429.25 m <sup>2</sup>	659.000	7.917	0.9879863	0.9879559	424.08 m <sup>2</sup>	6642.83 m <sup>2</sup>
RI02-13	0+452.002	15.94 m				659.000	7.957	0.9879256			
RI02-13 Sx	0+452.002	7.39 m	7.06 m	22.998	162.45 m <sup>2</sup>	659.000	-3.694	1.0056055	1.0048269	163.23 m <sup>2</sup>	6806.06 m <sup>2</sup>
RI02-14	0+475.000	6.73 m				833.195	-3.373	1.0040483			
RI02-13 Dx	0+452.002	15.94 m	16.47 m	22.998	378.88 m <sup>2</sup>	659.000	7.957	0.9879256	0.9888548	374.66 m <sup>2</sup>	7180.72 m <sup>2</sup>
RI02-14	0+475.000	17.01 m				833.195	8.512	0.9897839			

ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 4 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

SCAVO

Sezione	Distanza progressiva	Area	Area Media	Distanza parziale	Volume	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Volume	
										Parziale	Totale
RI02-1	0+186.060	8.00 m <sup>2</sup>	8.02 m <sup>2</sup>	13.940	111.82 m <sup>3</sup>	1012.021	-4.560	1.0045058	1.0049455	112.37 m <sup>3</sup>	112.37 m <sup>3</sup>
Sx	0+200.000	8.04 m <sup>2</sup>				847.151	-4.562	1.0053851			
RI02-1	0+186.060	6.41 m <sup>2</sup>	15.73 m <sup>2</sup>	13.940	219.29 m <sup>3</sup>	1012.021	2.919	0.9971157	0.9941360	218.00 m <sup>3</sup>	330.37 m <sup>3</sup>
Dx	0+200.000	25.05 m <sup>2</sup>				847.151	7.492	0.9911562			
RI02-2	0+200.000	8.04 m <sup>2</sup>	7.96 m <sup>2</sup>	24.431	194.51 m <sup>3</sup>	847.151	-4.562	1.0053851	1.0065241	195.78 m <sup>3</sup>	526.15 m <sup>3</sup>
Sx	0+224.431	7.88 m <sup>2</sup>				659.000	-5.050	1.0076631			
RI02-2	0+200.000	25.05 m <sup>2</sup>	24.28 m <sup>2</sup>	24.431	593.16 m <sup>3</sup>	847.151	7.492	0.9911562	0.9897450	587.08 m <sup>3</sup>	1113.23 m <sup>3</sup>
Dx	0+224.431	23.51 m <sup>2</sup>				659.000	7.688	0.9883338			
RI02-3	0+224.431	7.88 m <sup>2</sup>	8.32 m <sup>2</sup>	25.569	212.82 m <sup>3</sup>	659.000	-5.050	1.0076631	1.0077003	214.46 m <sup>3</sup>	1327.69 m <sup>3</sup>
Sx	0+250.000	8.77 m <sup>2</sup>				659.000	-5.099	1.0077375			
RI02-3	0+224.431	23.51 m <sup>2</sup>	24.06 m <sup>2</sup>	25.569	615.23 m <sup>3</sup>	659.000	7.688	0.9883338	0.9883080	608.04 m <sup>3</sup>	1935.73 m <sup>3</sup>
Dx	0+250.000	24.61 m <sup>2</sup>				659.000	7.722	0.9882822			
RI02-4	0+250.000	8.77 m <sup>2</sup>	8.98 m <sup>2</sup>	25.000	224.52 m <sup>3</sup>	659.000	-5.099	1.0077375	1.0077147	226.25 m <sup>3</sup>	2161.98 m <sup>3</sup>
Sx	0+275.000	9.19 m <sup>2</sup>				659.000	-5.069	1.0076920			
RI02-4	0+250.000	24.61 m <sup>2</sup>	25.75 m <sup>2</sup>	25.000	643.78 m <sup>3</sup>	659.000	7.722	0.9882822	0.9882784	636.23 m <sup>3</sup>	2798.21 m <sup>3</sup>
Dx	0+275.000	26.89 m <sup>2</sup>				659.000	7.727	0.9882747			
RI02-5	0+275.000	9.19 m <sup>2</sup>	9.36 m <sup>2</sup>	25.000	234.03 m <sup>3</sup>	659.000	-5.069	1.0076920	1.0076859	235.83 m <sup>3</sup>	3034.04 m <sup>3</sup>
Sx	0+300.000	9.53 m <sup>2</sup>				659.000	-5.061	1.0076798			
RI02-5	0+275.000	26.89 m <sup>2</sup>	27.77 m <sup>2</sup>	25.000	694.28 m <sup>3</sup>	659.000	7.727	0.9882747	0.9882224	686.10 m <sup>3</sup>	3720.14 m <sup>3</sup>
Dx	0+300.000	28.65 m <sup>2</sup>				659.000	7.796	0.9881700			
RI02-6	0+300.000	9.53 m <sup>2</sup>	9.91 m <sup>2</sup>	25.000	247.71 m <sup>3</sup>	659.000	-5.061	1.0076798	1.0075531	249.58 m <sup>3</sup>	3969.72 m <sup>3</sup>
Sx	0+325.000	10.29 m <sup>2</sup>				659.000	-4.894	1.0074264			
RI02-7	0+325.000	10.29 m <sup>2</sup>				659.000	-4.894	1.0074264			



ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 6 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

