



REGIONE EMILIA ROMAGNA
PROVINCIA DI PARMA
COMUNE DI BORGO VAL DI TARO



PROGETTO PER LA REALIZZAZIONE
DEL PARCO EOLICO
"MONTE CROCE DI FERRO"

Potenza complessiva 30 MW

PROGETTO DEFINITIVO
DELL'IMPIANTO, DELLE OPERE CONNESSE E DELLE
INFRASTRUTTURE INDISPENSABILI

PA-TAV. 16.1

*STRADE E PIAZZOLE- TABULATI DI
CALCOLO VOLUMI STRADE E PIAZZOLE-
FASE DI CANTIERE*

COMMITTENTE

**BORGOTARO
WIND**

**Piazza del Grano 3
39100 Bolzano, Italia**

GRUPPO DI LAVORO

Ing. GIUSEPPE STEFANINI: progettista opere civili, idrauliche e calcoli strutturali

Ing. PIETRO RICCIARDINI (GEOTECH srl): progettista opere elettriche e sottostazione

Ing. GIULIO BARTOLI, Dott. Geol. STEFANO MANTOVANI (MMA srl): SIA, studi paesaggistici, relazioni specialistiche, studio geologico geotecnico, studio di impatto acustico, simulazioni fotografiche

Dott.ssa. MARIA GRAZIA LISENO (NOSTOI srl): studio archeologico

Prof. DINO SCARAVELLI (Coop. ST.E.R.N.A.): relazione faunistica, piano di monitoraggio faunistico, avifaunistico e chiroteri, relazione floristico-vegetazionale

Arch. LUCIANO SERCHIA: consulente paesaggistico

Arch. STEFANO BOTTI (ABACUS sas) geom. CESARE SCHIATTI (STUDIO ARCO srl): rilievi aerofotogrammetrici e GNSS, documentazioni fotografiche da drone e da terra

Arch. MATTEO MASCIA: modellazione tridimensionale e renderizzazione fotorealistica

Dott. ENRICO CIRCELLI: consulenza micologica

Dott. Forestale FRANCESCO MARIOTTI: progettista interventi forestali compensativi

SCALA:

FIRME



Stefanini

Rev.	Descrizione	Redatto	Verificato	Approvato	Data
00	Prima emissione	Stefanini G.	Stefanini G.	Piovatizzi A.	Marzo 2022
01	Integrazione nota ARPAE SAC Parma Prot. n. 203102/2022 del 12/12/2022	Stefanini G.	Stefanini G.	Piovatizzi A.	Marzo 2023

REGIONE EMILIA ROMAGNA

Comune di Borgo Val di Taro (Parma)

BORGOTAROWIND

Borgotaro Wind Srl

Piazza del Grano 3, Bolzano, P.IVA e Cod. Fisc. 03127880213

**PROGETTO DEL
PARCO EOLICO “MONTE CROCE DI FERRO”,
DELLE OPERE CONNESSE E
DELLE INFRASTRUTTURE INDISPENSABILI**

**PA-R TAV.16.1 STRADE E PIAZZOLE- TABULATI DI CALCOLO VOLUMI
STRADE E PIAZZOLE- FASE DI CANTIERE**

Revisione 01 d.d. marzo 2023



PREMESSA

Il presente elaborato è stato revisionato al fine di recepire le integrazioni richieste con note prot. 203102/2022 trasmessa in data 12/12/2022 e prot. 205606/2022 trasmessa in data 15/12/2022 da parte di ARPAE Servizio Autorizzazioni e Concessioni di Parma, con riferimento alle osservazioni effettuate da:

- 1) SNAM: in merito alle interferenze tra il metanodotto Pontremoli/Albareto DN900 (36”), Metanodotto allacciamento Laminam DN150 (6”) e le opere previste per la realizzazione dell’impianto eolico “Parco Eolico Monte della Croce”.

Si riportano a seguire i capiversi delle note:

- 2) Aerogeneratore BT2- L’asse dell’aerogeneratore è posizionato oltre la fascia di sicurezza/servitù ma la proiezione... (omissis)... è necessario che il progetto venga aggiornato spostando la proiezione della pala oltre la fascia di sicurezza/servitù.

- 2) Terna:

Si riportano a seguire i capiversi delle note:

- 16) Profilo altimetrico strada di accesso: dagli elaborati prodotti si rileva una pendenza della strada di accesso che in alcune tratte raggiunge il 16%circa...(omissis)...la pendenza massima deve essere del 10%. Si chiede pertanto di rivedere il progetto relativo alla sistemazione e adeguamento della strada di accesso in modo da rispettare tale prescrizione.

Il presente elaborato è stato altresì redatto tenendo in considerazione le modifiche progettuali introdotte rispetto alla proposta progettuale iniziale sottoposta ad iter procedurale di PAUR e che sono meglio descritte nell’elaborato RI-R.0 nelle premesse.



TABULATI DI CALCOLO VOLUMI PIAZZOLE

1+000 a 1+204

PIAZZOLA BT1



Station	Cut Area (Sq.m.)	Cut Volume (Cu.m.)	Fill Area (Sq.m.)	Fill Volume (Cu.m.)	Cum. Cut Vol. (Cu.m.)	Cum. Fill Vol. (Cu.m.)	Cum. Net Vol. (Cu.m.)
1+002.462	27.15	0.00	13.28	0.00	0.00	0.00	0.00
1+005.000	40.56	85.93	9.38	28.76	85.93	28.76	57.17
1+010.000	56.03	241.47	62.59	179.93	327.40	208.69	118.71
1+015.000	58.81	287.10	70.17	331.92	614.50	540.61	73.89
1+020.000	28.14	217.38	56.00	315.43	831.87	856.04	-24.17
1+025.000	12.24	100.95	59.56	288.90	932.82	1144.94	-212.12
1+026.531	14.06	20.13	61.06	92.31	952.95	1237.25	-284.30
1+030.000	17.68	55.05	54.06	199.70	1007.99	1436.95	-428.96
1+035.000	26.87	111.38	50.75	262.03	1119.37	1698.98	-579.61
1+040.000	1.35	70.55	183.94	586.72	1189.93	2285.70	-1095.77
1+045.000	9.43	26.95	143.15	817.72	1216.87	3103.41	-1886.54
1+050.000	12.31	54.35	111.87	637.55	1271.23	3740.97	-2469.74
1+055.000	13.28	63.98	86.55	496.06	1335.21	4237.03	-2901.82
1+060.000	8.10	53.45	74.21	401.90	1388.66	4638.93	-3250.27
1+065.000	16.22	60.80	67.52	354.32	1449.46	4993.25	-3543.79
1+070.000	29.96	115.46	71.73	348.12	1564.93	5341.37	-3776.44
1+075.000	47.69	194.14	65.23	342.39	1759.06	5683.76	-3924.70
1+080.000	53.73	253.55	55.82	302.63	2012.61	5986.39	-3973.78
1+085.000	79.07	331.99	48.32	260.37	2344.60	6246.75	-3902.15
1+086.126	85.70	92.80	45.83	53.02	2437.40	6299.78	-3862.38
1+090.000	123.67	405.52	31.76	150.26	2842.92	6450.04	-3607.13



1+095.000	180.65	760.81	19.38	127.85	3603.73	6577.89	-2974.17
1+100.000	201.65	955.74	14.19	83.95	4559.47	6661.84	-2102.37
1+105.000	154.54	890.46	9.86	60.13	5449.93	6721.96	-1272.03
1+110.000	109.89	661.08	7.40	43.14	6111.01	6765.11	-654.10
1+115.000	94.47	510.91	4.47	29.66	6621.92	6794.77	-172.85
1+120.000	106.15	501.55	1.39	14.64	7123.47	6809.41	314.06
1+125.000	114.88	552.57	0.43	4.55	7676.04	6813.96	862.08
1+126.122	117.00	130.13	0.28	0.40	7806.17	6814.36	991.81
1+130.000	123.22	465.75	0.06	0.66	8271.92	6815.02	1456.90
1+135.000	128.55	629.45	0.03	0.23	8901.36	6815.25	2086.11
1+140.000	129.65	645.50	0.13	0.41	9546.86	6815.66	2731.20
1+145.000	122.00	629.11	0.34	1.17	10175.97	6816.84	3359.13
1+150.000	122.14	610.33	0.57	2.27	10786.30	6819.11	3967.19
1+155.000	91.90	535.09	0.58	2.86	11321.39	6821.97	4499.42
1+160.000	50.04	354.85	3.14	9.29	11676.24	6831.27	4844.97
1+165.000	21.59	179.09	12.35	38.73	11855.33	6870.00	4985.33
1+170.000	11.10	81.73	17.25	74.01	11937.06	6944.01	4993.05
1+175.000	2.52	34.04	30.23	118.70	11971.11	7062.71	4908.40
1+180.000	0.05	6.42	46.29	191.28	11977.53	7253.99	4723.53
1+185.000	0.01	0.15	54.50	251.98	11977.67	7505.97	4471.70
1+190.000	0.15	0.39	57.33	279.60	11978.06	7785.57	4192.49
1+195.000	0.07	0.55	58.71	290.12	11978.61	8075.69	3902.92
1+200.000	0.00	0.19	47.48	265.48	11978.80	8341.18	3637.63



1+203.539	0.00	0.00	41.21	156.93	11978.80	8498.11	3480.69	
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TABULATI DI CALCOLO VOLUMI PIAZZOLE

2+000 a 2+193.00

PIAZZOLA BT2



<u>Station</u>	<u>Cut Area</u> <u>(Sq.m.)</u>	<u>Cut Volume</u> <u>(Cu.m.)</u>	<u>Fill Area</u> <u>(Sq.m.)</u>	<u>Fill Volume</u> <u>(Cu.m.)</u>	<u>Cum. Cut Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Fill Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Net Vol.</u> <u>(Cu.m.)</u>	-
2+000.000	50.93	0	0	0	0	0	0	
2+005.000	38.77	224.24	0	0	224.24	0	224.24	
2+010.000	27.97	166.85	0	0	391.08	0	391.08	
2+015.000	17.99	114.9	0	0	505.98	0	505.98	
2+020.000	11.61	73.99	0	0	579.97	0	579.97	
2+024.758	11.58	55.16	0	0	635.13	0	635.13	
2+025.000	11.68	2.81	0	0	637.94	0	637.94	
2+030.000	17.35	72.58	0	0	710.52	0	710.52	
2+035.000	21.72	97.68	0	0	808.2	0	808.2	
2+040.000	24.36	115.21	0	0	923.41	0	923.41	
2+045.000	28.1	131.16	0	0	1054.57	0	1054.57	
2+050.000	31.47	148.93	0	0	1203.5	0	1203.5	
2+055.000	32.79	160.65	0	0	1364.15	0	1364.15	
2+060.000	33.96	166.86	0	0	1531	0	1531	
2+060.000	0	0	0	0	1531	0	1531	
2+065.000	33.88	84.71	0	0	1615.71	0	1615.71	
2+070.000	31.15	162.6	0	0	1778.31	0	1778.31	
2+075.000	29.44	151.49	0	0	1929.8	0	1929.8	
2+080.000	26.18	139.06	0	0	2068.86	0	2068.86	
2+085.000	21.21	118.47	0	0	2187.34	0	2187.34	
2+090.000	16.64	94.62	0	0	2281.95	0	2281.95	
2+095.000	12.25	72.22	0	0	2354.18	0	2354.18	



