



PONTE SULLO STRETTO DI MESSINA



PROGETTO DEFINITIVO

EUROLINK S.C.p.A.



IMPREGILO S.p.A. (MANDATARIA)
 SOCIETÀ ITALIANA PER CONDOTTE D'ACQUA S.p.A. (MANDANTE)
 COOPERATIVA MURATORI E CEMENTISTI - C.M.C. DI RAVENNA SOC. COOP. A.R.L. (MANDANTE)
 SACYR S.A.U. (MANDANTE)
 ISHIKAWAJIMA - HARIMA HEAVY INDUSTRIES CO. LTD (MANDANTE)
 A.C.I. S.C.P.A. - CONSORZIO STABILE (MANDANTE)

<p>IL PROGETTISTA</p>  <p>Dott. Ing. F. Colla Ordine Ingegneri Milano n° 20355 Dott. Ing. E. Pagani Ordine Ingegneri Milano n° 15408</p> 	<p>IL CONTRAENTE GENERALE</p> <p>Project Manager (Ing. P.P. Marcheselli)</p>	<p>STRETTO DI MESSINA</p> <p>Direttore Generale e RUP Validazione (Ing. G. Fiammenghi)</p>	<p>STRETTO DI MESSINA</p> <p>Amministratore Delegato (Dott. P. Ciucci)</p>
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<p><i>Unità Funzionale</i></p> <p><i>Tipo di sistema</i></p> <p><i>Raggruppamento di opere/attività</i></p> <p><i>Opera - tratto d'opera - parte d'opera</i></p> <p><i>Titolo del documento</i></p>	<p>COLLEGAMENTI SICILIA</p> <p>INFRASTRUTTURE STRADALI OPERE CIVILI</p> <p>SVINCOLO ANNUNZIATA</p> <p>GENERALE</p> <p>TABULATI MOVIMENTI MATERIA</p>	<p>SS0760_F0</p>
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REV	DATA	DESCRIZIONE	REDATTO	VERIFICATO	APPROVATO
FO	30/06/2011	EMISSIONE FINALE	PRO ITER srl	F. BERTONI	F. COLLA

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

INDICE

INDICE	3
MOVIMENTI MATERIA SVINCOLO ANNUNZIATA RAMPA 1.....	5
MOVIMENTI MATERIA SVINCOLO ANNUNZIATA RAMPA 2.....	189
MOVIMENTI MATERIA SVINCOLO ANNUNZIATA RAMPA 3.....	241

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

MOVIMENTI MATERIA SVINCOLO ANNUNZIATA RAMPA 1

		<p align="center">Ponte sullo Stretto di Messina PROGETTO DEFINITIVO</p>		
<p align="center">TABULATI MOVIMENTI MATERIA</p>	<p><i>Codice documento</i> SS0760_F0.doc</p>	<p><i>Rev</i> F0</p>	<p><i>Data</i> 20/06/2011</p>	

TABULATI MOVIMENTI MATERIA

Codice documento

SS0760_F0.doc

Rev

F0

Data

20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE				Foglio n. 1
STERRI E RIPORTI						
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE	
R1-1 0.00	R1	$(4.54-0.00) \times (164.00+163.79) / 2$ $(8.94-4.54) \times (164.00+164.00) / 2$ $(9.63-8.94) \times (163.91+164.00) / 2$ $(7.66-9.63) \times (165.03+163.91) / 2$ $(6.65-7.66) \times (165.03+165.03) / 2$ $(7.18-6.65) \times (164.50+165.03) / 2$ $(6.25-7.18) \times (164.54+164.50) / 2$ $(0.00-6.25) \times (164.84+164.54) / 2$	744.08 721.60 113.13 -324.01 -166.68 87.33 -153.00 -1029.31	6.86		
R1-3 32.24	R1	$(1.95-0.00) \times (161.34+161.02) / 2$ $(3.17-1.95) \times (161.01+161.34) / 2$ $(3.18-3.17) \times (160.99+161.01) / 2$ $(3.68-3.18) \times (161.76+160.99) / 2$ $(3.75-3.68) \times (161.84+161.76) / 2$ $(3.99-3.75) \times (162.00+161.84) / 2$ $(5.42-3.99) \times (162.52+162.00) / 2$ $(5.96-5.42) \times (163.04+162.52) / 2$ $(6.94-5.96) \times (163.00+163.04) / 2$ $(7.36-6.94) \times (163.07+163.00) / 2$ $(9.10-7.36) \times (163.24+163.07) / 2$ $(9.61-9.10) \times (163.31+163.24) / 2$ $(11.01-9.61) \times (163.34+163.31) / 2$ $(11.50-11.01) \times (163.37+163.34) / 2$ $(7.41-11.50) \times (165.71+163.37) / 2$ $(6.40-7.41) \times (165.71+165.71) / 2$ $(6.95-6.40) \times (165.16+165.71) / 2$ $(6.00-6.95) \times (165.22+165.16) / 2$ $(0.00-6.00) \times (165.64+165.22) / 2$	314.30 196.63 1.61 80.69 11.33 38.86 232.03 87.90 159.76 68.47 283.89 83.27 228.66 80.04 -672.97 -167.37 90.99 -156.93 -992.58		31.42	
R1-4 32.25	R1	$(-0.72--1.20) \times (161.09+161.13) / 2$ $(-0.50--0.72) \times (161.09+161.09) / 2$ $(-0.13--0.50) \times (161.00+161.09) / 2$ $(1.94--0.13) \times (161.34+161.00) / 2$ $(3.17-1.94) \times (161.01+161.34) / 2$ $(3.67-3.17) \times (161.77+160.99) / 2$ $(3.74-3.67) \times (161.85+161.77) / 2$ $(3.97-3.74) \times (162.00+161.85) / 2$ $(5.42-3.97) \times (162.53+162.00) / 2$ $(5.95-5.42) \times (163.04+162.53) / 2$ $(6.92-5.95) \times (163.00+163.04) / 2$ $(7.36-6.92) \times (163.08+163.00) / 2$ $(9.10-7.36) \times (163.24+163.08) / 2$ $(9.61-9.10) \times (163.31+163.24) / 2$ $(11.00-9.61) \times (163.34+163.31) / 2$ $(11.49-11.00) \times (163.37+163.34) / 2$ $(7.41-11.49) \times (165.71+163.37) / 2$ $(6.40-7.41) \times (165.71+165.71) / 2$ $(6.95-6.40) \times (165.16+165.71) / 2$ $(6.00-6.95) \times (165.22+165.16) / 2$ $(0.00-6.00) \times (165.64+165.22) / 2$ $(-1.20-0.00) \times (165.64+165.64) / 2$	77.33 35.44 59.59 333.62 198.25 80.69 11.33 37.24 235.28 86.28 158.13 71.74 283.90 83.27 227.02 80.04 -671.32 -167.37 90.99 -156.93 -992.58 -198.77			
A RIPORTARE mq			36.83			

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 2		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			36.83		
R1-5 40.00	R1	$(-2.06--2.50) \times (163.34+163.27) / 2$ $(-1.39--2.06) \times (163.52+163.34) / 2$ $(0.03--1.39) \times (163.81+163.52) / 2$ $(1.07-0.03) \times (164.00+163.81) / 2$ $(2.35-1.07) \times (164.27+164.00) / 2$ $(3.26-2.35) \times (164.54+164.27) / 2$ $(3.84-3.26) \times (164.68+164.54) / 2$ $(5.34-3.84) \times (165.00+164.68) / 2$ $(5.96-5.34) \times (165.07+165.00) / 2$ $(6.15-5.96) \times (165.11+165.07) / 2$ $(8.03-6.15) \times (165.27+165.11) / 2$ $(8.34-8.03) \times (165.35+165.27) / 2$ $(7.41-8.34) \times (165.88+165.35) / 2$ $(6.40-7.41) \times (165.88+165.88) / 2$ $(6.95-6.40) \times (165.33+165.88) / 2$ $(6.00-6.95) \times (165.40+165.33) / 2$ $(-1.00-6.00) \times (165.89+165.40) / 2$ $(-1.85--1.00) \times (165.95+165.89) / 2$ $(-1.40--1.85) \times (166.40+165.95) / 2$ $(-2.50--1.40) \times (166.40+166.40) / 2$	71.85 109.50 232.40 170.46 210.09 149.61 95.47 247.26 102.32 31.37 310.56 51.25 -154.02 -167.54 91.08 -157.10 -1159.51 -141.03 74.78 -183.04	36.83	
R1-7 80.00	S1	$(-10.32--10.66) \times (173.52+173.67) / 2$ $(-8.60--10.32) \times (173.55+173.52) / 2$ $(-7.48--8.60) \times (173.43+173.55) / 2$ $(-5.93--7.48) \times (173.27+173.43) / 2$ $(-4.28--5.93) \times (173.00+173.27) / 2$ $(-3.22--4.28) \times (172.80+173.00) / 2$ $(-2.23--3.22) \times (172.64+172.80) / 2$ $(-0.57--2.23) \times (172.32+172.64) / 2$ $(0.95--0.57) \times (172.00+172.32) / 2$ $(2.01-0.95) \times (171.02+172.00) / 2$ $(2.03-2.01) \times (171.00+171.02) / 2$ $(2.05-2.03) \times (170.99+171.00) / 2$ $(2.07-2.05) \times (170.99+170.99) / 2$ $(2.09-2.07) \times (170.99+170.99) / 2$ $(2.27-2.09) \times (170.96+170.99) / 2$ $(6.85-2.27) \times (170.26+170.96) / 2$ $(8.12-6.85) \times (170.00+170.26) / 2$ $(12.07-8.12) \times (169.41+170.00) / 2$ $(8.34-12.07) \times (167.28+169.41) / 2$ $(7.02-8.34) \times (167.28+167.28) / 2$ $(6.00-7.02) \times (167.13+167.13) / 2$ $(-1.85-6.00) \times (167.38+166.83) / 2$ $(-1.20--1.85) \times (168.04+167.38) / 2$ $(-2.50--1.20) \times (168.14+168.14) / 2$ $(-3.38--2.50) \times (167.64+168.14) / 2$ $(-10.66--3.38) \times (167.64+167.64) / 2$	59.02 298.48 194.31 268.69 285.67 183.27 170.99 286.32 261.68 181.80 3.42 3.42 3.42 3.42 30.78 781.39 216.07 670.33 -627.93 -220.81 -170.47 -1311.77 109.01 -218.58 -147.74 -1220.42	14.24	
A RIPORTARE mq				93.77	