SCAVO

Sezione	Distanza progressiva	Area	Area Media	Distanza parziale	Volume	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Volume	
										Parziale	Totale
RI02-12	0+425.000	11.98 m <sup>2</sup>	11.67 m <sup>2</sup>	27.002	315.21 m <sup>3</sup>	659.000	-4.839	1.0073429	1.0072230	317.49 m <sup>3</sup>	9129.69 m <sup>3</sup>
Sx	0+452.002	11.37 m <sup>2</sup>									
RI02-12	0+425.000	31.55 m <sup>2</sup>	31.58 m <sup>2</sup>	27.002	852.66 m <sup>3</sup>	659.000	7.657	0.9883809	0.9883551	842.73 m <sup>3</sup>	9972.42 m <sup>3</sup>
Dx	0+452.002	31.61 m <sup>2</sup>									
RI02-13	0+452.002	11.37 m <sup>2</sup>	11.17 m <sup>2</sup>	22.998	256.98 m <sup>3</sup>	659.000	-4.681	1.0071032	1.0063547	258.61 m <sup>3</sup>	10231.03 m <sup>3</sup>
Sx	0+475.000	10.98 m <sup>2</sup>									
RI02-13	0+452.002	31.61 m <sup>2</sup>	31.44 m <sup>2</sup>	22.998	723.13 m <sup>3</sup>	659.000	7.691	0.9883293	0.9895421	715.57 m <sup>3</sup>	10946.60 m <sup>3</sup>
Dx	0+475.000	31.28 m <sup>2</sup>									
RI02-14	0+475.000	31.28 m <sup>2</sup>				833.195	7.703	0.9907549			

ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 7 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

PIANO DI POSA

Sezione	Distanza progressiva	Sviluppo	Sviluppo Media	Distanza parziale	Area	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Area	
										Parziale	Totale
RI02-1	0+186.060	12.00 m	12.00 m	13.940	167.28 m <sup>2</sup>	1012.021	-2.350	1.0023221	1.0025481	167.71 m <sup>2</sup>	167.71 m <sup>2</sup>
RI02-2	0+200.000	12.00 m				847.151	-2.350	1.0027740			
RI02-2	0+200.000	12.00 m	12.35 m	24.431	301.72 m <sup>2</sup>	847.151	-2.350	1.0027740	1.0029045	302.60 m <sup>2</sup>	470.31 m <sup>2</sup>
RI02-3	0+224.431	12.70 m				659.000	-2.000	1.0030349			
RI02-3	0+224.431	12.70 m	12.70 m	25.569	324.73 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	325.72 m <sup>2</sup>	796.03 m <sup>2</sup>
RI02-4	0+250.000	12.70 m				659.000	-2.000	1.0030349			
RI02-4	0+250.000	12.70 m	12.70 m	25.000	317.50 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	318.46 m <sup>2</sup>	1114.49 m <sup>2</sup>
RI02-5	0+275.000	12.70 m				659.000	-2.000	1.0030349			
RI02-5	0+275.000	12.70 m	12.70 m	25.000	317.50 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	318.46 m <sup>2</sup>	1432.95 m <sup>2</sup>
RI02-6	0+300.000	12.70 m				659.000	-2.000	1.0030349			
RI02-6	0+300.000	12.70 m	12.70 m	25.000	317.50 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	318.46 m <sup>2</sup>	1751.41 m <sup>2</sup>
RI02-7	0+325.000	12.70 m				659.000	-2.000	1.0030349			
RI02-7	0+325.000	12.70 m	12.70 m	13.217	167.86 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	168.37 m <sup>2</sup>	1919.78 m <sup>2</sup>
RI02-8	0+338.217	12.70 m				659.000	-2.000	1.0030349			
RI02-8	0+338.217	12.70 m	12.70 m	11.783	149.64 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	150.09 m <sup>2</sup>	2069.87 m <sup>2</sup>
RI02-9	0+350.000	12.70 m				659.000	-2.000	1.0030349			
RI02-9	0+350.000	12.70 m	12.70 m	25.000	317.50 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	318.46 m <sup>2</sup>	2388.33 m <sup>2</sup>
RI02-10	0+375.000	12.70 m				659.000	-2.000	1.0030349			
RI02-10	0+375.000	12.70 m	12.70 m	25.000	317.50 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	318.46 m <sup>2</sup>	2706.79 m <sup>2</sup>
RI02-11	0+400.000	12.70 m				659.000	-2.000	1.0030349			
RI02-11	0+400.000	12.70 m	12.70 m	25.000	317.50 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	318.46 m <sup>2</sup>	3025.25 m <sup>2</sup>
RI02-12	0+425.000	12.70 m				659.000	-2.000	1.0030349			



ASSE: AV BP

COMPUTO DELLE QUANTITA'

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WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

PIANO DI POSA

Sezione	Distanza progressiva	Sviluppo	Sviluppo Media	Distanza parziale	Area	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Area	
										Parziale	Totale
RI02-12	0+425.000	12.70 m	12.70 m	27.002	342.93 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	343.97 m <sup>2</sup>	3369.22 m <sup>2</sup>
RI02-13	0+452.002	12.70 m									
RI02-13	0+452.002	12.70 m	12.70 m	22.998	292.07 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0027177	292.86 m <sup>2</sup>	3662.08 m <sup>2</sup>
RI02-14	0+475.000	12.70 m									

ASSE: AV BP

COMPUTO DELLE QUANTITA'

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WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