2+097.184	9.85	24.13	0	0	2378.31	0	2378.31
2+100.000	5.2	21.19	0	0	2399.49	0	2399.49
2+105.000	0	13	6.97	17.43	2412.49	17.43	2395.06
2+110.000	0	0	6.71	34.2	2412.49	51.63	2360.86
2+115.000	0	0	1.55	20.64	2412.5	72.27	2340.23
2+119.400	0	0.01	1.74	7.25	2412.51	79.52	2332.99
2+120.000	0	0	1.78	1.05	2412.51	80.58	2331.94
2+125.000	0	0	1.88	9.14	2412.52	89.71	2322.81
2+130.000	0	0	1.94	9.55	2412.52	99.26	2313.26
2+135.000	0	0	1.85	9.48	2412.52	108.73	2303.79
2+140.000	0	0	0.52	5.94	2412.52	114.67	2297.85
2+145.000	0	0	0.28	2.01	2412.52	116.68	2295.84
2+150.000	0	0	0.17	1.13	2412.52	117.81	2294.71
2+152.975	0	0	0.07	0.36	2412.52	118.17	2294.35
2+155.000	0	0	0.07	0.14	2412.52	118.31	2294.21
2+160.000	0	0	0.06	0.32	2412.52	118.63	2293.89
2+165.000	0	0	0.05	0.28	2412.52	118.91	2293.61
2+170.000	0	0	0.03	0.21	2412.52	119.12	2293.4
2+175.000	0	0	0.01	0.11	2412.52	119.23	2293.29
2+178.000	0	0	0.06	0.12	2412.52	119.35	2293.17
2+180.000	0	0	0.11	0.17	2412.52	119.52	2293
2+185.000	0.05	0.13	0	0.27	2412.65	119.8	2292.86
2+190.000	0	0.14	0	0	2412.79	119.8	2293



TABULATI DI CALCOLO VOLUMI PIAZZOLE

3+000 a 3+220.00

PIAZZOLA BT3



<u>Station</u>	<u>Cut Area</u> <u>(Sq.m.)</u>	<u>Cut Volume</u> <u>(Cu.m.)</u>	<u>Fill Area</u> <u>(Sq.m.)</u>	<u>Fill Volume</u> <u>(Cu.m.)</u>	<u>Cum. Cut Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Fill Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Net Vol.</u> <u>(Cu.m.)</u>	
3+005.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3+010.000	33.72	84.30	0.00	0.00	84.30	0.00	84.30	
3+014.317	142.14	379.56	0.00	0.00	463.85	0.00	463.85	
3+015.000	147.40	98.92	0.00	0.00	562.77	0.00	562.77	
3+020.000	171.23	796.58	0.00	0.00	1359.36	0.00	1359.36	
3+025.000	206.12	943.37	0.00	0.00	2302.72	0.00	2302.72	
3+030.000	215.74	1054.65	0.00	0.00	3357.38	0.00	3357.38	
3+030.317	213.16	67.92	0.00	0.00	3425.30	0.00	3425.30	
3+035.000	173.13	904.57	0.00	0.00	4329.86	0.00	4329.86	
3+040.000	146.32	798.62	1.24	3.10	5128.48	3.10	5125.38	
3+045.000	137.53	709.61	1.99	8.08	5838.09	11.18	5826.92	
3+050.000	119.78	643.27	2.79	11.94	6481.36	23.12	6458.24	
3+055.000	85.15	512.32	8.68	28.67	6993.68	51.79	6941.90	
3+060.000	55.76	352.27	16.99	64.19	7345.95	115.97	7229.97	
3+065.000	36.71	231.17	27.98	112.42	7577.12	228.40	7348.72	
3+070.000	20.69	143.49	39.50	168.70	7720.60	397.09	7323.51	
3+075.000	6.19	67.19	52.91	231.03	7787.79	628.13	7159.67	
3+080.000	0.15	15.86	68.81	304.31	7803.65	932.43	6871.22	
3+085.000	0.07	0.56	87.27	390.22	7804.22	1322.65	6481.57	
3+090.000	0.00	0.18	93.30	451.43	7804.40	1774.08	6030.32	
3+090.772	0.00	0.00	93.00	71.91	7804.40	1845.99	5958.41	



3+095.000	0.00	0.00	91.44	389.90	7804.40	2235.88	5568.52
3+100.000	0.00	0.00	79.72	427.89	7804.40	2663.77	5140.63
3+105.000	0.00	0.00	42.63	305.86	7804.40	2969.63	4834.77
3+110.000	0.00	0.00	30.71	183.34	7804.40	3152.97	4651.43
3+115.000	0.00	0.00	23.97	136.70	7804.40	3289.67	4514.73
3+120.000	0.00	0.00	18.71	106.71	7804.40	3396.37	4408.02
3+125.000	0.00	0.00	16.21	87.31	7804.40	3483.68	4320.72
3+130.000	0.00	0.00	15.74	79.87	7804.40	3563.55	4240.85
3+135.000	0.00	0.00	18.34	85.20	7804.40	3648.75	4155.65
3+140.000	0.37	0.93	18.53	92.17	7805.33	3740.92	4064.40
3+145.000	1.99	5.91	13.80	80.83	7811.23	3821.75	3989.48
3+150.000	5.13	17.81	9.07	57.19	7829.04	3878.94	3950.10
3+155.000	6.86	29.99	10.84	49.78	7859.03	3928.73	3930.30
3+160.000	4.78	29.11	15.09	64.83	7888.13	3993.56	3894.57
3+165.000	3.86	21.60	20.33	88.56	7909.74	4082.12	3827.62
3+170.000	6.15	25.02	24.28	111.53	7934.76	4193.65	3741.11
3+175.000	9.46	39.01	28.21	131.23	7973.76	4324.88	3648.89
3+180.000	9.42	47.19	37.20	163.53	8020.95	4488.41	3532.55
3+185.000	10.25	49.16	45.38	206.46	8070.12	4694.87	3375.25
3+190.000	11.61	54.63	54.54	249.81	8124.74	4944.68	3180.07
3+195.000	14.72	65.80	47.09	254.09	8190.55	5198.76	2991.79
3+200.000	18.74	83.64	17.37	161.15	8274.19	5359.91	2914.28
3+205.000	24.37	107.77	0.20	43.92	8381.95	5403.83	2978.13



3+207.317	23.75	55.74	0.00	0.23	8437.69	5404.06	3033.63
3+210.000	6.71	40.87	0.00	0.00	8478.56	5404.06	3074.50
3+215.000	0.00	16.77	0.00	0.00	8495.34	5404.06	3091.28



TABULATI DI CALCOLO VOLUMI PIAZZOLE

4+000 a 4+234.00

PIAZZOLA BT4



Station	Cut Area (Sq.m.)	Cut Volume (Cu.m.)	Fill Area (Sq.m.)	Fill Volume (Cu.m.)	Cum. Cut Vol. (Cu.m.)	Cum. Fill Vol. (Cu.m.)	Cum. Net Vol. (Cu.m.)
4+005.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4+010.000	7.01	17.54	0.00	0.00	17.54	0.00	17.54
4+014.397	79.26	189.68	11.65	25.60	207.21	25.60	181.61
4+015.000	79.31	47.79	14.36	7.84	255.00	33.44	221.56
4+020.000	100.22	448.83	22.64	92.52	703.83	125.96	577.87
4+025.000	110.66	527.21	40.79	158.58	1231.04	284.54	946.50
4+030.000	109.04	549.25	69.12	274.77	1780.28	559.31	1220.97
4+030.397	108.48	43.20	68.97	27.43	1823.49	586.74	1236.75
4+035.000	105.18	491.72	104.66	399.60	2315.21	986.34	1328.87
4+040.000	84.08	473.16	189.95	736.54	2788.37	1722.88	1065.48
4+045.000	62.73	367.04	232.59	1056.37	3155.41	2779.25	376.16
4+050.000	69.84	331.43	234.65	1168.11	3486.84	3947.36	-460.51
4+055.000	80.00	374.60	231.57	1165.55	3861.44	5112.91	-1251.47
4+060.000	82.94	407.36	219.32	1127.21	4268.80	6240.12	-1971.32
4+065.000	83.74	416.70	205.56	1062.19	4685.49	7302.30	-2616.81
4+070.000	83.16	417.24	197.20	1006.90	5102.74	8309.21	-3206.47
4+075.000	85.48	421.61	196.93	985.34	5524.35	9294.54	-3770.19
4+080.000	80.41	414.75	195.53	981.15	5939.10	10275.69	-4336.60
4+085.000	77.19	394.00	196.47	979.99	6333.09	11255.68	-4922.59
4+090.000	81.76	397.35	211.59	1020.15	6730.45	12275.83	-5545.38
4+092.397	85.91	200.96	211.97	507.69	6931.41	12783.51	-5852.11



4+095.000	82.76	219.50	212.74	552.70	7150.91	13336.22	-6185.30
4+100.000	70.31	382.69	212.37	1062.77	7533.60	14398.99	-6865.39
4+105.000	59.94	325.62	164.08	941.12	7859.22	15340.11	-7480.88
4+110.000	35.77	239.26	89.79	634.67	8098.48	15974.78	-7876.30
4+115.000	25.23	152.49	61.76	378.88	8250.97	16353.66	-8102.69
4+120.000	21.65	117.21	69.79	328.86	8368.18	16682.51	-8314.34
4+125.000	18.80	101.13	57.53	318.29	8469.31	17000.81	-8531.50
4+130.000	15.80	86.50	47.37	262.25	8555.81	17263.06	-8707.25
4+135.000	12.75	71.37	41.29	221.66	8627.18	17484.72	-8857.54
4+140.000	11.47	60.54	38.16	198.63	8687.72	17683.35	-8995.64
4+145.000	11.74	58.02	37.67	189.58	8745.73	17872.94	-9127.20
4+150.000	12.99	61.82	36.35	185.07	8807.55	18058.00	-9250.46
4+155.000	12.16	62.87	46.39	206.87	8870.41	18264.87	-9394.46
4+160.000	9.48	54.08	44.33	226.80	8924.50	18491.68	-9567.18
4+165.000	9.30	46.94	44.15	221.20	8971.43	18712.87	-9741.44
4+170.000	9.81	47.77	43.45	219.02	9019.21	18931.89	-9912.68
4+175.000	11.16	52.43	44.65	220.26	9071.63	19152.15	-10080.51
4+180.000	13.10	60.65	44.54	222.98	9132.28	19375.12	-10242.84
4+185.000	15.54	71.61	40.86	213.51	9203.89	19588.63	-10384.74
4+190.000	18.74	85.70	30.06	177.30	9289.59	19765.93	-10476.34
4+195.000	24.30	107.60	18.58	121.59	9397.18	19887.52	-10490.34
4+200.000	21.42	114.31	8.96	68.85	9511.49	19956.37	-10444.88
4+205.000	14.35	89.42	2.79	29.37	9600.91	19985.74	-10384.83



4+207.397	17.11	37.71	1.65	5.32	9638.62	19991.05	-10352.44
4+210.000	0.20	22.53	0.00	2.14	9661.15	19993.20	-10332.05
4+215.000	0.00	0.50	0.00	0.00	9661.65	19993.20	-10331.55
4+220.000	0.00	0.00	0.00	0.00	9661.65	19993.20	-10331.55
4+225.000	0.00	0.00	0.00	0.00	9661.65	19993.20	-10331.55
4+230.000	0.00	0.00	0.00	0.00	9661.65	19993.20	-10331.55