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 3		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq					
R1-8 84.37	SI	$(-6.63-8.52) \times (174.00+174.13) / 2$ $(-5.28-6.63) \times (173.71+174.00) / 2$ $(-3.05-5.28) \times (173.30+173.71) / 2$ $(-1.48-3.05) \times (173.00+173.30) / 2$ $(1.35-1.48) \times (172.32+173.00) / 2$ $(2.67-1.35) \times (172.00+172.32) / 2$ $(3.02-2.67) \times (171.61+172.00) / 2$ $(3.54-3.02) \times (171.00+171.61) / 2$ $(7.14-3.54) \times (170.11+171.00) / 2$ $(7.62-7.14) \times (170.00+170.11) / 2$ $(7.95-7.62) \times (169.99+170.00) / 2$ $(9.79-7.95) \times (169.92+169.99) / 2$ $(11.96-9.79) \times (169.57+169.92) / 2$ $(8.34-11.96) \times (167.51+169.57) / 2$ $(7.02-8.34) \times (167.51+167.51) / 2$ $(6.00-7.02) \times (167.36+167.36) / 2$ $(-1.85-6.00) \times (167.61+167.06) / 2$ $(-1.40-1.85) \times (168.06+167.61) / 2$ $(-2.41-1.40) \times (168.06+168.06) / 2$ $(-3.28-2.41) \times (167.56+168.06) / 2$ $(-8.52-3.28) \times (167.56+167.56) / 2$	328.98 234.70 386.92 271.85 488.63 227.25 60.13 89.08 614.00 81.63 56.10 312.72 368.35 -610.11 -221.11 -170.71 -1313.58 75.53 -169.74 -145.99 -878.01	86.62	
R1-9 100.00	SI	$(-3.98-4.24) \times (173.00+173.18) / 2$ $(-3.47-3.98) \times (172.24+173.00) / 2$ $(-3.26-3.47) \times (172.00+172.24) / 2$ $(-2.28-3.26) \times (171.26+172.00) / 2$ $(-1.90-2.28) \times (171.00+171.26) / 2$ $(1.49-1.90) \times (170.99+171.00) / 2$ $(2.44-1.49) \times (170.99+170.99) / 2$ $(2.87-2.44) \times (170.99+170.99) / 2$ $(4.09-2.87) \times (170.90+170.99) / 2$ $(7.67-4.09) \times (170.50+170.90) / 2$ $(11.36-7.67) \times (170.13+170.50) / 2$ $(8.34-11.36) \times (168.40+170.13) / 2$ $(7.02-8.34) \times (168.40+168.40) / 2$ $(6.00-7.02) \times (168.25+168.25) / 2$ $(-1.85-6.00) \times (168.50+167.95) / 2$ $(-1.40-1.85) \times (168.96+168.50) / 2$ $(-4.24-1.40) \times (168.96+168.96) / 2$	45.00 88.04 36.15 168.20 65.03 579.67 162.44 73.53 208.55 611.11 628.46 -511.18 -222.29 -171.61 -1320.57 75.93 -479.85		
R1-10 114.79	SI	$(-0.35-1.00) \times (171.45+171.54) / 2$ $(2.79-0.35) \times (171.00+171.45) / 2$ $(3.36-2.79) \times (170.96+171.00) / 2$ $(6.75-3.36) \times (170.76+170.96) / 2$ $(7.87-6.75) \times (170.68+170.76) / 2$ $(10.23-7.87) \times (170.55+170.68) / 2$ $(10.34-10.23) \times (170.54+170.55) / 2$ $(8.34-10.34) \times (169.40+170.54) / 2$ $(7.02-8.34) \times (169.40+169.40) / 2$	111.47 537.65 97.46 579.22 191.21 402.65 18.76 -339.94 -223.61	36.61	
A RIPORTARE mq			1374.87		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE			Foglio n. 4
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			1374.87		
R1-11 114.80	S1	$(6.00-7.02) \times (169.25+169.25) / 2$ $(-1.00-6.00) \times (169.44+168.95) / 2$ $(-4.40--4.80) \times (172.04+172.12) / 2$ $(-4.29--4.40) \times (172.00+172.04) / 2$ $(-4.09--4.29) \times (171.97+172.00) / 2$ $(-3.82--4.09) \times (171.93+171.97) / 2$ $(-0.36--3.82) \times (171.45+171.93) / 2$ $(2.80-0.36) \times (171.00+171.45) / 2$ $(3.35-2.80) \times (170.96+171.00) / 2$ $(6.74-3.35) \times (170.76+170.96) / 2$ $(7.86-6.74) \times (170.68+170.76) / 2$ $(10.23-7.86) \times (170.55+170.68) / 2$ $(10.34-10.23) \times (170.54+170.55) / 2$ $(8.34-10.34) \times (169.40+170.54) / 2$ $(7.02-8.34) \times (169.40+169.40) / 2$ $(6.00-7.02) \times (169.25+169.25) / 2$ $(-4.80-6.00) \times (169.65+168.95) / 2$	-172.63 -1184.37 68.83 18.92 34.40 46.43 594.05 541.07 94.04 579.22 191.21 404.36 18.76 -339.94 -223.61 -172.63 -1828.44	17.87	
R1-12 120.00	S1	$(-1.39--3.65) \times (172.00+172.35) / 2$ $(-1.36--1.39) \times (172.00+172.00) / 2$ $(-1.33--1.36) \times (172.00+172.00) / 2$ $(1.45--1.33) \times (171.63+172.00) / 2$ $(5.17-1.45) \times (171.36+171.63) / 2$ $(5.39-5.17) \times (171.30+171.36) / 2$ $(5.81-5.39) \times (171.21+171.30) / 2$ $(6.62-5.81) \times (171.00+171.21) / 2$ $(7.19-6.62) \times (170.96+171.00) / 2$ $(7.44-7.19) \times (170.94+170.96) / 2$ $(10.02-7.44) \times (170.72+170.94) / 2$ $(8.34-10.02) \times (169.76+170.72) / 2$ $(7.02-8.34) \times (169.76+169.76) / 2$ $(6.00-7.02) \times (169.61+169.61) / 2$ $(-3.65-6.00) \times (169.99+169.31) / 2$	389.12 5.16 5.16 477.65 637.96 37.69 71.93 138.60 97.46 42.74 440.74 -286.00 -224.08 -173.00 -1637.12	26.67	
R1-13 140.00	S1	$(6.00-6.53) \times (171.01+171.01) / 2$ $(-0.71-6.00) \times (171.18+170.71) / 2$ $(1.33--0.71) \times (173.00+173.41) / 2$ $(5.14-1.33) \times (172.23+173.00) / 2$ $(6.28-5.14) \times (172.00+172.23) / 2$ $(6.53-6.28) \times (171.97+172.00) / 2$	-90.64 -1147.04 353.34 657.66 196.21 43.00	24.01	
R1-13 140.00	S2	$(7.31-6.53) \times (171.88+171.97) / 2$ $(9.00-7.31) \times (171.54+171.88) / 2$ $(8.34-9.00) \times (171.16+171.54) / 2$ $(7.02-8.34) \times (171.16+171.16) / 2$ $(6.53-7.02) \times (171.01+171.01) / 2$	134.10 290.19 -113.09 -225.93 -83.79	12.53	
R1-14	S1	$(-0.16-5.99) \times (171.70+171.27) / 2$	-1054.63	1.48	
A RIPORTARE mq			-1054.63		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 5		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			-1054.63		
148.60		(0.05--0.16) x (173.15+173.17) / 2 (1.13--0.05) x (173.00+173.15) / 2 (3.44--1.13) x (172.41+173.00) / 2 (5.05--3.44) x (172.00+172.41) / 2 (5.99--5.05) x (171.85+172.00) / 2	36.36 186.92 398.95 277.25 161.61		
R1-14 148.60	S2	(6.53--5.99) x (171.76+171.85) / 2 (6.40--6.53) x (171.76+171.76) / 2 (6.95--6.40) x (171.21+171.76) / 2 (6.00--6.95) x (171.27+171.21) / 2 (5.99--6.00) x (171.27+171.27) / 2	92.77 -22.33 94.32 -162.68 -1.71	6.46	
R1-14 148.60	R1	(7.42--6.53) x (171.61+171.76) / 2 (7.78--7.42) x (171.54+171.61) / 2 (7.41--7.78) x (171.76+171.54) / 2 (6.53--7.41) x (171.76+171.76) / 2	152.80 61.77 -63.51 -151.15	0.37	
R1-15 161.48	R1	(-4.60--5.28) x (170.36+170.45) / 2 (-4.35--4.60) x (170.32+170.36) / 2 (-4.32--4.35) x (170.36+170.32) / 2 (-2.98--4.32) x (170.32+170.36) / 2 (-2.08--2.98) x (170.16+170.32) / 2 (-1.26--2.08) x (170.15+170.16) / 2 (0.07--1.26) x (170.10+170.15) / 2 (0.45--0.07) x (170.30+170.10) / 2 (1.24--0.45) x (170.41+170.30) / 2 (2.47--1.24) x (170.36+170.41) / 2 (2.73--2.47) x (170.54+170.36) / 2 (3.40--2.73) x (170.58+170.54) / 2 (3.73--3.40) x (170.72+170.58) / 2 (4.27--3.73) x (170.79+170.72) / 2 (5.15--4.27) x (171.37+170.79) / 2 (5.99--5.15) x (171.07+171.37) / 2 (-5.28--5.99) x (172.78+171.99) / 2	115.88 42.59 5.11 228.26 153.22 139.53 226.27 64.68 134.58 209.57 44.32 114.28 56.31 92.21 150.55 143.82 -1942.78	0.09	
R1-16 162.95	R1	(-1.91--5.19) x (171.00+171.59) / 2 (-0.14--1.91) x (169.91+171.00) / 2 (0.48--0.14) x (169.53+169.91) / 2 (5.99--0.48) x (169.94+169.53) / 2 (-5.19--5.99) x (172.86+172.07) / 2	561.85 301.71 105.23 935.24 -1928.16	21.60	
R1-18 190.84	R1	(-1.13--4.50) x (173.00+173.00) / 2 (1.58--1.13) x (172.00+173.00) / 2 (3.10--1.58) x (171.00+172.00) / 2 (4.44--3.10) x (170.00+171.00) / 2 (6.00--4.44) x (169.14+170.00) / 2 (-4.50--6.00) x (173.86+173.13) / 2	583.01 467.47 260.68 228.47 264.53 -1821.70	24.13	
R1-18b	R1	(-7.46--8.14) x (173.00+173.10) / 2	117.67	17.54	
A RIPORTARE mq			117.67		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 6		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			117.67		
190.85		(-6.31--7.46) x (173.00+173.00) /2 (-1.13--6.31) x (173.00+173.00) /2 (1.58--1.13) x (172.00+173.00) /2 (3.10--1.58) x (171.00+172.00) /2 (4.44--3.10) x (170.00+171.00) /2 (6.25--4.44) x (169.00+170.00) /2 (8.87--6.25) x (168.00+169.00) /2 (12.65--8.87) x (167.00+168.00) /2 (14.91--12.65) x (166.00+167.00) /2 (15.03--14.91) x (165.31+166.00) /2 (15.83--15.03) x (165.00+165.31) /2 (19.90--15.83) x (164.00+165.00) /2 (24.35--19.90) x (164.00+164.00) /2 (25.50--24.35) x (164.00+164.00) /2 (28.78--25.50) x (163.00+164.00) /2 (30.58--28.78) x (162.66+163.00) /2 (28.91--30.58) x (163.61+162.66) /2 (26.91--28.91) x (163.61+163.61) /2 (18.16--26.91) x (168.61+163.61) /2 (16.16--18.16) x (168.61+168.61) /2 (7.41--16.16) x (173.61+168.61) /2 (6.40--7.41) x (173.61+173.61) /2 (6.96--6.40) x (173.06+173.61) /2 (6.00--6.96) x (173.13+173.06) /2 (-4.50--6.00) x (173.86+173.13) /2 (-5.35--4.50) x (173.92+173.86) /2 (-4.90--5.35) x (174.38+173.92) /2 (-5.91--4.90) x (174.38+174.38) /2 (-8.14--5.91) x (173.10+174.38) /2	198.95 896.14 467.47 260.68 228.47 306.79 441.47 633.15 376.29 19.88 132.12 669.51 729.80 188.60 536.28 293.09 -272.44 -327.22 -1453.46 -337.22 -1497.21 -175.35 97.07 -166.17 -1821.70 -147.81 78.37 -176.12 -387.44	90.34	
R1-19 200.00	SI	(6.40--6.78) x (173.81+173.81) /2 (6.78--6.40) x (173.45+173.81) /2 (6.00--6.78) x (173.33+173.27) /2 (-4.50--6.00) x (174.06+173.33) /2 (-5.52--4.50) x (174.36+174.36) /2 (-6.02--5.52) x (174.81+174.81) /2 (-9.28--6.02) x (180.68+174.81) /2 (-8.29--9.28) x (180.47+180.68) /2 (-6.44--8.29) x (180.10+180.47) /2 (-6.13--6.44) x (180.00+180.10) /2 (-5.01--6.13) x (179.27+180.00) /2 (-2.92--5.01) x (179.01+179.27) /2 (-2.88--2.92) x (179.00+179.01) /2 (-2.84--2.88) x (178.98+179.00) /2 (-1.08--2.84) x (178.00+178.98) /2 (-0.07--1.08) x (177.90+178.00) /2 (1.06--0.07) x (177.31+177.90) /2 (1.25--1.06) x (177.00+177.31) /2 (1.75--1.25) x (176.66+177.00) /2	-66.05 65.98 -135.17 -1823.80 -177.85 -87.41 -579.45 178.77 333.53 55.82 201.19 374.40 7.16 7.16 314.14 179.73 200.69 33.66 88.41		
A RIPORTARE mq			-829.09		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 7	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			-829.09		
R1-19 200.00	S2	(2.58-1.75)x(176.00+176.66) /2	146.35	51.22	
		(3.49-2.58)x(175.32+176.00) /2	159.85		
		(4.07-3.49)x(174.77+175.32) /2	101.53		
		(6.70-4.07)x(174.02+174.77) /2	458.66		
		(6.78-6.70)x(174.01+174.02) /2	13.92		
R1-19 200.00	S2	(6.88-6.78)x(173.99+174.01) /2	17.40	0.11	
		(6.95-6.88)x(173.99+173.99) /2	12.18		
		(7.09-6.95)x(173.95+173.99) /2	24.36		
		(7.85-7.09)x(173.80+173.95) /2	132.14		
		(6.78-7.85)x(173.81+173.80) /2	-185.97		
R1-19 200.00	S2	(6.97-6.78)x(173.26+173.45) /2	32.94	0.02	
		(6.78-6.97)x(173.27+173.26) /2	-32.92		
R1-20 210.84	S1	(6.00-6.20)x(173.48+173.47) /2	-34.70		
		(-4.50-6.00)x(174.21+173.48) /2	-1825.37		
		(-5.52--4.50)x(174.51+174.51) /2	-178.00		
		(-6.02--5.52)x(174.96+174.96) /2	-87.48		
		(-9.36--6.02)x(180.96+174.96) /2	-594.39		
		(-11.36--9.36)x(180.96+180.96) /2	-361.92		
		(-14.69--11.36)x(186.96+180.96) /2	-612.59		
		(-16.69--14.69)x(186.96+186.96) /2	-373.92		
		(-19.52--16.69)x(192.05+186.96) /2	-536.30		
		(-21.52--19.52)x(192.05+192.05) /2	-384.10		
		(-24.69--21.52)x(197.77+192.05) /2	-617.86		
		(-22.72--24.69)x(196.72+197.77) /2	388.57		
		(-20.66--22.72)x(195.58+196.72) /2	404.07		
		(-17.73--20.66)x(194.17+195.58) /2	570.98		
		(-15.73--17.73)x(192.87+194.17) /2	387.04		
		(-14.10--15.73)x(191.90+192.87) /2	313.59		
		(-11.99--14.10)x(190.00+191.90) /2	402.90		
		(-11.46--11.99)x(189.18+190.00) /2	100.48		
		(-11.38--11.46)x(188.83+189.18) /2	15.12		
		(-10.31--11.38)x(186.59+188.83) /2	200.85		
		(-10.07--10.31)x(186.04+186.59) /2	44.72		
		(-10.01--10.07)x(185.96+186.04) /2	11.16		
		(-8.86--10.01)x(184.11+185.96) /2	212.79		
		(-8.71--8.86)x(183.88+184.11) /2	27.60		
		(-8.12--8.71)x(183.33+183.88) /2	108.33		
		(-7.81--8.12)x(183.00+183.33) /2	56.78		
		(-7.74--7.81)x(182.94+183.00) /2	12.81		
		(-6.43--7.74)x(181.44+182.94) /2	238.67		
		(-5.93--6.43)x(181.00+181.44) /2	90.61		
		(-3.90--5.93)x(180.08+181.00) /2	366.50		
		(-3.78--3.90)x(180.00+180.08) /2	21.60		
		(-3.63--3.78)x(179.91+180.00) /2	26.99		
		(-2.71--3.63)x(179.00+179.91) /2	165.10		
(-1.83--2.71)x(179.00+179.00) /2	157.52				
A RIPORTARE mq			-1281.85		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE			Foglio n. 8
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			-1281.85		
R1-20 210.84	S2	$(0.30-1.83) \times (179.32+179.00) / 2$	381.61		
		$(1.29-0.30) \times (179.50+179.32) / 2$	177.62		
		$(1.60-1.29) \times (179.42+179.50) / 2$	55.63		
		$(3.52-1.60) \times (179.01+179.42) / 2$	344.09		
		$(3.54-3.52) \times (178.98+179.01) / 2$	3.58		
		$(3.78-3.54) \times (177.69+178.98) / 2$	42.80		
		$(3.86-3.78) \times (177.40+177.69) / 2$	14.20		
		$(4.22-3.86) \times (176.80+177.40) / 2$	63.76		
		$(4.83-4.22) \times (175.00+176.80) / 2$	107.30		
		$(5.01-4.83) \times (174.83+175.00) / 2$	31.48		
		$(6.20-5.01) \times (174.25+174.83) / 2$	207.70		
		$(6.73-6.20) \times (173.99+174.25) / 2$	92.28	147.92	
		$(6.74-6.73) \times (173.99+173.99) / 2$	1.74		
		$(6.78-6.74) \times (173.97+173.99) / 2$	6.96		
		$(6.40-6.78) \times (173.97+173.97) / 2$	-66.11		
		$(6.95-6.40) \times (173.41+173.97) / 2$	95.53		
		$(6.20-6.95) \times (173.47+173.41) / 2$	-130.08		
R1-20 210.84	R1	$(7.01-6.78) \times (173.83+173.97) / 2$	40.00		
		$(7.72-7.01) \times (173.43+173.83) / 2$	123.28		
		$(7.80-7.72) \times (173.34+173.43) / 2$	13.87		
		$(8.23-7.80) \times (173.00+173.34) / 2$	74.46		
		$(8.87-8.23) \times (173.13+173.00) / 2$	110.76		
		$(7.41-8.87) \times (173.97+173.13) / 2$	-253.38		
		$(6.78-7.41) \times (173.97+173.97) / 2$	-109.60		
				0.32	
R1-20b 220.00	S1	$(-4.50-2.06) \times (174.27+174.10) / 2$	-425.01		
		$(-5.52-4.50) \times (174.57+174.57) / 2$	-178.06		
		$(-6.02-5.52) \times (175.02+175.02) / 2$	-87.51		
		$(-9.36-6.02) \times (181.02+175.02) / 2$	-594.59		
		$(-11.36-9.36) \times (181.02+181.02) / 2$	-362.04		
		$(-14.69-11.36) \times (187.02+181.02) / 2$	-612.79		
		$(-16.69-14.69) \times (187.02+187.02) / 2$	-374.04		
		$(-19.52-16.69) \times (192.11+187.02) / 2$	-536.47		
		$(-21.52-19.52) \times (192.11+192.11) / 2$	-384.22		
		$(-24.13-21.52) \times (196.82+192.11) / 2$	-507.55		
		$(-23.97-24.13) \times (196.71+196.82) / 2$	31.48		
		$(-22.50-23.97) \times (195.77+196.71) / 2$	288.47		
		$(-21.45-22.50) \times (194.78+195.77) / 2$	205.04		
		$(-20.30-21.45) \times (193.91+194.78) / 2$	223.50		
		$(-19.82-20.30) \times (193.43+193.91) / 2$	92.96		
		$(-18.78-19.82) \times (192.39+193.43) / 2$	200.63		
		$(-17.98-18.78) \times (192.07+192.39) / 2$	153.78		
		$(-17.27-17.98) \times (191.20+192.07) / 2$	136.06		
		$(-16.31-17.27) \times (190.00+191.20) / 2$	182.98		
		$(-15.51-16.31) \times (189.52+190.00) / 2$	151.81		
$(-13.20-15.51) \times (187.53+189.52) / 2$	435.49				
$(-11.60-13.20) \times (185.38+187.53) / 2$	298.33				
				0.61	
A RIPORTARE mq			-1661.75		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE			Foglio n. 9
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			-1661.75		
R1-20b 220.00	S2	(-10.57--11.60)x(185.22+185.38) /2	190.86	75.93	
		(-9.13--10.57)x(184.66+185.22) /2	266.31		
		(-8.02--9.13)x(183.15+184.66) /2	204.13		
		(-6.34--8.02)x(181.24+183.15) /2	306.09		
		(-5.37--6.34)x(180.00+181.24) /2	175.20		
		(-2.06--5.37)x(179.57+180.00) /2	595.09		
		(0.50--2.06)x(179.24+179.57) /2	459.28		
		(1.48-0.50)x(179.00+179.24) /2	175.54		
		(2.20-1.48)x(178.00+179.00) /2	128.52		
		(2.77-2.20)x(177.00+178.00) /2	101.17		
		(3.22-2.77)x(176.00+177.00) /2	79.43		
		(4.08-3.22)x(175.00+176.00) /2	150.93		
		(5.63-4.08)x(173.99+175.00) /2	270.47		
		(6.20-5.63)x(173.52+173.99) /2	99.04		
		(6.00-6.20)x(173.53+173.52) /2	-34.71		
		(-2.06-6.00)x(174.10+173.53) /2	-1400.95		
R1-20b 220.00	R1	(6.40-6.78)x(174.02+174.02) /2	-66.13	28.72	
		(6.78-6.40)x(173.64+174.02) /2	66.06		
R1-20b 220.00	R1	(6.20-6.78)x(173.52+173.48) /2	-100.63	0.07	
		(6.78-6.20)x(173.03+173.52) /2	100.50		
R1-20b 220.00	R2	(6.81-6.78)x(173.00+173.03) /2	5.19	0.13	
		(7.80-6.81)x(172.00+173.00) /2	170.78		
		(8.82-7.80)x(171.09+172.00) /2	174.98		
		(10.00-8.82)x(171.00+171.09) /2	201.83		
		(12.99-10.00)x(170.83+171.00) /2	511.04		
		(7.41-12.99)x(174.02+170.83) /2	-962.13		
		(6.78-7.41)x(174.02+174.02) /2	-109.63		
		(6.95-6.78)x(173.46+173.64) /2	29.50		
		(6.78-6.95)x(173.48+173.46) /2	-29.49		
R1-21 240.00	S1	(-9.68--15.30)x(178.92+179.42) /2	1006.94	7.93	
		(-9.64--9.68)x(179.00+178.92) /2	7.16		
		(-6.87--9.64)x(177.99+179.00) /2	494.43		
		(-5.08--6.87)x(177.00+177.99) /2	317.72		
		(-4.09--5.08)x(176.01+177.00) /2	174.74		
		(-2.86--4.09)x(175.00+176.01) /2	215.87		
		(-2.09--2.86)x(174.00+175.00) /2	134.37		
		(-2.06--2.09)x(173.97+174.00) /2	5.22		
		(-4.50--2.06)x(174.14+173.97) /2	-424.69		
		(-5.53--4.50)x(174.44+174.44) /2	-179.67		
		(-6.84--5.53)x(174.59+174.59) /2	-228.71		
		(-15.30--6.84)x(179.42+174.59) /2	-1497.46		
		R1-21 240.00	R1		
(-2.06-5.99)x(173.97+173.40) /2	-1398.16				
A RIPORTARE mq			-1434.57		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE				Foglio n. 10
STERRI E RIPORTI						
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE	
RIPORTIO mq			-1434.57			
R1-21 240.00	R2	(-1.39--2.06) x (173.00+173.97) / 2 (-0.53--1.39) x (172.00+173.00) / 2 (0.36--0.53) x (171.00+172.00) / 2 (1.97-0.36) x (170.47+171.00) / 2 (6.20-1.97) x (171.41+170.47) / 2 (10.18-6.20) x (172.30+171.41) / 2 (7.39-10.18) x (173.89+172.30) / 2 (6.39-7.39) x (173.89+173.89) / 2 (6.94-6.39) x (173.34+173.89) / 2 (6.20-6.94) x (173.39+173.34) / 2	116.23 148.35 152.63 274.88 723.08 683.98 -482.94 -173.89 95.49 -128.29	19.40		
R1-23 277.73	R1	(-4.33--4.50) x (170.11+170.12) / 2 (-2.85--4.33) x (170.00+170.11) / 2 (0.09--2.85) x (169.78+170.00) / 2 (2.72-0.09) x (169.59+169.78) / 2 (4.70-2.72) x (169.48+169.59) / 2 (4.71-4.70) x (169.48+169.48) / 2 (-4.50-4.71) x (172.80+172.54) / 2	28.92 251.68 499.48 446.27 335.68 1.69 -1590.29	5.65		
R1-28b 340.93	R1	(-15.63--21.63) x (160.94+160.91) / 2 (-13.59--15.63) x (160.99+160.94) / 2 (-13.55--13.59) x (160.99+160.99) / 2 (-13.51--13.55) x (160.99+160.99) / 2 (-13.47--13.51) x (160.99+160.99) / 2 (-12.85--13.47) x (161.00+160.99) / 2 (-12.31--12.85) x (161.00+161.00) / 2 (-11.32--12.31) x (161.11+161.00) / 2 (-9.29--11.32) x (161.21+161.11) / 2 (-5.60--9.29) x (161.00+161.21) / 2 (-2.14--5.60) x (161.00+161.00) / 2 (0.90--2.14) x (160.89+161.00) / 2 (3.43-0.90) x (160.81+160.89) / 2 (4.05-3.43) x (160.78+160.81) / 2 (4.50-4.05) x (160.77+160.78) / 2 (-4.50-4.50) x (168.25+168.25) / 2 (-5.42--4.50) x (168.23+168.25) / 2 (-4.90--5.42) x (168.75+168.23) / 2 (-5.91--4.90) x (168.75+168.75) / 2 (-14.66--5.91) x (163.75+168.75) / 2 (-16.66--14.66) x (163.75+163.75) / 2 (-21.63--16.66) x (160.91+163.75) / 2	965.55 328.37 6.44 6.44 6.44 99.82 86.94 159.44 327.15 594.48 557.06 489.27 406.95 99.69 72.35 -1514.25 -154.78 87.61 -170.44 -1454.69 -327.50 -806.78	26.57		
R1-29 360.00	R1	(-24.44--24.61) x (157.61+157.61) / 2 (-22.43--24.44) x (157.61+157.61) / 2 (-21.62--22.43) x (157.62+157.61) / 2 (-19.76--21.62) x (157.66+157.62) / 2 (-17.73--19.76) x (157.69+157.66) / 2 (-15.78--17.73) x (157.73+157.69) / 2	26.79 316.80 127.67 293.21 320.08 307.53	134.44		
A RIPORTARE mq			1392.08			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 11	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			1392.08		
		(-13.70--15.78)x(157.83+157.73)/2	328.18		
		(-13.29--13.70)x(157.83+157.83)/2	64.71		
		(-11.35--13.29)x(157.83+157.83)/2	306.19		
		(-10.93--11.35)x(157.98+157.83)/2	66.32		
		(-10.44--10.93)x(158.22+157.98)/2	77.47		
		(-9.57--10.44)x(158.00+158.22)/2	137.56		
		(-9.00--9.57)x(157.90+158.00)/2	90.03		
		(-8.30--9.00)x(158.13+157.90)/2	110.61		
		(-8.04--8.30)x(158.14+158.13)/2	41.12		
		(-7.26--8.04)x(157.98+158.14)/2	123.29		
		(-6.30--7.26)x(158.20+157.98)/2	151.77		
		(-5.84--6.30)x(158.28+158.20)/2	72.79		
		(-5.15--5.84)x(158.22+158.28)/2	109.19		
		(-3.90--5.15)x(158.50+158.22)/2	197.95		
		(-3.15--3.90)x(158.47+158.50)/2	118.86		
		(-3.14--3.15)x(158.49+158.47)/2	1.58		
		(-1.94--3.14)x(159.00+158.49)/2	190.49		
		(-1.36--1.94)x(159.16+159.00)/2	92.27		
		(-0.95--1.36)x(159.21+159.16)/2	65.27		
		(0.15--0.95)x(159.57+159.21)/2	175.33		
		(0.85--0.15)x(159.62+159.57)/2	111.72		
		(1.49--0.85)x(159.70+159.62)/2	102.18		
		(2.94--1.49)x(159.73+159.70)/2	231.59		
		(4.92--2.94)x(159.93+159.73)/2	316.46		
		(5.06--4.92)x(160.03+159.93)/2	22.40		
		(5.74--5.06)x(160.00+160.03)/2	108.81		
		(6.45--5.74)x(160.00+160.00)/2	113.60		
		(7.17--6.45)x(159.97+160.00)/2	115.19		
		(7.22--7.17)x(159.97+159.97)/2	8.00		
		(7.31--7.22)x(160.02+159.97)/2	14.40		
		(10.54--7.31)x(160.09+160.02)/2	516.98		
		(13.10--10.54)x(160.01+160.09)/2	409.73		
		(14.53--13.10)x(159.88+160.01)/2	228.72		
		(15.68--14.53)x(159.61+159.88)/2	183.71		
		(16.35--15.68)x(159.49+159.61)/2	106.90		
		(19.34--16.35)x(159.00+159.49)/2	476.14		
		(20.48--19.34)x(159.00+159.00)/2	181.26		
		(21.21--20.48)x(159.00+159.00)/2	116.07		
		(22.42--21.21)x(159.00+159.00)/2	192.39		
		(16.66--22.42)x(162.29+159.00)/2	-925.32		
		(14.66--16.66)x(162.29+162.29)/2	-324.58		
		(5.91--14.66)x(167.29+162.29)/2	-1441.91		
		(4.90--5.91)x(167.29+167.29)/2	-168.96		
		(5.42--4.90)x(166.77+167.29)/2	86.86		
		(4.50--5.42)x(166.80+166.77)/2	-153.44		
		(-4.50--4.50)x(166.80+166.80)/2	-1501.20		
		(-5.42--4.50)x(166.77+166.80)/2	-153.44		
		(-4.90--5.42)x(167.29+166.77)/2	86.86		
		(-5.91--4.90)x(167.29+167.29)/2	-168.96		
A RIPORTARE mq			2805.22		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 12		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			2805.22		
R1-30 382.06	R1	$(-14.66-5.91) \times (162.29+167.29) / 2$ $(-16.66-14.66) \times (162.29+162.29) / 2$ $(-19.60-16.66) \times (160.61+162.29) / 2$ $(-24.61-19.60) \times (160.61+160.61) / 2$ $(-21.59-21.91) \times (156.50+156.48) / 2$ $(-21.13-21.59) \times (156.52+156.50) / 2$ $(-20.71-21.13) \times (156.56+156.52) / 2$ $(-16.92-20.71) \times (156.65+156.56) / 2$ $(-15.79-16.92) \times (156.66+156.65) / 2$ $(-14.98-15.79) \times (156.66+156.66) / 2$ $(-14.09-14.98) \times (156.73+156.66) / 2$ $(-13.00-14.09) \times (156.78+156.73) / 2$ $(-10.36-13.00) \times (158.26+156.78) / 2$ $(-6.99-10.36) \times (161.30+158.26) / 2$ $(-5.23-6.99) \times (161.89+161.30) / 2$ $(-5.22-5.23) \times (161.89+161.89) / 2$ $(-1.39-5.22) \times (161.92+161.89) / 2$ $(0.04-1.39) \times (160.59+161.92) / 2$ $(0.93-0.04) \times (160.77+160.59) / 2$ $(2.98-0.93) \times (161.94+160.77) / 2$ $(8.82-2.98) \times (162.01+161.94) / 2$ $(8.83-8.82) \times (162.01+162.01) / 2$ $(9.63-8.83) \times (161.82+162.01) / 2$ $(14.71-9.63) \times (157.85+161.82) / 2$ $(16.66-14.71) \times (157.45+157.85) / 2$ $(17.39-16.66) \times (156.95+157.45) / 2$ $(19.19-17.39) \times (156.97+156.95) / 2$ $(21.32-19.19) \times (156.98+156.97) / 2$ $(22.99-21.32) \times (156.98+156.98) / 2$ $(16.66-22.99) \times (160.60+156.98) / 2$ $(14.66-16.66) \times (160.60+160.60) / 2$ $(5.91-14.66) \times (165.60+160.60) / 2$ $(4.90-5.91) \times (165.60+165.60) / 2$ $(5.42-4.90) \times (165.08+165.60) / 2$ $(4.50-5.42) \times (165.10+165.08) / 2$ $(-4.50-4.50) \times (165.10+165.10) / 2$ $(-5.42-4.50) \times (165.08+165.10) / 2$ $(-4.90-5.42) \times (165.60+165.08) / 2$ $(-5.91-4.90) \times (165.60+165.60) / 2$ $(-14.66-5.91) \times (160.60+165.60) / 2$ $(-16.66-14.66) \times (160.60+160.60) / 2$ $(-17.16-16.66) \times (160.31+160.60) / 2$ $(-21.91-17.16) \times (160.31+160.31) / 2$	-1441.91 -324.58 -474.66 -804.66 50.08 71.99 65.75 593.53 177.02 126.89 139.46 170.86 415.85 538.46 284.41 1.62 620.10 230.59 143.01 330.78 945.93 1.62 129.53 811.96 307.42 114.76 282.53 334.36 262.16 -1005.14 -321.20 -1427.13 -167.26 85.98 -151.88 -1485.90 -151.88 85.98 -167.26 -1427.13 -321.20 -80.23 -761.47	240.59	
R1-31 400.00	R1	$(-21.46-22.09) \times (154.73+154.52) / 2$ $(-20.92-21.46) \times (154.75+154.73) / 2$ $(-19.35-20.92) \times (155.00+154.75) / 2$ $(-19.32-19.35) \times (155.00+155.00) / 2$	97.41 83.56 243.15 4.65	145.05	
A RIPORTARE mq			428.77		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 13	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			428.77		
		$(-19.31--19.32) \times (155.00+155.00) / 2$	1.55		
		$(-17.29--19.31) \times (155.00+155.00) / 2$	313.10		
		$(-17.27--17.29) \times (155.00+155.00) / 2$	3.10		
		$(-15.28--17.27) \times (155.00+155.00) / 2$	308.45		
		$(-15.24--15.28) \times (155.00+155.00) / 2$	6.20		
		$(-13.12--15.24) \times (155.01+155.00) / 2$	328.61		
		$(-13.02--13.12) \times (155.01+155.01) / 2$	15.50		
		$(-11.65--13.02) \times (155.05+155.01) / 2$	212.39		
		$(-10.92--11.65) \times (155.03+155.05) / 2$	113.18		
		$(-10.53--10.92) \times (155.11+155.03) / 2$	60.48		
		$(-8.98--10.53) \times (155.04+155.11) / 2$	240.37		
		$(-8.74--8.98) \times (155.03+155.04) / 2$	37.21		
		$(-6.87--8.74) \times (155.05+155.03) / 2$	289.92		
		$(-5.15--6.87) \times (155.06+155.05) / 2$	266.69		
		$(-4.71--5.15) \times (155.05+155.06) / 2$	68.22		
		$(-3.84--4.71) \times (155.05+155.05) / 2$	134.89		
		$(-2.96--3.84) \times (155.03+155.05) / 2$	136.44		
		$(-2.28--2.96) \times (155.00+155.03) / 2$	105.41		
		$(-1.98--2.28) \times (154.96+155.00) / 2$	46.49		
		$(-1.86--1.98) \times (154.99+154.96) / 2$	18.60		
		$(-0.68--1.86) \times (154.97+154.99) / 2$	182.88		
		$(2.53--0.68) \times (154.97+154.97) / 2$	497.45		
		$(3.59--2.53) \times (154.86+154.97) / 2$	164.21		
		$(9.30--3.59) \times (154.65+154.86) / 2$	883.65		
		$(9.56--9.30) \times (154.63+154.65) / 2$	40.21		
		$(9.67--9.56) \times (154.62+154.63) / 2$	17.01		
		$(9.82--9.67) \times (154.61+154.62) / 2$	23.19		
		$(11.01--9.82) \times (154.57+154.61) / 2$	183.96		
		$(13.31--11.01) \times (154.51+154.57) / 2$	355.44		
		$(13.87--13.31) \times (154.38+154.51) / 2$	86.49		
		$(14.97--13.87) \times (154.25+154.38) / 2$	169.75		
		$(16.43--14.97) \times (154.12+154.25) / 2$	225.11		
		$(17.19--16.43) \times (154.20+154.12) / 2$	117.16		
		$(17.60--17.19) \times (154.21+154.20) / 2$	63.22		
		$(18.86--17.60) \times (154.18+154.21) / 2$	194.29		
		$(19.19--18.86) \times (154.16+154.18) / 2$	50.88		
		$(20.73--19.19) \times (154.31+154.16) / 2$	237.52		
		$(21.30--20.73) \times (154.27+154.31) / 2$	87.95		
		$(22.80--21.30) \times (154.27+154.27) / 2$	231.41		
		$(24.74--22.80) \times (154.40+154.27) / 2$	299.41		
		$(24.85--24.74) \times (154.39+154.40) / 2$	16.98		
		$(25.42--24.85) \times (154.34+154.39) / 2$	87.99		
		$(27.39--25.42) \times (154.07+154.34) / 2$	303.78		
		$(27.86--27.39) \times (154.19+154.07) / 2$	72.44		
		$(27.41--27.86) \times (154.45+154.19) / 2$	-69.44		
		$(25.41--27.41) \times (154.45+154.45) / 2$	-308.90		
		$(16.66--25.41) \times (159.45+154.45) / 2$	-1373.31		
		$(14.66--16.66) \times (159.45+159.45) / 2$	-318.90		
		$(5.91--14.66) \times (164.45+159.45) / 2$	-1417.06		
A RIPORTARE mq			4240.34		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 14	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			4240.34		
R1-32 409.76	R1	$(4.90-5.91) \times (164.45+164.45) / 2$	-166.09	300.29	
		$(5.38-4.90) \times (163.97+164.45) / 2$	78.82		
		$(4.50-5.38) \times (163.94+163.97) / 2$	-144.28		
		$(-4.50-4.50) \times (163.73+163.94) / 2$	-1474.51		
		$(-5.42-4.50) \times (163.70+163.73) / 2$	-150.62		
		$(-4.90-5.42) \times (164.22+163.70) / 2$	85.26		
		$(-5.91-4.90) \times (164.22+164.22) / 2$	-165.86		
		$(-13.51-5.91) \times (159.88+164.22) / 2$	-1231.58		
		$(-22.09-13.51) \times (159.88+159.88) / 2$	-1371.77		
		$(-3.41-22.34) \times (150.00+152.31) / 2$	2861.36		
		$(-1.10-3.41) \times (149.08+150.00) / 2$	345.44		
		$(6.51-1.10) \times (151.01+149.08) / 2$	1141.84		
		$(13.15-6.51) \times (152.00+151.01) / 2$	1005.99		
		$(22.64-13.15) \times (152.48+152.00) / 2$	1444.76		
$(26.12-22.64) \times (152.00+152.48) / 2$	529.80				
$(27.63-26.12) \times (151.89+152.00) / 2$	229.44				
$(29.94-27.63) \times (151.67+151.89) / 2$	350.61				
$(31.78-29.94) \times (151.33+151.67) / 2$	278.76				
$(27.41-31.78) \times (153.82+151.33) / 2$	-666.75				
$(25.41-27.41) \times (153.82+153.82) / 2$	-307.64				
$(16.66-25.41) \times (158.82+153.82) / 2$	-1367.80				
$(14.66-16.66) \times (158.82+158.82) / 2$	-317.64				
$(5.91-14.66) \times (163.82+158.82) / 2$	-1411.55				
$(4.90-5.91) \times (163.82+163.82) / 2$	-165.46				
$(5.37-4.90) \times (163.36+163.82) / 2$	76.89				
$(4.50-5.37) \times (163.31+163.36) / 2$	-142.10				
$(-4.50-4.50) \times (162.87+163.31) / 2$	-1467.81				
$(-5.44-4.50) \times (162.82+162.87) / 2$	-153.07				
$(-4.90-5.44) \times (163.36+162.82) / 2$	88.07				
$(-5.91-4.90) \times (163.36+163.36) / 2$	-164.99				
$(-12.50-5.91) \times (159.59+163.36) / 2$	-1064.12				
$(-22.34-12.50) \times (159.59+159.59) / 2$	-1570.37				
R1-33 420.00	R1	$(-20.80-22.41) \times (149.00+149.03) / 2$	239.91	446.34	
		$(-1.34-20.80) \times (148.74+149.00) / 2$	2897.01		
		$(27.75-1.34) \times (148.97+148.74) / 2$	4330.19		
		$(25.22-27.75) \times (153.15+153.15) / 2$	-387.47		
		$(16.66-25.22) \times (158.04+153.15) / 2$	-1331.89		
		$(14.66-16.66) \times (158.04+158.04) / 2$	-316.08		
		$(5.91-14.66) \times (163.04+158.04) / 2$	-1404.72		
		$(4.90-5.91) \times (163.04+163.04) / 2$	-164.67		
		$(5.37-4.90) \times (162.57+163.04) / 2$	76.52		
		$(4.50-5.37) \times (162.53+162.57) / 2$	-141.42		
		$(-4.50-4.50) \times (162.08+162.53) / 2$	-1460.75		
		$(-5.44-4.50) \times (162.04+162.08) / 2$	-152.34		
		$(-4.90-5.44) \times (162.57+162.04) / 2$	87.64		
		$(-5.91-4.90) \times (162.57+162.57) / 2$	-164.20		
$(-11.70-5.91) \times (159.26+162.57) / 2$	-931.70				
A RIPORTARE mq			1176.03		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA	<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE			Foglio n. 15
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			1176.03		
R1-34 440.00	R1	$(-22.41--11.70) \times (159.26+159.26) / 2$ $(-2.00--21.91) \times (148.00+148.39) / 2$ $(26.94--2.00) \times (148.24+148.00) / 2$ $(26.95-26.94) \times (148.10+148.24) / 2$ $(28.03-26.95) \times (148.14+148.10) / 2$ $(25.24-28.03) \times (151.60+151.60) / 2$ $(16.66-25.24) \times (156.50+151.60) / 2$ $(14.66-16.66) \times (156.50+156.50) / 2$ $(5.91-14.66) \times (161.50+156.50) / 2$ $(4.90-5.91) \times (161.50+161.50) / 2$ $(5.37-4.90) \times (161.04+161.50) / 2$ $(4.50-5.37) \times (160.99+161.04) / 2$ $(-4.50-4.50) \times (160.55+160.99) / 2$ $(-5.44--4.50) \times (160.50+160.55) / 2$ $(-4.90--5.44) \times (161.04+160.50) / 2$ $(-5.91--4.90) \times (161.04+161.04) / 2$ $(-10.28--5.91) \times (158.54+161.04) / 2$ $(-21.91--10.28) \times (158.54+158.54) / 2$	-1705.67 2950.56 4286.59 1.48 159.97 -422.96 -1321.75 -313.00 -1391.25 -163.11 75.80 -140.08 -1446.93 -150.89 86.82 -162.65 -698.28 -1843.82	529.64	
R1-35 455.35	R1	$(-6.67--20.93) \times (148.00+148.12) / 2$ $(-4.68--6.67) \times (148.00+148.00) / 2$ $(27.52--4.68) \times (147.69+148.00) / 2$ $(27.88-27.52) \times (147.00+147.69) / 2$ $(28.04-27.88) \times (146.91+147.00) / 2$ $(25.41-28.04) \times (150.32+150.32) / 2$ $(16.66-25.41) \times (155.32+150.32) / 2$ $(14.66-16.66) \times (155.32+155.32) / 2$ $(5.91-14.66) \times (160.32+155.32) / 2$ $(4.90-5.91) \times (160.32+160.32) / 2$ $(5.37-4.90) \times (159.86+160.32) / 2$ $(4.50-5.37) \times (159.81+159.86) / 2$ $(-4.50-4.50) \times (159.37+159.81) / 2$ $(-5.44--4.50) \times (159.32+159.37) / 2$ $(-4.90--5.44) \times (159.86+159.32) / 2$ $(-5.91--4.90) \times (159.86+159.86) / 2$ $(-9.26--5.91) \times (157.94+159.86) / 2$ $(-20.93--9.26) \times (157.94+157.94) / 2$	2111.34 294.52 4760.61 53.04 23.51 -395.34 -1337.18 -310.64 -1380.93 -161.92 75.24 -139.06 -1436.31 -149.78 86.18 -161.46 -532.31 -1843.16	493.50	
R1-36 460.00	R1	$(-20.49--20.54) \times (147.97+147.97) / 2$ $(-18.88--20.49) \times (147.95+147.97) / 2$ $(-17.69--18.88) \times (147.96+147.95) / 2$ $(-16.05--17.69) \times (147.94+147.96) / 2$ $(-14.79--16.05) \times (147.93+147.94) / 2$ $(-13.61--14.79) \times (147.92+147.93) / 2$ $(-13.25--13.61) \times (147.93+147.92) / 2$ $(-12.13--13.25) \times (147.92+147.93) / 2$ $(-10.99--12.13) \times (147.92+147.92) / 2$ $(-9.95--10.99) \times (147.92+147.92) / 2$	7.40 238.22 176.07 242.64 186.40 174.55 53.25 165.68 168.63 153.84	443.65	
A RIPORTARE mq			1566.68		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 16		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			1566.68		
R1-37 480.00	R1	$(-9.37-9.95) \times (147.92+147.92) / 2$	85.79		
		$(-5.74-9.37) \times (147.91+147.92) / 2$	536.93		
		$(1.82-5.74) \times (147.87+147.91) / 2$	1118.05		
		$(2.34-1.82) \times (147.89+147.87) / 2$	76.90		
		$(2.85-2.34) \times (147.90+147.89) / 2$	75.43		
		$(3.42-2.85) \times (147.92+147.90) / 2$	84.31		
		$(4.03-3.42) \times (147.95+147.92) / 2$	90.24		
		$(4.69-4.03) \times (147.93+147.95) / 2$	97.64		
		$(12.12-4.69) \times (147.85+147.93) / 2$	1098.82		
		$(18.15-12.12) \times (147.35+147.85) / 2$	890.03		
		$(19.76-18.15) \times (147.26+147.35) / 2$	237.16		
		$(22.15-19.76) \times (147.14+147.26) / 2$	351.81		
		$(25.16-22.15) \times (147.00+147.14) / 2$	442.68		
		$(25.70-25.16) \times (147.15+147.00) / 2$	79.42		
		$(26.89-25.70) \times (147.64+147.15) / 2$	175.40		
		$(27.94-26.89) \times (146.83+147.64) / 2$	154.60		
		$(28.00-27.94) \times (146.77+146.83) / 2$	8.81		
		$(25.41-28.00) \times (149.97+149.97) / 2$	-388.42		
		$(16.66-25.41) \times (154.97+149.97) / 2$	-1334.11		
		$(14.66-16.66) \times (154.97+154.97) / 2$	-309.94		
$(5.91-14.66) \times (159.97+154.97) / 2$	-1377.86				
$(4.90-5.91) \times (159.97+159.97) / 2$	-161.57				
$(5.37-4.90) \times (159.50+159.97) / 2$	75.08				
$(4.50-5.37) \times (159.46+159.50) / 2$	-138.75				
$(-4.50-4.50) \times (159.01+159.46) / 2$	-1433.12				
$(-5.44-4.50) \times (158.97+159.01) / 2$	-149.45				
$(-4.90-5.44) \times (159.50+158.97) / 2$	85.99				
$(-5.91-4.90) \times (159.50+159.50) / 2$	-161.09				
$(-8.97-5.91) \times (157.75+159.50) / 2$	-485.39				
$(-20.54-8.97) \times (157.75+157.75) / 2$	-1825.17				
				433.10	
R1-38 500.95	R1	$(5.80-18.29) \times (147.50+147.83) / 2$	3557.25		
		$(6.75-5.80) \times (147.00+147.50) / 2$	139.89		
		$(17.45-6.75) \times (146.26+147.00) / 2$	1568.94		
		$(14.66-17.45) \times (153.43+153.43) / 2$	-428.07		
		$(5.91-14.66) \times (158.43+153.43) / 2$	-1364.39		
		$(4.90-5.91) \times (158.43+158.43) / 2$	-160.01		
		$(5.37-4.90) \times (157.97+158.43) / 2$	74.35		
		$(4.50-5.37) \times (157.92+157.97) / 2$	-137.41		
		$(-4.50-4.50) \times (157.48+157.92) / 2$	-1419.30		
		$(-5.44-4.50) \times (157.43+157.48) / 2$	-148.01		
		$(-4.90-5.44) \times (157.97+157.43) / 2$	85.16		
		$(-5.91-4.90) \times (157.97+157.97) / 2$	-159.55		
		$(-7.79-5.91) \times (156.89+157.97) / 2$	-295.97		
		$(-18.29-7.79) \times (156.89+156.89) / 2$	-1647.34		
				334.46	
A RIPORTARE mq			2656.24		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE				Foglio n. 17	
STERRI E RIPORTI							
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE		
RIPORTIO mq			2656.24				
R1-39 520.00	R1	$(5.52-3.08) \times (146.39+146.48) / 2$	357.30				
		$(8.42-5.52) \times (147.00+146.39) / 2$	425.42				
		$(10.06-8.42) \times (148.00+147.00) / 2$	241.90				
		$(15.14-10.06) \times (148.86+148.00) / 2$	754.02				
		$(15.16-15.14) \times (151.82+148.86) / 2$	3.01				
		$(14.66-15.16) \times (151.82+151.82) / 2$	-75.91				
		$(5.91-14.66) \times (156.82+151.82) / 2$	-1350.30				
		$(4.90-5.91) \times (156.82+156.82) / 2$	-158.39				
		$(5.37-4.90) \times (156.36+156.82) / 2$	73.60				
		$(4.50-5.37) \times (156.31+156.36) / 2$	-136.01				
		$(-4.50-4.50) \times (155.87+156.31) / 2$	-1404.81				
		$(-5.44--4.50) \times (155.82+155.87) / 2$	-146.49				
		$(-4.90--5.44) \times (156.36+155.82) / 2$	84.29				
		$(-5.91--4.90) \times (156.36+156.36) / 2$	-157.92				
		$(-6.74--5.91) \times (155.89+156.36) / 2$	-129.58				
		$(-14.96--6.74) \times (155.89+155.89) / 2$	-1281.42				
						245.05	
		R1-40 528.64	R1	$(-10.86--10.94) \times (147.40+147.40) / 2$	11.79		
				$(-10.02--10.86) \times (147.41+147.40) / 2$	123.82		
				$(-8.85--10.02) \times (147.45+147.41) / 2$	172.49		
$(-7.93--8.85) \times (147.46+147.45) / 2$	135.66						
$(-6.92--7.93) \times (147.48+147.46) / 2$	148.94						
$(-5.71--6.92) \times (147.50+147.48) / 2$	178.46						
$(-4.96--5.71) \times (147.52+147.50) / 2$	110.63						
$(-3.56--4.96) \times (147.51+147.52) / 2$	206.52						
$(-3.14--3.56) \times (147.52+147.51) / 2$	61.96						
$(-2.64--3.14) \times (147.49+147.52) / 2$	73.75						
$(3.49--2.64) \times (147.32+147.49) / 2$	903.59						
$(4.14-3.49) \times (147.30+147.32) / 2$	95.75						
$(6.88-4.14) \times (149.00+147.30) / 2$	405.93						
$(8.66-6.88) \times (150.00+149.00) / 2$	266.11						
$(10.63-8.66) \times (151.00+150.00) / 2$	296.49						
$(11.21-10.63) \times (151.29+151.00) / 2$	87.66						
$(12.40-11.21) \times (151.29+151.29) / 2$	180.04						
$(12.62-12.40) \times (151.29+151.29) / 2$	33.28						
$(5.91-12.62) \times (155.12+151.29) / 2$	-1028.01						
$(4.90-5.91) \times (155.12+155.12) / 2$	-156.67						
$(5.40-4.90) \times (154.62+155.12) / 2$	77.44						
$(4.50-5.40) \times (154.62+154.62) / 2$	-139.16						
$(-4.50-4.50) \times (154.52+154.62) / 2$	-1391.13						
$(-5.42--4.50) \times (154.49+154.52) / 2$	-142.14						
$(-4.90--5.42) \times (155.01+154.49) / 2$	80.47						
$(-5.91--4.90) \times (155.01+155.01) / 2$	-156.56						
$(-6.24--5.91) \times (154.82+155.01) / 2$	-51.12						
$(-10.94--6.24) \times (154.82+154.82) / 2$	-727.65						
				141.66			
A RIPORTARE mq			356.08				