RILEVATO

Sezione	Distanza progressiva	Area	Area Media	Distanza parziale	Volume	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Volume	
										Parziale	Totale
RI02-1	0+186.060	0.46 m <sup>2</sup>	5.92 m <sup>2</sup>	13.940	82.59 m <sup>3</sup>	1012.021	7.627	0.9924636	0.9900605	81.77 m <sup>3</sup>	81.77 m <sup>3</sup>
RI02-2	0+200.000	11.39 m <sup>2</sup>	11.55 m <sup>2</sup>	24.431	282.17 m <sup>3</sup>	847.151	10.456	0.9876575	0.9859646	278.21 m <sup>3</sup>	359.98 m <sup>3</sup>
RI02-2	0+200.000	11.39 m <sup>2</sup>	11.17 m <sup>2</sup>	25.569	285.58 m <sup>3</sup>	847.151	10.456	0.9876575	0.9845880	281.18 m <sup>3</sup>	641.16 m <sup>3</sup>
RI02-3	0+224.431	11.71 m <sup>2</sup>	11.44 m <sup>2</sup>	25.000	286.11 m <sup>3</sup>	659.000	9.948	0.9849044	0.9845380	281.69 m <sup>3</sup>	922.85 m <sup>3</sup>
RI02-3	0+224.431	11.71 m <sup>2</sup>	12.53 m <sup>2</sup>	25.000	313.34 m <sup>3</sup>	659.000	10.431	0.9841715	0.9840714	308.35 m <sup>3</sup>	1231.20 m <sup>3</sup>
RI02-4	0+250.000	10.63 m <sup>2</sup>	12.81 m <sup>2</sup>	11.783	151.15 m <sup>3</sup>	659.000	10.563	0.9839712	0.9841085	148.75 m <sup>3</sup>	1862.32 m <sup>3</sup>
RI02-4	0+250.000	10.63 m <sup>2</sup>	12.82 m <sup>2</sup>	25.000	320.52 m <sup>3</sup>	659.000	10.563	0.9839712	0.9841184	166.97 m <sup>3</sup>	1713.57 m <sup>3</sup>
RI02-5	0+275.000	12.26 m <sup>2</sup>	12.83 m <sup>2</sup>	13.217	169.66 m <sup>3</sup>	659.000	10.472	0.9841093	0.9841275	148.75 m <sup>3</sup>	1862.32 m <sup>3</sup>
RI02-5	0+275.000	12.26 m <sup>2</sup>	12.83 m <sup>2</sup>	11.783	151.15 m <sup>3</sup>	659.000	10.472	0.9841093	0.9841085	148.75 m <sup>3</sup>	1862.32 m <sup>3</sup>
RI02-6	0+300.000	12.81 m <sup>2</sup>	12.83 m <sup>2</sup>	11.783	151.15 m <sup>3</sup>	659.000	10.563	0.9839712	0.9841085	148.75 m <sup>3</sup>	1862.32 m <sup>3</sup>
RI02-6	0+300.000	12.81 m <sup>2</sup>	12.82 m <sup>2</sup>	25.000	320.52 m <sup>3</sup>	659.000	10.563	0.9839712	0.9841085	148.75 m <sup>3</sup>	1862.32 m <sup>3</sup>
RI02-7	0+325.000	12.83 m <sup>2</sup>	12.84 m <sup>2</sup>	13.217	169.66 m <sup>3</sup>	659.000	10.472	0.9841093	0.9841184	166.97 m <sup>3</sup>	1713.57 m <sup>3</sup>
RI02-7	0+325.000	12.83 m <sup>2</sup>	12.84 m <sup>2</sup>	13.217	169.66 m <sup>3</sup>	659.000	10.472	0.9841093	0.9841184	166.97 m <sup>3</sup>	1713.57 m <sup>3</sup>
RI02-8	0+338.217	12.84 m <sup>2</sup>	12.83 m <sup>2</sup>	11.783	151.15 m <sup>3</sup>	659.000	10.460	0.9841275	0.9841085	148.75 m <sup>3</sup>	1862.32 m <sup>3</sup>
RI02-8	0+338.217	12.84 m <sup>2</sup>	12.83 m <sup>2</sup>	11.783	151.15 m <sup>3</sup>	659.000	10.460	0.9841275	0.9841085	148.75 m <sup>3</sup>	1862.32 m <sup>3</sup>
RI02-9	0+350.000	12.81 m <sup>2</sup>	12.89 m <sup>2</sup>	25.000	322.16 m <sup>3</sup>	659.000	10.485	0.9840895	0.9840493	317.02 m <sup>3</sup>	2179.34 m <sup>3</sup>
RI02-9	0+350.000	12.81 m <sup>2</sup>	12.89 m <sup>2</sup>	25.000	322.16 m <sup>3</sup>	659.000	10.485	0.9840895	0.9840493	317.02 m <sup>3</sup>	2179.34 m <sup>3</sup>
RI02-10	0+375.000	12.96 m <sup>2</sup>	12.93 m <sup>2</sup>	25.000	323.28 m <sup>3</sup>	659.000	10.538	0.9840091	0.9840258	318.12 m <sup>3</sup>	2497.46 m <sup>3</sup>
RI02-10	0+375.000	12.96 m <sup>2</sup>	12.93 m <sup>2</sup>	25.000	323.28 m <sup>3</sup>	659.000	10.538	0.9840091	0.9840258	318.12 m <sup>3</sup>	2497.46 m <sup>3</sup>
RI02-11	0+400.000	12.90 m <sup>2</sup>	12.95 m <sup>2</sup>	25.000	323.68 m <sup>3</sup>	659.000	10.516	0.9840425	0.9840152	318.51 m <sup>3</sup>	2815.97 m <sup>3</sup>
RI02-11	0+400.000	12.90 m <sup>2</sup>	12.95 m <sup>2</sup>	25.000	323.68 m <sup>3</sup>	659.000	10.516	0.9840425	0.9840152	318.51 m <sup>3</sup>	2815.97 m <sup>3</sup>
RI02-12	0+425.000	12.99 m <sup>2</sup>				659.000	10.552	0.9839879			

ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 10 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

RILEVATO

Sezione	Distanza progressiva	Area	Area Media	Distanza parziale	Volume	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Volume	
										Parziale	Totale
RI02-12	0+425.000	12.99 m <sup>2</sup>	13.03 m <sup>2</sup>	27.002	351.95 m <sup>3</sup>	659.000	10.552	0.9839879	0.9839720	346.31 m <sup>3</sup>	3162.28 m <sup>3</sup>
RI02-13	0+452.002	13.08 m <sup>2</sup>	13.08 m <sup>2</sup>			659.000	10.573	0.9839560			
RI02-13	0+452.002	13.08 m <sup>2</sup>	12.59 m <sup>2</sup>	22.998	289.46 m <sup>3</sup>	659.000	10.573	0.9839560	0.9858192	285.36 m <sup>3</sup>	3447.64 m <sup>3</sup>
RI02-14	0+475.000	12.09 m <sup>2</sup>				833.195	10.263	0.9876824			

ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 11 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