TABULATI DI CALCOLO VOLUMI PIAZZOLE

5+000 a 5+208.00

PIAZZOLA BT5



<u>Station</u>	<u>Cut Area (Sq.m.)</u>	<u>Cut Volume (Cu.m.)</u>	<u>Fill Area (Sq.m.)</u>	<u>Fill Volume (Cu.m.)</u>	<u>Cum. Cut Vol. (Cu.m.)</u>	<u>Cum. Fill Vol. (Cu.m.)</u>	<u>Cum. Net Vol. (Cu.m.)</u>
5+000.000	0.00	0.00	8.64	0.00	0.00	0.00	0.00
5+005.000	0.05	0.13	4.75	33.48	0.13	33.48	-33.35
5+010.000	5.46	13.78	5.43	25.47	13.91	58.94	-45.03
5+015.000	15.35	52.03	6.85	30.71	65.94	89.65	-23.71
5+020.000	18.28	84.08	10.65	43.75	150.02	133.40	16.62
5+025.000	13.41	79.23	13.90	61.37	229.25	194.77	34.48
5+030.000	9.60	57.54	19.35	83.11	286.79	277.88	8.91
5+035.000	6.61	40.53	26.80	115.36	327.33	393.25	-65.92
5+040.000	4.50	27.77	35.57	155.92	355.10	549.16	-194.07
5+045.000	3.55	20.12	43.37	197.35	375.22	746.51	-371.29
5+050.000	2.72	15.67	50.94	235.76	390.89	982.27	-591.39
5+055.000	2.07	11.97	59.19	275.31	402.86	1257.58	-854.72
5+060.000	1.58	9.12	66.93	315.29	411.98	1572.87	-1160.89
5+065.000	1.01	6.46	75.78	356.77	418.44	1929.64	-1511.19
5+070.000	0.88	4.72	80.31	390.21	423.17	2319.85	-1896.68
5+075.000	0.56	3.59	84.75	412.64	426.76	2732.49	-2305.73
5+079.440	0.91	3.26	85.03	376.92	430.02	3109.41	-2679.39
5+080.000	0.98	0.53	84.89	47.57	430.55	3156.98	-2726.43
5+085.000	1.47	6.13	82.29	417.94	436.68	3574.92	-3138.25
5+090.000	2.18	9.14	80.05	405.84	445.82	3980.76	-3534.94
5+095.000	3.23	13.52	76.86	392.27	459.35	4373.03	-3913.69



5+100.000	56.04	148.17	72.60	373.64	607.52	4746.68	-4139.16
5+105.000	141.88	494.80	67.42	350.04	1102.32	5096.72	-3994.40
5+110.000	149.64	728.80	61.96	323.44	1831.13	5420.16	-3589.04
5+115.000	156.96	766.50	54.09	290.12	2597.63	5710.29	-3112.66
5+119.669	162.04	744.67	47.24	236.55	3342.30	5946.83	-2604.53
5+120.000	162.10	53.68	46.80	15.57	3395.98	5962.41	-2566.42
5+125.000	160.78	807.21	39.21	215.02	4203.19	6177.42	-1974.23
5+130.000	153.68	786.16	33.05	180.64	4989.34	6358.06	-1368.71
5+135.000	142.28	739.91	29.87	157.28	5729.26	6515.34	-786.08
5+140.000	128.77	677.62	27.37	143.09	6406.88	6658.43	-251.55
5+145.000	111.93	601.74	25.05	131.06	7008.62	6789.48	219.14
5+150.000	92.66	511.47	23.35	121.01	7520.10	6910.49	609.60
5+155.000	73.95	416.53	21.21	111.40	7936.63	7021.89	914.74
5+160.000	58.20	330.38	17.85	97.65	8267.00	7119.54	1147.47
5+165.000	49.25	268.61	16.17	85.04	8535.62	7204.58	1331.03
5+170.000	39.19	221.10	15.93	80.24	8756.72	7284.82	1471.89
5+175.000	29.31	171.26	16.86	81.96	8927.98	7366.78	1561.19
5+177.000	24.31	53.62	17.60	34.45	8981.60	7401.24	1580.36
5+180.000	12.60	55.35	19.26	55.28	9036.95	7456.52	1580.43
5+185.000	3.81	41.02	24.23	108.71	9077.98	7565.23	1512.75
5+190.000	0.00	9.53	38.68	157.26	9087.51	7722.49	1365.02
5+193.000	0.00	0.00	51.57	135.37	9087.51	7857.86	1229.65
5+195.000	0.00	0.00	14.26	65.83	9087.51	7923.69	1163.82



5+200.000	0.00	0.00	0.00	35.66	9087.51	7959.35	1128.16
5+205.000	0.00	0.00	0.00	0.00	9087.51	7959.35	1128.16



TABULATI DI CALCOLO VOLUMI PIAZZOLE

6+000 a 6+210.00

PIAZZOLA BT6



Station	Cut Area (Sq.m.)	Cut Volume (Cu.m.)	Fill Area (Sq.m.)	Fill Volume (Cu.m.)	Cum. Cut Vol. (Cu.m.)	Cum. Fill Vol. (Cu.m.)	Cum. Net Vol. (Cu.m.)
6+000.047	8.34	0.00	27.68	0.00	0.00	0.00	0.00
6+005.000	8.37	41.38	41.98	172.53	41.38	172.53	-131.14
6+010.000	6.36	36.83	57.02	247.50	78.21	420.03	-341.81
6+015.000	2.79	22.87	75.33	330.88	101.08	750.90	-649.82
6+020.000	2.42	13.02	69.94	363.17	114.11	1114.08	-999.97
6+025.000	3.98	16.01	63.10	332.61	130.12	1446.68	-1316.57
6+030.000	4.61	21.49	55.76	297.16	151.60	1743.84	-1592.24
6+035.000	4.63	23.10	48.99	261.88	174.70	2005.72	-1831.02
6+040.000	5.78	26.01	44.02	232.52	200.72	2238.24	-2037.52
6+045.000	8.86	36.59	39.07	207.71	237.31	2445.94	-2208.63
6+050.000	11.07	49.83	34.74	184.52	287.14	2630.46	-2343.32
6+055.000	12.17	58.10	32.43	167.93	345.24	2798.39	-2453.15
6+060.000	13.98	65.38	35.80	170.58	410.62	2968.97	-2558.35
6+065.000	14.17	70.38	44.17	199.94	481.00	3168.91	-2687.91
6+070.000	11.55	64.29	58.21	255.97	545.29	3424.88	-2879.59
6+075.000	8.89	51.08	72.51	326.80	596.37	3751.69	-3155.32
6+080.000	8.34	43.06	70.93	358.59	639.42	4110.28	-3470.85
6+085.000	11.67	50.02	45.34	290.67	689.44	4400.94	-3711.50
6+090.000	21.96	84.09	17.36	156.74	773.53	4557.68	-3784.16
6+095.000	40.54	156.27	13.10	76.15	929.80	4633.84	-3704.04
6+100.000	64.24	261.96	51.26	160.91	1191.76	4794.75	-3602.99



6+105.000	85.92	375.38	97.81	372.67	1567.14	5167.42	-3600.28
6+110.000	95.12	452.59	83.75	453.89	2019.73	5621.31	-3601.58
6+115.000	99.32	486.10	71.83	388.96	2505.82	6010.27	-3504.45
6+120.000	101.65	502.42	62.24	335.18	3008.24	6345.45	-3337.21
6+125.000	103.74	513.47	58.09	300.82	3521.71	6646.27	-3124.56
6+130.000	105.02	521.89	57.46	288.86	4043.60	6935.13	-2891.52
6+135.000	106.59	529.01	55.19	281.61	4572.62	7216.74	-2644.12
6+136.520	107.52	162.72	54.78	83.58	4735.34	7300.32	-2564.97
6+140.000	106.95	373.17	53.86	189.03	5108.51	7489.34	-2380.83
6+145.000	106.43	533.45	48.57	256.07	5641.97	7745.41	-2103.45
6+150.000	106.96	533.48	45.48	235.12	6175.44	7980.54	-1805.09
6+151.602	106.95	171.33	45.35	72.75	6346.77	8053.28	-1706.51
6+155.000	107.19	363.85	46.03	155.25	6710.62	8208.53	-1497.91
6+160.000	108.51	539.26	48.90	237.32	7249.89	8445.86	-1195.97
6+165.000	110.26	546.93	51.58	251.19	7796.82	8697.05	-900.23
6+170.000	109.68	549.84	53.11	261.72	8346.66	8958.77	-612.11
6+175.000	103.21	532.22	58.18	278.22	8878.88	9236.99	-358.11
6+177.013	100.52	205.04	62.86	121.82	9083.93	9358.81	-274.88
6+180.000	98.00	296.52	58.54	181.32	9380.44	9540.12	-159.68
6+185.000	96.79	486.99	38.09	241.56	9867.43	9781.68	85.75
6+190.000	89.68	466.19	48.49	216.44	10333.62	9998.12	335.50
6+195.000	57.49	367.93	35.48	209.92	10701.56	10208.04	493.52
6+200.000	6.33	159.55	0.00	88.69	10861.10	10296.73	564.37



6+205.000	0.00	15.82	0.00	0.00	10876.93	10296.73	580.19	
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TABULATI DI CALCOLO VOLUMI PIAZZOLE

7+000 a 7+209.00

PIAZZOLA BT7



<u>Station</u>	<u>Cut Area (Sq.m.)</u>	<u>Cut Volume (Cu.m.)</u>	<u>Fill Area (Sq.m.)</u>	<u>Fill Volume (Cu.m.)</u>	<u>Cum. Cut Vol. (Cu.m.)</u>	<u>Cum. Fill Vol. (Cu.m.)</u>	<u>Cum. Net Vol. (Cu.m.)</u>
7+000.000	5.26	0.00	0.89	0.00	0.00	0.00	0.00
7+005.000	3.12	20.96	10.75	29.09	20.96	29.09	-8.13
7+010.000	1.64	11.89	30.73	103.70	32.85	132.79	-99.94
7+015.000	3.94	13.95	49.53	200.67	46.80	333.45	-286.65
7+020.000	7.05	27.49	44.24	234.44	74.29	567.89	-493.60
7+025.000	5.57	31.55	55.19	248.59	105.84	816.48	-710.64
7+030.000	6.56	30.32	56.50	279.24	136.16	1095.72	-959.56
7+035.000	4.36	27.31	57.11	284.03	163.46	1379.74	-1216.28
7+040.000	10.01	35.94	56.72	284.56	199.40	1664.31	-1464.90
7+045.000	11.84	54.62	57.65	285.92	254.02	1950.22	-1696.20
7+050.000	14.52	65.90	55.37	282.54	319.92	2232.77	-1912.84
7+055.000	17.93	81.13	51.54	267.27	401.05	2500.04	-2098.99
7+060.000	21.22	97.86	48.09	249.08	498.91	2749.12	-2250.21
7+065.000	24.47	114.22	46.52	236.53	613.13	2985.64	-2372.52
7+070.000	28.04	131.28	38.17	211.73	744.41	3197.37	-2452.96
7+075.000	32.88	152.31	31.53	174.26	896.71	3371.63	-2474.92
7+080.000	38.03	177.28	27.86	148.48	1073.99	3520.12	-2446.13
7+085.000	43.70	204.33	22.44	125.77	1278.31	3645.88	-2367.57
7+090.000	49.42	232.80	17.27	99.27	1511.12	3745.16	-2234.04
7+095.000	54.62	260.10	10.81	70.20	1771.22	3815.35	-2044.13