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 18		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			356.08		
R1-41 532.63	R1	$(-5.69-6.64) \times (147.79+147.77) / 2$	140.39	108.29	
		$(-3.82-5.69) \times (147.48+147.79) / 2$	276.08		
		$(2.05-3.82) \times (147.35+147.48) / 2$	865.33		
		$(2.71-2.05) \times (147.37+147.35) / 2$	97.26		
		$(5.83-2.71) \times (149.00+147.37) / 2$	462.34		
		$(7.75-5.83) \times (150.00+149.00) / 2$	287.04		
		$(9.40-7.75) \times (150.84+150.00) / 2$	248.19		
		$(10.70-9.40) \times (150.82+150.84) / 2$	196.08		
		$(12.18-10.70) \times (150.77+150.82) / 2$	223.18		
		$(5.91-12.18) \times (154.35+150.77) / 2$	-956.55		
		$(4.90-5.91) \times (154.35+154.35) / 2$	-155.89		
		$(5.42-4.90) \times (153.83+154.35) / 2$	80.13		
		$(4.50-5.42) \times (153.85+153.83) / 2$	-141.53		
		$(-4.50-4.50) \times (153.85+153.85) / 2$	-1384.65		
		$(-5.42-4.50) \times (153.83+153.85) / 2$	-141.53		
		$(-4.90-5.42) \times (154.35+153.83) / 2$	80.13		
		$(-5.91-4.90) \times (154.35+154.35) / 2$	-155.89		
		$(-6.02-5.91) \times (154.29+154.35) / 2$	-16.98		
		$(-9.05-6.02) \times (154.29+154.29) / 2$	-467.50		
		R1-42 540.00	R1		
$(-6.35-8.18) \times (147.93+147.93) / 2$	270.71				
$(-6.10-6.35) \times (147.94+147.93) / 2$	36.98				
$(-5.85-6.10) \times (147.95+147.94) / 2$	36.99				
$(-3.23-5.85) \times (147.51+147.95) / 2$	387.05				
$(-2.65-3.23) \times (147.49+147.51) / 2$	85.55				
$(1.68-2.65) \times (147.49+147.49) / 2$	638.63				
$(2.32-1.68) \times (147.46+147.49) / 2$	94.38				
$(5.22-2.32) \times (149.00+147.46) / 2$	429.87				
$(7.13-5.22) \times (150.00+149.00) / 2$	285.55				
$(8.40-7.13) \times (150.66+150.00) / 2$	190.92				
$(11.81-8.40) \times (150.67+150.66) / 2$	513.77				
$(5.91-11.81) \times (154.04+150.67) / 2$	-898.89				
$(4.90-5.91) \times (154.04+154.04) / 2$	-155.58				
$(5.42-4.90) \times (153.52+154.04) / 2$	79.97				
$(4.50-5.42) \times (153.55+153.52) / 2$	-141.25				
$(-4.50-4.50) \times (153.55+153.55) / 2$	-1381.95				
$(-5.42-4.50) \times (153.52+153.55) / 2$	-141.25				
$(-4.90-5.42) \times (154.04+153.52) / 2$	79.97				
$(-5.91-4.90) \times (154.04+154.04) / 2$	-155.58				
$(-8.24-5.91) \times (154.03+154.04) / 2$	-358.90				
A RIPORTARE mq			1178.19		

TABULATI MOVIMENTI MATERIA

Codice documento
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Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 19				
STERRI E RIPORTI							
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE		
RIPORTIO mq			1178.19				
R1-43 546.20	R1	(1.74-1.11)x(147.65+147.80)/2	93.07				
		(4.35-1.74)x(149.00+147.65)/2	387.13				
		(6.55-4.35)x(150.00+149.00)/2	328.90				
		(7.08-6.55)x(150.22+150.00)/2	79.56				
		(8.34-7.08)x(150.22+150.22)/2	189.28				
		(11.84-8.34)x(150.09+150.22)/2	525.54				
		(5.91-11.84)x(153.48+150.09)/2	-900.09				
		(4.90-5.91)x(153.48+153.48)/2	-155.01				
		(5.42-4.90)x(152.96+153.48)/2	79.67				
		(4.50-5.42)x(152.98+152.96)/2	-140.73				
		(-4.50-4.50)x(153.02+152.98)/2	-1377.00				
		(-5.41--4.50)x(153.01+153.02)/2	-139.24				
		(-4.90--5.41)x(153.52+153.01)/2	78.17				
(-5.91--4.90)x(153.52+153.52)/2	-155.06						
(-6.83--5.91)x(153.55+153.52)/2	-141.25		68.87				
R1-44 546.21	R1	(-5.32--5.88)x(150.00+150.00)/2	84.00				
		(-3.02--5.32)x(149.73+150.00)/2	344.69				
		(-1.32--3.02)x(149.00+149.73)/2	253.92				
		(-0.45--1.32)x(148.27+149.00)/2	129.31				
		(1.30--0.45)x(148.24+148.27)/2	259.45				
		(1.94-1.30)x(148.09+148.24)/2	94.83				
		(4.10-1.94)x(149.00+148.09)/2	320.86				
		(6.04-4.10)x(149.83+149.00)/2	289.87				
		(7.58-6.04)x(149.89+149.83)/2	230.78				
		(11.63-7.58)x(149.73+149.89)/2	606.73				
		(5.91-11.63)x(153.00+149.73)/2	-865.81				
		(4.90-5.91)x(153.00+153.00)/2	-154.53				
		(5.42-4.90)x(152.48+153.00)/2	79.42				
(4.50-5.42)x(152.51+152.48)/2	-140.30						
(-5.88-4.50)x(152.57+152.51)/2	-1583.37		50.15				
R1-44 546.21	R2	(-5.88--2.56)x(152.57+152.55)/2	-506.50				
		(-8.28--5.88)x(152.62+152.57)/2	-366.23				
		(-5.32--8.28)x(150.00+150.00)/2	444.00				
		(-3.02--5.32)x(149.73+150.00)/2	344.69				
		(-2.56--3.02)x(149.53+149.73)/2	68.83		15.21		
R1-44 546.21	R2	(-1.32--2.56)x(149.00+149.53)/2	185.09				
		(-0.44--1.32)x(148.27+149.00)/2	130.80				
		(1.30--0.44)x(148.24+148.27)/2	257.96				
		(1.94-1.30)x(148.09+148.24)/2	94.83				
		(4.10-1.94)x(149.00+148.09)/2	320.86				
		(6.04-4.10)x(149.83+149.00)/2	289.87				
		(7.58-6.04)x(149.89+149.83)/2	230.78				
		(11.63-7.58)x(149.73+149.89)/2	606.73				
		(5.91-11.63)x(153.00+149.73)/2	-865.81				
		(4.90-5.91)x(153.00+153.00)/2	-154.53				
		(5.42-4.90)x(152.48+153.00)/2	79.42				
		A RIPORTARE mq			1176.00		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 20		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			1176.00		
R1-45 560.00	S1	$(4.50-5.42) \times (152.51+152.48) / 2$ $(-2.56-4.50) \times (152.55+152.51) / 2$ $(-3.64--4.89) \times (151.85+151.97) / 2$ $(-3.21--3.64) \times (151.77+151.85) / 2$ $(-2.56--3.21) \times (151.57+151.77) / 2$ $(-4.89--2.56) \times (151.60+151.57) / 2$	-140.30 -1076.86 189.89 65.28 98.59 -353.19	41.16	
R1-45 560.00	R1	$(-2.56-3.75) \times (151.57+151.46) / 2$ $(-0.72--2.56) \times (151.00+151.57) / 2$ $(-0.67--0.72) \times (151.00+151.00) / 2$ $(-0.22--0.67) \times (150.70+151.00) / 2$ $(0.69--0.22) \times (150.00+150.70) / 2$ $(3.32-0.69) \times (148.91+150.00) / 2$ $(3.75-3.32) \times (148.89+148.91) / 2$	-956.06 278.36 7.55 67.88 136.82 393.07 64.03	0.57	
R1-45 560.00	R2	$(3.87-3.75) \times (148.88+148.89) / 2$ $(4.98-3.87) \times (149.00+148.88) / 2$ $(6.22-4.98) \times (149.13+149.00) / 2$ $(7.69-6.22) \times (149.13+149.13) / 2$ $(11.07-7.69) \times (148.99+149.13) / 2$ $(5.91-11.07) \times (151.94+148.99) / 2$ $(4.90-5.91) \times (151.94+151.94) / 2$ $(5.42-4.90) \times (151.42+151.94) / 2$ $(4.50-5.42) \times (151.45+151.42) / 2$ $(3.75-4.50) \times (151.46+151.45) / 2$	17.87 165.32 184.84 219.22 503.82 -776.40 -153.46 78.87 -139.32 -113.59	8.35	
R1-46 580.00	S1	$(-3.73--2.56) \times (150.16+150.12) / 2$ $(-2.56--3.73) \times (152.02+152.02) / 2$	-175.66 177.86	12.83	
R1-46 580.00	S2	$(-0.33--2.56) \times (152.02+152.02) / 2$ $(-0.29--0.33) \times (152.00+152.02) / 2$ $(1.62--0.29) \times (151.00+152.00) / 2$ $(3.53-1.62) \times (150.00+151.00) / 2$ $(3.75-3.53) \times (149.89+150.00) / 2$ $(-2.56-3.75) \times (150.12+149.89) / 2$	339.00 6.08 289.37 287.45 32.99 -946.53	2.20	
R1-46 580.00	R1	$(3.75-4.39) \times (149.89+149.86) / 2$ $(4.39-3.75) \times (149.55+149.89) / 2$	-95.92 95.82	8.36	
R1-46 580.00	R2	$(7.36-4.39) \times (148.00+149.55) / 2$ $(7.86-7.36) \times (147.73+148.00) / 2$ $(8.34-7.86) \times (147.80+147.73) / 2$ $(10.16-8.34) \times (147.92+147.80) / 2$ $(5.91-10.16) \times (150.35+147.92) / 2$ $(4.90-5.91) \times (150.35+150.35) / 2$ $(5.43-4.90) \times (149.82+150.35) / 2$ $(4.50-5.43) \times (149.86+149.82) / 2$ $(4.39-4.50) \times (149.86+149.86) / 2$	441.86 73.93 70.93 269.11 -633.82 -151.85 79.55 -139.35 -16.48	0.10	
A RIPORTARE mq			6.12		

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE			Foglio n. 21
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			6.12		
R1-47 582.63	S1	(-3.64-3.75) x (149.96+149.68) / 2 (0.28--3.64) x (151.81+151.83) / 2 (1.83-0.28) x (151.00+151.81) / 2 (3.74-1.83) x (150.00+151.00) / 2 (3.75-3.74) x (149.99+150.00) / 2	-1107.17 595.13 234.68 287.46 1.50	6.12	
R1-47 582.63	S2	(4.39-3.75) x (149.66+149.99) / 2 (3.75-4.39) x (149.68+149.66) / 2	95.89 -95.79	11.60	
R1-47 582.63	R1	(4.90-5.42) x (150.15+150.15) / 2 (5.42-4.90) x (149.63+150.15) / 2	-78.08 77.94	0.10	
R1-47 582.63	R1	(4.50-5.42) x (149.65+149.62) / 2 (4.39-4.50) x (149.66+149.65) / 2 (5.42-4.39) x (149.11+149.66) / 2	-137.66 -16.46 153.87	0.14	
R1-47 582.63	R2	(7.53-5.42) x (148.00+149.11) / 2 (8.31-7.53) x (147.58+148.00) / 2 (8.78-8.31) x (147.63+147.58) / 2 (10.16-8.78) x (147.72+147.63) / 2 (5.91-10.16) x (150.15+147.72) / 2 (5.42-5.91) x (150.15+150.15) / 2 (5.43-5.42) x (149.62+149.63) / 2 (5.42-5.43) x (149.62+149.62) / 2	313.45 115.28 69.37 203.79 -632.97 -73.57 1.50 -1.50	0.25	
R1-48 595.46	S1	(-3.50-4.39) x (148.97+148.67) / 2 (-2.68--3.50) x (151.10+151.62) / 2 (-0.95--2.68) x (151.00+151.10) / 2 (0.45--0.95) x (151.00+151.00) / 2 (2.08-0.45) x (151.00+151.00) / 2 (2.14-2.08) x (151.00+151.00) / 2 (3.89-2.14) x (150.00+151.00) / 2 (4.39-3.89) x (149.73+150.00) / 2	-1174.19 124.12 261.32 211.40 246.13 9.06 263.38 74.93	4.65	
R1-48 595.46	S2	(5.42-4.39) x (149.16+149.73) / 2 (4.90-5.42) x (149.16+149.16) / 2 (5.43-4.90) x (148.63+149.16) / 2 (4.50-5.43) x (148.67+148.63) / 2 (4.39-4.50) x (148.67+148.67) / 2	153.93 -77.56 78.91 -138.24 -16.35	16.15	
R1-48 595.46	R1	(5.42-5.78) x (149.16+149.16) / 2 (5.78-5.42) x (148.97+149.16) / 2	-53.70 53.66	0.69	
R1-48 595.46	R2	(7.53-5.78) x (148.00+148.97) / 2 (9.40-7.53) x (147.00+148.00) / 2 (9.85-9.40) x (146.76+147.00) / 2 (10.23-9.85) x (146.55+146.76) / 2 (10.35-10.23) x (146.62+146.55) / 2	259.85 275.82 66.10 55.73 17.59	0.04	
A RIPORTARE mq			675.09		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 22		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			675.09		
R1-49 600.00	S1	$(5.91-10.35) \times (149.16+146.62) / 2$ $(5.78-5.91) \times (149.16+149.16) / 2$ $(4.90-5.42) \times (148.81+148.81) / 2$ $(5.42-4.90) \times (148.29+148.81) / 2$ $(4.50-5.42) \times (148.32+148.29) / 2$ $(-3.50-4.50) \times (148.62+148.32) / 2$ $(-2.59--3.50) \times (151.00+151.58) / 2$ $(-2.49--2.59) \times (150.96+151.00) / 2$ $(2.16--2.49) \times (150.87+150.96) / 2$ $(3.69-2.16) \times (150.00+150.87) / 2$ $(5.42-3.69) \times (149.02+150.00) / 2$	-656.63 -19.39 -77.38 77.25 -136.44 -1187.76 137.67 15.10 701.75 230.17 258.65	0.93	
R1-49 600.00	S2	$(5.78-5.42) \times (148.81+149.02) / 2$ $(5.42-5.78) \times (148.81+148.81) / 2$	53.61 -53.57	19.01	
R1-49 600.00	S2	$(5.43-5.42) \times (148.29+148.29) / 2$ $(5.42-5.43) \times (148.29+148.29) / 2$	1.48 -1.48	0.04	
R1-49 600.00	R1	$(7.20-5.78) \times (148.00+148.81) / 2$ $(9.02-7.20) \times (147.00+148.00) / 2$ $(9.90-9.02) \times (146.53+147.00) / 2$ $(5.91-9.90) \times (148.81+146.53) / 2$ $(5.78-5.91) \times (148.81+148.81) / 2$	210.74 268.45 129.15 -589.20 -19.35	0.21	
R1-50 608.29	S1	$(4.90-5.78) \times (148.18+148.18) / 2$ $(5.43-4.90) \times (147.65+148.18) / 2$ $(4.50-5.43) \times (147.68+147.65) / 2$ $(-3.50-4.50) \times (147.98+147.68) / 2$ $(-2.82--3.50) \times (151.00+151.46) / 2$ $(-2.35--2.82) \times (150.67+151.00) / 2$ $(2.01--2.35) \times (150.60+150.67) / 2$ $(3.07-2.01) \times (150.00+150.60) / 2$ $(5.78-3.07) \times (148.47+150.00) / 2$	-130.40 78.39 -137.33 -1182.64 102.84 70.89 656.77 159.32 404.43	22.27	
R1-50 608.29	S2	$(6.61-5.78) \times (148.00+148.47) / 2$ $(8.38-6.61) \times (147.00+148.00) / 2$ $(10.15-8.38) \times (146.00+147.00) / 2$ $(10.46-10.15) \times (145.93+146.00) / 2$ $(9.84-10.46) \times (145.93+145.93) / 2$ $(5.91-9.84) \times (148.18+145.93) / 2$ $(5.78-5.91) \times (148.18+148.18) / 2$	123.04 261.08 259.30 45.25 -90.48 -577.93 -19.26		
R1-51 614.99	S1	$(4.90-5.78) \times (147.70+147.70) / 2$ $(5.42-4.90) \times (147.18+147.70) / 2$ $(4.50-5.42) \times (147.21+147.18) / 2$ $(-3.50-4.50) \times (147.44+147.21) / 2$ $(-3.17--3.50) \times (151.00+151.23) / 2$ $(-2.07--3.17) \times (150.22+151.00) / 2$	-129.98 76.67 -135.42 -1178.60 49.87 165.67	1.00	
A RIPORTARE mq			-1151.79		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 23	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			-1151.79		
R1-51 614.99	S2	(1.95--2.07) x (150.24+150.22) / 2	603.92	23.46	
		(2.43-1.95) x (150.00+150.24) / 2	72.06		
		(5.78-2.43) x (148.07+150.00) / 2	499.27		
R1-51 614.99	S2	(5.91-8.98) x (147.70+145.95) / 2	-450.75	0.97	
		(5.78-5.91) x (147.70+147.70) / 2	-19.20		
		(5.90-5.78) x (148.00+148.07) / 2	17.76		
		(7.67-5.90) x (147.00+148.00) / 2	261.07		
		(8.98-7.67) x (146.26+147.00) / 2	192.09		
			192.09		
R1-51 614.99	S3	(9.44-8.98) x (146.00+146.26) / 2	67.22	0.31	
		(10.26-9.44) x (145.57+146.00) / 2	119.54		
		(9.64-10.26) x (145.57+145.57) / 2	-90.25		
		(8.98-9.64) x (145.95+145.57) / 2	-96.20		
R1-52 615.00	S1	(-37.63--39.47) x (160.10+160.16) / 2	294.64	172.60	
		(-36.96--37.63) x (160.00+160.10) / 2	107.23		
		(-34.51--36.96) x (159.01+160.00) / 2	390.79		
		(-33.84--34.51) x (158.98+159.01) / 2	106.53		
		(-29.11--33.84) x (158.64+158.98) / 2	751.17		
		(-20.94--29.11) x (158.64+158.64) / 2	1296.09		
		(-17.67--20.94) x (157.00+158.64) / 2	516.07		
		(-16.08--17.67) x (156.00+157.00) / 2	248.84		
		(-14.19--16.08) x (155.03+156.00) / 2	293.92		
		(-10.45--14.19) x (155.30+155.03) / 2	580.32		
		(-9.80--10.45) x (155.00+155.30) / 2	100.85		
		(-8.27--9.80) x (154.00+155.00) / 2	236.39		
		(-6.62--8.27) x (153.00+154.00) / 2	253.27		
		(-5.05--6.62) x (152.00+153.00) / 2	239.43		
		(-3.59--5.05) x (151.00+152.00) / 2	221.19		
		(-2.22--3.59) x (150.00+151.00) / 2	206.18		
		(-1.99--2.22) x (149.87+150.00) / 2	34.49		
		(1.77--1.99) x (149.96+149.87) / 2	563.68		
		(5.25-1.77) x (148.00+149.96) / 2	518.45		
		(5.78-5.25) x (147.70+148.00) / 2	78.36		
		(4.90-5.78) x (147.70+147.70) / 2	-129.98		
		(5.42-4.90) x (147.18+147.70) / 2	76.67		
		(4.50-5.42) x (147.21+147.18) / 2	-135.42		
		(-8.99-4.50) x (147.60+147.21) / 2	-1988.49		
		(-10.02--8.99) x (147.90+147.90) / 2	-152.34		
		(-11.34--10.02) x (148.05+148.05) / 2	-195.43		
		(-21.34--11.34) x (153.05+148.05) / 2	-1505.50		
(-23.34--21.34) x (153.05+153.05) / 2	-306.10				
(-33.34--23.34) x (158.05+153.05) / 2	-1555.50				
(-35.34--33.34) x (158.05+158.05) / 2	-316.10				
(-39.47--35.34) x (160.16+158.05) / 2	-657.10				
R1-52 615.00	R1	(7.02-5.78) x (147.00+147.70) / 2	182.71	172.60	
		(8.80-7.02) x (146.00+147.00) / 2	260.77		
A RIPORTARE mq			443.48		