ANTIGERMINANTE

Sezione	Distanza progressiva	Sviluppo	Sviluppo Media	Distanza parziale	Area	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Area	
										Parziale	Totale
RI02-1	0+186.060	12.00 m	12.00 m	13.940	167.28 m <sup>2</sup>	1012.021	-2.350	1.0023221	1.0025481	167.71 m <sup>2</sup>	167.71 m <sup>2</sup>
RI02-2	0+200.000	12.00 m				847.151	-2.350	1.0027740			
RI02-2	0+200.000	12.00 m	12.35 m	24.431	301.72 m <sup>2</sup>	847.151	-2.350	1.0027740	1.0029045	302.60 m <sup>2</sup>	470.31 m <sup>2</sup>
RI02-3	0+224.431	12.70 m				659.000	-2.000	1.0030349			
RI02-3	0+224.431	12.70 m	12.70 m	25.569	324.73 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	325.72 m <sup>2</sup>	796.03 m <sup>2</sup>
RI02-4	0+250.000	12.70 m				659.000	-2.000	1.0030349			
RI02-4	0+250.000	12.70 m	12.70 m	25.000	317.50 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	318.46 m <sup>2</sup>	1114.49 m <sup>2</sup>
RI02-5	0+275.000	12.70 m				659.000	-2.000	1.0030349			
RI02-5	0+275.000	12.70 m	12.70 m	25.000	317.50 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	318.46 m <sup>2</sup>	1432.95 m <sup>2</sup>
RI02-6	0+300.000	12.70 m				659.000	-2.000	1.0030349			
RI02-6	0+300.000	12.70 m	12.70 m	25.000	317.50 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	318.46 m <sup>2</sup>	1751.41 m <sup>2</sup>
RI02-7	0+325.000	12.70 m				659.000	-2.000	1.0030349			
RI02-7	0+325.000	12.70 m	12.70 m	13.217	167.86 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	168.37 m <sup>2</sup>	1919.78 m <sup>2</sup>
RI02-8	0+338.217	12.70 m				659.000	-2.000	1.0030349			
RI02-8	0+338.217	12.70 m	12.70 m	11.783	149.64 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	150.09 m <sup>2</sup>	2069.87 m <sup>2</sup>
RI02-9	0+350.000	12.70 m				659.000	-2.000	1.0030349			
RI02-9	0+350.000	12.70 m	12.70 m	25.000	317.50 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	318.46 m <sup>2</sup>	2388.33 m <sup>2</sup>
RI02-10	0+375.000	12.70 m				659.000	-2.000	1.0030349			
RI02-10	0+375.000	12.70 m	12.70 m	25.000	317.50 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	318.46 m <sup>2</sup>	2706.79 m <sup>2</sup>
RI02-11	0+400.000	12.70 m				659.000	-2.000	1.0030349			
RI02-11	0+400.000	12.70 m	12.70 m	25.000	317.50 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	318.46 m <sup>2</sup>	3025.25 m <sup>2</sup>
RI02-12	0+425.000	12.70 m				659.000	-2.000	1.0030349			

ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 12 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

ANTIGERMINANTE

Sezione	Distanza progressiva	Sviluppo	Sviluppo Media	Distanza parziale	Area	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Area	
										Parziale	Totale
RI02-12	0+425.000	12.70 m	12.70 m	27.002	342.93 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0030349	343.97 m <sup>2</sup>	3369.22 m <sup>2</sup>
RI02-13	0+452.002	12.70 m									
RI02-13	0+452.002	12.70 m	12.70 m	22.998	292.07 m <sup>2</sup>	659.000	-2.000	1.0030349	1.0027177	292.86 m <sup>2</sup>	3662.08 m <sup>2</sup>
RI02-14	0+475.000	12.70 m									

ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 13 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

SUPERCOMPATTATO

Sezione	Distanza progressiva	Sviluppo	Sviluppo Media	Distanza parziale	Volume	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Volume	
										Parziale	Totale
RI02-1	0+186.060	8.35 m	8.35 m	13.940	116.45 m <sup>3</sup>	1012.021	-4.183	1.0041333	1.0045355	116.98 m <sup>3</sup>	116.98 m <sup>3</sup>
Sx	0+200.000	8.35 m	8.35 m	13.940	116.45 m <sup>3</sup>	847.151	-4.183	1.0049377	1.0045355	116.98 m <sup>3</sup>	116.98 m <sup>3</sup>
RI02-1	0+186.060	3.65 m	3.65 m	13.940	50.90 m <sup>3</sup>	1012.021	1.817	0.9982046	0.9980299	50.80 m <sup>3</sup>	167.78 m <sup>3</sup>
Dx	0+200.000	3.65 m	3.65 m	13.940	50.90 m <sup>3</sup>	847.151	1.817	0.9978552	0.9980299	50.80 m <sup>3</sup>	167.78 m <sup>3</sup>
RI02-2	0+200.000	8.35 m	8.35 m	24.431	204.09 m <sup>3</sup>	847.151	-4.183	1.0049377	1.0056426	205.24 m <sup>3</sup>	373.02 m <sup>3</sup>
Sx	0+224.431	8.35 m	8.35 m	24.431	204.09 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0056426	205.24 m <sup>3</sup>	373.02 m <sup>3</sup>
RI02-2	0+200.000	3.65 m	4.00 m	24.431	97.77 m <sup>3</sup>	847.151	1.817	0.9978552	0.9972713	97.50 m <sup>3</sup>	470.52 m <sup>3</sup>
Dx	0+224.431	4.35 m	4.00 m	24.431	97.77 m <sup>3</sup>	659.000	2.183	0.9966874	0.9972713	97.50 m <sup>3</sup>	470.52 m <sup>3</sup>
RI02-3	0+224.431	8.35 m	8.35 m	25.569	213.60 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	214.96 m <sup>3</sup>	685.48 m <sup>3</sup>
Sx	0+250.000	8.35 m	8.35 m	25.569	213.60 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	214.96 m <sup>3</sup>	685.48 m <sup>3</sup>
RI02-3	0+224.431	4.35 m	4.35 m	25.569	111.28 m <sup>3</sup>	659.000	2.183	0.9966874	0.9966874	110.91 m <sup>3</sup>	796.39 m <sup>3</sup>
Dx	0+250.000	4.35 m	4.35 m	25.569	111.28 m <sup>3</sup>	659.000	2.183	0.9966874	0.9966874	110.91 m <sup>3</sup>	796.39 m <sup>3</sup>
RI02-4	0+250.000	8.35 m	8.35 m	25.000	208.84 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	210.17 m <sup>3</sup>	1006.56 m <sup>3</sup>
Sx	0+275.000	8.35 m	8.35 m	25.000	208.84 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	210.17 m <sup>3</sup>	1006.56 m <sup>3</sup>
RI02-4	0+250.000	4.35 m	4.35 m	25.000	108.80 m <sup>3</sup>	659.000	2.183	0.9966874	0.9966874	108.44 m <sup>3</sup>	1115.00 m <sup>3</sup>
Dx	0+275.000	4.35 m	4.35 m	25.000	108.80 m <sup>3</sup>	659.000	2.183	0.9966874	0.9966874	108.44 m <sup>3</sup>	1115.00 m <sup>3</sup>
RI02-5	0+275.000	8.35 m	8.35 m	25.000	208.84 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	210.17 m <sup>3</sup>	1325.17 m <sup>3</sup>
Sx	0+300.000	8.35 m	8.35 m	25.000	208.84 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	210.17 m <sup>3</sup>	1325.17 m <sup>3</sup>
RI02-5	0+275.000	4.35 m	4.35 m	25.000	108.80 m <sup>3</sup>	659.000	2.183	0.9966874	0.9966874	108.44 m <sup>3</sup>	1433.61 m <sup>3</sup>
Dx	0+300.000	4.35 m	4.35 m	25.000	108.80 m <sup>3</sup>	659.000	2.183	0.9966874	0.9966874	108.44 m <sup>3</sup>	1433.61 m <sup>3</sup>
RI02-6	0+300.000	8.35 m	8.35 m	25.000	208.84 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	210.17 m <sup>3</sup>	1643.78 m <sup>3</sup>
Sx	0+325.000	8.35 m	8.35 m	25.000	208.84 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	210.17 m <sup>3</sup>	1643.78 m <sup>3</sup>
RI02-7	0+325.000	8.35 m	8.35 m	25.000	208.84 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	210.17 m <sup>3</sup>	1643.78 m <sup>3</sup>



ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 15 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

SUPERCOMPATTATO

Sezione	Distanza progressiva	Sviluppo	Sviluppo Media	Distanza parziale	Volume	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Volume	
										Parziale	Totale
RI02-12	0+425.000	8.35 m	8.35 m	27.002	225.57 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	227.00 m <sup>3</sup>	3253.65 m <sup>3</sup>
Sx	0+452.002	8.35 m									
RI02-12	0+425.000	4.35 m	4.35 m	27.002	117.51 m <sup>3</sup>	659.000	2.183	0.9966874	0.9966874	117.12 m <sup>3</sup>	3370.77 m <sup>3</sup>
Dx	0+452.002	4.35 m									
RI02-13	0+452.002	8.35 m	8.35 m	22.998	192.12 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0056839	193.21 m <sup>3</sup>	3563.98 m <sup>3</sup>
Sx	0+475.000	8.35 m									
RI02-13	0+452.002	4.35 m	4.35 m	22.998	100.09 m <sup>3</sup>	659.000	2.183	0.9966874	0.9970337	99.79 m <sup>3</sup>	3663.77 m <sup>3</sup>
Dx	0+475.000	4.35 m									
RI02-14	0+475.000	4.35 m				833.195	2.183	0.9973800			



ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 16 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

SUB-BALLAST

Sezione	Distanza progressiva	Sviluppo	Sviluppo Media	Distanza parziale	Volume	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Volume	
										Parziale	Totale
RI02-1	0+186.060	8.35 m	8.35 m	13.940	116.45 m <sup>3</sup>	1012.021	-4.183	1.0041333	1.0045355	116.98 m <sup>3</sup>	116.98 m <sup>3</sup>
RI02-2	0+200.000	8.35 m	8.35 m	13.940	116.45 m <sup>3</sup>	847.151	-4.183	1.0049377	1.0045355	116.98 m <sup>3</sup>	116.98 m <sup>3</sup>
RI02-1	0+186.060	3.65 m	3.65 m	13.940	50.90 m <sup>3</sup>	1012.021	1.817	0.9982046	0.9980299	50.80 m <sup>3</sup>	167.78 m <sup>3</sup>
RI02-2	0+200.000	3.65 m	3.65 m	13.940	50.90 m <sup>3</sup>	847.151	1.817	0.9978552	0.9980299	50.80 m <sup>3</sup>	167.78 m <sup>3</sup>
RI02-2	0+200.000	8.35 m	8.35 m	24.431	204.09 m <sup>3</sup>	847.151	-4.183	1.0049377	1.0056426	205.24 m <sup>3</sup>	373.02 m <sup>3</sup>
RI02-3	0+224.431	8.35 m	8.35 m	24.431	204.09 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0056426	205.24 m <sup>3</sup>	373.02 m <sup>3</sup>
RI02-2	0+200.000	3.65 m	4.00 m	24.431	97.77 m <sup>3</sup>	847.151	1.817	0.9978552	0.9972713	97.50 m <sup>3</sup>	470.52 m <sup>3</sup>
RI02-3	0+224.431	4.35 m	4.00 m	24.431	97.77 m <sup>3</sup>	659.000	2.183	0.9966874	0.9972713	97.50 m <sup>3</sup>	470.52 m <sup>3</sup>
RI02-3	0+224.431	8.35 m	8.35 m	25.569	213.60 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	214.96 m <sup>3</sup>	685.48 m <sup>3</sup>
RI02-4	0+250.000	8.35 m	8.35 m	25.569	213.60 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	214.96 m <sup>3</sup>	685.48 m <sup>3</sup>
RI02-3	0+224.431	4.35 m	4.35 m	25.569	111.28 m <sup>3</sup>	659.000	2.183	0.9966874	0.9966874	110.91 m <sup>3</sup>	796.39 m <sup>3</sup>
RI02-4	0+250.000	4.35 m	4.35 m	25.569	111.28 m <sup>3</sup>	659.000	2.183	0.9966874	0.9966874	110.91 m <sup>3</sup>	796.39 m <sup>3</sup>
RI02-4	0+250.000	8.35 m	8.35 m	25.000	208.84 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	210.17 m <sup>3</sup>	1006.56 m <sup>3</sup>
RI02-5	0+275.000	8.35 m	8.35 m	25.000	208.84 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	210.17 m <sup>3</sup>	1325.17 m <sup>3</sup>
RI02-4	0+250.000	4.35 m	4.35 m	25.000	108.80 m <sup>3</sup>	659.000	2.183	0.9966874	0.9966874	108.44 m <sup>3</sup>	1115.00 m <sup>3</sup>
RI02-5	0+275.000	4.35 m	4.35 m	25.000	108.80 m <sup>3</sup>	659.000	2.183	0.9966874	0.9966874	108.44 m <sup>3</sup>	1115.00 m <sup>3</sup>
RI02-5	0+275.000	8.35 m	8.35 m	25.000	208.84 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	210.17 m <sup>3</sup>	1325.17 m <sup>3</sup>
RI02-6	0+300.000	8.35 m	8.35 m	25.000	208.84 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	210.17 m <sup>3</sup>	1325.17 m <sup>3</sup>
RI02-5	0+275.000	4.35 m	4.35 m	25.000	108.80 m <sup>3</sup>	659.000	2.183	0.9966874	0.9966874	108.44 m <sup>3</sup>	1433.61 m <sup>3</sup>
RI02-6	0+300.000	4.35 m	4.35 m	25.000	108.80 m <sup>3</sup>	659.000	2.183	0.9966874	0.9966874	108.44 m <sup>3</sup>	1433.61 m <sup>3</sup>
RI02-6	0+300.000	8.35 m	8.35 m	25.000	208.84 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	210.17 m <sup>3</sup>	1643.78 m <sup>3</sup>
RI02-7	0+325.000	8.35 m	8.35 m	25.000	208.84 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	210.17 m <sup>3</sup>	1643.78 m <sup>3</sup>



ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 18 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

SUB-BALLAST

Sezione	Distanza progressiva	Sviluppo	Sviluppo Media	Distanza parziale	Volume	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Volume	
										Parziale	Totale
RI02-12 Sx	0+425.000	8.35 m	8.35 m	27.002	225.57 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0063475	227.00 m <sup>3</sup>	3253.65 m <sup>3</sup>
RI02-13	0+452.002	8.35 m				659.000	-4.183	1.0063475			
RI02-12 Dx	0+425.000	4.35 m	4.35 m	27.002	117.51 m <sup>3</sup>	659.000	2.183	0.9966874	0.9966874	117.12 m <sup>3</sup>	3370.77 m <sup>3</sup>
RI02-13	0+452.002	4.35 m				659.000	2.183	0.9966874			
RI02-13 Sx	0+452.002	8.35 m	8.35 m	22.998	192.12 m <sup>3</sup>	659.000	-4.183	1.0063475	1.0056839	193.21 m <sup>3</sup>	3563.98 m <sup>3</sup>
RI02-14	0+475.000	8.35 m				833.195	-4.183	1.0050204			
RI02-13 Dx	0+452.002	4.35 m	4.35 m	22.998	100.09 m <sup>3</sup>	659.000	2.183	0.9966874	0.9970337	99.79 m <sup>3</sup>	3663.77 m <sup>3</sup>
RI02-14	0+475.000	4.35 m				833.195	2.183	0.9973800			

ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 19 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

BALLAST

Sezione	Distanza progressiva	Area	Area Media	Distanza parziale	Volume	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Volume	
										Parziale	Totale
RI02-1	0+186.060	3.74 m <sup>2</sup>	3.81 m <sup>2</sup>	13.940	53.05 m <sup>3</sup>	1012.021	-3.607	1.0035642	1.0039193	53.26 m <sup>3</sup>	53.26 m <sup>3</sup>
Sx	0+200.000	3.87 m <sup>2</sup>				847.151	-3.621	1.0042743			
RI02-1	0+186.060	1.24 m <sup>2</sup>	1.23 m <sup>2</sup>	13.940	17.16 m <sup>3</sup>	1012.021	1.331	0.9986848	0.9985675	17.14 m <sup>3</sup>	70.40 m <sup>3</sup>
Dx	0+200.000	1.22 m <sup>2</sup>				847.151	1.313	0.9984501			
RI02-2	0+200.000	3.87 m <sup>2</sup>	3.99 m <sup>2</sup>	24.431	97.54 m <sup>3</sup>	847.151	-3.621	1.0042743	1.0049164	98.02 m <sup>3</sup>	168.42 m <sup>3</sup>
Sx	0+224.431	4.11 m <sup>2</sup>				659.000	-3.663	1.0055584			
RI02-2	0+200.000	1.22 m <sup>2</sup>	1.20 m <sup>2</sup>	24.431	29.39 m <sup>3</sup>	847.151	1.313	0.9984501	0.9982471	29.34 m <sup>3</sup>	197.76 m <sup>3</sup>
Dx	0+224.431	1.19 m <sup>2</sup>				659.000	1.289	0.9980440			
RI02-3	0+224.431	4.11 m <sup>2</sup>	4.11 m <sup>2</sup>	25.569	105.16 m <sup>3</sup>	659.000	-3.663	1.0055584	1.0055584	105.74 m <sup>3</sup>	303.50 m <sup>3</sup>
Sx	0+250.000	4.11 m <sup>2</sup>				659.000	-3.663	1.0055584			
RI02-3	0+224.431	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	25.569	30.31 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	30.25 m <sup>3</sup>	333.75 m <sup>3</sup>
Dx	0+250.000	1.19 m <sup>2</sup>				659.000	1.289	0.9980440			
RI02-4	0+250.000	4.11 m <sup>2</sup>	4.11 m <sup>2</sup>	25.000	102.82 m <sup>3</sup>	659.000	-3.663	1.0055584	1.0055584	103.39 m <sup>3</sup>	437.14 m <sup>3</sup>
Sx	0+275.000	4.11 m <sup>2</sup>				659.000	-3.663	1.0055584			
RI02-4	0+250.000	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	25.000	29.63 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	29.57 m <sup>3</sup>	466.71 m <sup>3</sup>
Dx	0+275.000	1.19 m <sup>2</sup>				659.000	1.289	0.9980440			
RI02-5	0+275.000	4.11 m <sup>2</sup>	4.11 m <sup>2</sup>	25.000	102.82 m <sup>3</sup>	659.000	-3.663	1.0055584	1.0055584	103.39 m <sup>3</sup>	570.10 m <sup>3</sup>
Sx	0+300.000	4.11 m <sup>2</sup>				659.000	-3.663	1.0055584			
RI02-5	0+275.000	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	25.000	29.63 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	29.57 m <sup>3</sup>	599.67 m <sup>3</sup>
Dx	0+300.000	1.19 m <sup>2</sup>				659.000	1.289	0.9980440			
RI02-6	0+300.000	4.11 m <sup>2</sup>	4.11 m <sup>2</sup>	25.000	102.82 m <sup>3</sup>	659.000	-3.663	1.0055584	1.0055584	103.39 m <sup>3</sup>	703.06 m <sup>3</sup>
Sx	0+325.000	4.11 m <sup>2</sup>				659.000	-3.663	1.0055584			
RI02-7	0+325.000	4.11 m <sup>2</sup>				659.000	-3.663	1.0055584			

ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 20 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

BALLAST

Sezione	Distanza progressiva	Area	Area Media	Distanza parziale	Volume	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Volume	
										Parziale	Totale
RI02-6	0+300.000	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	25.000	29.63 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	29.57 m <sup>3</sup>	732.63 m <sup>3</sup>
Dx	0+325.000	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	25.000	29.63 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	29.57 m <sup>3</sup>	732.63 m <sup>3</sup>
RI02-7	0+325.000	4.11 m <sup>2</sup>	4.11 m <sup>2</sup>	13.217	54.36 m <sup>3</sup>	659.000	-3.663	1.0055584	1.0055584	54.66 m <sup>3</sup>	787.29 m <sup>3</sup>
Sx	0+338.217	4.11 m <sup>2</sup>	4.11 m <sup>2</sup>	13.217	54.36 m <sup>3</sup>	659.000	-3.663	1.0055584	1.0055584	54.66 m <sup>3</sup>	787.29 m <sup>3</sup>
RI02-7	0+325.000	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	13.217	15.67 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	15.64 m <sup>3</sup>	802.93 m <sup>3</sup>
Dx	0+338.217	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	13.217	15.67 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	15.64 m <sup>3</sup>	802.93 m <sup>3</sup>
RI02-8	0+338.217	4.11 m <sup>2</sup>	4.12 m <sup>2</sup>	11.783	48.51 m <sup>3</sup>	659.000	-3.663	1.0055584	1.0055629	48.78 m <sup>3</sup>	851.71 m <sup>3</sup>
Sx	0+350.000	4.12 m <sup>2</sup>	4.12 m <sup>2</sup>	11.783	48.51 m <sup>3</sup>	659.000	-3.669	1.0055675	1.0055629	48.78 m <sup>3</sup>	851.71 m <sup>3</sup>
RI02-8	0+338.217	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	11.783	13.97 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	13.94 m <sup>3</sup>	865.65 m <sup>3</sup>
Dx	0+350.000	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	11.783	13.97 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	13.94 m <sup>3</sup>	865.65 m <sup>3</sup>
RI02-9	0+350.000	4.12 m <sup>2</sup>	4.12 m <sup>2</sup>	25.000	103.02 m <sup>3</sup>	659.000	-3.669	1.0055675	1.0055675	103.59 m <sup>3</sup>	969.24 m <sup>3</sup>
Sx	0+375.000	4.12 m <sup>2</sup>	4.12 m <sup>2</sup>	25.000	103.02 m <sup>3</sup>	659.000	-3.669	1.0055675	1.0055675	103.59 m <sup>3</sup>	969.24 m <sup>3</sup>
RI02-9	0+350.000	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	25.000	29.63 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	29.57 m <sup>3</sup>	998.81 m <sup>3</sup>
Dx	0+375.000	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	25.000	29.63 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	29.57 m <sup>3</sup>	998.81 m <sup>3</sup>
RI02-10	0+375.000	4.12 m <sup>2</sup>	4.12 m <sup>2</sup>	25.000	103.02 m <sup>3</sup>	659.000	-3.669	1.0055675	1.0055675	103.59 m <sup>3</sup>	1102.40 m <sup>3</sup>
Sx	0+400.000	4.12 m <sup>2</sup>	4.12 m <sup>2</sup>	25.000	103.02 m <sup>3</sup>	659.000	-3.669	1.0055675	1.0055675	103.59 m <sup>3</sup>	1102.40 m <sup>3</sup>
RI02-10	0+375.000	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	25.000	29.63 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	29.57 m <sup>3</sup>	1131.97 m <sup>3</sup>
Dx	0+400.000	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	25.000	29.63 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	29.57 m <sup>3</sup>	1131.97 m <sup>3</sup>
RI02-11	0+400.000	4.12 m <sup>2</sup>	4.12 m <sup>2</sup>	25.000	103.02 m <sup>3</sup>	659.000	-3.669	1.0055675	1.0055675	103.59 m <sup>3</sup>	1235.56 m <sup>3</sup>
Sx	0+425.000	4.12 m <sup>2</sup>	4.12 m <sup>2</sup>	25.000	103.02 m <sup>3</sup>	659.000	-3.669	1.0055675	1.0055675	103.59 m <sup>3</sup>	1235.56 m <sup>3</sup>
RI02-11	0+400.000	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	25.000	29.63 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	29.57 m <sup>3</sup>	1265.13 m <sup>3</sup>
Dx	0+425.000	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	25.000	29.63 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	29.57 m <sup>3</sup>	1265.13 m <sup>3</sup>

ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 21 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