7+100.000	62.42	292.59	6.70	43.78	2063.81	3859.13	-1795.32
7+105.000	70.51	332.33	146.75	383.61	2396.14	4242.75	-1846.61
7+110.000	76.40	367.27	138.12	712.16	2763.41	4954.91	-2191.50
7+115.000	86.76	407.90	133.25	678.42	3171.31	5633.33	-2462.02
7+120.000	93.18	449.86	129.89	657.85	3621.18	6291.18	-2670.00
7+125.000	96.63	474.53	127.57	643.65	4095.71	6934.83	-2839.12
7+130.000	99.99	491.54	122.11	624.20	4587.26	7559.04	-2971.78
7+135.000	103.67	509.14	110.97	582.69	5096.39	8141.73	-3045.34
7+140.000	110.59	535.65	107.71	546.69	5632.04	8688.42	-3056.38
7+145.000	120.95	578.84	102.18	524.73	6210.88	9213.16	-3002.27
7+150.000	128.79	624.35	93.71	489.73	6835.23	9702.88	-2867.65
7+155.000	134.35	657.86	91.39	462.74	7493.10	10165.62	-2672.53
7+160.000	138.32	681.69	88.79	450.45	8174.78	10616.08	-2441.30
7+165.000	137.88	690.51	85.49	435.71	8865.29	11051.79	-2186.49
7+170.000	138.40	690.69	86.73	430.55	9555.98	11482.34	-1926.36
7+175.000	136.71	687.76	90.40	442.84	10243.74	11925.18	-1681.43
7+177.011	135.08	273.32	70.22	161.53	10517.07	12086.71	-1569.64
7+180.000	130.77	397.27	58.37	192.16	10914.34	12278.87	-1364.53
7+185.000	123.37	635.34	48.61	267.45	11549.68	12546.32	-996.64
7+190.000	117.31	601.70	47.67	240.70	12151.38	12787.03	-635.64
7+193.016	112.78	347.00	22.55	105.89	12498.38	12892.92	-394.54
7+195.000	69.41	180.72	24.91	47.08	12679.10	12940.00	-260.90
7+200.000	2.87	180.68	12.99	94.76	12859.78	13034.76	-174.98



7+205.000	0.00	7.17	5.64	46.59	12866.95	13081.35	-214.40	
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TABULATI DI CALCOLO VOLUMI STRADE

8+000 a 8+315.00

Da Nodo 1 a 2



<u>Station</u>	<u>Cut Area (Sq.m.)</u>	<u>Cut Volume (Cu.m.)</u>	<u>Fill Area (Sq.m.)</u>	<u>Fill Volume (Cu.m.)</u>	<u>Cum. Cut Vol. (Cu.m.)</u>	<u>Cum. Fill Vol. (Cu.m.)</u>	<u>Cum. Net Vol. (Cu.m.)</u>	
8+005.000	0.00	0.00	6.21	0.00	0.00	0.00	0.00	
8+010.000	1.54	3.85	6.60	32.03	3.85	32.03	-28.18	
8+015.000	11.55	32.71	6.66	33.15	36.56	65.18	-28.61	
8+020.000	16.99	71.35	10.67	43.33	107.91	108.51	-0.60	
8+040.000	5.74	33.52	1.99	-27.51	141.43	81.00	60.43	
8+055.000	0.00	46.20	4.81	44.60	187.63	125.60	62.03	
8+060.000	0.00	0.00	7.32	30.31	187.63	155.91	31.73	
8+065.000	0.00	0.00	7.80	37.79	187.63	193.69	-6.06	
8+070.000	0.00	0.00	5.88	34.20	187.63	227.90	-40.26	
8+075.000	0.00	0.00	5.37	28.12	187.63	256.02	-68.39	
8+080.000	0.10	0.25	4.66	25.07	187.88	281.10	-93.21	
8+085.000	1.71	4.52	1.52	15.46	192.41	296.55	-104.15	
8+095.000	0.25	9.95	1.99	16.93	202.36	313.48	-111.12	
8+100.000	0.00	0.62	9.49	28.70	202.98	342.18	-139.20	
8+105.000	0.00	0.00	14.92	61.02	202.98	403.20	-200.22	
8+110.000	0.00	0.00	19.47	85.97	202.99	489.17	-286.18	
8+115.000	0.00	0.00	23.53	107.50	202.99	596.67	-393.68	
8+120.000	0.00	0.00	19.02	106.38	202.99	703.05	-500.05	
8+125.000	0.00	0.00	13.07	80.22	202.99	783.27	-580.28	
8+130.000	0.00	0.00	10.87	59.85	202.99	843.11	-640.12	
8+135.000	0.00	0.00	9.19	50.14	202.99	893.25	-690.26	



8+140.000	0.00	0.00	6.55	39.36	202.99	932.61	-729.62
8+145.000	0.00	0.00	6.59	33.16	202.99	965.77	-762.78
8+150.000	0.00	0.00	2.44	22.57	202.99	988.34	-785.35
8+155.000	0.21	0.52	0.66	7.73	203.51	996.07	-792.56
8+160.000	0.99	3.00	0.10	1.90	206.51	997.97	-791.46
8+165.000	0.90	4.74	0.07	0.43	211.25	998.39	-787.14
8+170.000	1.07	4.92	0.11	0.43	216.17	998.83	-782.65
8+175.000	1.05	5.18	0.47	1.53	221.35	1000.36	-779.01
8+180.000	1.68	6.81	0.10	1.43	228.17	1001.79	-773.63
8+190.000	1.08	13.72	0.19	1.45	241.89	1003.24	-761.35
8+195.000	0.00	2.71	3.66	9.62	244.59	1012.86	-768.27
8+200.000	0.00	0.00	9.38	32.60	244.59	1045.46	-800.87
8+205.000	0.00	0.00	12.17	53.87	244.59	1099.34	-854.74
8+210.000	0.00	0.00	18.36	76.32	244.59	1175.66	-931.07
8+215.000	0.00	0.00	25.58	109.85	244.59	1285.51	-1040.92
8+220.000	0.00	0.00	27.74	133.30	244.59	1418.81	-1174.22
8+225.000	0.00	0.00	30.88	137.01	244.59	1555.83	-1311.23
8+230.000	0.00	0.00	31.45	155.83	244.59	1711.65	-1467.06
8+235.000	0.00	0.00	28.37	149.55	244.59	1861.21	-1616.61
8+240.000	0.00	0.00	23.71	124.93	244.59	1986.14	-1741.55
8+245.000	0.00	0.00	12.44	90.38	244.59	2076.51	-1831.92
8+250.000	0.00	0.00	3.67	40.27	244.59	2116.79	-1872.20
8+255.000	1.18	3.06	0.18	9.17	247.66	2125.96	-1878.30



8+260.000	5.44	16.55	0.00	0.44	264.21	2126.40	-1862.19
8+265.000	10.57	40.02	0.00	0.00	304.23	2126.40	-1822.17
8+270.000	14.15	61.79	0.00	0.00	366.02	2126.40	-1760.38
8+275.000	16.22	75.92	0.00	0.00	441.95	2126.40	-1684.45
8+280.000	16.89	82.79	0.00	0.00	524.74	2126.40	-1601.66
8+285.000	14.58	78.68	0.00	0.00	603.42	2126.40	-1522.98
8+290.000	0.00	34.70	0.00	0.00	638.12	2126.40	-1488.28
8+295.000	9.25	23.13	0.00	0.00	661.24	2126.40	-1465.16
8+300.000	6.00	34.12	0.00	0.00	695.37	2126.40	-1431.03
8+305.000	3.46	23.65	0.04	0.10	719.01	2126.50	-1407.48
8+310.000	1.90	13.39	0.51	1.37	732.40	2127.87	-1395.46
8+315.000	0.00	4.74	0.90	3.53	737.14	2131.39	-1394.25



TABULATI DI CALCOLO VOLUMI STRADE

9+000 a 9+277.00

Da Nodo 3 a 4



<u>Station</u>	<u>Cut Area (Sq.m.)</u>	<u>Cut Volume (Cu.m.)</u>	<u>Fill Area (Sq.m.)</u>	<u>Fill Volume (Cu.m.)</u>	<u>Cum. Cut Vol. (Cu.m.)</u>	<u>Cum. Fill Vol. (Cu.m.)</u>	<u>Cum. Net Vol. (Cu.m.)</u>	
9+005.000	0.00	0.00	18.79	0.00	0.00	0.00	0.00	
9+010.000	0.00	0.00	32.30	127.73	0.00	127.73	-127.73	
9+015.000	0.00	0.00	46.51	197.04	0.00	324.76	-324.76	
9+020.000	0.00	0.00	61.00	268.77	0.00	593.53	-593.53	
9+025.000	0.00	0.00	74.45	338.61	0.00	932.14	-932.14	
9+030.000	0.00	0.00	84.82	398.16	0.00	1330.29	-1330.29	
9+040.000	0.00	0.00	64.62	741.17	0.00	2071.47	-2071.47	
9+055.000	0.00	0.03	12.40	572.56	0.03	2644.03	-2644.00	
9+060.000	0.73	1.82	3.18	38.96	1.85	2682.99	-2681.14	
9+065.000	3.47	10.48	0.18	8.40	12.33	2691.39	-2679.06	
9+070.000	6.68	25.37	0.00	0.45	37.70	2691.84	-2654.14	
9+080.000	14.52	105.99	0.00	0.00	143.69	2691.84	-2548.15	
9+085.000	14.14	71.64	0.00	0.00	215.34	2691.84	-2476.50	
9+090.000	11.25	63.48	0.00	0.00	278.82	2691.84	-2413.02	
9+095.000	10.19	53.60	0.00	0.00	332.42	2691.84	-2359.42	
9+100.000	10.91	52.75	0.00	0.00	385.17	2691.84	-2306.67	
9+105.000	11.94	57.13	0.00	0.00	442.30	2691.84	-2249.54	
9+110.000	14.13	65.18	0.00	0.00	507.49	2691.84	-2184.35	
9+115.000	11.84	64.93	0.00	0.00	572.42	2691.84	-2119.42	
9+120.000	0.00	29.60	0.00	0.00	602.01	2691.84	-2089.83	
9+125.000	0.00	0.00	11.54	28.85	602.01	2720.69	-2118.68	



9+130.000	0.00	0.00	0.00	28.85	602.01	2749.55	-2147.53
9+135.000	0.00	0.00	4.81	12.03	602.01	2761.57	-2159.56
9+140.000	0.56	1.39	1.13	14.85	603.41	2776.43	-2173.02
9+145.000	2.62	7.94	0.01	2.86	611.34	2779.28	-2167.94
9+150.000	4.58	17.99	0.00	0.03	629.33	2779.31	-2149.98
9+155.000	5.46	25.09	0.00	0.00	654.42	2779.31	-2124.89
9+160.000	7.77	33.76	0.00	0.00	688.18	2779.31	-2091.13
9+175.000	12.03	151.60	0.00	0.00	839.79	2779.31	-1939.53
9+180.000	0.00	30.44	0.00	0.00	870.22	2779.31	-1909.09
9+190.000	6.87	34.51	0.00	0.00	904.73	2779.31	-1874.59
9+195.000	10.42	43.23	0.00	0.00	947.96	2779.31	-1831.35
9+200.000	13.44	59.77	0.00	0.00	1007.74	2779.31	-1771.58
9+205.000	14.41	69.66	0.00	0.00	1077.40	2779.31	-1701.92
9+210.000	14.32	71.82	0.00	0.00	1149.22	2779.31	-1630.10
9+215.000	13.81	70.34	0.00	0.00	1219.55	2779.31	-1559.76
9+220.000	15.30	72.79	0.00	0.00	1292.34	2779.31	-1486.97
9+230.000	16.45	159.47	0.00	0.00	1451.82	2779.31	-1327.50
9+235.000	13.28	74.34	0.00	0.00	1526.16	2779.31	-1253.16
9+240.000	13.06	65.85	0.00	0.00	1592.01	2779.31	-1187.31
9+250.000	13.45	133.17	0.00	0.00	1725.18	2779.31	-1054.13
9+255.000	10.48	59.83	0.00	0.00	1785.01	2779.31	-994.30
9+260.000	5.09	38.94	0.00	0.00	1823.95	2779.31	-955.36
9+275.000	2.47	55.36	0.06	0.37	1879.32	2779.68	-900.37