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE			Foglio n. 24
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			443.48		
R1-52 615.00	S2	$(8.98-8.80) \times (145.95+146.00) / 2$ $(5.91-8.98) \times (147.70+145.95) / 2$ $(5.78-5.91) \times (147.70+147.70) / 2$ $(10.26-8.98) \times (145.57+145.95) / 2$ $(9.64-10.26) \times (145.57+145.57) / 2$ $(8.98-9.64) \times (145.95+145.57) / 2$	26.28 -450.75 -19.20 186.57 -90.25 -96.20	0.19	
R1-53 620.00	S1	$(-8.98-4.18) \times (147.16+146.85) / 2$ $(-10.00-8.98) \times (147.46+147.46) / 2$ $(-11.32-10.00) \times (147.61+147.61) / 2$ $(-21.32-11.32) \times (152.61+147.61) / 2$ $(-23.32-21.32) \times (152.61+152.61) / 2$ $(-33.32-23.32) \times (157.61+152.61) / 2$ $(-35.32-33.32) \times (157.61+157.61) / 2$ $(-41.93-35.32) \times (160.96+157.61) / 2$ $(-34.69-41.93) \times (160.38+160.96) / 2$ $(-33.69-34.69) \times (160.00+160.38) / 2$ $(-33.10-33.69) \times (159.00+160.00) / 2$ $(-32.67-33.10) \times (158.00+159.00) / 2$ $(-30.76-32.67) \times (157.00+158.00) / 2$ $(-26.95-30.76) \times (156.81+157.00) / 2$ $(-25.32-26.95) \times (157.00+156.81) / 2$ $(-22.27-25.32) \times (157.00+157.00) / 2$ $(-20.02-22.27) \times (156.00+157.00) / 2$ $(-17.85-20.02) \times (155.00+156.00) / 2$ $(-17.12-17.85) \times (154.79+155.00) / 2$ $(-11.28-17.12) \times (154.70+154.79) / 2$ $(-10.13-11.28) \times (154.00+154.70) / 2$ $(-8.56-10.13) \times (153.00+154.00) / 2$ $(-7.00-8.56) \times (152.00+153.00) / 2$ $(-4.73-7.00) \times (150.72+152.00) / 2$ $(0.32-4.73) \times (150.69+150.72) / 2$ $(1.61-0.32) \times (150.00+150.69) / 2$ $(3.48-1.61) \times (149.00+150.00) / 2$ $(4.18-3.48) \times (148.62+149.00) / 2$	-1934.59 -150.41 -194.85 -1501.10 -305.22 -1551.10 -315.22 -1052.87 1163.25 160.19 94.10 68.15 300.83 597.81 255.76 478.85 352.13 337.43 113.07 903.71 177.50 241.00 237.90 343.59 761.06 193.95 279.57 104.17	0.12	
R1-53 620.00	S2	$(5.35-4.18) \times (148.00+148.62) / 2$ $(5.78-5.35) \times (147.77+148.00) / 2$ $(4.90-5.78) \times (147.34+147.34) / 2$ $(5.42-4.90) \times (146.82+147.34) / 2$ $(4.18-5.42) \times (146.85+146.82) / 2$	173.52 63.59 -129.66 76.48 -182.08	158.66	
R1-53 620.00	S3	$(5.91-8.98) \times (147.34+145.59) / 2$ $(5.78-5.91) \times (147.34+147.34) / 2$ $(7.22-5.78) \times (147.00+147.77) / 2$ $(8.98-7.22) \times (146.06+147.00) / 2$	-449.65 -19.15 212.23 257.89	1.85	
R1-53	S4	$(9.05-8.98) \times (146.02+146.06) / 2$	10.22	1.32	
A RIPORTARE mq			10.22		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 25	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			10.22		
620.00		(9.07-9.05)x(146.00+146.02) /2 (9.39-9.07)x(145.69+146.00) /2 (10.14-9.39)x(145.27+145.69) /2 (9.53-10.14)x(145.27+145.27) /2 (8.98-9.53)x(145.59+145.27) /2	2.92 46.67 109.11 -88.61 -79.99		
R1-54 640.00	S1	(-39.42--40.10)x(158.39+158.42) /2 (-37.35--39.42)x(158.32+158.39) /2 (-37.12--37.35)x(158.29+158.32) /2 (-37.09--37.12)x(158.28+158.29) /2 (-37.05--37.09)x(158.27+158.28) /2 (-35.53--37.05)x(158.31+158.27) /2 (-35.04--35.53)x(158.31+158.31) /2 (-34.23--35.04)x(158.39+158.31) /2 (-33.04--34.23)x(158.54+158.39) /2 (-32.93--33.04)x(158.52+158.54) /2 (-31.72--32.93)x(158.18+158.52) /2 (-30.76--31.72)x(157.13+158.18) /2 (-30.38--30.76)x(156.67+157.13) /2 (-30.02--30.38)x(156.23+156.67) /2 (-29.75--30.02)x(155.96+156.23) /2 (-28.88--29.75)x(154.91+155.96) /2 (-28.20--28.88)x(154.87+154.91) /2 (-27.13--28.20)x(154.86+154.87) /2 (-25.71--27.13)x(154.00+154.86) /2 (-24.54--25.71)x(153.87+154.00) /2 (-23.18--24.54)x(153.67+153.87) /2 (-21.76--23.18)x(153.36+153.67) /2 (-20.98--21.76)x(153.00+153.36) /2 (-14.82--20.98)x(152.75+153.00) /2 (-8.58--14.82)x(152.55+152.75) /2 (-7.75--8.58)x(152.00+152.55) /2 (-6.60--7.75)x(151.00+152.00) /2 (-5.30--6.60)x(149.86+151.00) /2 (-4.26--5.30)x(149.00+149.86) /2 (-3.12--4.26)x(148.00+149.00) /2 (-2.14--3.12)x(147.00+148.00) /2 (-1.85--2.14)x(146.84+147.00) /2 (0.89--1.85)x(146.96+146.84) /2 (2.74-0.89)x(146.00+146.96) /2 (4.18-2.74)x(145.26+146.00) /2 (-8.60-4.18)x(145.35+145.26) /2 (-9.62--8.60)x(145.65+145.65) /2 (-10.94--9.62)x(145.80+145.80) /2 (-20.94--10.94)x(150.80+145.80) /2 (-22.94--20.94)x(150.80+150.80) /2 (-32.94--22.94)x(155.80+150.80) /2 (-34.94--32.94)x(155.80+155.80) /2 (-40.10--34.94)x(158.42+155.80) /2	107.72 327.79 36.41 4.75 6.33 240.60 77.57 128.26 188.57 17.44 191.60 151.35 59.62 56.32 42.15 135.23 105.33 165.71 219.29 180.10 209.13 217.99 119.48 941.71 952.54 126.39 174.23 195.56 155.41 169.29 144.55 42.61 402.51 270.99 209.71 -1857.00 -148.56 -192.46 -1483.00 -301.60 -1533.00 -311.60 -810.69	0.32	
A RIPORTARE mq			136.33		

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 26		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			136.33		
R1-54 640.00	R1	(4.90-4.91)x(145.75+145.75)/2 (4.91-4.90)x(145.74+145.75)/2	-1.46 1.46	136.33	
R1-54 640.00	R1	(4.50-4.91)x(145.25+145.24)/2 (4.18-4.50)x(145.26+145.25)/2 (4.68-4.18)x(145.00+145.26)/2 (4.91-4.68)x(144.88+145.00)/2	-59.55 -46.48 72.56 33.34	0.13	
R1-54 640.00	R2	(6.61-4.91)x(144.00+144.88)/2 (7.00-6.61)x(143.80+144.00)/2 (7.67-7.00)x(143.80+143.80)/2 (8.71-7.67)x(144.00+143.80)/2 (8.91-8.71)x(144.04+144.00)/2 (5.91-8.91)x(145.75+144.04)/2 (4.91-5.91)x(145.75+145.75)/2 (5.42-4.91)x(145.23+145.74)/2 (4.91-5.42)x(145.24+145.23)/2	245.55 56.12 96.35 149.66 28.80 -434.68 -145.75 74.20 -74.07	3.82	
R1-55 658.29	S1	(-7.48-4.18)x(143.72+143.79)/2 (-8.51--7.48)x(144.02+144.02)/2 (-9.82--8.51)x(144.17+144.17)/2 (-19.82--9.82)x(149.17+144.17)/2 (-21.82--19.82)x(149.17+149.17)/2 (-31.82--21.82)x(154.17+149.17)/2 (-33.82--31.82)x(154.17+154.17)/2 (-42.00--33.82)x(158.30+154.17)/2 (-41.33--42.00)x(158.27+158.30)/2 (-38.50--41.33)x(157.83+158.27)/2 (-38.22--38.50)x(157.79+157.83)/2 (-36.66--38.22)x(157.60+157.79)/2 (-36.29--36.66)x(157.49+157.60)/2 (-35.76--36.29)x(157.37+157.49)/2 (-34.91--35.76)x(157.39+157.37)/2 (-34.25--34.91)x(157.50+157.39)/2 (-33.79--34.25)x(157.45+157.50)/2 (-33.10--33.79)x(157.62+157.45)/2 (-32.06--33.10)x(157.48+157.62)/2 (-31.55--32.06)x(157.39+157.48)/2 (-31.13--31.55)x(157.27+157.39)/2 (-30.51--31.13)x(156.59+157.27)/2 (-29.71--30.51)x(155.55+156.59)/2 (-29.20--29.71)x(154.99+155.55)/2 (-29.13--29.20)x(154.99+154.99)/2 (-28.01--29.13)x(154.44+154.99)/2 (-27.30--28.01)x(154.58+154.44)/2 (-26.97--27.30)x(154.20+154.58)/2 (-26.60--26.97)x(154.00+154.20)/2 (-25.52--26.60)x(153.33+154.00)/2	-1676.18 -148.34 -188.86 -1466.70 -298.34 -1516.70 -308.34 -1278.00 106.05 447.28 44.19 246.00 58.29 83.44 133.77 103.91 72.44 108.70 163.85 80.29 66.08 97.30 124.86 79.19 10.85 173.28 109.70 50.95 57.02 165.96		
A RIPORTARE mq			-4298.06		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 27	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			-4298.06		
R1-55 658.29	S2	$(-25.08--25.52) \times (152.78+153.33) / 2$	67.34	153.12	
		$(-23.36--25.08) \times (152.40+152.78) / 2$	262.45		
		$(-22.33--23.36) \times (152.32+152.40) / 2$	156.93		
		$(-21.91--22.33) \times (152.30+152.32) / 2$	63.97		
		$(-9.13--21.91) \times (151.60+152.30) / 2$	1941.92		
		$(-8.14--9.13) \times (151.00+151.60) / 2$	149.79		
		$(-7.02--8.14) \times (150.00+151.00) / 2$	168.56		
		$(-4.87--7.02) \times (148.00+150.00) / 2$	320.35		
		$(-4.28--4.87) \times (147.74+148.00) / 2$	87.24		
		$(-3.39--4.28) \times (147.00+147.74) / 2$	131.16		
R1-55 658.29	S3	$(-2.38--3.39) \times (146.00+147.00) / 2$	147.97	0.13	
		$(-1.85--2.38) \times (145.61+146.00) / 2$	77.28		
		$(1.11--1.85) \times (145.75+145.61) / 2$	431.21		
		$(2.55--1.11) \times (145.00+145.75) / 2$	209.34		
R1-55 658.29	R1	$(4.18--2.55) \times (144.16+145.00) / 2$	235.67	2.61	
		$(4.50--4.85) \times (143.79+143.78) / 2$	-50.32		
		$(4.18--4.50) \times (143.79+143.79) / 2$	-46.01		
		$(4.48--4.18) \times (144.00+144.16) / 2$	43.22		
		$(4.85--4.48) \times (143.81+144.00) / 2$	53.24		
		$(6.42--4.91) \times (143.00+143.78) / 2$	216.52		
		$(7.24--6.42) \times (142.42+143.00) / 2$	117.02		
		$(8.30--7.24) \times (142.92+142.42) / 2$	151.23		
		$(5.91--8.30) \times (144.29+142.92) / 2$	-343.22		
		$(4.90--5.91) \times (144.29+144.29) / 2$	-145.73		
R1-56 659.15	S1	$(5.42--4.90) \times (143.77+144.29) / 2$	74.90	2.61	
		$(4.91--5.42) \times (143.78+143.77) / 2$	-73.33		
		$(-41.18--41.84) \times (158.15+158.18) / 2$	104.39		
		$(-36.81--41.18) \times (157.29+158.15) / 2$	689.24		
		$(-36.08--36.81) \times (157.20+157.29) / 2$	114.79		
		$(-35.54--36.08) \times (156.95+157.20) / 2$	84.82		
		$(-34.81--35.54) \times (156.94+156.95) / 2$	114.57		
		$(-34.07--34.81) \times (157.06+156.94) / 2$	116.18		
		$(-33.31--34.07) \times (156.98+157.06) / 2$	119.34		
		$(-33.14--33.31) \times (156.95+156.98) / 2$	26.68		
		$(-33.07--33.14) \times (156.86+156.95) / 2$	10.98		
		$(-31.40--33.07) \times (156.47+156.86) / 2$	261.63		
		$(-30.86--31.40) \times (156.30+156.47) / 2$	84.45		
		$(-30.35--30.86) \times (155.59+156.30) / 2$	79.53		
$(-29.85--30.35) \times (154.94+155.59) / 2$	77.63				
$(-29.73--29.85) \times (154.82+154.94) / 2$	18.59				
$(-27.27--29.73) \times (154.72+154.82) / 2$	380.73				
$(-26.94--27.27) \times (154.56+154.72) / 2$	51.03				
$(-26.73--26.94) \times (154.60+154.56) / 2$	32.46				
A RIPORTARE mq			2367.04		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 28		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			2367.04		
		(-26.63--26.73)x(154.49+154.60)/2	15.45		
		(-25.73--26.63)x(154.02+154.49)/2	138.83		
		(-25.71--25.73)x(154.01+154.02)/2	3.08		
		(-25.68--25.71)x(153.97+154.01)/2	4.62		
		(-24.73--25.68)x(152.77+153.97)/2	145.70		
		(-24.52--24.73)x(152.54+152.77)/2	32.06		
		(-22.43--24.52)x(152.42+152.54)/2	318.68		
		(-21.54--22.43)x(152.00+152.42)/2	135.47		
		(-9.67--21.54)x(151.65+152.00)/2	1802.16		
		(-8.67--9.67)x(151.00+151.65)/2	151.32		
		(-7.61--8.67)x(150.00+151.00)/2	159.53		
		(-5.45--7.61)x(148.00+150.00)/2	321.84		
		(-4.41--5.45)x(147.00+148.00)/2	153.40		
		(-3.90--4.41)x(147.00+147.00)/2	74.97		
		(-3.82--3.90)x(147.10+147.00)/2	11.76		
		(-3.69--3.82)x(147.00+147.10)/2	19.12		
		(-2.59--3.69)x(146.00+147.00)/2	161.15		
		(-1.86--2.59)x(145.37+146.00)/2	106.35		
		(1.32--1.86)x(145.54+145.37)/2	462.55		
		(2.36--1.32)x(145.00+145.54)/2	151.08		
		(4.30--2.36)x(144.00+145.00)/2	280.33		
		(4.85--4.30)x(143.71+144.00)/2	79.12		
		(4.50--4.85)x(143.72+143.71)/2	-50.30		
		(-7.42--4.50)x(143.65+143.72)/2	-1712.73		
		(-8.45--7.42)x(143.95+143.95)/2	-148.27		
		(-9.76--8.45)x(144.10+144.10)/2	-188.77		
		(-19.76--9.76)x(149.10+144.10)/2	-1466.00		
		(-21.76--19.76)x(149.10+149.10)/2	-298.20		
		(-31.76--21.76)x(154.10+149.10)/2	-1516.00		
		(-33.76--31.76)x(154.10+154.10)/2	-308.20		
		(-41.84--33.76)x(158.18+154.10)/2	-1261.61		
R1-56 659.15	R1	(4.90--4.91)x(144.22+144.22)/2	-1.44	145.53	
		(4.91--4.90)x(144.21+144.22)/2	1.44		
R1-56 659.15	R1	(4.85--4.91)x(143.71+143.71)/2	-8.62		
		(4.91--4.85)x(143.68+143.71)/2	8.62		
R1-56 659.15	R2	(6.23--4.91)x(143.00+143.68)/2	189.21		
		(6.82--6.23)x(142.70+143.00)/2	84.28		
		(7.50--6.82)x(142.69+142.70)/2	97.03		
		(8.26--7.50)x(142.88+142.69)/2	108.52		
		(5.91--8.26)x(144.22+142.88)/2	-337.34		
		(4.91--5.91)x(144.22+144.22)/2	-144.22		
		(5.42--4.91)x(143.70+144.21)/2	73.42		
		(4.91--5.42)x(143.71+143.70)/2	-73.29		
R1-57 660.00	S1	(4.50--4.85)x(143.66+143.65)/2	-50.28	2.39	
		(-7.37--4.50)x(143.58+143.66)/2	-1704.77		
A RIPORTARE mq			-1755.05		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 29	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			-1755.05		
		(-8.39--7.37) x (143.88+143.88) / 2	-146.76		
		(-9.71--8.39) x (144.03+144.03) / 2	-190.12		
		(-19.71--9.71) x (149.03+144.03) / 2	-1465.30		
		(-21.71--19.71) x (149.03+149.03) / 2	-298.06		
		(-31.71--21.71) x (154.03+149.03) / 2	-1515.30		
		(-33.71--31.71) x (154.03+154.03) / 2	-308.06		
		(-40.02--33.71) x (157.23+154.03) / 2	-982.03		
		(-39.35--40.02) x (157.20+157.23) / 2	105.33		
		(-37.94--39.35) x (157.24+157.20) / 2	221.68		
		(-36.94--37.94) x (157.31+157.24) / 2	157.28		
		(-35.81--36.94) x (157.01+157.31) / 2	177.59		
		(-34.60--35.81) x (157.09+157.01) / 2	190.03		
		(-33.28--34.60) x (156.72+157.09) / 2	207.11		
		(-33.12--33.28) x (156.68+156.72) / 2	25.07		
		(-33.00--33.12) x (156.63+156.68) / 2	18.80		
		(-31.19--33.00) x (156.08+156.63) / 2	283.00		
		(-30.06--31.19) x (155.66+156.08) / 2	176.13		
		(-29.38--30.06) x (155.67+155.66) / 2	105.85		
		(-28.47--29.38) x (155.64+155.67) / 2	141.65		
		(-28.43--28.47) x (155.60+155.64) / 2	6.22		
		(-28.26--28.43) x (155.54+155.60) / 2	26.45		
		(-27.75--28.26) x (155.18+155.54) / 2	79.23		
		(-26.04--27.75) x (155.08+155.18) / 2	265.27		
		(-25.47--26.04) x (155.01+155.08) / 2	88.38		
		(-25.16--25.47) x (154.97+155.01) / 2	48.05		
		(-23.61--25.16) x (154.90+154.97) / 2	240.15		
		(-22.79--23.61) x (154.83+154.90) / 2	126.99		
		(-21.89--22.79) x (154.65+154.83) / 2	139.27		
		(-21.83--21.89) x (154.64+154.65) / 2	9.28		
		(-21.14--21.83) x (154.91+154.64) / 2	106.79		
		(-21.09--21.14) x (154.94+154.91) / 2	7.75		
		(-20.70--21.09) x (154.85+154.94) / 2	60.41		
		(-19.27--20.70) x (154.18+154.85) / 2	220.96		
		(-18.44--19.27) x (153.89+154.18) / 2	127.85		
		(-18.02--18.44) x (153.63+153.89) / 2	64.58		
		(-17.88--18.02) x (153.33+153.63) / 2	21.49		
		(-17.04--17.88) x (152.64+153.33) / 2	128.51		
		(-16.42--17.04) x (153.02+152.64) / 2	94.75		
		(-15.99--16.42) x (150.87+153.02) / 2	65.34		
		(-15.42--15.99) x (148.68+150.87) / 2	85.37		
		(-15.40--15.42) x (148.65+148.68) / 2	2.97		
		(-15.39--15.40) x (148.59+148.66) / 2	1.49		
		(-14.82--15.39) x (147.14+148.59) / 2	84.28		
		(-13.51--14.82) x (146.90+147.14) / 2	192.60		
		(-13.02--13.51) x (146.63+146.90) / 2	71.91		
		(-12.94--13.02) x (146.58+146.63) / 2	11.73		
		(-10.97--12.94) x (145.63+146.58) / 2	287.83		
		(-10.68--10.97) x (145.63+145.63) / 2	42.23		
		(-8.40--10.68) x (145.13+145.63) / 2	331.47		
A RIPORTARE mq			-1811.56		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE				Foglio n. 30
STERRI E RIPORTI						
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE	
RIPORTIO mq			-1811.56			
R1-57 660.00	S2	$(-6.68-8.40) \times (145.07+145.13) / 2$	249.57	105.13		
		$(-6.02-6.68) \times (145.06+145.07) / 2$	95.74			
		$(-3.35-6.02) \times (144.73+145.06) / 2$	386.87			
		$(-2.25-3.35) \times (144.64+144.73) / 2$	159.15			
		$(-1.34-2.25) \times (144.54+144.64) / 2$	131.58			
		$(-0.26-1.34) \times (144.48+144.54) / 2$	156.07			
		$(4.85-0.26) \times (144.25+144.48) / 2$	737.71			
R1-57 660.00	S2	$(4.90-4.94) \times (144.15+144.15) / 2$	-5.77	0.05		
		$(4.94-4.90) \times (144.11+144.15) / 2$	5.77			
		$(4.85-4.94) \times (143.65+143.65) / 2$	-12.93			
		$(4.94-4.85) \times (144.25+144.25) / 2$	12.98			
R1-57 660.00	S3	$(5.49-4.94) \times (144.22+144.25) / 2$	79.33	0.06		
		$(5.63-5.49) \times (144.21+144.22) / 2$	20.19			
		$(5.72-5.63) \times (144.19+144.21) / 2$	12.98			
		$(5.91-5.72) \times (144.15+144.19) / 2$	27.39			
		$(4.94-5.91) \times (144.15+144.15) / 2$	-139.83			
R1-57 660.00	S3	$(5.42-4.94) \times (143.64+144.11) / 2$	69.06	0.11		
		$(4.94-5.42) \times (143.65+143.64) / 2$	-68.95			
R1-58 680.00	S1	$(-10.68-10.92) \times (144.00+144.00) / 2$	34.56	12.97		
		$(-8.40-10.68) \times (143.50+144.00) / 2$	327.75			
		$(-6.68-8.40) \times (143.44+143.50) / 2$	246.77			
		$(-6.02-6.68) \times (143.43+143.44) / 2$	94.67			
		$(-3.35-6.02) \times (143.10+143.43) / 2$	382.52			
		$(-2.25-3.35) \times (143.01+143.10) / 2$	157.36			
		$(-1.34-2.25) \times (142.91+143.01) / 2$	130.09			
		$(-0.26-1.34) \times (142.85+142.91) / 2$	154.31			
		$(4.94-0.26) \times (142.62+142.85) / 2$	742.22			
		$(5.40-4.94) \times (142.16+142.62) / 2$	65.50			
		$(4.50-5.40) \times (142.16+142.16) / 2$	-127.94			
		$(-5.90-4.50) \times (142.02+142.16) / 2$	-1477.74			
		$(-6.92-5.90) \times (142.32+142.32) / 2$	-145.17			
		$(-8.24-6.92) \times (142.47+142.47) / 2$	-188.06			
		$(-10.92-8.24) \times (144.00+142.47) / 2$	-383.87			
R1-58 680.00	R1	$(5.49-4.94) \times (142.59+142.62) / 2$	78.43	0.12		
		$(5.63-5.49) \times (142.57+142.59) / 2$	19.96			
		$(5.72-5.63) \times (142.56+142.57) / 2$	12.83			
		$(5.87-5.72) \times (142.53+142.56) / 2$	21.38			
		$(6.41-5.87) \times (142.37+142.53) / 2$	76.92			
		$(5.91-6.41) \times (142.66+142.37) / 2$	-71.26			
		$(4.90-5.91) \times (142.66+142.66) / 2$	-144.09			
		$(4.94-4.90) \times (142.62+142.66) / 2$	5.71			
R1-59 694.82	R1	$(4.90-4.94) \times (141.55+141.55) / 2$	-5.66			
		$(4.94-4.90) \times (141.51+141.55) / 2$	5.66			
A RIPORTARE mq			0.00			