BALLAST

Sezione	Distanza progressiva	Area	Area Media	Distanza parziale	Volume	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Volume	
										Parziale	Totale
RI02-12 Sx	0+425.000	4.12 m <sup>2</sup>	4.12 m <sup>2</sup>	27.002	111.27 m <sup>3</sup>	659.000	-3.669	1.0055675	1.0055675	111.89 m <sup>3</sup>	1377.02 m <sup>3</sup>
RI02-13	0+452.002	4.12 m <sup>2</sup>				659.000	-3.669	1.0055675			
RI02-12 Dx	0+425.000	1.19 m <sup>2</sup>	1.19 m <sup>2</sup>	27.002	32.00 m <sup>3</sup>	659.000	1.289	0.9980440	0.9980440	31.94 m <sup>3</sup>	1408.96 m <sup>3</sup>
RI02-13	0+452.002	1.19 m <sup>2</sup>				659.000	1.289	0.9980440			
RI02-13 Sx	0+452.002	4.12 m <sup>2</sup>	4.01 m <sup>2</sup>	22.998	92.15 m <sup>3</sup>	659.000	-3.669	1.0055675	1.0049621	92.61 m <sup>3</sup>	1501.57 m <sup>3</sup>
RI02-14	0+475.000	3.89 m <sup>2</sup>				833.195	-3.630	1.0043567			
RI02-13 Dx	0+452.002	1.19 m <sup>2</sup>	1.20 m <sup>2</sup>	22.998	27.64 m <sup>3</sup>	659.000	1.289	0.9980440	0.9982299	27.59 m <sup>3</sup>	1529.16 m <sup>3</sup>
RI02-14	0+475.000	1.22 m <sup>2</sup>				833.195	1.320	0.9984157			



ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 23 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

O GRANULARE STABILIZZATO / CEMENT

Sezione	Distanza progressiva	Area	Area Media	Distanza parziale	Volume	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Volume	
										Parziale	Totale
RI02-1	0+186.060	0.62 m <sup>2</sup>	0.61 m <sup>2</sup>	13.940	8.52 m <sup>3</sup>	1012.021	7.555	0.9925347	0.9894510	8.43 m <sup>3</sup>	8.43 m <sup>3</sup>
RI02-2	0+200.000	0.60 m <sup>2</sup>	0.60 m <sup>2</sup>	24.431	14.66 m <sup>3</sup>	847.151	11.549	0.9863672	0.9844203	14.43 m <sup>3</sup>	22.86 m <sup>3</sup>
RI02-3	0+224.431	0.60 m <sup>2</sup>	0.60 m <sup>2</sup>	25.569	15.34 m <sup>3</sup>	659.000	11.550	0.9824734	0.9824734	15.07 m <sup>3</sup>	37.93 m <sup>3</sup>
RI02-4	0+250.000	0.60 m <sup>2</sup>	0.60 m <sup>2</sup>	25.000	15.00 m <sup>3</sup>	659.000	11.550	0.9824734	0.9824734	14.74 m <sup>3</sup>	52.67 m <sup>3</sup>
RI02-5	0+275.000	0.60 m <sup>2</sup>	0.60 m <sup>2</sup>	25.000	15.00 m <sup>3</sup>	659.000	11.550	0.9824734	0.9824734	14.74 m <sup>3</sup>	67.41 m <sup>3</sup>
RI02-6	0+300.000	0.60 m <sup>2</sup>	0.60 m <sup>2</sup>	25.000	15.00 m <sup>3</sup>	659.000	11.550	0.9824734	0.9820941	14.73 m <sup>3</sup>	82.14 m <sup>3</sup>
RI02-7	0+325.000	0.60 m <sup>2</sup>	0.60 m <sup>2</sup>	13.217	7.93 m <sup>3</sup>	659.000	12.050	0.9817147	0.9817147	7.78 m <sup>3</sup>	89.92 m <sup>3</sup>
RI02-8	0+338.217	0.60 m <sup>2</sup>	0.60 m <sup>2</sup>	11.783	7.07 m <sup>3</sup>	659.000	12.050	0.9817147	0.9817147	6.94 m <sup>3</sup>	96.86 m <sup>3</sup>
RI02-9	0+350.000	0.60 m <sup>2</sup>	0.60 m <sup>2</sup>	25.000	15.00 m <sup>3</sup>	659.000	12.050	0.9817147	0.9817147	14.73 m <sup>3</sup>	111.59 m <sup>3</sup>
RI02-10	0+375.000	0.60 m <sup>2</sup>	0.60 m <sup>2</sup>	25.000	15.00 m <sup>3</sup>	659.000	12.050	0.9817147	0.9817147	14.73 m <sup>3</sup>	126.32 m <sup>3</sup>
RI02-11	0+400.000	0.60 m <sup>2</sup>	0.60 m <sup>2</sup>	25.000	15.00 m <sup>3</sup>	659.000	12.050	0.9817147	0.9817147	14.73 m <sup>3</sup>	141.05 m <sup>3</sup>
RI02-12	0+425.000	0.60 m <sup>2</sup>	0.60 m <sup>2</sup>			659.000	12.050	0.9817147			



ASSE: AV BP

COMPUTO DELLE QUANTITA'

Pagina: 24 / 24

WBS: RI02 (Rilevato ferroviario da pk 0+174,45 a pk 0+475,00 - L=300,55 m)

O GRANULARE STABILIZZATO / CEMENT

Sezione	Distanza progressiva	Area	Area Media	Distanza parziale	Volume	Raggio	Distanza baricentro	Fattore K	Fattore K medio	Volume	
										Parziale	Totale
RI02-12	0+425.000	0.60 m <sup>2</sup>	0.60 m <sup>2</sup>	27.002	16.20 m <sup>3</sup>	659.000	12.050	0.9817147	0.9817147	15.90 m <sup>3</sup>	156.95 m <sup>3</sup>
RI02-13	0+452.002	0.60 m <sup>2</sup>	0.60 m <sup>2</sup>			659.000	12.050	0.9817147			
RI02-13	0+452.002	0.60 m <sup>2</sup>	0.90 m <sup>2</sup>	22.998	20.73 m <sup>3</sup>	659.000	12.050	0.9817147	0.9827008	20.37 m <sup>3</sup>	177.32 m <sup>3</sup>
RI02-14	0+475.000	1.20 m <sup>2</sup>				833.195	13.592	0.9836869			