TABULATI DI CALCOLO VOLUMI STRADE

10+000 a 10+125.00

Da Nodo 7a a 8a



<u>Station</u>	<u>Cut Area</u> <u>(Sq.m.)</u>	<u>Cut Volume</u> <u>(Cu.m.)</u>	<u>Fill Area</u> <u>(Sq.m.)</u>	<u>Fill Volume</u> <u>(Cu.m.)</u>	<u>Cum. Cut Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Fill Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Net Vol.</u> <u>(Cu.m.)</u>	
10+020.000	9.96	0.00	14.31	0.00	0.00	0.00	0.00	
10+040.000	8.51	183.62	2.19	166.90	183.62	166.90	16.71	
10+060.000	5.27	132.92	12.36	158.09	316.53	324.99	-8.46	
10+080.000	12.43	169.57	5.28	204.72	486.10	529.71	-43.60	
10+100.000	31.62	435.94	0.17	65.17	922.04	594.87	327.17	
10+120.000	24.03	521.56	0.00	1.06	1443.60	595.94	847.66	
10+125.000	5.56	73.98	0.05	0.13	1517.58	596.07	921.51	



TABULATI DI CALCOLO VOLUMI STRADE

11+000 a 11+089.00

Da Nodo 7b a 8b



<u>Station</u>	<u>Cut Area</u> <u>(Sq.m.)</u>	<u>Cut Volume</u> <u>(Cu.m.)</u>	<u>Fill Area</u> <u>(Sq.m.)</u>	<u>Fill Volume</u> <u>(Cu.m.)</u>	<u>Cum. Cut Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Fill Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Net Vol.</u> <u>(Cu.m.)</u>	
11+020.000	5.46	0.00	13.03	0.00	0.00	0.00	0.00	
11+040.000	12.08	128.55	7.87	218.08	128.55	218.08	-89.53	
11+060.000	14.93	209.93	2.64	103.49	338.48	321.58	16.90	
11+070.000	35.91	333.41	0.08	16.40	671.89	337.98	333.91	
11+075.000	25.09	152.49	0.08	0.39	824.38	338.37	486.01	
11+080.000	21.26	115.87	0.00	0.20	940.25	338.57	601.68	
11+085.000	26.29	118.88	0.00	0.00	1059.13	338.57	720.57	



TABULATI DI CALCOLO VOLUMI STRADE

14+000 a 16+365.00

Da Nodo 11 a 12



Station	Cut Area (Sq.m.)	Cut Volume (Cu.m.)	Fill Area (Sq.m.)	Fill Volume (Cu.m.)	Cum. Cut Vol. (Cu.m.)	Cum. Fill Vol. (Cu.m.)	Cum. Net Vol. (Cu.m.)	
14+020.000	4.59	0.00	0.45	0.00	0.00	0.00	0.00	
14+040.000	27.64	337.43	0.00	4.08	337.43	4.08	333.35	
14+045.000	22.05	122.76	0.00	0.00	460.19	4.08	456.11	
14+050.000	11.55	83.99	0.00	0.00	544.18	4.08	540.10	
14+055.000	3.71	38.16	0.00	0.00	582.34	4.08	578.26	
14+060.000	0.56	10.61	0.00	0.00	592.94	4.08	588.86	
14+065.000	0.83	3.40	0.04	0.11	596.35	4.19	592.15	
14+070.000	2.85	9.19	0.00	0.11	605.53	4.30	601.23	
14+080.000	3.23	30.53	0.00	0.00	636.07	4.30	631.77	
14+085.000	2.79	15.03	0.00	0.00	651.10	4.30	646.80	
14+095.000	1.26	20.47	0.00	0.00	671.57	4.31	667.26	
14+100.000	1.39	6.62	0.00	0.00	678.19	4.31	673.88	
14+105.000	0.59	4.96	0.41	1.04	683.15	5.35	677.80	
14+110.000	0.40	2.49	2.33	6.86	685.64	12.21	673.43	
14+115.000	0.17	1.43	3.69	15.06	687.07	27.27	659.80	
14+120.000	0.00	0.42	6.92	26.52	687.49	53.79	633.70	
14+125.000	0.00	0.00	7.51	36.06	687.49	89.85	597.64	
14+130.000	0.00	0.00	7.61	37.81	687.49	127.67	559.83	
14+135.000	0.00	0.00	7.39	37.51	687.49	165.18	522.32	
14+140.000	0.00	0.00	6.61	35.01	687.49	200.19	487.31	
14+160.000	0.67	6.74	0.03	66.35	694.23	266.53	427.70	



14+180.000	8.87	95.58	0.00	0.28	789.81	266.81	523.00
14+200.000	8.20	171.05	0.00	0.00	960.86	266.81	694.05
14+220.000	16.53	251.16	0.14	1.37	1212.02	268.18	943.84
14+240.000	115.33	1400.09	0.00	1.37	2612.12	269.55	2342.57
14+260.000	124.60	2607.25	0.00	0.00	5219.37	269.55	4949.82
14+280.000	26.59	1440.71	0.00	0.00	6660.07	269.55	6390.52
14+300.000	5.90	314.45	0.00	0.00	6974.53	269.55	6704.98
14+320.000	0.49	63.25	0.34	3.41	7037.78	272.96	6764.82
14+340.000	0.13	6.14	0.88	12.18	7043.92	285.14	6758.79
14+360.000	1.58	16.95	0.00	8.77	7060.88	293.91	6766.97
14+380.000	0.00	15.78	0.00	0.00	7076.66	293.91	6782.75
14+400.000	2.52	25.41	0.00	0.00	7102.06	293.91	6808.15
14+405.000	2.21	11.83	0.00	0.00	7113.89	293.91	6819.98
14+410.000	1.11	8.30	0.00	0.00	7122.19	293.91	6828.29
14+415.000	0.15	3.16	0.82	2.04	7125.36	295.95	6829.41
14+420.000	0.58	1.83	0.14	2.39	7127.19	298.34	6828.85
14+425.000	2.13	6.79	0.00	0.36	7133.97	298.70	6835.27
14+430.000	3.81	14.86	0.00	0.00	7148.84	298.70	6850.14
14+435.000	5.58	23.49	0.00	0.00	7172.33	298.70	6873.63
14+440.000	7.81	33.50	0.00	0.00	7205.83	298.70	6907.13
14+445.000	10.63	46.10	0.00	0.00	7251.93	298.70	6953.23
14+450.000	13.86	61.22	0.00	0.00	7313.14	298.70	7014.45
14+455.000	12.89	66.88	0.00	0.00	7380.02	298.70	7081.32



14+460.000	10.40	58.22	0.00	0.00	7438.24	298.70	7139.54
14+465.000	8.32	46.81	0.00	0.00	7485.05	298.70	7186.35
14+470.000	6.71	37.58	0.00	0.00	7522.62	298.70	7223.92
14+475.000	5.52	30.56	0.00	0.00	7553.18	298.70	7254.49
14+480.000	4.69	25.53	0.00	0.00	7578.72	298.70	7280.02
14+485.000	4.18	22.18	0.00	0.00	7600.90	298.70	7302.20
14+490.000	3.88	20.16	0.00	0.00	7621.05	298.70	7322.36
14+495.000	3.61	18.74	0.00	0.00	7639.80	298.70	7341.10
14+500.000	3.21	17.06	0.00	0.00	7656.86	298.70	7358.16
14+505.000	2.78	14.98	0.00	0.00	7671.84	298.70	7373.14
14+510.000	1.93	11.78	0.00	0.00	7683.62	298.70	7384.92
14+515.000	1.11	7.61	0.00	0.00	7691.23	298.70	7392.53
14+520.000	0.63	4.34	0.04	0.10	7695.57	298.80	7396.77
14+525.000	0.32	2.38	0.06	0.25	7697.95	299.04	7398.91
14+530.000	0.56	2.20	0.12	0.45	7700.15	299.49	7400.65
14+535.000	1.73	5.72	0.00	0.30	7705.87	299.79	7406.07
14+540.000	3.01	11.84	0.00	0.00	7717.71	299.79	7417.92
14+545.000	4.16	17.91	0.00	0.00	7735.62	299.79	7435.83
14+550.000	5.42	23.94	0.00	0.00	7759.56	299.79	7459.76
14+555.000	6.86	30.69	0.00	0.00	7790.25	299.79	7490.45
14+560.000	8.47	38.32	0.00	0.00	7828.57	299.79	7528.78
14+580.000	11.10	196.85	0.00	0.00	8025.42	299.79	7725.63
14+600.000	6.14	174.68	0.68	6.71	8200.11	306.50	7893.60



14+620.000	0.94	72.19	3.00	36.28	8272.30	342.78	7929.52
14+640.000	3.65	46.65	0.24	31.88	8318.94	374.66	7944.28
14+660.000	3.82	75.83	0.10	3.32	8394.77	377.99	8016.78
14+680.000	0.97	48.14	1.97	20.63	8442.91	398.62	8044.29
14+700.000	0.98	19.34	1.53	35.23	8462.25	433.85	8028.40
14+720.000	2.31	32.68	0.38	19.22	8494.93	453.07	8041.87
14+740.000	4.66	69.27	0.01	3.97	8564.20	457.03	8107.17
14+760.000	12.58	171.62	0.00	0.14	8735.82	457.17	8278.64
14+780.000	14.92	273.88	0.00	0.00	9009.69	457.17	8552.52
14+790.000	11.86	132.42	0.00	0.00	9142.11	457.17	8684.94
14+795.000	14.10	64.92	0.00	0.00	9207.03	457.17	8749.85
14+800.000	16.50	76.52	0.00	0.00	9283.55	457.17	8826.37
14+805.000	19.10	89.02	0.00	0.00	9372.57	457.17	8915.39
14+810.000	21.83	102.34	0.00	0.00	9474.91	457.17	9017.74
14+815.000	23.40	113.09	0.00	0.00	9588.00	457.17	9130.83
14+820.000	23.22	116.55	0.00	0.00	9704.55	457.17	9247.38
14+825.000	23.03	115.61	0.00	0.00	9820.16	457.17	9362.99
14+830.000	22.95	114.95	0.00	0.00	9935.11	457.17	9477.94
14+835.000	24.15	117.76	0.00	0.00	10052.87	457.17	9595.69
14+840.000	26.37	126.30	0.00	0.00	10179.17	457.17	9721.99
14+845.000	29.32	139.22	0.00	0.00	10318.38	457.17	9861.21
14+850.000	33.30	156.54	0.00	0.00	10474.93	457.17	10017.75
14+855.000	38.21	178.77	0.00	0.00	10653.69	457.17	10196.52