TABULATI MOVIMENTI MATERIA

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Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 31		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			0.00		
R1-59 694.82	R1	$(4.50-4.94) \times (141.05+141.06) / 2$ $(-4.50-4.50) \times (140.87+141.05) / 2$ $(-5.42--4.50) \times (140.85+140.87) / 2$ $(-4.90--5.42) \times (141.36+140.85) / 2$ $(-5.91--4.90) \times (141.36+141.36) / 2$ $(-10.22--5.91) \times (138.90+141.36) / 2$ $(-8.83--10.22) \times (138.00+138.90) / 2$ $(-7.17--8.83) \times (137.00+138.00) / 2$ $(-5.95--7.17) \times (137.00+137.00) / 2$ $(-3.70--5.95) \times (136.00+137.00) / 2$ $(-0.09--3.70) \times (136.00+136.00) / 2$ $(0.31--0.09) \times (137.00+136.00) / 2$ $(0.44-0.31) \times (137.00+137.00) / 2$ $(1.14-0.44) \times (137.00+137.00) / 2$ $(3.46-1.14) \times (137.00+137.00) / 2$ $(3.92-3.46) \times (137.00+137.00) / 2$ $(4.37-3.92) \times (138.00+137.00) / 2$ $(4.82-4.37) \times (139.00+138.00) / 2$ $(4.94-4.82) \times (139.33+139.00) / 2$	-62.06 -1268.64 -129.59 73.37 -142.77 -603.96 192.45 228.25 167.14 307.13 490.96 54.60 17.81 95.90 317.84 63.02 61.88 62.33 16.70		
R1-59 694.82	R2	$(5.20-4.94) \times (140.00+139.33) / 2$ $(7.22-5.20) \times (140.80+140.00) / 2$ $(5.91-7.22) \times (141.55+140.80) / 2$ $(4.94-5.91) \times (141.55+141.55) / 2$ $(5.39-4.94) \times (141.06+141.51) / 2$ $(4.94-5.39) \times (141.06+141.06) / 2$	36.31 283.61 -184.94 -137.30 63.58 -63.48	57.64	
R1-60b 704.83	R1	$(-4.50-4.08) \times (140.06+140.29) / 2$ $(-5.42--4.50) \times (140.04+140.06) / 2$ $(-4.90--5.42) \times (140.56+140.04) / 2$ $(-5.91--4.90) \times (140.56+140.56) / 2$ $(-14.16--5.91) \times (135.84+140.56) / 2$ $(-7.04--14.16) \times (135.12+135.84) / 2$ $(-6.31--7.04) \times (135.22+135.12) / 2$ $(-5.02--6.31) \times (135.05+135.22) / 2$ $(0.01--5.02) \times (135.01+135.05) / 2$ $(0.65-0.01) \times (136.01+135.01) / 2$ $(0.75-0.65) \times (136.01+136.01) / 2$ $(3.27-0.75) \times (136.01+136.01) / 2$ $(4.08-3.27) \times (136.01+136.01) / 2$	-1202.70 -128.85 72.96 -141.97 -1140.15 964.62 98.67 174.32 679.20 86.73 13.60 342.75 110.17		
R1-60b 704.83	R2	$(4.50-4.66) \times (140.30+140.30) / 2$ $(4.08-4.50) \times (140.29+140.30) / 2$ $(4.66-4.08) \times (136.01+136.01) / 2$	-22.45 -58.92 78.89	70.65	
R1-60b 704.83	R3	$(4.79-4.66) \times (136.01+136.01) / 2$ $(5.59-4.79) \times (136.01+136.01) / 2$ $(5.68-5.59) \times (140.23+136.01) / 2$	17.68 108.81 12.43	2.48	
A RIPORTARE mq			138.92		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE			Foglio n. 32
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			138.92		
R1-61 714.87	R1	(6.24-5.68) x (140.23+140.23) / 2 (6.87-6.24) x (140.26+140.23) / 2 (5.91-6.87) x (140.80+140.26) / 2 (4.90-5.91) x (140.80+140.80) / 2 (5.38-4.90) x (140.32+140.80) / 2 (4.66-5.38) x (140.30+140.32) / 2	78.53 88.35 -134.91 -142.21 67.47 -101.02	4.87	
R1-61 714.87	R2	(-4.50-3.34) x (139.21+139.50) / 2 (-5.43--4.50) x (139.17+139.21) / 2 (-4.90--5.43) x (139.70+139.17) / 2 (-5.91--4.90) x (139.70+139.70) / 2 (-8.77--5.91) x (138.06+139.70) / 2 (1.02--8.77) x (138.15+138.06) / 2 (1.42-1.02) x (138.16+138.15) / 2 (3.04-1.42) x (139.00+138.16) / 2 (3.34-3.04) x (139.16+139.00) / 2	-1092.54 -129.45 73.90 -141.10 -397.20 1352.05 55.26 224.50 41.72	12.86	
R1-61 714.87	S1	(4.00-3.34) x (139.51+139.16) / 2 (4.08-4.00) x (139.53+139.51) / 2 (3.34-4.08) x (139.50+139.53) / 2	91.96 11.16 -103.24	0.12	
R1-61 714.87	S2	(4.08-4.20) x (139.53+139.53) / 2 (4.20-4.08) x (139.56+139.53) / 2	-16.74 16.75	0.01	
R1-61 714.87	S3	(4.20-4.36) x (139.53+139.54) / 2 (4.36-4.20) x (139.59+139.56) / 2	-22.33 22.33		
R1-61 714.87	R3	(4.60-4.36) x (139.64+139.59) / 2 (4.66-4.60) x (139.55+139.64) / 2 (4.50-4.66) x (139.55+139.55) / 2 (4.36-4.50) x (139.54+139.55) / 2	33.51 8.38 -22.33 -19.54	0.02	
R1-61 714.87	R3	(4.90-5.34) x (140.05+140.05) / 2 (5.34-4.90) x (139.61+140.05) / 2	-61.62 61.53	0.09	
R1-61 714.87	R3	(4.66-5.34) x (139.55+139.58) / 2 (4.74-4.66) x (139.44+139.55) / 2 (5.26-4.74) x (139.48+139.44) / 2 (5.34-5.26) x (139.49+139.48) / 2	-94.90 11.16 72.52 11.16	0.06	
R1-61 714.87	R4	(6.78-5.34) x (139.55+139.49) / 2 (5.91-6.78) x (140.05+139.55) / 2 (5.34-5.91) x (140.05+140.05) / 2 (5.37-5.34) x (139.58+139.61) / 2 (5.34-5.37) x (139.58+139.58) / 2	200.91 -121.63 -79.83 4.19 -4.19	0.55	
R1-62 720.00	R1	(-4.50-0.72) x (138.80+138.99) / 2 (-5.43--4.50) x (138.76+138.80) / 2 (-4.90--5.43) x (139.29+138.76) / 2	-725.03 -129.07 73.68		
A RIPORTARE mq			-780.42		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 33	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			-780.42		
R1-62 720.00	R2	$(-5.91-4.90) \times (139.29+139.29) / 2$	-140.68		
		$(-8.97-5.91) \times (137.54+139.29) / 2$	-423.55		
		$(-0.07-8.97) \times (137.69+137.54) / 2$	1224.77		
		$(0.34-0.07) \times (137.69+137.69) / 2$	56.45		
		$(0.72-0.34) \times (137.86+137.69) / 2$	52.35		11.08
R1-62 720.00	S1	$(1.05-0.72) \times (138.00+137.86) / 2$	45.52		
		$(3.17-1.05) \times (139.00+138.00) / 2$	293.62		
		$(3.34-3.17) \times (139.09+139.00) / 2$	23.64		
		$(0.72-3.34) \times (138.99+139.09) / 2$	-364.28		1.50
R1-62 720.00	S2	$(3.34-4.08) \times (139.09+139.12) / 2$	-102.94		
		$(3.46-3.34) \times (139.15+139.09) / 2$	16.69		
		$(4.06-3.46) \times (139.33+139.15) / 2$	83.54		0.08
R1-62 720.00	S3	$(4.08-4.06) \times (139.30+139.33) / 2$	2.79		
		$(4.20-4.08) \times (139.12+139.30) / 2$	16.71		
R1-62 720.00	S4	$(4.08-4.20) \times (139.12+139.12) / 2$	-16.69		0.02
		$(4.50-4.66) \times (139.14+139.14) / 2$	-22.26		
R1-62 720.00	S5	$(4.36-4.50) \times (139.13+139.14) / 2$	-19.48		
		$(4.66-4.36) \times (139.17+139.13) / 2$	41.74		
		$(4.66-4.96) \times (139.14+139.15) / 2$	-41.74		
R1-62 720.00	R3	$(4.72-4.66) \times (139.18+139.17) / 2$	8.35		
		$(4.96-4.72) \times (139.19+139.18) / 2$	33.40		0.01
R1-62 720.00	R1	$(5.34-4.96) \times (139.20+139.19) / 2$	52.89		
		$(5.37-5.34) \times (139.17+139.20) / 2$	4.18		
		$(4.96-5.37) \times (139.15+139.17) / 2$	-57.06		0.01
R1-62 720.00	R1	$(6.59-5.34) \times (139.26+139.20) / 2$	174.04		
		$(5.91-6.59) \times (139.64+139.26) / 2$	-94.83		
		$(4.90-5.91) \times (139.64+139.64) / 2$	-141.04		
		$(5.34-4.90) \times (139.20+139.64) / 2$	61.34		0.49
R1-63 740.00	R1	$(-4.50-1.14) \times (137.20+137.32) / 2$	-461.19		
		$(-5.43-4.50) \times (137.16+137.20) / 2$	-127.58		
		$(-4.90-5.43) \times (137.69+137.16) / 2$	72.84		
		$(-5.91-4.90) \times (137.69+137.69) / 2$	-139.07		
		$(-10.37-5.91) \times (135.14+137.69) / 2$	-608.41		
		$(-8.32-10.37) \times (135.00+135.14) / 2$	276.89		
		$(-8.15-8.32) \times (134.99+135.00) / 2$	22.95		
		$(-8.04-8.15) \times (135.00+134.99) / 2$	14.85		
		$(-3.39-8.04) \times (135.51+135.00) / 2$	628.94		
		$(-2.99-3.39) \times (135.52+135.51) / 2$	54.21		
		$(-2.16-2.99) \times (136.00+135.52) / 2$	112.68		
		$(-1.14-2.16) \times (136.46+136.00) / 2$	138.95		13.94
		A RIPORTARE mq			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE			Foglio n. 34
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq					
R1-63 740.00	R2	(0.04--1.14) x (137.00+136.46) / 2 (0.72-0.04) x (137.39+137.00) / 2 (-1.14-0.72) x (137.32+137.39) / 2	161.34 93.29 -255.48		
R1-63 740.00	S1	(0.72-3.34) x (137.39+137.49) / 2 (1.53-0.72) x (137.86+137.39) / 2 (2.20-1.53) x (138.04+137.86) / 2 (2.36-2.20) x (137.85+138.04) / 2 (2.85-2.36) x (137.89+137.85) / 2 (3.34-2.85) x (137.91+137.89) / 2	-360.09 111.48 92.43 22.07 67.56 67.57	0.85	
R1-63 740.00	S2	(3.34-4.20) x (137.49+137.52) / 2 (4.20-3.34) x (137.95+137.91) / 2	-118.25 118.62	1.02	
R1-63 740.00	S3	(4.20-4.36) x (137.52+137.53) / 2 (4.36-4.20) x (137.96+137.95) / 2	-22.00 22.07	0.37	
R1-63 740.00	S4	(4.36-4.50) x (137.53+137.54) / 2 (4.50-4.36) x (137.96+137.96) / 2	-19.25 19.31	0.07	
R1-63 740.00	S5	(4.96-4.50) x (137.98+137.96) / 2 (5.37-4.96) x (137.57+137.98) / 2 (4.50-5.37) x (137.54+137.57) / 2	63.47 56.49 -119.67	0.06	
R1-63 740.00	R3	(4.90-5.34) x (138.04+138.04) / 2 (4.96-4.90) x (137.98+138.04) / 2 (5.34-4.96) x (138.00+137.98) / 2	-60.74 8.28 52.44	0.29	
R1-63 740.00	R4	(5.94-5.34) x (138.03+138.00) / 2 (5.91-5.94) x (138.04+138.03) / 2 (5.34-5.91) x (138.04+138.04) / 2	82.81 -4.14 -78.68	0.02	
R1-64 760.00	R1	(-4.50--2.53) x (135.74+135.82) / 2 (-5.43--4.50) x (135.71+135.74) / 2 (-4.90--5.43) x (136.23+135.71) / 2 (-5.91--4.90) x (136.23+136.23) / 2 (-9.14--5.91) x (134.39+136.23) / 2 (-7.77--9.14) x (134.29+134.39) / 2 (-4.64--7.77) x (134.22+134.29) / 2 (-4.03--4.64) x (134.22+134.22) / 2 (-2.68--4.03) x (135.00+134.22) / 2 (-2.53--2.68) x (135.09+135.00) / 2	-267.49 -126.22 72.06 -137.59 -437.05 184.05 420.22 81.87 181.72 20.26	0.01	
R1-64 760.00	R2	(-1.14--2.53) x (135.87+135.09) / 2 (-2.53--1.14) x (135.82+135.87) / 2	188.32 -188.82	8.17	
R1-64 760.00	S1	(-1.14-0.72) x (135.87+135.94) / 2 (-0.91--1.14) x (136.00+135.87) / 2 (-0.14--0.91) x (136.44+136.00) / 2	-252.78 31.27 104.89	0.50	
A RIPORTARE mq			-116.62		

TABULATI MOVIMENTI MATERIA

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Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 35		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			-116.62		
R1-64 760.00	S2	$(0.53-0.14) \times (136.72+136.44) / 2$	91.51	0.85	
		$(0.65-0.53) \times (136.59+136.72) / 2$	16.40		
		$(0.72-0.65) \times (136.59+136.59) / 2$	9.56		
R1-65 773.85	R1	$(4.50-0.72) \times (136.73+136.59) / 2$	516.57	2.45	
		$(0.72-4.50) \times (135.94+136.08) / 2$	-514.12		
R1-65 773.85	R1	$(-4.50--3.02) \times (134.93+134.98) / 2$	-199.73	5.55	
		$(-5.43--4.50) \times (134.89+134.93) / 2$	-125.47		
		$(-4.90--5.43) \times (135.42+134.89) / 2$	71.63		
		$(-5.91--4.90) \times (135.42+135.42) / 2$	-136.77		
		$(-8.39--5.91) \times (134.00+135.42) / 2$	-334.08		
		$(-8.15--8.39) \times (134.00+134.00) / 2$	32.16		
		$(-6.33--8.15) \times (133.39+134.00) / 2$	243.32		
		$(-5.73--6.33) \times (133.40+133.39) / 2$	80.04		
		$(-4.53--5.73) \times (134.00+133.40) / 2$	160.44		
		$(-3.02--4.53) \times (134.76+134.00) / 2$	202.91		
R1-65 773.85	R2	$(-2.53--3.02) \times (135.00+134.76) / 2$	66.09	0.06	
		$(-3.02--2.53) \times (134.98+135.00) / 2$	-66.15		
R1-65 773.85	S1	$(-2.53--1.14) \times (135.00+135.05) / 2$	-187.68	0.45	
		$(-1.14--2.53) \times (135.69+135.00) / 2$	188.13		
R1-65 773.85	S2	$(-1.01--1.14) \times (135.75+135.69) / 2$	17.64	4.11	
		$(-0.41--1.01) \times (135.96+135.75) / 2$	81.51		
		$(-0.25--0.41) \times (135.80+135.96) / 2$	21.74		
		$(0.24--0.25) \times (135.86+135.80) / 2$	66.56		
		$(4.50-0.24) \times (135.95+135.86) / 2$	578.96		
R1-66 780.00	R1	$(-1.14-4.50) \times (135.05+135.27) / 2$	-762.30	5.22	
		$(-4.50--4.27) \times (134.59+134.60) / 2$	-30.96		
		$(-5.43--4.50) \times (134.55+134.59) / 2$	-125.15		
		$(-4.90--5.43) \times (135.08+134.55) / 2$	71.45		
		$(-5.91--4.90) \times (135.08+135.08) / 2$	-136.43		
		$(-8.78--5.91) \times (133.44+135.08) / 2$	-385.33		
		$(-7.26--8.78) \times (133.00+133.44) / 2$	202.49		
		$(-7.09--7.26) \times (132.94+133.00) / 2$	22.60		
		$(-6.48--7.09) \times (132.94+132.94) / 2$	81.09		
		$(-6.37--6.48) \times (133.00+132.94) / 2$	14.63		
R1-66 780.00	R2	$(-4.34--6.37) \times (134.00+133.00) / 2$	271.01	0.35	
		$(-4.27--4.34) \times (134.04+134.00) / 2$	9.38		
R1-66 780.00	R2	$(-3.02--4.27) \times (134.65+134.04) / 2$	167.93	0.05	
		$(-4.27--3.02) \times (134.60+134.65) / 2$	-168.28		
R1-66 780.00	S1	$(-3.02--2.53) \times (134.65+134.66) / 2$	-65.98	0.05	
		$(-2.53--3.02) \times (134.88+134.65) / 2$	66.03		
A RIPORTARE mq					

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE				Foglio n. 36
STERRI E RIPORTI						
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE	
RIPORTIO mq						
R1-66 780.00	S2	(-2.29--2.53) x (135.00+134.88) / 2 (-1.40--2.29) x (135.43+135.00) / 2 (-0.86--1.40) x (135.61+135.43) / 2 (-0.72--0.86) x (135.44+135.61) / 2 (4.50--0.72) x (135.63+135.44) / 2 (-2.53--4.50) x (134.66+134.93) / 2	32.39 120.34 73.18 18.97 707.49 -947.61			
R1-67 800.00	R1	(-5.43--5.42) x (133.45+133.45) / 2 (-5.42--5.43) x (133.46+133.45) / 2 (-5.91--5.42) x (133.98+133.98) / 2 (-9.77--5.91) x (131.77+133.98) / 2 (-8.58--9.77) x (131.78+131.77) / 2 (-7.77--8.58) x (131.78+131.78) / 2 (-7.36--7.77) x (132.00+131.78) / 2 (-5.42--7.36) x (132.94+132.00) / 2	-1.33 1.33 -65.65 -512.90 156.81 106.74 54.07 256.99	4.76		
R1-67 800.00	R2	(-5.29--5.42) x (133.00+132.94) / 2 (-4.27--5.29) x (133.50+133.00) / 2 (-4.50--4.27) x (133.49+133.50) / 2 (-5.42--4.50) x (133.45+133.49) / 2	17.29 135.92 -30.70 -122.79	3.94		
R1-67 800.00	R2	(-4.90--5.42) x (133.98+133.46) / 2 (-5.42--4.90) x (133.98+133.98) / 2	69.53 -69.67	0.28		
R1-67 800.00	S1	(-4.27--3.02) x (133.50+133.54) / 2 (-3.22--4.27) x (134.00+133.50) / 2 (-3.02--3.22) x (134.10+134.00) / 2	-166.90 140.44 26.81	0.14		
R1-67 800.00	S2	(-2.81--3.02) x (134.20+134.10) / 2 (-2.30--2.81) x (134.43+134.20) / 2 (-2.22--2.30) x (134.24+134.43) / 2 (4.50--2.22) x (134.53+134.24) / 2 (-3.02--4.50) x (133.54+133.83) / 2	28.17 68.50 10.75 903.07 -1005.31	0.35		
R1-68 820.00	R1	(-8.93--9.51) x (130.66+130.77) / 2 (-8.13--8.93) x (130.66+130.66) / 2 (-7.61--8.13) x (131.00+130.66) / 2 (-5.92--7.61) x (132.00+131.00) / 2 (-5.42--5.92) x (132.30+132.00) / 2 (-5.43--5.42) x (132.30+132.30) / 2 (-4.90--5.43) x (132.82+132.30) / 2 (-5.91--4.90) x (132.82+132.82) / 2 (-9.51--5.91) x (130.77+132.82) / 2	75.81 104.53 68.03 222.24 66.08 -1.32 70.26 -134.15 -474.46	5.18		
R1-68 820.00	S1	(-5.42--5.17) x (132.30+132.31) / 2 (-5.17--5.42) x (132.44+132.30) / 2	-33.08 33.09	2.98		
R1-68 820.00	S2	(-4.27--5.17) x (132.97+132.44) / 2 (-4.50--4.27) x (132.33+132.34) / 2	119.43 -30.44	0.01		
A RIPORTARE mq			88.99			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE				Foglio n. 37
STERRI E RIPORTI						
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE	
RIPORTIO mq			88.99			
R1-68 820.00	S3	$(-5.17-4.50) \times (132.31+132.33) / 2$ $(-4.22-4.27) \times (133.00+132.97) / 2$ $(-4.17-4.22) \times (133.03+133.00) / 2$ $(-3.69-4.17) \times (133.22+133.03) / 2$ $(-3.56-3.69) \times (133.04+133.22) / 2$ $(-3.14-3.56) \times (133.07+133.04) / 2$ $(4.50-3.14) \times (133.37+133.07) / 2$ $(-4.27-4.50) \times (132.34+132.67) / 2$	-88.65 6.65 6.65 63.90 17.31 55.88 1017.80 -1162.07	0.34		
R1-69 832.82	R1	$(-5.91-5.66) \times (132.07+132.07) / 2$ $(-10.06-5.91) \times (129.70+132.07) / 2$ $(-9.88-10.06) \times (129.68+129.70) / 2$ $(-9.07-9.88) \times (129.68+129.68) / 2$ $(-8.55-9.07) \times (130.00+129.68) / 2$ $(-6.90-8.55) \times (131.00+130.00) / 2$ $(-5.66-6.90) \times (131.76+131.00) / 2$	-33.02 -543.17 23.34 105.04 67.52 215.33 162.91	6.12		
R1-69 832.82	R2	$(-5.42-5.66) \times (131.91+131.76) / 2$ $(-5.66-5.42) \times (132.07+132.07) / 2$	31.64 -31.70	2.05		
R1-69 832.82	R3	$(-5.28-5.42) \times (132.00+131.91) / 2$ $(-5.17-5.28) \times (132.07+132.00) / 2$ $(-5.42-5.17) \times (132.07+132.07) / 2$	18.47 14.52 -33.02	0.06		
R1-69 832.82	S1	$(-4.72-5.17) \times (132.36+132.07) / 2$ $(-4.21-4.72) \times (132.46+132.36) / 2$ $(-4.08-4.21) \times (132.29+132.46) / 2$ $(-3.64-4.08) \times (132.30+132.29) / 2$ $(4.50-3.64) \times (132.61+132.30) / 2$ $(-4.50-4.50) \times (131.57+131.91) / 2$ $(-5.43-4.50) \times (131.54+131.57) / 2$ $(-4.90-5.43) \times (132.07+131.54) / 2$ $(-5.17-4.90) \times (132.07+132.07) / 2$	59.50 67.53 17.21 58.21 1078.18 -1185.66 -122.35 69.86 -35.66	0.03		
R1-70 840.00	R1	$(-10.07-10.49) \times (129.00+129.02) / 2$ $(-9.84-10.07) \times (129.19+129.00) / 2$ $(-8.49-9.84) \times (130.00+129.19) / 2$ $(-6.77-8.49) \times (131.00+130.00) / 2$ $(-5.66-6.77) \times (131.64+131.00) / 2$ $(-5.91-5.66) \times (131.64+131.64) / 2$ $(-10.49-5.91) \times (129.02+131.64) / 2$	54.18 29.69 174.95 224.46 145.77 -32.91 -596.91	6.82		
R1-71 860.00	S1	$(-5.74-6.02) \times (130.62+130.50) / 2$ $(-5.22-5.74) \times (130.79+130.62) / 2$ $(-5.06-5.22) \times (130.62+130.79) / 2$ $(-4.54-5.06) \times (130.63+130.62) / 2$ $(4.89-4.54) \times (130.95+130.63) / 2$ $(6.09-4.89) \times (130.85+130.95) / 2$	36.56 67.97 20.91 67.92 1233.35 157.08	0.77		
A RIPORTARE mq			1583.79			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 38	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			1583.79		
R1-72 879.15	S1	(5.91-6.09) x (130.75+130.85) / 2	-23.54	7.48	
		(4.90-5.91) x (130.75+130.75) / 2	-132.06		
		(5.38-4.90) x (130.27+130.75) / 2	62.64		
		(4.50-5.38) x (130.24+130.27) / 2	-114.62		
		(-4.50-4.50) x (129.94+130.24) / 2	-1170.81		
		(-5.42--4.50) x (129.91+129.94) / 2	-119.53		
		(-4.90--5.42) x (130.43+129.91) / 2	67.69		
		(-5.91--4.90) x (130.43+130.43) / 2	-131.73		
		(-6.02--5.91) x (130.50+130.43) / 2	-14.35		
		(-8.26--8.49) x (128.00+127.78) / 2	29.41		
		(-8.12--8.26) x (128.20+128.00) / 2	17.93		
		(-6.51--8.12) x (129.00+128.20) / 2	207.05		
		(-5.76--6.51) x (129.39+129.00) / 2	96.90		
		(-5.38--5.76) x (129.61+129.39) / 2	49.21		
		(-5.20--5.38) x (129.44+129.61) / 2	23.31		
		(4.70--5.20) x (129.73+129.44) / 2	1282.89		
		(5.85-4.70) x (129.87+129.88) / 2	149.36		
		(6.19-5.85) x (129.69+129.87) / 2	44.13		
		(5.91-6.19) x (129.53+129.69) / 2	-36.29		
		(4.90-5.91) x (129.53+129.53) / 2	-130.83		
(5.38-4.90) x (129.05+129.53) / 2	62.06				
(4.50-5.38) x (129.02+129.05) / 2	-113.55				
(-4.50-4.50) x (128.75+129.02) / 2	-1159.96				
(-5.42--4.50) x (128.73+128.75) / 2	-118.44				
(-4.90--5.42) x (129.25+128.73) / 2	67.07				
(-5.91--4.90) x (129.25+129.25) / 2	-130.54				
(-8.49--5.91) x (127.78+129.25) / 2	-331.57				
				8.14	
Il Direttore dei Lavori		L'Impresa			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO STERRI E RIPORTI				Foglio n. 39			
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO	DISTANZA m	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO mq	RIPORTO mq	(PROGRESSIVA m)		STERRO mc	RIPORTO mc	STERRO mc	RIPORTO mc
R1-3	R1		31.42	(32.24)	0.01		0.341		0.341
R1-4	R1		36.83	(32.25)					
R1-4	R1		36.83	(32.25)	7.75		197.896		197.896
R1-5	R1		14.24	(40.00)					
R1-7	S1	93.77		(80.00)	4.37	394.152		394.152	
R1-8	S1	86.62		(84.37)					
R1-8	S1	86.62		(84.37)	15.63	963.042		963.042	
R1-9	S1	36.61		(100.00)					
R1-9	S1	36.61		(100.00)	14.79	402.880		402.880	
R1-10	S1	17.87		(114.79)					
R1-10	S1	17.87		(114.79)	0.01	0.223		0.223	
R1-11	S1	26.67		(114.80)					
R1-11	S1	26.67		(114.80)	5.20	131.768			
A RIPORTARE :						131.768		1760.297	198.237