14+860.000	39.59	194.49	0.00	0.00	10848.19	457.17	10391.02
14+865.000	35.29	187.21	0.00	0.00	11035.40	457.17	10578.22
14+870.000	33.51	172.02	0.00	0.00	11207.42	457.17	10750.24
14+875.000	34.31	169.56	0.00	0.00	11376.98	457.17	10919.81
14+880.000	34.61	172.30	0.00	0.00	11549.28	457.17	11092.11
14+885.000	34.15	171.91	0.00	0.00	11721.19	457.17	11264.02
14+890.000	33.54	169.23	0.00	0.00	11890.42	457.17	11433.24
14+895.000	32.58	165.30	0.00	0.00	12055.71	457.17	11598.54
14+900.000	29.51	155.23	0.00	0.00	12210.95	457.17	11753.77
14+905.000	25.57	137.70	0.00	0.00	12348.65	457.17	11891.48
14+910.000	23.50	122.68	0.08	0.21	12471.33	457.38	12013.94
14+915.000	21.86	113.40	0.18	0.65	12584.72	458.03	12126.69
14+920.000	24.04	114.75	0.00	0.45	12699.47	458.48	12240.99
14+925.000	24.50	127.12	0.00	0.00	12826.59	458.49	12368.10
14+930.000	25.10	124.01	0.00	0.00	12950.60	458.49	12492.11
14+935.000	27.05	130.39	0.00	0.00	13080.99	458.49	12622.50
14+940.000	30.74	144.49	0.00	0.00	13225.48	458.49	12766.99
14+950.000	38.67	362.81	0.00	0.00	13588.29	458.49	13129.80
14+955.000	42.57	203.11	0.00	0.00	13791.39	458.49	13332.91
14+960.000	46.68	223.12	0.00	0.00	14014.52	458.49	13556.03
14+965.000	52.50	247.94	0.00	0.00	14262.46	458.49	13803.97
14+970.000	59.72	280.54	0.00	0.00	14543.00	458.49	14084.52
14+980.000	61.13	665.43	0.00	0.00	15208.43	458.49	14749.94



15+000.000	5.30	724.68	0.00	0.00	15933.11	458.49	15474.62
15+020.000	0.00	54.21	27.75	282.61	15987.32	741.10	15246.22
15+040.000	0.00	0.00	37.02	675.07	15987.32	1416.17	14571.15
15+050.000	0.00	0.00	32.45	368.07	15987.32	1784.24	14203.08
15+055.000	0.00	0.00	27.47	149.80	15987.32	1934.04	14053.28
15+060.000	0.00	0.00	19.81	118.18	15987.32	2052.23	13935.10
15+065.000	0.00	0.00	14.09	84.73	15987.32	2136.96	13850.36
15+070.000	0.00	0.00	10.17	60.64	15987.32	2197.60	13789.73
15+075.000	0.00	0.02	6.49	41.64	15987.34	2239.24	13748.10
15+080.000	0.09	0.25	3.58	25.18	15987.58	2264.42	13723.17
15+085.000	0.40	1.24	1.73	13.29	15988.83	2277.71	13711.11
15+090.000	1.30	4.26	0.46	5.48	15993.08	2283.19	13709.89
15+095.000	3.52	12.05	0.00	1.15	16005.14	2284.34	13720.80
15+100.000	6.56	25.20	0.00	0.00	16030.34	2284.34	13746.00
15+105.000	10.15	41.78	0.00	0.00	16072.11	2284.34	13787.77
15+110.000	14.55	61.76	0.00	0.00	16133.87	2284.34	13849.53
15+120.000	21.62	182.79	0.00	0.00	16316.67	2284.34	14032.33
15+140.000	17.57	398.71	0.00	0.00	16715.38	2284.34	14431.04
15+160.000	15.01	326.52	0.00	0.00	17041.90	2284.34	14757.56



<u>Station</u>	<u>Cut Area (Sq.m.)</u>	<u>Cut Volume (Cu.m.)</u>	<u>Fill Area (Sq.m.)</u>	<u>Fill Volume (Cu.m.)</u>	<u>Cum. Cut Vol. (Cu.m.)</u>	<u>Cum. Fill Vol. (Cu.m.)</u>	<u>Cum. Net Vol. (Cu.m.)</u>	
16+005.000	8.95	0.00	1.23	0.00	0.00	0.00	0.00	
16+010.000	13.90	57.12	0.03	3.17	57.12	3.17	53.95	
16+015.000	19.50	83.49	0.00	0.09	140.60	3.25	137.35	
16+020.000	26.11	114.03	0.00	0.00	254.63	3.25	251.37	
16+025.000	31.85	144.92	0.00	0.00	399.55	3.25	396.29	
16+030.000	31.84	159.24	0.00	0.00	558.79	3.25	555.54	
16+035.000	29.25	152.73	0.00	0.00	711.51	3.25	708.26	
16+040.000	26.11	138.39	0.00	0.00	849.91	3.25	846.66	
16+045.000	16.20	105.77	0.00	0.00	955.68	3.25	952.43	
16+050.000	9.55	66.74	0.39	0.95	1022.42	4.20	1018.22	
16+055.000	17.35	67.27	2.25	6.59	1089.69	10.79	1078.90	
16+060.000	26.80	110.37	4.22	16.18	1200.06	26.97	1173.08	
16+065.000	48.66	188.64	3.69	19.78	1388.70	46.76	1341.95	
16+070.000	63.80	281.16	7.01	26.75	1669.87	73.50	1596.36	
16+075.000	29.50	233.25	12.19	48.00	1903.11	121.50	1781.61	
16+080.000	10.57	100.16	17.17	73.41	2003.28	194.91	1808.37	
16+085.000	3.38	34.88	20.68	94.62	2038.16	289.53	1748.63	
16+090.000	0.78	11.17	22.57	107.13	2049.33	396.66	1652.67	
16+095.000	0.11	2.23	20.54	107.77	2051.56	504.43	1547.13	
16+100.000	0.00	0.28	20.31	102.13	2051.84	606.56	1445.28	
16+105.000	0.00	0.00	19.76	100.19	2051.84	706.74	1345.10	



16+110.000	0.00	0.00	19.13	99.11	2051.84	805.85	1245.99
16+115.000	0.00	0.00	23.64	106.91	2051.84	912.76	1139.08
16+120.000	0.00	0.00	36.55	150.46	2051.84	1063.22	988.62
16+125.000	0.00	0.00	34.89	178.60	2051.84	1241.82	810.02
16+135.000	0.00	0.00	29.19	327.74	2051.84	1569.56	482.28
16+140.000	0.00	0.00	26.92	140.28	2051.84	1709.84	342.00
16+145.000	0.00	0.00	23.02	124.86	2051.84	1834.69	217.15
16+150.000	0.00	0.00	17.45	101.17	2051.84	1935.87	115.97
16+160.000	0.00	0.00	9.64	141.91	2051.84	2077.77	-25.94
16+165.000	0.20	0.49	7.33	42.44	2052.33	2120.21	-67.88
16+170.000	0.45	1.61	5.58	32.28	2053.94	2152.49	-98.55
16+175.000	1.12	3.93	3.42	22.50	2057.87	2174.99	-117.13
16+180.000	2.37	8.75	1.75	12.92	2066.61	2187.91	-121.30
16+185.000	4.47	15.35	0.77	6.93	2081.96	2194.84	-112.88
16+190.000	8.51	32.45	0.03	2.00	2114.41	2196.85	-82.43
16+195.000	12.28	51.98	0.00	0.07	2166.40	2196.91	-30.52
16+200.000	14.18	66.14	0.00	0.00	2232.54	2196.91	35.62
16+205.000	14.83	72.53	0.00	0.00	2305.06	2196.91	108.15
16+215.000	11.36	135.14	0.00	0.00	2440.20	2196.91	243.29
16+220.000	7.81	47.93	0.01	0.03	2488.13	2196.95	291.18
16+225.000	8.49	40.77	0.03	0.12	2528.90	2197.06	331.84
16+230.000	9.89	45.96	0.00	0.08	2574.86	2197.15	377.72
16+235.000	10.30	50.48	0.00	0.00	2625.34	2197.15	428.19



16+240.000	10.16	51.14	0.00	0.00	2676.48	2197.15	479.34
16+245.000	9.94	50.25	0.02	0.05	2726.73	2197.20	529.54
16+250.000	9.58	48.80	0.20	0.56	2775.53	2197.76	577.77
16+255.000	8.86	44.73	0.45	1.69	2820.26	2199.45	620.81
16+260.000	8.15	42.53	0.56	2.52	2862.79	2201.98	660.81
16+265.000	7.39	38.84	0.72	3.20	2901.63	2205.18	696.45
16+270.000	6.60	34.98	0.75	3.68	2936.61	2208.85	727.76
16+275.000	5.63	30.58	0.72	3.67	2967.20	2212.53	754.67
16+280.000	4.47	25.26	1.04	4.40	2992.45	2216.93	775.53
16+285.000	3.83	20.77	1.34	5.94	3013.22	2222.86	790.36
16+290.000	3.34	17.92	1.17	6.27	3031.15	2229.13	802.01
16+295.000	3.16	16.24	1.22	5.99	3047.38	2235.12	812.26
16+300.000	3.54	16.75	1.02	5.61	3064.14	2240.73	823.40
16+305.000	4.07	19.04	2.24	8.16	3083.18	2248.89	834.28
16+310.000	4.65	21.82	1.66	9.76	3105.00	2258.65	846.34
16+315.000	4.91	23.92	0.70	5.91	3128.91	2264.57	864.35
16+320.000	1.43	15.84	1.01	4.28	3144.76	2268.84	875.91
16+325.000	1.83	8.14	0.84	4.61	3152.90	2273.45	879.45
16+330.000	2.17	10.00	0.36	2.98	3162.90	2276.43	886.47
16+335.000	3.60	15.14	0.54	2.16	3178.04	2278.60	899.45
16+340.000	5.22	22.06	0.41	2.37	3200.10	2280.96	919.14
16+345.000	7.13	30.88	0.05	1.15	3230.98	2282.11	948.87
16+350.000	6.03	32.90	2.35	5.99	3263.88	2288.10	975.77



16+355.000	6.03	30.15	2.95	13.24	3294.03	2301.35	992.68	
16+360.000	5.95	29.95	3.11	15.15	3323.98	2316.49	1007.48	



TABULATI DI CALCOLO VOLUMI STRADE

12+000 a 12+285.00

Da Nodo 5 a 6



<u>Station</u>	<u>Cut Area (Sq.m.)</u>	<u>Cut Volume (Cu.m.)</u>	<u>Fill Area (Sq.m.)</u>	<u>Fill Volume (Cu.m.)</u>	<u>Cum. Cut Vol. (Cu.m.)</u>	<u>Cum. Fill Vol. (Cu.m.)</u>	<u>Cum. Net Vol. (Cu.m.)</u>	
12+020.000	0.00	0.00	3.53	0.00	0.00	0.00	0.00	
12+040.000	0.91	9.41	0.98	44.61	9.41	44.61	-35.20	
12+060.000	18.02	194.82	0.00	9.48	204.23	54.10	150.14	
12+080.000	16.11	337.90	0.00	0.00	542.14	54.10	488.04	
12+100.000	10.57	256.33	0.48	5.07	798.46	59.16	739.30	
12+120.000	0.95	109.37	3.18	37.89	907.83	97.05	810.79	
12+125.000	0.00	2.06	4.72	22.11	909.89	119.16	790.73	
12+130.000	0.76	1.90	5.27	24.98	911.79	144.13	767.66	
12+135.000	1.87	6.57	3.83	22.76	918.36	166.90	751.47	
12+140.000	3.11	12.45	2.05	14.71	930.81	181.60	749.21	
12+145.000	4.30	18.53	0.66	6.78	949.34	188.39	760.96	
12+150.000	5.18	23.70	2.01	6.69	973.04	195.07	777.97	
12+155.000	2.96	20.36	2.92	12.34	993.40	207.41	785.99	
12+160.000	3.20	15.41	2.87	14.49	1008.81	221.91	786.91	
12+180.000	9.76	134.15	0.12	28.72	1142.96	250.63	892.33	
12+190.000	5.81	79.69	0.00	0.58	1222.65	251.21	971.44	
12+195.000	2.98	21.97	0.25	0.62	1244.62	251.83	992.80	
12+200.000	2.05	12.56	0.31	1.40	1257.18	253.22	1003.96	
12+205.000	1.22	8.16	0.36	1.69	1265.34	254.91	1010.42	
12+210.000	0.34	3.90	0.82	2.94	1269.24	257.86	1011.39	
12+215.000	0.13	1.19	1.58	5.98	1270.43	263.84	1006.60	



12+220.000	0.14	0.70	1.29	7.18	1271.13	271.02	1000.11
12+225.000	0.24	0.95	1.41	6.75	1272.08	277.77	994.31
12+230.000	0.08	0.79	2.64	10.12	1272.88	287.89	984.99
12+235.000	0.08	0.40	2.05	11.73	1273.28	299.63	973.65
12+240.000	0.05	0.34	1.45	8.66	1273.62	308.29	965.33
12+260.000	0.71	7.62	0.00	14.49	1281.23	322.78	958.46
12+280.000	0.38	10.93	0.73	7.29	1292.17	330.06	962.11



TABULATI DI CALCOLO VOLUMI STRADE

13+000 a 13+159.00

Da Nodo 9 a 10



<u>Station</u>	<u>Cut Area (Sq.m.)</u>	<u>Cut Volume (Cu.m.)</u>	<u>Fill Area (Sq.m.)</u>	<u>Fill Volume (Cu.m.)</u>	<u>Cum. Cut Vol. (Cu.m.)</u>	<u>Cum. Fill Vol. (Cu.m.)</u>	<u>Cum. Net Vol. (Cu.m.)</u>	
13+005.000	1.42	0.00	0.26	0.00	0.00	0.00	0.00	
13+010.000	0.84	5.67	0.32	1.47	5.67	1.47	4.20	
13+015.000	3.13	9.93	0.20	1.31	15.60	2.78	12.82	
13+020.000	4.68	19.51	0.22	1.06	35.12	3.84	31.27	
13+025.000	3.95	21.57	1.49	4.29	56.69	8.13	48.56	
13+030.000	3.85	19.50	1.27	6.90	76.19	15.03	61.15	
13+035.000	2.13	14.96	0.47	4.35	91.14	19.38	71.76	
13+040.000	2.66	11.86	0.00	1.23	103.00	20.61	82.40	
13+060.000	9.63	122.89	0.00	0.09	225.90	20.70	205.20	
13+070.000	15.47	125.38	0.00	0.00	351.27	20.70	330.57	
13+075.000	25.85	103.30	0.00	0.00	454.57	20.70	433.87	
13+080.000	30.47	140.79	0.00	0.00	595.36	20.70	574.66	
13+085.000	26.74	143.02	0.00	0.00	738.38	20.70	717.68	
13+090.000	21.11	119.62	0.00	0.00	858.00	20.70	837.30	
13+095.000	14.97	90.19	0.00	0.00	948.19	20.70	927.49	
13+100.000	7.61	56.45	0.00	0.00	1004.63	20.70	983.93	
13+105.000	2.72	25.84	0.00	0.00	1030.47	20.70	1009.77	
13+110.000	0.14	7.16	2.25	5.62	1037.62	26.32	1011.31	
13+115.000	0.06	0.49	6.71	22.39	1038.11	48.71	989.40	
13+120.000	0.47	1.31	8.07	36.95	1039.42	85.66	953.76	
13+140.000	10.68	111.60	0.00	80.26	1151.02	165.92	985.09	



TABULATI DI CALCOLO VOLUMI STRADE

28+000 a 28+192.00



Station	<u>Cut Area</u> <u>(Sq.m.)</u>	<u>Cut Volume</u> <u>(Cu.m.)</u>	<u>Fill Area</u> <u>(Sq.m.)</u>	<u>Fill Volume</u> <u>(Cu.m.)</u>	<u>Cum. Cut Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Fill Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Net Vol.</u> <u>(Cu.m.)</u>	-
28+010.000	0	0	2.72	0	0	0	0	
28+020.000	0	0	5.44	40.86	0	40.86	-40.86	
28+025.000	0	0	6.95	30.99	0	71.85	-71.85	
28+030.000	0	0	9.06	40.04	0	111.9	-111.9	
28+035.000	0	0	12.13	52.99	0	164.88	-164.88	
28+040.000	0	0	12.58	61.78	0	226.66	-226.66	
28+045.000	0	0	12.79	63.43	0	290.09	-290.09	
28+050.000	0	0	12.97	64.41	0	354.51	-354.51	
28+055.000	0	0	13.07	65.12	0	419.62	-419.62	
28+060.000	0	0	13.49	66.41	0	486.04	-486.04	
28+065.000	0	0	14.13	69.04	0	555.08	-555.08	
28+070.000	0	0	13.96	70.22	0	625.3	-625.3	
28+075.000	0	0	13.66	69.07	0	694.36	-694.36	
28+080.000	0	0	13.1	66.91	0	761.27	-761.27	
28+085.000	0	0	13.8	67.26	0	828.53	-828.53	
28+090.000	0	0	14.01	69.54	0	898.07	-898.07	
28+095.000	0	0	14.1	70.29	0	968.36	-968.36	
28+100.000	0	0	13.85	70.34	0	1038.7	-1038.7	
28+105.000	0	0	12.06	65	0	1103.7	-1103.7	
28+120.000	0	0	6.75	140.69	0	1244.39	-1244.39	
28+125.000	0	0	11.31	45.16	0	1289.55	-1289.55	
28+130.000	0.21	0.53	12.12	58.59	0.53	1348.15	-1347.61	
28+135.000	2.23	6.11	7.07	47.99	6.64	1396.14	-1389.5	



28+140.000	1.26	8.72	0	17.69	15.35	1413.83	-1398.47
28+145.000	0	3.14	1.37	3.44	18.5	1417.26	-1398.76
28+150.000	0.04	0.11	0.71	5.21	18.6	1422.47	-1403.86
28+155.000	0.72	1.91	0.07	1.95	20.52	1424.42	-1403.91
28+160.000	2.34	7.64	0	0.18	28.16	1424.6	-1396.44
28+165.000	3.27	14	0	0	42.16	1424.6	-1382.44
28+170.000	5.41	21.7	0	0	63.86	1424.6	-1360.74
28+175.000	8.98	35.99	0	0	99.85	1424.6	-1324.75
28+180.000	20.56	73.86	0	0	173.71	1424.6	-1250.89
28+185.000	23.89	111.13	0	0	284.85	1424.6	-1139.75
28+190.000	26.67	126.39	0	0	411.23	1424.6	-1013.37



TABULATI DI CALCOLO VOLUMI STRADE

17+000 a 17+103.00

Da Nodo 13 a 14



<u>Station</u>	<u>Cut Area</u> <u>(Sq.m.)</u>	<u>Cut Volume</u> <u>(Cu.m.)</u>	<u>Fill Area</u> <u>(Sq.m.)</u>	<u>Fill Volume</u> <u>(Cu.m.)</u>	<u>Cum. Cut Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Fill Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Net Vol.</u> <u>(Cu.m.)</u>	
17+005.000	0.26	0.00	0.41	0.00	0.00	0.00	0.00	
17+010.000	0.10	0.91	0.72	2.83	0.91	2.83	-1.92	
17+015.000	0.56	1.47	0.78	3.90	2.38	6.73	-4.35	
17+020.000	0.54	2.77	1.00	4.47	5.15	11.20	-6.04	
17+025.000	0.89	3.58	0.58	3.95	8.74	15.14	-6.41	
17+030.000	2.78	9.16	0.53	2.76	17.89	17.90	-0.00	
17+035.000	3.74	16.29	1.34	4.67	34.18	22.57	11.61	
17+040.000	3.55	18.24	3.12	11.15	52.42	33.72	18.70	
17+060.000	2.58	43.63	5.26	83.52	96.05	117.24	-21.19	
17+080.000	0.89	23.51	4.80	99.64	119.56	216.88	-97.31	
17+085.000	0.75	4.11	4.41	23.02	123.67	239.89	-116.22	
17+090.000	0.00	1.88	7.39	29.49	125.55	269.39	-143.83	
17+095.000	0.00	0.00	6.26	34.11	125.55	303.50	-177.95	
17+100.000	0.24	0.59	1.91	20.43	126.14	323.93	-197.79	



TABULATI DI CALCOLO VOLUMI STRADE

18+000 a 18+068.00

Da Nodo 15 a 16



<u>Station</u>	<u>Cut Area</u> <u>(Sq.m.)</u>	<u>Cut Volume</u> <u>(Cu.m.)</u>	<u>Fill Area</u> <u>(Sq.m.)</u>	<u>Fill Volume</u> <u>(Cu.m.)</u>	<u>Cum. Cut Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Fill Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Net Vol.</u> <u>(Cu.m.)</u>	
18+005.000	1.08	0.00	0.00	0.00	0.00	0.00	0.00	
18+020.000	6.63	57.68	0.00	0.00	57.68	0.00	57.68	
18+040.000	0.88	74.61	3.00	21.57	132.30	21.57	110.73	
18+050.000	0.00	4.51	2.64	22.07	136.81	43.64	93.17	
18+055.000	0.00	0.00	4.32	17.40	136.81	61.04	75.77	
18+060.000	0.02	0.05	2.42	16.87	136.86	77.91	58.95	
18+065.000	0.39	1.02	0.92	8.36	137.87	86.26	51.61	



TABULATI DI CALCOLO VOLUMI STRADE

19+000 a 19+120.00

Da Nodo 17 a 18



<u>Station</u>	<u>Cut Area</u> <u>(Sq.m.)</u>	<u>Cut Volume</u> <u>(Cu.m.)</u>	<u>Fill Area</u> <u>(Sq.m.)</u>	<u>Fill Volume</u> <u>(Cu.m.)</u>	<u>Cum. Cut Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Fill Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Net Vol.</u> <u>(Cu.m.)</u>	
19+020.000	1.92	0.00	0.07	0.00	0.00	0.00	0.00	
19+030.000	0.51	11.87	0.56	3.20	11.87	3.20	8.66	
19+035.000	0.37	2.20	0.66	3.06	14.07	6.26	7.80	
19+040.000	0.31	1.70	0.76	3.56	15.76	9.82	5.94	
19+045.000	0.26	1.41	0.83	3.98	17.18	13.80	3.38	
19+050.000	0.21	1.18	0.89	4.31	18.35	18.11	0.25	
19+055.000	0.81	2.56	0.46	3.39	20.92	21.49	-0.58	
19+060.000	5.19	15.00	0.00	1.16	35.92	22.65	13.27	
19+080.000	17.35	224.17	0.00	0.00	260.09	22.65	237.44	
19+100.000	2.61	199.39	0.00	0.00	459.49	22.65	436.83	