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO STERRI E RIPORTI					Foglio n. 40		
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO	DISTANZA	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO	RIPORTO	(PROGRESSIVA m)	m	STERRO	RIPORTO	STERRO	RIPORTO
		mq	mq			mc	mc	mc	mc
RIPORTO :						131.768		1760.297	198.237
R1-12	S1	24.01		(120.00)				131.768	
R1-12	S1	24.01		(120.00)	20.00	380.200			
R1-13	S1	12.53		(140.00)				380.200	
	S2	1.48							
R1-13	S1	12.53		(140.00)	8.60	83.248			
R1-14	S1	6.46		(148.60)					
	S2	0.37							
R1-13	S2	1.48		(140.00)	8.11	6.001			
				1.48*8.60	8.11				
				1.48+0.09					
R1-14	R1		0.09	(148.60)	0.49		0.022		
								89.249	0.022
R1-14	S1	6.46		(148.60)	2.97	9.593			
				6.46*12.88	2.97				
				6.46+21.60					
R1-15	R1		21.60	(161.48)	9.91		107.028		
R1-14	S2	0.37		(148.60)	12.88	2.383			
R1-15	S0	0.00		(161.48)					
R1-14	R1		0.09	(148.60)	12.88		0.580		
R1-15	R0		0.00	(161.48)				11.976	107.608
R1-15	R1		21.60	(161.48)	1.47		33.612		
R1-16	R1		24.13	(162.95)					33.612
R1-18	R1		17.54	(190.84)	0.01		0.539		
R1-18b	R1		90.34	(190.85)					
A RIPORTARE :							0.539	2373.490	339.479

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO STERRI E RIPORTI					Foglio n. 41		
N. SEZ.	FIG.	SUPERFICIE		FUNTI DI PASSAGGIO	DISTANZA	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO	RIPORTO	(PROGRESSIVA m)	m	STERRO	RIPORTO	STERRO	RIPORTO
		mq	mq			mc	mc	mc	mc
RIPORTO :						0.000	0.539	2373.490	339.479
R1-18b	R1		90.34	(190.85) 90.34*9.15	5.83		263.341		0.539
				-----	5.83				
				90.34+51.35					
R1-19	S1	51.22		(200.00)					
	S2	0.02							
	S2	0.11			3.32	85.241		85.241	263.341
R1-19	S1	51.22		(200.00)	10.84	1081.073			
R1-20	S1	147.92		(210.84)					
	S2	0.32							
R1-19	S2	0.02		(200.00)					
	S2	0.11			1.90	0.124			
				0.13*10.84	1.90				

				0.13+0.61					
R1-20	R1		0.61	(210.84)	8.94		2.727		
								1081.197	2.727
R1-20	S1	147.92		(210.84)	9.16	1156.771			
R1-20b	S1	75.93		(220.00)					
	S2	28.72							
R1-20	S2	0.32		(210.84)	5.64	0.902			
				0.32*9.16	5.64				

				0.32+0.20					
R1-20b	R1		0.13	(220.00)					
	R1		0.07		3.52		0.352		
R1-20	R1		0.61	(210.84)	9.16		39.113		
R1-20b	R2		7.93	(220.00)					
								1157.673	39.465
R1-20b	S1	75.93		(220.00)	20.00	1018.500			
R1-21	S1	25.92		(240.00)					
R1-20b	S2	28.72		(220.00)	11.94	171.458			
A RIPORTARE :						1189.958		4697.601	645.551

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO STERRI E RIPORTI					Foglio n. 42		
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO mq	RIPORTO mq			STERRO mc	RIPORTO mc	STERRO mc	RIPORTO mc
RIPORTO :						1189.958		4697.601	645.551
R1-21	R1		19.40	28.72*20.00 ----- 28.72+19.40 (240.00)	11.94 8.06		78.182		
R1-20b	R1		0.13	(220.00)					
	R1		0.07						
	R2		7.93						
R1-21	R2		5.65	(240.00)	20.00		137.800		
								1189.958	215.982
R1-28b	R1		134.44	(340.93)					
R1-29	R1		240.59	(360.00)	19.07		3575.911		
									3575.911
R1-29	R1		240.59	(360.00)					
R1-30	R1		145.05	(382.06)	22.06		4253.609		
									4253.609
R1-30	R1		145.05	(382.06)					
R1-31	R1		300.29	(400.00)	17.94		3994.700		
									3994.700
R1-31	R1		300.29	(400.00)					
R1-32	R1		446.34	(409.76)	9.76		3643.554		
									3643.554
R1-32	R1		446.34	(409.76)					
R1-33	R1		529.64	(420.00)	10.24		4997.018		
									4997.018
R1-33	R1		529.64	(420.00)	20.00		10231.400		
A RIPORTARE :							10231.400	5887.559	21326.325

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO STERRI E RIPORTI					Foglio n. 43		
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO mq	RIPORTO mq			STERRO mc	RIPORTO mc	STERRO mc	RIPORTO mc
RIPORTO :						0.000	10231.400	5887.559	21326.325
R1-34	R1		493.50	(440.00)					10231.400
R1-34	R1		493.50	(440.00)	15.35		7192.626		7192.626
R1-35	R1		443.65	(455.35)					2038.444
R1-35	R1		443.65	(455.35)	4.65		2038.444		2038.444
R1-36	R1		433.10	(460.00)					7675.600
R1-36	R1		433.10	(460.00)	20.00		7675.600		7675.600
R1-37	R1		334.46	(480.00)					6070.367
R1-37	R1		334.46	(480.00)	20.95		6070.367		6070.367
R1-38	R1		245.05	(500.95)					3683.413
R1-38	R1		245.05	(500.95)	19.05		3683.413		3683.413
R1-39	R1		141.66	(520.00)					1079.784
R1-39	R1		141.66	(520.00)	8.64		1079.784		1079.784
R1-40	R1		108.29	(528.64)					403.928
R1-40	R1		108.29	(528.64)	3.99		403.928		403.928
R1-41	R1		94.18	(532.63)					600.839
R1-41	R1		94.18	(532.63)	7.37		600.839		600.839
R1-42	R1		68.87	(540.00)					
R1-42	R1		68.87	(540.00)				5887.559	60302.726
A RIPORTARE :								5887.559	60302.726

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO STERRI E RIPORTI					Foglio n. 44		
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO mq	RIPORTO mq			STERRO mc	RIPORTO mc	STERRO mc	RIPORTO mc
RIPORTO :						0.000		5887.559	60302.726
R1-43	R1		50.15	(546.20)	6.20		368.962		368.962
R1-43	R1		50.15	(546.20)	0.01		0.533		
R1-44	R1 R2		15.21 41.16	(546.21)					0.533
R1-44	R1		15.21	(546.21)	13.29		101.070		
				15.21*13.79	13.29				
R1-45	S1	0.57		(560.00)	0.50	0.142			
R1-44	R2		41.16	(546.21)	13.79		429.834		
R1-45	R1 R2		8.35 12.83	(560.00)				0.142	530.904
R1-45	S1	0.57		(560.00)	20.00	27.700			
R1-46	S1	2.20		(580.00)					
R1-45	R1		8.35	(560.00)	9.99		41.708		
				8.35*20.00	9.99				
R1-46	S2	8.36		(580.00)	10.01	41.842			
R1-45	R2		12.83	(560.00)	20.00		190.500		
R1-46	R1 R2		0.10 6.12	(580.00)				69.542	232.208
R1-46	S1 S2	2.20 8.36		(580.00)	2.63	29.140			
R1-47	S1	11.60		(582.63)					
R1-46	R1		0.10	(580.00)	1.31		0.066		
				0.10*2.63	1.31				
R1-47	S2	0.10		(582.63)	1.32	0.066			
A RIPORTARE :						29.206	0.066	5957.243	61435.333

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

				COMPUTO STERRI E RIPORTI		Foglio n. 45			
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO mq	RIPORTO mq			STERRO mc	RIPORTO mc	STERRO mc	RIPORTO mc
RIPORTO :						29.206	0.066	5957.243	61435.333
R1-46	R2		6.12	(580.00)					
R1-47	R1		0.25	(582.63)	2.63		14.675		
	R1		0.14						
	R2		4.65					29.206	14.741
R1-47	S1	11.60		(582.63)					
	S2	0.10			12.83	178.658			
R1-48	S1	16.15		(595.46)					
R1-47	R1		0.25	(582.63)					
	R1		0.14		4.63		0.903		
				0.39*12.83	4.63				
				0.39+0.69					
R1-48	S2	0.69		(595.46)	8.20	2.829			
R1-47	R2		4.65	(582.63)					
					12.83		36.052		
R1-48	R1		0.04	(595.46)					
	R2		0.93						
								181.487	36.955
R1-48	S1	16.15		(595.46)					
	S2	0.69			4.54	81.380			
R1-49	S1	19.01		(600.00)					
R1-48	R1		0.04	(595.46)	2.27		0.045		
				0.04*4.54	2.27				
				0.04+0.04					
R1-49	S2	0.00		(600.00)					
	S2	0.04			2.27	0.045			
R1-48	R2		0.93	(595.46)					
					4.54		2.588		
R1-49	R1		0.21	(600.00)					
								81.425	2.633
R1-49	S1	19.01		(600.00)					
	S2	0.00							
	S2	0.04			8.29	171.271			
R1-50	S1	22.27		(608.29)					
R1-49	R1		0.21	(600.00)	1.44		0.151		
A RIPORTARE :						171.271	0.151	6249.361	61489.662

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

				COMPUTO STERRI E RIPORTI		Foglio n. 46			
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO mq	RIPORTO mq			STERRO mc	RIPORTO mc	STERRO mc	RIPORTO mc
RIPORTO :						171.271	0.151	6249.361	61489.662
R1-50	S2	1.00		0.21*8.29 ----- 0.21+1.00 (608.29)	1.44 6.85	3.425		174.696	0.151
R1-50	S1 S2	22.27 1.00		(608.29)	6.70	160.834			
R1-51	S1 S2 S3	23.46 0.97 0.31		(614.99)				160.834	
R1-51	S1	23.46		(614.99)	0.01	0.980			
R1-52	S1	172.60		(615.00)	0.01	0.005			
R1-51	S2	0.97		(614.99)	0.01	0.005			
				0.97*0.01 ----- 0.97+0.19	0.01 0.00		0.000		
R1-52	R1		0.19	(615.00)	0.00				
R1-51	S3	0.31		(614.99)	0.01	0.002			
R1-52	S2	0.12		(615.00)				0.987	
R1-52	S1	172.60		(615.00)	5.00	832.775			
R1-53	S1 S2	158.66 1.85		(620.00)					
R1-52	R1		0.19	(615.00)	0.63		0.060		
				0.19*5.00 ----- 0.19+1.32	0.63 4.37	2.884			
R1-53	S3	1.32		(620.00)	5.00	1.100			
R1-52	S2	0.12		(615.00)					
R1-53	S4	0.32		(620.00)				836.759	0.060
R1-53	S1	158.66		(620.00)	20.00	2949.900			
R1-54	S1	136.33		(640.00)					
A RIPORTARE :						2949.900		7422.637	61489.873

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO STERRI E RIPORTI					Foglio n. 47		
N. SEZ.	FIG.	SUPERFICIE STERRO mq	RIPORTO mq	PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI PARZIALI STERRO mc	RIPORTO mc	VOLUMI TOTALI STERRO mc	RIPORTO mc
RIPORTO :						2949.900		7422.637	61489.873
R1-53	S2	1.85		(620.00)					
	S3	1.32							
	S4	0.32							
				3.49*20.00	9.38	16.368			
				-----	9.38				
				3.49+3.95					
R1-54	R1		0.13	(640.00)					
	R1		0.00						
	R2		3.82		10.62		20.974		
								2966.268	20.974
R1-54	S1	136.33		(640.00)	18.29	2647.020			
R1-55	S1	153.12		(658.29)					
R1-54	R1		0.13	(640.00)					
	R1		0.00		9.14		0.594		
				0.13*18.29	9.14				

				0.13+0.13					
R1-55	S2	0.13		(658.29)	9.15	0.595			
	S3	0.00							
R1-54	R2		3.82	(640.00)	18.29		58.802		
R1-55	R1		2.61	(658.29)				2647.615	59.396
R1-55	S1	153.12		(658.29)					
	S2	0.13			0.86	128.475			
R1-56	S1	145.53		(659.15)					
R1-55	R1		2.61	(658.29)	0.86		2.150		
R1-56	R2		2.39	(659.15)				128.475	2.150
R1-56	S1	145.53		(659.15)					
R1-57	S1	105.13		(660.00)					
R1-56	R1		0.00	(659.15)					
	R1		0.00		0.78		0.932		
	R2		2.39		0.78				
				2.39*0.85					

				2.39+0.22					
R1-57	S2	0.05		(660.00)					
A RIPORTARE :						106.530	0.932	13164.995	61572.393

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO STERRI E RIPORTI				Foglio n. 48			
N. SEZ.	FIG.	SUPERFICIE STERRO mq	RIPORTO mq	PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI PARZIALI STERRO mc	RIPORTO mc	VOLUMI TOTALI STERRO mc	RIPORTO mc
RIPORTO :						106.530	0.932	13164.995	61572.393
R1-57	S3 S3	0.11 0.06			0.07	0.008		106.538	0.932
R1-58	S1	12.97		(680.00)	20.00	1181.500			
R1-57	S3 S3	0.11 0.06		(660.00)	11.72	0.996			
				0.17*20.00	11.72				
R1-58	R1		0.12	(680.00)	8.28		0.497	1182.496	0.497
R1-58	S1	12.97		(680.00)	2.72	17.639			
				12.97*14.82	2.72				
				12.97+57.64					
R1-59	R1 R1	57.64 0.00		(694.82)	12.10		348.722		
R1-58	R1		0.12	(680.00)	14.82		17.339		
R1-59	R2	2.22		(694.82)				17.639	366.061
R1-60b	R1		70.65	(704.83)	10.04		419.823		
R1-61	R1 R2	12.86 0.12		(714.87)					
R1-60b	R2	2.48		(704.83)	9.92		12.301		
				2.48*10.04	9.92				
R1-61	S1 S2 S3	0.01 0.00 0.02		(714.87)					
				2.48+0.03					
R1-60b	R3		4.87	(704.83)	10.04		27.961		
R1-61	R3 R3	0.06 0.09		(714.87)					
A RIPORTARE :						0.002	460.085	14471.668	61939.883

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO STERRI E RIPORTI					Foglio n. 49		
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO mq	RIPORTO mq			STERRO mc	RIPORTO mc	STERRO mc	RIPORTO mc
RIPORTO :						0.002	460.085	14471.668	61939.883
	R4		0.55					0.002	460.085
R1-61	R1		12.86	(714.87)	5.13		65.254		
R1-62	R1		11.08	(720.00)					
	R2		1.50						
R1-61	R2		0.12	(714.87)	3.08		0.185		
				0.12*5.13					
				0.12+0.08	3.08				
R1-62	S1	0.08		(720.00)	2.05	0.082			
R1-61	S1	0.01		(714.87)	5.13	0.077			
R1-62	S2	0.02		(720.00)					
R1-61	S2	0.00		(714.87)	5.13	0.000			
R1-62	S0	0.00		(720.00)					
R1-61	S3	0.02		(714.87)	5.13	0.051			
R1-62	S3	0.00		(720.00)					
R1-61	R3		0.06	(714.87)	4.53		0.340		
	R3		0.09		4.53				
				0.15*5.13					
				0.15+0.02	4.53				
R1-62	S4	0.01		(720.00)	0.60	0.006			
	S5	0.01							
R1-61	R4		0.55	(714.87)	5.13		2.668		
R1-62	R3		0.49	(720.00)				0.216	68.447
R1-62	R1		11.08	(720.00)	20.00		258.700		
R1-63	R1		13.94	(740.00)					
	R2		0.85						
R1-62	R2		1.50	(720.00)	11.90		8.925		
				1.50*20.00					
				1.50+1.02	11.90				
R1-63	S1	1.02		(740.00)	8.10	4.131			
R1-62	S1	0.08		(720.00)					
A RIPORTARE :						4.131	267.625	14471.886	62468.415

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO STERRI E RIPORTI					Foglio n. 50		
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO mq	RIPORTO mq			STERRO mc	RIPORTO mc	STERRO mc	RIPORTO mc
RIPORTO :						4.131	267.625	14471.886	62468.415
R1-63	S2	0.02			20.00	4.700			
R1-63	S2	0.37		(740.00)					
R1-62	S3	0.00		(720.00)					
	S4	0.01			20.00	3.600			
R1-63	S4	0.06		(740.00)					
	S5	0.29							
R1-62	S5	0.01		(720.00)	6.67	0.033			
				0.01*20.00	6.67				
				0.01+0.02					
R1-63	R3		0.02	(740.00)	13.33		0.133		
R1-62	R3		0.49	(720.00)					
					20.00		5.000		
R1-63	R4		0.01	(740.00)					
R1-62	S0	0.00		(720.00)					
R1-63	S3	0.07		(740.00)					
								13.164	272.758
R1-63	R1		13.94	(740.00)	20.00		226.100		
R1-64	R1		8.17	(760.00)					
	R2		0.50						
R1-63	R2		0.85	(740.00)	10.00		4.250		
				0.85*20.00	10.00				
				0.85+0.85					
R1-64	S1	0.85		(760.00)	10.00	4.250			
R1-63	S1	1.02		(740.00)					
	S2	0.37							
	S3	0.07							
	S4	0.06			20.00	39.700			
R1-64	S2	2.45		(760.00)					
R1-63	S5	0.29		(740.00)					
R1-64	S0	0.00		(760.00)	20.00	2.900			
R1-63	R3		0.02	(740.00)					
					20.00		0.200		
R1-64	R0		0.00	(760.00)					
R1-63	R4		0.01	(740.00)					
A RIPORTARE :						46.850	230.550	14485.050	62741.173

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO STERRI E RIPORTI					Foglio n. 51		
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO	DISTANZA	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO	RIPORTO	(PROGRESSIVA m)	m	STERRO	RIPORTO	STERRO	RIPORTO
		mq	mq			mc	mc	mc	mc
RIPORTO :						46.850	230.550	14485.050	62741.173
R1-64	R0		0.00	(760.00)	20.00		0.100		
								46.850	230.650
R1-64	R1		8.17	(760.00)	13.85		95.426		
R1-65	R1		5.55	(773.85)					
	R2		0.06						
R1-64	R2		0.50	(760.00)	7.29		1.823		
				0.50*13.85	7.29				
				0.50+0.45	6.56	1.476			
R1-65	S1	0.45		(773.85)					
R1-64	S1	0.85		(760.00)					
	S2	2.45			13.85	51.314			
R1-65	S2	4.11		(773.85)				52.790	97.249
R1-65	R1		5.55	(773.85)	6.15		34.194		
R1-66	R1		5.22	(780.00)					
	R2		0.35						
R1-65	R2		0.06	(773.85)	3.35		0.100		
				0.06*6.15	3.35				
				0.06+0.05	2.80	0.070			
R1-66	S1	0.05		(780.00)					
R1-65	S1	0.45		(773.85)					
	S2	4.11			6.15	28.659			
R1-66	S2	4.76		(780.00)				28.729	34.294
R1-66	R1		5.22	(780.00)	20.00		95.800		
R1-67	R1		3.94	(800.00)					
	R2		0.14						
	R2		0.28						
R1-66	R2		0.35	(780.00)	10.00		1.750		
				0.35*20.00	10.00				
				0.35+0.35	10.00	1.750			
R1-67	S1	0.35		(800.00)					
A RIPORTARE :						1.750	97.550	14613.419	63103.366

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO STERRI E RIPORTI					Foglio n. 52		
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO mq	RIPORTO mq			STERRO mc	RIPORTO mc	STERRO mc	RIPORTO mc
RIPORTO :						1.750	97.550	14613.419	63103.366
R1-66	S1	0.05		(780.00)					
	S2	4.76			20.00	99.900			
R1-67	S2	5.18		(800.00)				101.650	97.550
R1-67	R1		3.94	(800.00)	20.00		69.200		
R1-68	R1		2.98	(820.00)					
R1-67	R2		0.14	(800.00)	10.91		2.291		
	R2		0.28						
				0.42*20.00	10.91				
				0.42+0.35	10.91				
R1-68	S1	0.01		(820.00)	9.09	1.591			
	S2	0.34							
R1-67	S1	0.35		(800.00)	20.00	116.500			
	S2	5.18							
R1-68	S3	6.12		(820.00)				118.091	71.491
R1-68	R1		2.98	(820.00)	12.82		32.627		
R1-69	R1		2.05	(832.82)					
	R2		0.06						
R1-68	S1	0.01		(820.00)	3.21	0.016			
				0.01*12.82	3.21				
				0.01+0.03	9.61		0.144		
R1-69	R3		0.03	(832.82)					
R1-68	S2	0.34		(820.00)	12.82	85.125			
	S3	6.12							
R1-69	S1	6.82		(832.82)				85.141	32.771
R1-69	R1		2.05	(832.82)	7.18		10.124		
R1-70	R1		0.77	(840.00)					
R1-69	R2		0.06	(832.82)	7.18		0.215		
R1-70	R0		0.00	(840.00)					
R1-69	R3		0.03	(832.82)					
A RIPORTARE :							10.339	14918.301	63305.178

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

				COMPUTO STERRI E RIPORTI		Foglio n. 53			
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO mq	RIPORTO mq			STERRO mc	RIPORTO mc	STERRO mc	RIPORTO mc
RIPORTO :						0.000	10.339	14918.301	63305.178
R1-70	R0		0.00	(840.00)	7.18		0.108		
R1-69	S1	6.82		(832.82)					
R1-70	S0	0.00		(840.00)	7.18	24.484		24.484	10.447
R1-70	R1		0.77	(840.00)	1.87		0.720		
				0.77*20.00	1.87				
R1-71	S1	7.48		(860.00)	18.13	67.806		67.806	0.720
				0.77+7.48					
R1-71	S1	7.48		(860.00)	19.15	149.562			
R1-72	S1	8.14		(879.15)				149.562	
Il Direttore dei Lavori				L'Impresa	Totale Articoli			15160.153	63316.345
					A dedurre quantita' precedenti:				
					Quantita' da contabilizzare ...				

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 54		
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
R1-1 0.00	C1	(7.66-9.63)x(165.03+163.91)/2 (6.65-7.66)x(165.03+165.03)/2 (6.45-6.65)x(165.23+165.03)/2 (7.75-6.45)x(165.33+165.33)/2 (10.45-7.75)x(163.79+165.33)/2 (9.63-10.45)x(163.91+163.79)/2	-324.01 -166.68 -33.03 214.93 444.31 -134.36		
R1-3 32.24	C1	(7.41-11.50)x(165.71+163.37)/2 (6.40-7.41)x(165.71+165.71)/2 (6.20-6.40)x(165.91+165.71)/2 (7.50-6.20)x(166.01+166.01)/2 (12.35-7.50)x(163.23+166.01)/2 (11.50-12.35)x(163.37+163.23)/2	-672.97 -167.37 -33.16 215.81 798.41 -138.80	1.16	
R1-4 32.25	C1	(7.41-11.49)x(165.71+163.37)/2 (6.40-7.41)x(165.71+165.71)/2 (6.20-6.40)x(165.91+165.71)/2 (7.50-6.20)x(166.01+166.01)/2 (12.35-7.50)x(163.24+166.01)/2 (11.49-12.35)x(163.37+163.24)/2	-671.32 -167.37 -33.16 215.81 798.43 -140.44	1.92	
R1-5 40.00	C1	(-1.40--2.50)x(166.40+166.40)/2 (-1.20--1.40)x(166.60+166.40)/2 (-2.50--1.20)x(166.70+166.70)/2	183.04 33.30 -216.71	1.95	
R1-5 40.00	C2	(7.41-8.34)x(165.88+165.35)/2 (6.40-7.41)x(165.88+165.88)/2 (6.20-6.40)x(166.08+165.88)/2 (7.50-6.20)x(166.18+166.18)/2 (8.80-7.50)x(165.44+166.18)/2 (8.34-8.80)x(165.35+165.44)/2	-154.02 -167.54 -33.20 216.03 215.55 -76.08	0.37	
R1-6 60.00	C1	(-1.40--2.50)x(166.99+166.99)/2 (-1.20--1.40)x(167.19+166.99)/2 (-2.50--1.20)x(167.29+167.29)/2	183.69 33.42 -217.48	0.74	
R1-7 80.00	C1	(-3.28--10.66)x(167.34+167.34)/2 (-2.41--3.28)x(167.84+167.34)/2 (-1.40--2.41)x(167.84+167.84)/2 (-1.20--1.40)x(168.04+167.84)/2 (-2.50--1.20)x(168.14+168.14)/2 (-3.38--2.50)x(167.64+168.14)/2 (-10.66--3.38)x(167.64+167.64)/2	1234.97 145.80 169.52 33.59 -218.58 -147.74 -1220.42	0.37	
R1-8 84.37	C1	(-3.28--8.52)x(167.56+167.56)/2 (-2.41--3.28)x(168.06+167.56)/2 (-1.40--2.41)x(168.06+168.06)/2 (-1.20--1.40)x(168.26+168.06)/2 (-2.50--1.20)x(168.36+168.36)/2 (-3.38--2.50)x(167.86+168.36)/2 (-8.52--3.38)x(167.86+167.86)/2	878.01 145.99 169.74 33.63 -218.87 -147.94 -862.80	2.86	
A RIPORTARE mq			2.24		

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE			Foglio n. 55
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			2.24		
R1-9 100.00	C1	(-2.41--4.24) x (168.96+168.96) / 2 (-1.40--2.41) x (168.96+168.96) / 2 (-1.20--1.40) x (169.16+168.96) / 2 (-2.50--1.20) x (169.26+169.26) / 2 (-4.24--2.50) x (169.26+169.26) / 2	309.20 170.65 33.81 -220.04 -294.51	2.24	
R1-14 148.60	C1	(7.41-7.78) x (171.76+171.54) / 2 (6.40-7.41) x (171.76+171.76) / 2 (6.20-6.40) x (171.96+171.76) / 2 (7.50-6.20) x (172.06+172.06) / 2 (8.68-7.50) x (171.38+172.06) / 2 (7.78-8.68) x (171.54+171.38) / 2	-63.51 -173.48 -34.37 223.68 202.63 -154.31	0.89	
R1-18b 190.85	C1	(-5.91--8.14) x (174.38+173.10) / 2 (-4.90--5.91) x (174.38+174.38) / 2 (-4.70--4.90) x (174.58+174.38) / 2 (-6.00--4.70) x (174.68+174.68) / 2 (-8.62--6.00) x (173.18+174.68) / 2 (-8.14--8.62) x (173.10+173.18) / 2	387.44 176.12 34.90 -227.08 -455.70 83.11	0.64	
R1-18b 190.85	C2	(28.91-30.58) x (163.61+162.66) / 2 (26.91-28.91) x (163.61+163.61) / 2 (18.16-26.91) x (168.61+163.61) / 2 (16.16-18.16) x (168.61+168.61) / 2 (7.41-16.16) x (173.61+168.61) / 2 (6.40-7.41) x (173.61+173.61) / 2 (6.20-6.40) x (173.81+173.61) / 2 (7.50-6.20) x (173.91+173.91) / 2 (16.25-7.50) x (168.91+173.91) / 2 (18.25-16.25) x (168.91+168.91) / 2 (27.00-18.25) x (163.91+168.91) / 2 (29.00-27.00) x (163.91+163.91) / 2 (31.50-29.00) x (162.48+163.91) / 2 (30.58-31.50) x (162.66+162.48) / 2	-272.44 -327.22 -1453.46 -337.22 -1497.21 -175.35 -34.74 226.08 1499.84 337.82 1456.09 327.82 407.99 -149.56	1.21	
R1-21 240.00	C1	(7.39-10.18) x (173.89+172.30) / 2 (6.39-7.39) x (173.89+173.89) / 2 (6.19-6.39) x (174.09+173.89) / 2 (7.49-6.19) x (174.19+174.19) / 2 (10.62-7.49) x (172.40+174.19) / 2 (10.18-10.62) x (172.30+172.40) / 2	-482.94 -173.89 -34.80 226.45 542.41 -75.83	8.44	
R1-28b 340.93	C1	(-16.66--21.63) x (163.75+160.91) / 2 (-14.66--16.66) x (163.75+163.75) / 2 (-5.91--14.66) x (168.75+163.75) / 2 (-4.90--5.91) x (168.75+168.75) / 2 (-4.70--4.90) x (168.95+168.75) / 2 (-6.00--4.70) x (169.05+169.05) / 2	806.78 327.50 1454.69 170.44 33.77 -219.76	1.40	
A RIPORTARE mq			2573.42		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE			Foglio n. 56
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			2573.42		
R1-29 360.00	C1	$(-14.75-6.00) \times (164.05+169.05) / 2$ $(-16.75-14.75) \times (164.05+164.05) / 2$ $(-22.25-16.75) \times (160.91+164.05) / 2$ $(-21.63-22.25) \times (160.91+160.91) / 2$	-1457.31 -328.10 -893.64 99.76	5.87	
R1-29 360.00	C2	$(-19.60-24.61) \times (160.61+160.61) / 2$ $(-16.66-19.60) \times (162.29+160.61) / 2$ $(-14.66-16.66) \times (162.29+162.29) / 2$ $(-5.91-14.66) \times (167.29+162.29) / 2$ $(-4.90-5.91) \times (167.29+167.29) / 2$ $(-4.70-4.90) \times (167.49+167.29) / 2$ $(-6.00-4.70) \times (167.59+167.59) / 2$ $(-14.75-6.00) \times (162.59+167.59) / 2$ $(-16.75-14.75) \times (162.59+162.59) / 2$ $(-19.69-16.75) \times (160.91+162.59) / 2$ $(-24.61-19.69) \times (160.91+160.91) / 2$	804.66 474.66 324.58 1441.91 168.96 33.48 -217.87 -1444.54 -325.18 -475.55 -791.68	6.57	
R1-30 382.06	C1	$(16.66-22.42) \times (162.29+159.00) / 2$ $(14.66-16.66) \times (162.29+162.29) / 2$ $(5.91-14.66) \times (167.29+162.29) / 2$ $(4.90-5.91) \times (167.29+167.29) / 2$ $(4.70-4.90) \times (167.49+167.29) / 2$ $(6.00-4.70) \times (167.59+167.59) / 2$ $(14.75-6.00) \times (162.59+167.59) / 2$ $(16.75-14.75) \times (162.59+162.59) / 2$ $(23.11-16.75) \times (158.96+162.59) / 2$ $(22.42-23.11) \times (159.00+158.96) / 2$	-925.32 -324.58 -1441.91 -168.96 -33.48 217.87 1444.54 325.18 1022.53 -109.70	6.17	
R1-30 382.06	C2	$(-17.16-21.91) \times (160.31+160.31) / 2$ $(-16.66-17.16) \times (160.60+160.31) / 2$ $(-14.66-16.66) \times (160.60+160.60) / 2$ $(-5.91-14.66) \times (165.60+160.60) / 2$ $(-4.90-5.91) \times (165.60+165.60) / 2$ $(-4.70-4.90) \times (165.80+165.60) / 2$ $(-6.00-4.70) \times (165.90+165.90) / 2$ $(-14.75-6.00) \times (160.90+165.90) / 2$ $(-16.75-14.75) \times (160.90+160.90) / 2$ $(-17.25-16.75) \times (160.61+160.90) / 2$ $(-21.91-17.25) \times (160.61+160.61) / 2$	761.47 80.23 321.20 1427.13 167.26 33.14 -215.67 -1429.75 -321.80 -80.38 -748.44	5.61	
A RIPORTARE mq			67.55		

TABULATI MOVIMENTI MATERIA

Codice documento
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Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE			Foglio n. 57
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			67.55		
R1-31 400.00	C1	$(22.99-23.38) \times (156.98+157.11) / 2$ $(-13.51--22.09) \times (159.88+159.88) / 2$ $(-5.91--13.51) \times (164.22+159.88) / 2$ $(-4.90--5.91) \times (164.22+164.22) / 2$ $(-4.70--4.90) \times (164.42+164.22) / 2$ $(-6.00--4.70) \times (164.52+164.52) / 2$ $(-13.60--6.00) \times (160.18+164.52) / 2$ $(-22.09--13.60) \times (160.18+160.18) / 2$	-61.25 1371.77 1231.58 165.86 32.86 -213.88 -1233.86 -1359.93	6.30	
R1-31 400.00	C2	$(27.41-27.86) \times (154.45+154.19) / 2$ $(25.41-27.41) \times (154.45+154.45) / 2$ $(16.66-25.41) \times (159.45+154.45) / 2$ $(14.66-16.66) \times (159.45+159.45) / 2$ $(5.91-14.66) \times (164.45+159.45) / 2$ $(4.90-5.91) \times (164.45+164.45) / 2$ $(4.70-4.90) \times (164.65+164.45) / 2$ $(6.00-4.70) \times (164.75+164.75) / 2$ $(14.75-6.00) \times (159.75+164.75) / 2$ $(16.75-14.75) \times (159.75+159.75) / 2$ $(25.50-16.75) \times (154.75+159.75) / 2$ $(27.50-25.50) \times (154.75+154.75) / 2$ $(28.19-27.50) \times (154.36+154.75) / 2$ $(27.86-28.19) \times (154.19+154.36) / 2$	-69.44 -308.90 -1373.31 -318.90 -1417.06 -166.09 -32.91 214.17 1419.69 319.50 1375.94 309.50 106.64 -50.91	5.60	
R1-32 409.76	C1	$(-12.50--22.34) \times (159.59+159.59) / 2$ $(-5.91--12.50) \times (163.36+159.59) / 2$ $(-4.90--5.91) \times (163.36+163.36) / 2$ $(-4.70--4.90) \times (163.56+163.36) / 2$ $(-6.00--4.70) \times (163.66+163.66) / 2$ $(-12.59--6.00) \times (159.89+163.66) / 2$ $(-22.34--12.59) \times (159.89+159.89) / 2$	1570.37 1064.12 164.99 32.69 -212.76 -1066.10 -1558.93	7.92	
R1-32 409.76	C2	$(27.41-31.78) \times (153.82+151.33) / 2$ $(25.41-27.41) \times (153.82+153.82) / 2$ $(16.66-25.41) \times (158.82+153.82) / 2$ $(14.66-16.66) \times (158.82+158.82) / 2$ $(5.91-14.66) \times (163.82+158.82) / 2$ $(4.90-5.91) \times (163.82+163.82) / 2$ $(4.70-4.90) \times (164.02+163.82) / 2$ $(6.00-4.70) \times (164.12+164.12) / 2$ $(14.75-6.00) \times (159.12+164.12) / 2$ $(16.75-14.75) \times (159.12+159.12) / 2$ $(25.50-16.75) \times (154.12+159.12) / 2$ $(27.50-25.50) \times (154.12+154.12) / 2$ $(32.69-27.50) \times (151.16+154.12) / 2$ $(31.78-32.69) \times (151.33+151.16) / 2$	-666.75 -307.64 -1367.80 -317.64 -1411.55 -165.46 -32.78 213.36 1414.18 318.24 1370.43 308.24 792.20 -137.63	5.62	
R1-33	C1	$(-11.70--22.41) \times (159.26+159.26) / 2$	1705.67	9.40	
A RIPORTARE mq			1705.67		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE			Foglio n. 58
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			1705.67		
420.00		(-5.91--11.70)x(162.57+159.26)/2 (-4.90--5.91)x(162.57+162.57)/2 (-4.70--4.90)x(162.77+162.57)/2 (-6.00--4.70)x(162.87+162.87)/2 (-11.80--6.00)x(159.56+162.87)/2 (-22.41--11.80)x(159.56+159.56)/2	931.70 164.20 32.53 -211.73 -935.05 -1692.93	5.61	
R1-33 420.00	C2	(25.22--27.75)x(153.15+153.15)/2 (16.66--25.22)x(158.04+153.15)/2 (14.66--16.66)x(158.04+158.04)/2 (5.91--14.66)x(163.04+158.04)/2 (4.90--5.91)x(163.04+163.04)/2 (4.70--4.90)x(163.24+163.04)/2 (6.00--4.70)x(163.34+163.34)/2 (14.75--6.00)x(158.34+163.34)/2 (16.75--14.75)x(158.34+158.34)/2 (25.31--16.75)x(153.45+158.34)/2 (27.75--25.31)x(153.45+153.45)/2	-387.47 -1331.89 -316.08 -1404.72 -164.67 -32.63 212.34 1407.35 316.68 1334.46 374.42	7.79	
R1-34 440.00	C1	(-10.28--21.91)x(158.54+158.54)/2 (-5.91--10.28)x(161.04+158.54)/2 (-4.90--5.91)x(161.04+161.04)/2 (-4.70--4.90)x(161.24+161.04)/2 (-6.00--4.70)x(161.34+161.34)/2 (-10.37--6.00)x(158.84+161.34)/2 (-21.91--10.37)x(158.84+158.84)/2	1843.82 698.28 162.65 32.23 -209.74 -699.59 -1833.01	5.36	
R1-34 440.00	C2	(25.24--28.03)x(151.60+151.60)/2 (16.66--25.24)x(156.50+151.60)/2 (14.66--16.66)x(156.50+156.50)/2 (5.91--14.66)x(161.50+156.50)/2 (4.90--5.91)x(161.50+161.50)/2 (4.70--4.90)x(161.70+161.50)/2 (6.00--4.70)x(161.80+161.80)/2 (14.75--6.00)x(156.80+161.80)/2 (16.75--14.75)x(156.80+156.80)/2 (25.33--16.75)x(151.90+156.80)/2 (28.03--25.33)x(151.90+151.90)/2	-422.96 -1321.75 -313.00 -1391.25 -163.11 -32.32 210.34 1393.88 313.60 1324.32 410.13	7.88	
R1-35 455.35	C1	(-9.26--20.93)x(157.94+157.94)/2 (-5.91--9.26)x(159.86+157.94)/2 (-4.90--5.91)x(159.86+159.86)/2 (-4.70--4.90)x(160.06+159.86)/2 (-6.00--4.70)x(160.16+160.16)/2 (-9.35--6.00)x(158.24+160.16)/2 (-20.93--9.35)x(158.24+158.24)/2	1843.16 532.31 161.46 31.99 -208.21 -533.32 -1832.42	5.03	
R1-35 455.35	C2	(25.41--28.04)x(150.32+150.32)/2 (16.66--25.41)x(155.32+150.32)/2	-395.34 -1337.18		
A RIPORTARE mq			-1732.52		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 59					
VEGETALE IN RILEVATO									
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE				
RIPORTIO mq			-1732.52						
R1-36 460.00	C1	(14.66-16.66) x (155.32+155.32) / 2	-310.64	7.88					
		(5.91-14.66) x (160.32+155.32) / 2	-1380.93						
		(4.90-5.91) x (160.32+160.32) / 2	-161.92						
		(4.70-4.90) x (160.52+160.32) / 2	-32.08						
		(6.00-4.70) x (160.62+160.62) / 2	208.81						
		(14.75-6.00) x (155.62+160.62) / 2	1383.55						
		(16.75-14.75) x (155.62+155.62) / 2	311.24						
		(25.50-16.75) x (150.62+155.62) / 2	1339.80						
		(28.04-25.50) x (150.62+150.62) / 2	382.57						
						(-8.97--20.54) x (157.75+157.75) / 2	1825.17		
		(-5.91--8.97) x (159.50+157.75) / 2	485.39						
		(-4.90--5.91) x (159.50+159.50) / 2	161.09						
		(-4.70--4.90) x (159.70+159.50) / 2	31.92						
		(-6.00--4.70) x (159.80+159.80) / 2	-207.74						
		(-9.06--6.00) x (158.05+159.80) / 2	-486.31						
		(-20.54--9.06) x (158.05+158.05) / 2	-1814.41						
R1-36 460.00	C2	(25.41-28.00) x (149.97+149.97) / 2	-388.42	4.89					
		(16.66-25.41) x (154.97+149.97) / 2	-1334.11						
		(14.66-16.66) x (154.97+154.97) / 2	-309.94						
		(5.91-14.66) x (159.97+154.97) / 2	-1377.86						
		(4.90-5.91) x (159.97+159.97) / 2	-161.57						
		(4.70-4.90) x (160.17+159.97) / 2	-32.01						
		(6.00-4.70) x (160.27+160.27) / 2	208.35						
		(14.75-6.00) x (155.27+160.27) / 2	1380.49						
		(16.75-14.75) x (155.27+155.27) / 2	310.54						
						(25.50-16.75) x (150.27+155.27) / 2	1336.74		
		(28.00-25.50) x (150.27+150.27) / 2	375.68						
R1-37 480.00	C1	(-7.79--18.29) x (156.89+156.89) / 2	1647.34	7.89					
		(-5.91--7.79) x (157.97+156.89) / 2	295.97						
		(-4.90--5.91) x (157.97+157.97) / 2	159.55						
		(-4.70--4.90) x (158.17+157.97) / 2	31.61						
		(-6.00--4.70) x (158.27+158.27) / 2	-205.75						
		(-7.88--6.00) x (157.19+158.27) / 2	-296.53						
		(-18.29--7.88) x (157.19+157.19) / 2	-1636.35						
						(14.66-17.45) x (153.43+153.43) / 2	-428.07		
						(5.91-14.66) x (158.43+153.43) / 2	-1364.39		
						(4.90-5.91) x (158.43+158.43) / 2	-160.01		
		(4.70-4.90) x (158.63+158.43) / 2	-31.71						
		(6.00-4.70) x (158.73+158.73) / 2	206.35						
		(14.75-6.00) x (153.73+158.73) / 2	1367.01						
		(17.45-14.75) x (153.73+153.73) / 2	415.07						
R1-38 500.95	C1	(-6.74--14.96) x (155.89+155.89) / 2	1281.42	4.25					
		(-5.91--6.74) x (156.36+155.89) / 2	129.58						
		(-4.90--5.91) x (156.36+156.36) / 2	157.92						
A RIPORTARE mq			1568.92						

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE			Foglio n. 60
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			1568.92		
R1-38 500.95	C2	$(-4.70-4.90) \times (156.56+156.36) / 2$	31.29		
		$(-6.00-4.70) \times (156.66+156.66) / 2$	-203.66		
		$(-6.83-6.00) \times (156.19+156.66) / 2$	-129.83		
		$(-14.96-6.83) \times (156.19+156.19) / 2$	-1269.82		
		$(14.66-15.16) \times (151.82+151.82) / 2$	-75.91	3.10	
R1-39 520.00	C1	$(5.91-14.66) \times (156.82+151.82) / 2$	-1350.30		
		$(4.90-5.91) \times (156.82+156.82) / 2$	-158.39		
		$(4.70-4.90) \times (157.02+156.82) / 2$	-31.38		
		$(6.00-4.70) \times (157.12+157.12) / 2$	204.26		
		$(14.75-6.00) \times (152.12+157.12) / 2$	1352.93		
		$(15.16-14.75) \times (152.12+152.12) / 2$	62.37	3.58	
		$(-6.24-10.94) \times (154.82+154.82) / 2$	727.65		
R1-39 520.00	C2	$(-5.91-6.24) \times (155.01+154.82) / 2$	51.12		
		$(-4.90-5.91) \times (155.01+155.01) / 2$	156.56		
		$(-4.70-4.90) \times (155.21+155.01) / 2$	31.02		
		$(-6.00-4.70) \times (155.31+155.31) / 2$	-201.90		
		$(-6.33-6.00) \times (155.12+155.31) / 2$	-51.22		
		$(-10.94-6.33) \times (155.12+155.12) / 2$	-715.10		
		$(5.91-12.62) \times (155.12+151.29) / 2$	-1028.01	1.87	
R1-40 528.64	C1	$(4.90-5.91) \times (155.12+155.12) / 2$	-156.67		
		$(4.70-4.90) \times (155.32+155.12) / 2$	-31.04		
		$(6.00-4.70) \times (155.42+155.42) / 2$	202.05		
		$(13.27-6.00) \times (151.27+155.42) / 2$	1114.82		
		$(12.62-13.27) \times (151.29+151.27) / 2$	-98.33	2.82	
R1-40 528.64	C2	$(-6.02-9.05) \times (154.29+154.29) / 2$	467.50		
		$(-5.91-6.02) \times (154.35+154.29) / 2$	16.98		
		$(-4.90-5.91) \times (154.35+154.35) / 2$	155.89		
		$(-4.70-4.90) \times (154.55+154.35) / 2$	30.89		
		$(-6.00-4.70) \times (154.65+154.65) / 2$	-201.04		
		$(-6.11-6.00) \times (154.59+154.65) / 2$	-17.01		
		$(-9.05-6.11) \times (154.59+154.59) / 2$	-454.49		
R1-40 528.64	C2	$(5.91-12.18) \times (154.35+150.77) / 2$	-956.55		
		$(4.90-5.91) \times (154.35+154.35) / 2$	-155.89		
		$(4.70-4.90) \times (154.55+154.35) / 2$	-30.89		
		$(6.00-4.70) \times (154.65+154.65) / 2$	201.04		
		$(12.83-6.00) \times (150.74+154.65) / 2$	1042.91		
R1-41 532.63	C1	$(12.18-12.83) \times (150.77+150.74) / 2$	-97.99		
		$(-8.14-8.24) \times (154.03+154.03) / 2$	15.40		
		$(-5.91-8.14) \times (154.04+154.03) / 2$	343.50		
		$(-4.90-5.91) \times (154.04+154.04) / 2$	155.58		
		$(-4.70-4.90) \times (154.24+154.04) / 2$	30.83		
		$(-6.00-4.70) \times (154.34+154.34) / 2$	-200.64		
		$(-8.24-6.00) \times (154.33+154.34) / 2$	-345.71	2.63	
A RIPORTARE mq			1.04		

TABULATI MOVIMENTI MATERIA

Codice documento

SS0760_F0.doc

Rev

F0

Data

20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE			Foglio n. 61
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			1.04		
R1-41 532.63	C2	(5.91-11.81) x (154.04+150.67) / 2 (4.90-5.91) x (154.04+154.04) / 2 (4.70-4.90) x (154.24+154.04) / 2 (6.00-4.70) x (154.34+154.34) / 2 (12.46-6.00) x (150.65+154.34) / 2 (11.81-12.46) x (150.67+150.65) / 2	-898.89 -155.58 -30.83 200.64 985.12 -97.93	1.04	
R1-42 540.00	C1	(5.91-11.84) x (153.48+150.09) / 2 (4.90-5.91) x (153.48+153.48) / 2 (4.70-4.90) x (153.68+153.48) / 2 (6.00-4.70) x (153.78+153.78) / 2 (12.50-6.00) x (150.06+153.78) / 2 (11.84-12.50) x (150.09+150.06) / 2	-900.09 -155.01 -30.72 199.91 987.48 -99.05	2.53	
R1-42 540.00	C2	(-5.91--6.83) x (153.52+153.55) / 2 (-4.90--5.91) x (153.52+153.52) / 2 (-4.70--4.90) x (153.72+153.52) / 2 (-6.00--4.70) x (153.82+153.82) / 2 (-6.83--6.00) x (153.85+153.82) / 2	141.25 155.06 30.72 -199.97 -127.68	2.52	
R1-43 546.20	C1	(5.91-11.63) x (153.00+149.73) / 2 (4.90-5.91) x (153.00+153.00) / 2 (4.70-4.90) x (153.20+153.00) / 2 (6.00-4.70) x (153.30+153.30) / 2 (12.29-6.00) x (149.71+153.30) / 2 (11.63-12.29) x (149.73+149.71) / 2	-865.81 -154.53 -30.62 199.29 952.97 -98.82	0.62	
R1-44 546.21	C1	(5.91-11.63) x (153.00+149.73) / 2 (4.90-5.91) x (153.00+153.00) / 2 (4.70-4.90) x (153.20+153.00) / 2 (6.00-4.70) x (153.30+153.30) / 2 (12.29-6.00) x (149.71+153.30) / 2 (11.63-12.29) x (149.73+149.71) / 2	-865.81 -154.53 -30.62 199.29 952.97 -98.82	2.48	
R1-45 560.00	C1	(5.91-11.07) x (151.94+148.99) / 2 (4.90-5.91) x (151.94+151.94) / 2 (4.70-4.90) x (152.14+151.94) / 2 (6.00-4.70) x (152.24+152.24) / 2 (11.73-6.00) x (148.97+152.24) / 2 (11.07-11.73) x (148.99+148.97) / 2	-776.40 -153.46 -30.41 197.91 862.97 -98.33	2.48	
R1-46 580.00	C1	(5.91-10.16) x (150.35+147.92) / 2 (4.90-5.91) x (150.35+150.35) / 2 (4.70-4.90) x (150.55+150.35) / 2 (6.00-4.70) x (150.65+150.65) / 2 (10.76-6.00) x (147.93+150.65) / 2 (10.16-10.76) x (147.92+147.93) / 2	-633.82 -151.85 -30.09 195.84 710.62 -88.75	2.28	
A RIPORTARE mq				1.95	

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 62		
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq					
R1-47 582.63	C1	(5.91-10.16) x (150.15+147.72) / 2 (4.90-5.91) x (150.15+150.15) / 2 (4.70-4.90) x (150.35+150.15) / 2 (6.00-4.70) x (150.45+150.45) / 2 (10.71-6.00) x (147.75+150.45) / 2 (10.16-10.71) x (147.72+147.75) / 2	-632.97 -151.65 -30.05 195.58 702.26 -81.25	1.92	
R1-48 595.46	C1	(5.91-10.35) x (149.16+146.62) / 2 (4.90-5.91) x (149.16+149.16) / 2 (4.70-4.90) x (149.36+149.16) / 2 (6.00-4.70) x (149.46+149.46) / 2 (10.67-6.00) x (146.79+149.46) / 2 (10.35-10.67) x (146.62+146.79) / 2	-656.63 -150.65 -29.85 194.30 691.74 -46.95	1.96	
R1-49 600.00	C1	(5.91-10.37) x (148.81+146.26) / 2 (4.90-5.91) x (148.81+148.81) / 2 (4.70-4.90) x (149.01+148.81) / 2 (6.00-4.70) x (149.11+149.11) / 2 (10.67-6.00) x (146.45+149.11) / 2 (10.37-10.67) x (146.26+146.45) / 2	-658.01 -150.30 -29.78 193.84 690.13 -43.91	1.97	
R1-50 608.29	C1	(5.91-9.84) x (148.18+145.93) / 2 (4.90-5.91) x (148.18+148.18) / 2 (4.70-4.90) x (148.38+148.18) / 2 (6.00-4.70) x (148.48+148.48) / 2 (10.46-6.00) x (145.93+148.48) / 2 (9.84-10.46) x (145.93+145.93) / 2	-577.93 -149.66 -29.66 193.02 656.53 -90.48	1.82	
R1-51 614.99	C1	(5.91-9.64) x (147.70+145.57) / 2 (4.90-5.91) x (147.70+147.70) / 2 (4.70-4.90) x (147.90+147.70) / 2 (6.00-4.70) x (148.00+148.00) / 2 (10.26-6.00) x (145.57+148.00) / 2 (9.64-10.26) x (145.57+145.57) / 2	-546.95 -149.18 -29.56 192.40 625.30 -90.25	1.76	
R1-52 615.00	C1	(5.91-9.64) x (147.70+145.57) / 2 (4.90-5.91) x (147.70+147.70) / 2 (4.70-4.90) x (147.90+147.70) / 2 (6.00-4.70) x (148.00+148.00) / 2 (10.26-6.00) x (145.57+148.00) / 2 (9.64-10.26) x (145.57+145.57) / 2	-546.95 -149.18 -29.56 192.40 625.30 -90.25	1.76	
R1-53 620.00	C1	(5.91-9.52) x (147.34+145.27) / 2 (4.90-5.91) x (147.34+147.34) / 2 (4.70-4.90) x (147.54+147.34) / 2 (6.00-4.70) x (147.64+147.64) / 2 (10.14-6.00) x (145.27+147.64) / 2 (9.52-10.14) x (145.27+145.27) / 2	-528.16 -148.81 -29.49 191.93 606.32 -90.07	1.72	
A RIPORTARE mq					