TABULATI DI CALCOLO VOLUMI STRADE

20+000 a 20+094.00

Da Nodo 19 a 20



<u>Station</u>	<u>Cut Area (Sq.m.)</u>	<u>Cut Volume (Cu.m.)</u>	<u>Fill Area (Sq.m.)</u>	<u>Fill Volume (Cu.m.)</u>	<u>Cum. Cut Vol. (Cu.m.)</u>	<u>Cum. Fill Vol. (Cu.m.)</u>	<u>Cum. Net Vol. (Cu.m.)</u>	
20+005.000	52.78	0.00	1.36	0.00	0.00	0.00	0.00	
20+010.000	41.79	236.43	1.99	8.37	236.43	8.37	228.05	
20+020.000	59.86	-308.37	8.90	44.89	-71.94	53.27	-125.21	
20+040.000	3.94	-1166.16	6.00	49.38	-1238.10	102.65	-1340.75	
20+055.000	49.12	577.54	5.01	-23.60	-660.56	79.05	-739.61	
20+060.000	54.88	260.00	1.65	16.66	-400.56	95.70	-496.26	
20+065.000	50.43	263.28	4.76	16.02	-137.27	111.72	-249.00	
20+070.000	36.52	217.39	8.26	32.55	80.11	144.27	-64.16	
20+075.000	24.21	130.54	28.31	106.24	210.65	250.51	-39.87	
20+080.000	10.82	87.58	22.24	126.37	298.23	376.88	-78.65	
20+085.000	2.32	32.86	9.31	78.89	331.09	455.77	-124.68	
20+090.000	2.45	11.94	3.16	31.18	343.03	486.96	-143.93	



TABULATI DI CALCOLO VOLUMI STRADE

21+000 a 21+093.00

Da Nodo 21 a 22



<u>Station</u>	<u>Cut Area</u> <u>(Sq.m.)</u>	<u>Cut Volume</u> <u>(Cu.m.)</u>	<u>Fill Area</u> <u>(Sq.m.)</u>	<u>Fill Volume</u> <u>(Cu.m.)</u>	<u>Cum. Cut Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Fill Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Net Vol.</u> <u>(Cu.m.)</u>	
21+005.000	0.50	0.00	0.19	0.00	0.00	0.00	0.00	
21+010.000	0.16	1.63	0.70	2.23	1.63	2.23	-0.60	
21+015.000	0.36	1.29	3.41	10.26	2.92	12.49	-9.57	
21+020.000	0.76	2.81	5.55	22.38	5.73	34.88	-29.15	
21+040.000	6.68	51.52	0.00	4.77	57.24	39.65	17.60	
21+060.000	3.99	101.80	0.11	0.71	159.05	40.35	118.70	
21+070.000	1.13	25.87	2.49	11.15	184.92	51.50	133.42	
21+075.000	1.08	5.53	1.94	11.08	190.45	62.58	127.87	
21+080.000	0.87	4.88	1.20	7.84	195.33	70.42	124.90	
21+085.000	0.55	3.69	1.43	6.33	199.02	76.75	122.27	
21+090.000	0.34	2.23	1.11	6.34	201.24	83.09	118.15	



TABULATI DI CALCOLO VOLUMI STRADE

22+000 a 22+074.00

Da Nodo 23 a 24



<u>Station</u>	<u>Cut Area</u> <u>(Sq.m.)</u>	<u>Cut Volume</u> <u>(Cu.m.)</u>	<u>Fill Area</u> <u>(Sq.m.)</u>	<u>Fill Volume</u> <u>(Cu.m.)</u>	<u>Cum. Cut Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Fill Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Net Vol.</u> <u>(Cu.m.)</u>	
22+005.000	6.10	0.00	2.26	0.00	0.00	0.00	0.00	
22+010.000	17.02	57.78	1.79	10.13	57.78	10.13	47.65	
22+015.000	35.57	126.70	1.53	7.92	184.48	18.05	166.43	
22+020.000	26.90	132.29	0.56	2.46	316.77	20.51	296.27	
22+040.000	3.98	125.32	7.19	78.39	442.10	98.89	343.21	
22+055.000	28.32	-120.67	20.57	171.26	321.43	270.15	51.28	
22+060.000	11.79	100.27	7.05	69.05	421.70	339.20	82.49	
22+065.000	3.43	38.06	0.16	18.03	459.75	357.23	102.52	
22+070.000	2.39	14.56	0.42	1.46	474.31	358.70	115.62	



TABULATI DI CALCOLO VOLUMI STRADE

23+000 a 23+167.00

Da Nodo 25 a 26



<u>Station</u>	<u>Cut Area (Sq.m.)</u>	<u>Cut Volume (Cu.m.)</u>	<u>Fill Area (Sq.m.)</u>	<u>Fill Volume (Cu.m.)</u>	<u>Cum. Cut Vol. (Cu.m.)</u>	<u>Cum. Fill Vol. (Cu.m.)</u>	<u>Cum. Net Vol. (Cu.m.)</u>	
23+020.000	1.42	0.00	0.00	0.00	0.00	0.00	0.00	
23+040.000	3.77	51.91	0.00	0.00	51.91	0.00	51.91	
23+060.000	6.26	101.59	0.00	0.00	153.50	0.00	153.50	
23+080.000	7.94	146.52	1.33	12.94	300.02	12.94	287.08	
23+100.000	9.98	187.50	2.44	37.21	487.52	50.15	437.37	
23+120.000	27.65	392.66	0.07	25.02	880.18	75.17	805.01	
23+140.000	5.56	353.17	1.71	19.33	1233.36	94.50	1138.85	
23+160.000	0.66	59.73	0.62	22.56	1293.09	117.07	1176.02	



TABULATI DI CALCOLO VOLUMI STRADE

24+000 a 24+087.00

Da Nodo 27 a 28



<u>Station</u>	<u>Cut Area (Sq.m.)</u>	<u>Cut Volume (Cu.m.)</u>	<u>Fill Area (Sq.m.)</u>	<u>Fill Volume (Cu.m.)</u>	<u>Cum. Cut Vol. (Cu.m.)</u>	<u>Cum. Fill Vol. (Cu.m.)</u>	<u>Cum. Net Vol. (Cu.m.)</u>	
24+005.000	2.12	0.00	0.00	0.00	0.00	0.00	0.00	
24+010.000	5.31	18.58	0.00	0.02	18.58	0.02	18.56	
24+015.000	4.87	25.45	0.24	0.61	44.03	0.63	43.40	
24+020.000	1.49	15.91	4.03	10.68	59.93	11.31	48.63	
24+040.000	0.00	7.63	8.85	93.33	67.56	104.64	-37.08	
24+060.000	5.36	39.28	1.23	114.67	106.84	219.31	-112.47	
24+065.000	7.43	23.13	0.53	4.59	129.97	223.90	-93.93	
24+070.000	5.67	26.04	0.63	3.08	156.01	226.98	-70.98	
24+075.000	3.43	22.76	0.41	2.62	178.77	229.60	-50.84	
24+080.000	3.42	17.11	0.17	1.45	195.88	231.06	-35.18	
24+085.000	2.94	15.90	0.40	1.43	211.77	232.48	-20.71	



TABULATI DI CALCOLO VOLUMI STRADE

25+000 a 25+160.00

Da Nodo 29 a 30



<u>Station</u>	<u>Cut Area</u> <u>(Sq.m.)</u>	<u>Cut Volume</u> <u>(Cu.m.)</u>	<u>Fill Area</u> <u>(Sq.m.)</u>	<u>Fill Volume</u> <u>(Cu.m.)</u>	<u>Cum. Cut Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Fill Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Net Vol.</u> <u>(Cu.m.)</u>	
25+020.000	5.16	0.00	0.30	0.00	0.00	0.00	0.00	
25+040.000	29.63	490.31	2.40	26.70	490.31	26.70	463.61	
25+060.000	0.00	-315.43	11.73	143.99	174.89	170.70	4.19	
25+080.000	0.29	3.05	0.15	119.91	177.93	290.61	-112.68	
25+100.000	4.96	54.93	0.00	1.36	232.87	291.97	-59.11	
25+120.000	42.68	536.14	3.64	-38.59	769.00	253.38	515.63	
25+125.000	43.16	226.91	3.64	2.60	995.91	255.98	739.93	
25+130.000	42.18	213.36	1.67	13.28	1209.26	269.26	940.00	
25+135.000	37.70	199.71	1.45	7.81	1408.97	277.08	1131.90	
25+140.000	19.77	143.69	0.08	3.83	1552.66	280.91	1271.75	
25+145.000	12.54	80.80	0.00	0.19	1633.46	281.10	1352.36	
25+150.000	10.98	58.81	0.00	0.00	1692.27	281.10	1411.17	
25+155.000	5.68	41.64	0.00	0.00	1733.91	281.10	1452.80	



TABULATI DI CALCOLO VOLUMI STRADE

26+000 a 26+073.00

Da Nodo 31a 32



<u>Station</u>	<u>Cut Area</u> <u>(Sq.m.)</u>	<u>Cut Volume</u> <u>(Cu.m.)</u>	<u>Fill Area</u> <u>(Sq.m.)</u>	<u>Fill Volume</u> <u>(Cu.m.)</u>	<u>Cum. Cut Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Fill Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Net Vol.</u> <u>(Cu.m.)</u>	
26+005.000	0.03	0.00	2.60	0.00	0.00	0.00	0.00	
26+010.000	0.00	0.07	3.75	15.87	0.07	15.87	-15.80	
26+015.000	0.00	0.00	4.14	19.74	0.07	35.62	-35.54	
26+020.000	0.00	0.00	2.72	16.93	0.07	52.55	-52.48	
26+040.000	17.76	184.23	0.00	25.39	184.30	77.94	106.36	
26+060.000	0.09	180.94	1.88	18.13	365.24	96.07	269.17	
26+070.000	0.49	2.70	1.62	18.87	367.94	114.94	253.00	



TABULATI DI CALCOLO VOLUMI STRADE

30+000 a 30+075

Da Nodo 33a 34



<u>Station</u>	<u>Cut Area</u> <u>(Sq.m.)</u>	<u>Cut Volume</u> <u>(Cu.m.)</u>	<u>Fill Area</u> <u>(Sq.m.)</u>	<u>Fill Volume</u> <u>(Cu.m.)</u>	<u>Cum. Cut Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Fill Vol.</u> <u>(Cu.m.)</u>	<u>Cum. Net Vol.</u> <u>(Cu.m.)</u>	-
30+005.000	0	0	8.36	0	0	0	0	
30+010.000	0	0	6.13	36.23	0	36.23	-36.23	
30+015.000	0.02	0.05	4.02	25.39	0.05	61.62	-61.57	
30+020.000	0.09	0.28	2.3	15.82	0.33	77.44	-77.12	
30+025.000	0.58	1.67	0.53	7.08	2	84.53	-82.53	
30+030.000	0.53	2.76	1.09	4.04	4.76	88.57	-83.81	
30+035.000	0.32	2.11	1.87	7.39	6.87	95.96	-89.09	
30+040.000	0.09	1.03	2.95	12.05	7.9	108.01	-100.11	
30+045.000	0	0.24	5.12	20.03	8.14	128.04	-119.9	
30+050.000	0	0	6.69	29.52	8.14	157.55	-149.41	
30+055.000	0	0	7.38	35.17	8.14	192.73	-184.59	
30+060.000	0	0	9.72	42.75	8.14	235.48	-227.34	
30+065.000	0	0	12.54	55.65	8.14	291.13	-282.99	
30+070.000	0	0	15.19	69.32	8.14	360.45	-352.31	
30+075.000	0	0	19.01	85.52	8.14	445.97	-437.83	