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 63		
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq					
R1-54 640.00	C1	(5.91-8.91)x(145.75+144.04)/2 (4.90-5.91)x(145.75+145.75)/2 (4.70-4.90)x(145.95+145.75)/2 (6.00-4.70)x(146.05+146.05)/2 (9.37-6.00)x(144.12+146.05)/2 (8.91-9.37)x(144.04+144.12)/2	-434.68 -147.21 -29.17 189.86 488.94 -66.28	1.46	
R1-55 658.29	C1	(5.91-8.30)x(144.29+142.92)/2 (4.90-5.91)x(144.29+144.29)/2 (4.70-4.90)x(144.49+144.29)/2 (6.00-4.70)x(144.59+144.59)/2 (8.76-6.00)x(143.01+144.59)/2 (8.30-8.76)x(142.92+143.01)/2	-343.22 -145.73 -28.88 187.97 396.89 -65.76	1.27	
R1-56 659.15	C1	(5.91-8.26)x(144.22+142.88)/2 (4.90-5.91)x(144.22+144.22)/2 (4.70-4.90)x(144.42+144.22)/2 (6.00-4.70)x(144.52+144.52)/2 (8.71-6.00)x(142.97+144.52)/2 (8.26-8.71)x(142.88+142.97)/2	-337.34 -145.66 -28.86 187.88 389.55 -64.32	1.25	
R1-57 660.00	C1	(4.90-5.91)x(144.15+144.15)/2 (4.70-4.90)x(144.35+144.15)/2 (6.00-4.70)x(144.45+144.45)/2 (7.20-6.00)x(143.77+144.45)/2 (5.91-7.20)x(144.15+143.77)/2	-145.59 -28.85 187.78 172.93 -185.71	0.56	
R1-58 680.00	C1	(5.91-6.41)x(142.66+142.37)/2 (4.90-5.91)x(142.66+142.66)/2 (4.70-4.90)x(142.86+142.66)/2 (6.00-4.70)x(142.96+142.96)/2 (7.75-6.00)x(141.96+142.96)/2 (6.41-7.75)x(142.37+141.96)/2	-71.26 -144.09 -28.55 185.85 249.31 -190.50	0.76	
R1-59 694.82	C1	(-5.91--10.22)x(141.36+138.90)/2 (-4.90--5.91)x(141.36+141.36)/2 (-4.70--4.90)x(141.56+141.36)/2 (-6.00--4.70)x(141.66+141.66)/2 (-10.51--6.00)x(139.08+141.66)/2 (-10.22--10.51)x(138.90+139.08)/2	603.96 142.77 28.29 -184.16 -633.07 40.31	1.90	
R1-59 694.82	C2	(5.91-7.22)x(141.55+140.80)/2 (4.90-5.91)x(141.55+141.55)/2 (4.70-4.90)x(141.75+141.55)/2 (6.00-4.70)x(141.85+141.85)/2 (7.81-6.00)x(140.82+141.85)/2 (7.22-7.81)x(140.80+140.82)/2	-184.94 -142.97 -28.33 184.40 255.82 -83.08	0.90	
R1-60b	C1	(-5.91--14.16)x(140.56+135.84)/2	1140.15		
A RIPORTARE mq			1140.15		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 64		
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			1140.15		
704.83		(-4.90--5.91) x (140.56+140.56) / 2 (-4.70--4.90) x (140.76+140.56) / 2 (-6.00--4.70) x (140.86+140.86) / 2 (-14.68--6.00) x (135.89+140.86) / 2 (-14.16--14.68) x (135.84+135.89) / 2	141.97 28.13 -183.12 -1201.10 70.65		
R1-60b 704.83	C2	(5.91-6.87) x (140.80+140.26) / 2 (4.90-5.91) x (140.80+140.80) / 2 (4.70-4.90) x (141.00+140.80) / 2 (6.00-4.70) x (141.10+141.10) / 2 (7.45-6.00) x (140.28+141.10) / 2 (6.87-7.45) x (140.26+140.28) / 2	-134.91 -142.21 -28.18 183.43 204.00 -81.36	3.32	
R1-61 714.87	C1	(-5.91--8.77) x (139.70+138.06) / 2 (-4.90--5.91) x (139.70+139.70) / 2 (-4.70--4.90) x (139.90+139.70) / 2 (-6.00--4.70) x (140.00+140.00) / 2 (-9.40--6.00) x (138.06+140.00) / 2 (-8.77--9.40) x (138.06+138.06) / 2	397.20 141.10 27.96 -182.00 -472.70 86.98	0.77	
R1-61 714.87	C2	(5.91-6.78) x (140.05+139.55) / 2 (4.90-5.91) x (140.05+140.05) / 2 (4.70-4.90) x (140.25+140.05) / 2 (6.00-4.70) x (140.35+140.35) / 2 (7.36-6.00) x (139.58+140.35) / 2 (6.78-7.36) x (139.55+139.58) / 2	-121.63 -141.45 -28.03 182.45 190.35 -80.95	1.46	
R1-62 720.00	C1	(-5.91--8.97) x (139.29+137.54) / 2 (-4.90--5.91) x (139.29+139.29) / 2 (-4.70--4.90) x (139.49+139.29) / 2 (-6.00--4.70) x (139.59+139.59) / 2 (-9.60--6.00) x (137.53+139.59) / 2 (-8.97--9.60) x (137.54+137.53) / 2	423.55 140.68 27.88 -181.47 -498.82 86.65	0.74	
R1-62 720.00	C2	(5.91-6.59) x (139.64+139.26) / 2 (4.90-5.91) x (139.64+139.64) / 2 (4.70-4.90) x (139.84+139.64) / 2 (6.00-4.70) x (139.94+139.94) / 2 (7.16-6.00) x (139.28+139.94) / 2 (6.59-7.16) x (139.26+139.28) / 2	-94.83 -141.04 -27.95 181.92 161.95 -79.38	1.53	
R1-63 740.00	C1	(-5.91--10.37) x (137.69+135.14) / 2 (-4.90--5.91) x (137.69+137.69) / 2 (-4.70--4.90) x (137.89+137.69) / 2 (-6.00--4.70) x (137.99+137.99) / 2 (-10.92--6.00) x (135.18+137.99) / 2 (-10.37--10.92) x (135.14+135.18) / 2	608.41 139.07 27.56 -179.39 -672.00 74.34	0.67	
R1-63	C2	(5.91-5.94) x (138.04+138.03) / 2	-4.14	2.01	
A RIPORTARE mq			-4.14		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 65		
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			-4.14		
740.00		(4.90-5.91)x(138.04+138.04)/2 (4.70-4.90)x(138.24+138.04)/2 (6.00-4.70)x(138.34+138.34)/2 (6.51-6.00)x(138.05+138.34)/2 (5.94-6.51)x(138.03+138.05)/2	-139.42 -27.63 179.84 70.48 -78.68	0.45	
R1-64 760.00	C1	(-5.91--9.14)x(136.23+134.39)/2 (-4.90--5.91)x(136.23+136.23)/2 (-4.70--4.90)x(136.43+136.23)/2 (-6.00--4.70)x(136.53+136.53)/2 (-9.69--6.00)x(134.43+136.53)/2 (-9.14--9.69)x(134.39+134.43)/2	437.05 137.59 27.27 -177.49 -499.92 73.93	1.57	
R1-65 773.85	C1	(-5.91--8.39)x(135.42+134.00)/2 (-4.90--5.91)x(135.42+135.42)/2 (-4.70--4.90)x(135.62+135.42)/2 (-6.00--4.70)x(135.72+135.72)/2 (-9.01--6.00)x(134.00+135.72)/2 (-8.39--9.01)x(134.00+134.00)/2	334.08 136.77 27.10 -176.44 -405.93 83.08	1.34	
R1-66 780.00	C1	(-5.91--8.78)x(135.08+133.44)/2 (-4.90--5.91)x(135.08+135.08)/2 (-4.70--4.90)x(135.28+135.08)/2 (-6.00--4.70)x(135.38+135.38)/2 (-9.19--6.00)x(133.56+135.38)/2 (-8.78--9.19)x(133.44+133.56)/2	385.33 136.43 27.04 -175.99 -428.96 54.74	1.41	
R1-67 800.00	C1	(-5.91--9.77)x(133.98+131.77)/2 (-4.90--5.91)x(133.98+133.98)/2 (-4.70--4.90)x(134.18+133.98)/2 (-6.00--4.70)x(134.28+134.28)/2 (-10.39--6.00)x(131.77+134.28)/2 (-9.77--10.39)x(131.77+131.77)/2	512.90 135.32 26.82 -174.56 -583.98 81.70	1.80	
R1-68 820.00	C1	(-5.91--9.51)x(132.82+130.77)/2 (-4.90--5.91)x(132.82+132.82)/2 (-4.70--4.90)x(133.02+132.82)/2 (-6.00--4.70)x(133.12+133.12)/2 (-9.97--6.00)x(130.85+133.12)/2 (-9.51--9.97)x(130.77+130.85)/2	474.46 134.15 26.58 -173.06 -523.98 60.17	1.68	
R1-69 832.82	C1	(-5.91--10.06)x(132.07+129.70)/2 (-4.90--5.91)x(132.07+132.07)/2 (-4.70--4.90)x(132.27+132.07)/2 (-6.00--4.70)x(132.37+132.37)/2 (-10.57--6.00)x(129.75+132.37)/2 (-10.06--10.57)x(129.70+129.75)/2	543.17 133.39 26.43 -172.08 -598.94 66.16	1.87	
R1-70	C1	(-5.91--10.49)x(131.64+129.02)/2	596.91		
A RIPORTARE mq			596.91		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 66	
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTO mq			596.91		
840.00		$(-4.90-5.91) \times (131.64+131.64) / 2$ $(-4.70-4.90) \times (131.84+131.64) / 2$ $(-6.00-4.70) \times (131.94+131.94) / 2$ $(-10.76-6.00) \times (129.22+131.94) / 2$ $(-10.49-10.76) \times (129.02+129.22) / 2$	132.96 26.35 -171.52 -621.56 34.86	2.00	
R1-72 879.15	C1	$(-5.91-8.51) \times (129.25+127.77) / 2$ $(-4.90-5.91) \times (129.25+129.25) / 2$ $(-4.70-4.90) \times (129.45+129.25) / 2$ $(-6.00-4.70) \times (129.55+129.55) / 2$ $(-8.73-6.00) \times (127.99+129.55) / 2$ $(-8.51-8.73) \times (127.77+127.99) / 2$	334.13 130.54 25.87 -168.41 -351.54 28.13	1.28	
R1-72 879.15	C2	$(5.91-6.19) \times (129.53+129.69) / 2$ $(4.90-5.91) \times (129.53+129.53) / 2$ $(4.70-4.90) \times (129.73+129.53) / 2$ $(6.00-4.70) \times (129.83+129.83) / 2$ $(7.49-6.00) \times (128.98+129.83) / 2$ $(6.19-7.49) \times (129.69+128.98) / 2$	-36.29 -130.83 -25.93 168.78 192.81 -168.14	0.40	
Il Direttore dei Lavori		L'Impresa			

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE				Foglio n. 67
GRADONATURA						
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE	
R1-3 32.24	01	$(3.68-3.18) \times (161.56+160.79) / 2$	80.59			
		$(3.75-3.68) \times (161.64+161.56) / 2$	11.31			
		$(3.98-3.75) \times (161.79+161.64) / 2$	37.19			
		$(3.18-3.98) \times (160.79+160.79) / 2$	-128.63			
				0.46		
R1-3 32.24	02	$(3.99-3.98) \times (161.80+161.79) / 2$	1.62			
		$(5.42-3.99) \times (162.32+161.80) / 2$	231.75			
		$(5.90-5.42) \times (162.79+162.32) / 2$	78.03			
		$(3.98-5.90) \times (161.79+161.79) / 2$	-310.64			
				0.76		
R1-4 32.25	01	$(3.67-3.17) \times (161.57+160.81) / 2$	80.59			
		$(3.74-3.67) \times (161.65+161.57) / 2$	11.31			
		$(3.97-3.74) \times (161.80+161.65) / 2$	37.20			
		$(3.99-3.97) \times (161.81+161.80) / 2$	3.24			
		$(3.17-3.99) \times (160.81+160.81) / 2$	-131.86			
				0.48		
R1-4 32.25	02	$(5.42-3.99) \times (162.33+161.81) / 2$	231.76			
		$(5.91-5.42) \times (162.81+162.33) / 2$	79.66			
		$(3.99-5.91) \times (161.81+161.81) / 2$	-310.68			
				0.74		
R1-16 162.95	01	$(-1.14--1.91) \times (170.33+170.80) / 2$	131.34			
		$(-1.91--1.14) \times (170.33+170.33) / 2$	-131.15			
				0.19		
R1-16 162.95	02	$(0.48--1.14) \times (169.33+170.33) / 2$	275.12			
		$(-1.14-0.48) \times (169.33+169.33) / 2$	-274.31			
				0.81		
R1-18 190.84	01	$(1.21--1.13) \times (171.94+172.80) / 2$	403.35			
		$(-1.13-1.21) \times (171.94+171.94) / 2$	-402.34			
				1.01		
R1-18 190.84	02	$(1.58-1.21) \times (171.80+171.94) / 2$	63.59			
		$(2.88-1.58) \times (170.94+171.80) / 2$	222.78			
		$(1.21-2.88) \times (170.94+170.94) / 2$	-285.47			
				0.90		
R1-18 190.84	03	$(3.10-2.88) \times (170.80+170.94) / 2$	37.59			
		$(4.25-3.10) \times (169.94+170.80) / 2$	195.93			
		$(2.88-4.25) \times (169.94+169.94) / 2$	-232.82			
				0.70		
R1-18 190.84	04	$(4.44-4.25) \times (169.80+169.94) / 2$	32.28			
		$(6.00-4.44) \times (168.94+169.80) / 2$	264.22			
		$(4.25-6.00) \times (168.94+168.94) / 2$	-295.64			
				0.86		
R1-18b 190.85	01	$(19.90-15.83) \times (163.80+164.80) / 2$	668.70			
		$(15.83-19.90) \times (163.80+163.80) / 2$	-666.67			
				2.03		
R1-18b 190.85	02	$(28.78-27.19) \times (162.80+163.28) / 2$	259.23			
		$(31.50-28.78) \times (162.28+162.80) / 2$	442.11			
		$(27.19-31.50) \times (162.28+162.28) / 2$	-699.43			
				1.91		
R1-18b 190.85	03	$(1.58--1.13) \times (171.80+172.80) / 2$	466.93			
		$(-1.13-1.58) \times (171.80+171.80) / 2$	-465.58			
				1.35		
A RIPORTARE mq						

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 68		
GRADONATURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq					
R1-18b 190.85	04	$(3.01-1.58) \times (170.80+171.80) / 2$ $(1.58-3.01) \times (170.80+170.80) / 2$	244.96 -244.24	0.72	
R1-18b 190.85	05	$(4.44-3.01) \times (169.80+170.80) / 2$ $(3.01-4.44) \times (169.80+169.80) / 2$	243.53 -242.81	0.72	
R1-18b 190.85	06	$(6.25-4.44) \times (168.80+169.80) / 2$ $(4.44-6.25) \times (168.80+168.80) / 2$	306.43 -305.53	0.90	
R1-18b 190.85	07	$(8.88-6.25) \times (167.80+168.80) / 2$ $(6.25-8.88) \times (167.80+167.80) / 2$	442.63 -441.31	1.32	
R1-18b 190.85	08	$(12.65-8.88) \times (166.80+167.80) / 2$ $(8.88-12.65) \times (166.80+166.80) / 2$	630.72 -628.84	1.88	
R1-18b 190.85	09	$(14.90-12.65) \times (165.80+166.80) / 2$ $(12.65-14.90) \times (165.80+165.80) / 2$	374.18 -373.05	1.13	
R1-18b 190.85	010	$(15.03-14.91) \times (165.11+165.80) / 2$ $(15.83-15.03) \times (164.80+165.11) / 2$ $(14.90-15.83) \times (164.80+164.80) / 2$ $(14.91-14.90) \times (165.80+165.80) / 2$	19.85 131.96 -153.26 1.66	0.21	
R1-18b 190.85	011	$(27.19-25.50) \times (163.28+163.80) / 2$ $(25.50-27.19) \times (163.28+163.28) / 2$	276.38 -275.94	0.44	
R1-20 210.84	01	$(7.72-6.78) \times (173.23+173.76) / 2$ $(7.79-7.72) \times (173.15+173.23) / 2$ $(8.23-7.79) \times (172.80+173.15) / 2$ $(6.78-8.23) \times (172.80+172.80) / 2$	163.09 12.12 76.11 -250.56	0.76	
R1-20b 220.00	01	$(6.71-6.20) \times (172.89+173.32) / 2$ $(6.20-6.71) \times (172.89+172.89) / 2$	88.28 -88.17	0.11	
R1-20b 220.00	02	$(6.81-6.71) \times (172.80+172.89) / 2$ $(7.71-6.81) \times (171.89+172.80) / 2$ $(6.71-7.71) \times (171.89+171.89) / 2$	17.28 155.11 -171.89	0.50	
R1-20b 220.00	03	$(7.80-7.71) \times (171.80+171.89) / 2$ $(8.82-7.80) \times (170.89+171.80) / 2$ $(7.71-8.82) \times (170.89+170.89) / 2$	15.47 174.77 -189.69	0.55	
R1-21 240.00	01	$(-1.71--2.21) \times (173.27+173.98) / 2$ $(-2.21--1.71) \times (173.27+173.27) / 2$	86.81 -86.64	0.17	
R1-21 240.00	02	$(-1.39--1.71) \times (172.80+173.27) / 2$ $(-0.92--1.39) \times (172.27+172.80) / 2$ $(-1.71--0.92) \times (172.27+172.27) / 2$	55.37 81.09 -136.09	0.37	
A RIPORTARE mq					

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 69	
GRADONATURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq					
R1-21 240.00	03	$(-0.53-0.92) \times (171.80+172.27) / 2$ $(-0.05-0.53) \times (171.27+171.80) / 2$ $(-0.92-0.05) \times (171.27+171.27) / 2$	67.09 82.34 -149.00	0.43	
R1-21 240.00	04	$(0.36-0.05) \times (170.80+171.27) / 2$ $(1.97-0.36) \times (170.27+170.80) / 2$ $(-0.05-1.97) \times (170.27+170.27) / 2$	70.12 274.56 -343.95	0.73	
R1-21 240.00	05	$(6.45-1.97) \times (171.27+170.27) / 2$ $(1.97-6.45) \times (170.27+170.27) / 2$	765.05 -762.81	2.24	
R1-21 240.00	06	$(10.18-6.45) \times (172.10+171.27) / 2$ $(6.45-10.18) \times (171.27+171.27) / 2$	640.39 -638.84	1.55	
R1-22 260.19	01	$(0.36-2.44) \times (171.70+172.70) / 2$ $(-2.44-0.36) \times (171.70+171.70) / 2$	482.16 -480.76	1.40	
R1-22 260.19	02	$(3.15-0.36) \times (170.70+171.70) / 2$ $(0.36-3.15) \times (170.70+170.70) / 2$	477.65 -476.25	1.40	
R1-22 260.19	03	$(5.95-3.15) \times (169.70+170.70) / 2$ $(3.15-5.95) \times (169.70+169.70) / 2$	476.56 -475.16	1.40	
R1-30 382.06	01	$(-1.04-1.39) \times (161.39+161.72) / 2$ $(-1.39-1.04) \times (161.39+161.39) / 2$	56.54 -56.49	0.05	
R1-30 382.06	02	$(0.04-1.04) \times (160.39+161.39) / 2$ $(-1.04-0.04) \times (160.39+160.39) / 2$	173.76 -173.22	0.54	
R1-30 382.06	03	$(0.93-0.04) \times (160.57+160.39) / 2$ $(2.37-0.93) \times (161.39+160.57) / 2$ $(0.04-2.37) \times (160.39+160.39) / 2$	142.83 231.81 -373.71	0.93	
R1-30 382.06	04	$(2.98-2.37) \times (161.74+161.39) / 2$ $(2.37-2.98) \times (161.39+161.39) / 2$	98.55 -98.45	0.10	
R1-30 382.06	05	$(-11.22-13.00) \times (157.58+156.58) / 2$ $(-13.00-11.22) \times (156.58+156.58) / 2$	279.60 -278.71	0.89	
R1-30 382.06	06	$(-10.36-11.22) \times (158.06+157.58) / 2$ $(-9.79-10.36) \times (158.58+158.06) / 2$ $(-11.22-9.79) \times (157.58+157.58) / 2$	135.73 90.24 -225.34	0.63	
R1-30 382.06	07	$(-8.68-9.79) \times (159.58+158.58) / 2$ $(-9.79-8.68) \times (158.58+158.58) / 2$	176.58 -176.02	0.56	
R1-30 382.06	08	$(-7.57-8.68) \times (160.58+159.58) / 2$ $(-8.68-7.57) \times (159.58+159.58) / 2$	177.69 -177.13	0.56	
A RIPORTARE mq					

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 70		
GRADONATURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq					
R1-30 382.06	09	$(-6.99-7.57) \times (161.10+160.58) / 2$ $(-5.56-6.99) \times (161.58+161.10) / 2$ $(-7.57-5.56) \times (160.58+160.58) / 2$	93.29 230.72 -322.77		
R1-30 382.06	010	$(-5.23-5.56) \times (161.69+161.58) / 2$ $(-5.56-5.23) \times (161.58+161.58) / 2$	53.34 -53.32	1.24	
R1-30 382.06	011	$(9.63-9.07) \times (161.62+161.75) / 2$ $(10.74-9.63) \times (160.75+161.62) / 2$ $(9.07-10.74) \times (160.75+160.75) / 2$	90.54 178.92 -268.45		1.01
R1-30 382.06	012	$(12.02-10.74) \times (159.75+160.75) / 2$ $(10.74-12.02) \times (159.75+159.75) / 2$	205.12 -204.48		0.64
R1-30 382.06	013	$(13.30-12.02) \times (158.75+159.75) / 2$ $(12.02-13.30) \times (158.75+158.75) / 2$	203.84 -203.20		0.64
R1-30 382.06	014	$(14.58-13.30) \times (157.75+158.75) / 2$ $(13.30-14.58) \times (157.75+157.75) / 2$	202.56 -201.92		0.64
R1-30 382.06	015	$(14.71-14.58) \times (157.65+157.75) / 2$ $(16.66-14.71) \times (157.25+157.65) / 2$ $(17.39-16.66) \times (156.75+157.25) / 2$ $(14.58-17.39) \times (156.75+156.75) / 2$	20.50 307.03 114.61 -440.47		1.67
R1-39 520.00	01	$(5.75-4.14) \times (148.10+147.10) / 2$ $(4.14-5.75) \times (147.10+147.10) / 2$	237.64 -236.83		0.81
R1-39 520.00	02	$(6.88-5.75) \times (148.80+148.10) / 2$ $(7.42-6.88) \times (149.10+148.80) / 2$ $(5.75-7.42) \times (148.10+148.10) / 2$	167.75 80.43 -247.33		0.85
R1-39 520.00	03	$(8.66-7.42) \times (149.80+149.10) / 2$ $(9.26-8.66) \times (150.10+149.80) / 2$ $(7.42-9.26) \times (149.10+149.10) / 2$	185.32 89.97 -274.34		0.95
R1-39 520.00	04	$(10.63-9.26) \times (150.80+150.10) / 2$ $(11.21-10.63) \times (151.09+150.80) / 2$ $(9.26-11.21) \times (150.10+150.10) / 2$	206.12 87.55 -292.70		0.97
R1-40 528.64	01	$(4.62-2.71) \times (148.17+147.17) / 2$ $(2.71-4.62) \times (147.17+147.17) / 2$	282.05 -281.09		0.96
R1-40 528.64	02	$(5.83-4.62) \times (148.80+148.17) / 2$ $(6.54-5.83) \times (149.17+148.80) / 2$ $(4.62-6.54) \times (148.17+148.17) / 2$	179.67 105.78 -284.49		0.96
R1-40 528.64	03	$(7.75-6.54) \times (149.80+149.17) / 2$ $(8.47-7.75) \times (150.17+149.80) / 2$	180.88 107.99		
A RIPORTARE mq			288.87		

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 71		
GRADONATURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			288.87		
R1-40 528.64	O4	$(6.54-8.47) \times (149.17+149.17) / 2$ $(9.40-8.47) \times (150.64+150.17) / 2$ $(8.47-9.40) \times (150.17+150.17) / 2$	-287.90 139.88 -139.66	0.97 0.22	
R1-41 532.63	O1	$(4.20-2.32) \times (148.26+147.26) / 2$ $(2.32-4.20) \times (147.26+147.26) / 2$	277.79 -276.85	0.94	
R1-41 532.63	O2	$(5.22-4.20) \times (148.80+148.26) / 2$ $(6.09-5.22) \times (149.26+148.80) / 2$ $(4.20-6.09) \times (148.26+148.26) / 2$	151.50 129.66 -280.21	0.95	
R1-41 532.63	O3	$(7.13-6.09) \times (149.80+149.26) / 2$ $(8.01-7.13) \times (150.26+149.80) / 2$ $(6.09-8.01) \times (149.26+149.26) / 2$	155.51 132.03 -286.58	0.96	
R1-41 532.63	O4	$(8.40-8.01) \times (150.46+150.26) / 2$ $(8.01-8.40) \times (150.26+150.26) / 2$	58.64 -58.60	0.04	
R1-42 540.00	O1	$(-4.11--5.22) \times (148.80+149.17) / 2$ $(-3.73--4.11) \times (148.48+148.80) / 2$ $(-5.22--3.73) \times (148.48+148.48) / 2$	165.37 56.48 -221.24	0.61	
R1-42 540.00	O2	$(-3.60--3.73) \times (148.38+148.48) / 2$ $(-3.39--3.60) \times (148.12+148.38) / 2$ $(-2.49--3.39) \times (147.48+148.12) / 2$ $(-3.73--2.49) \times (147.48+147.48) / 2$	19.30 31.13 133.02 -182.88	0.57	
R1-42 540.00	O3	$(2.84-1.74) \times (148.02+147.45) / 2$ $(1.74-2.84) \times (147.45+147.45) / 2$	162.51 -162.19	0.32	
R1-42 540.00	O4	$(4.35-2.84) \times (148.80+148.02) / 2$ $(4.84-4.35) \times (149.02+148.80) / 2$ $(2.84-4.84) \times (148.02+148.02) / 2$	224.10 72.97 -296.04	1.03	
R1-42 540.00	O5	$(6.55-4.84) \times (149.80+149.02) / 2$ $(7.08-6.55) \times (150.02+149.80) / 2$ $(4.84-7.08) \times (149.02+149.02) / 2$	255.49 79.45 -333.80	1.14	
R1-43 546.20	O1	$(-1.95--3.02) \times (149.07+149.53) / 2$ $(-3.02--1.95) \times (149.07+149.07) / 2$	159.75 -159.50	0.25	
R1-43 546.20	O2	$(-1.32--1.95) \times (148.80+149.07) / 2$ $(-0.45--1.32) \times (148.07+148.80) / 2$ $(-1.95--0.45) \times (148.07+148.07) / 2$	93.83 129.14 -222.10	0.87	
R1-43 546.20	O3	$(4.10-1.94) \times (148.80+147.89) / 2$ $(4.30-4.10) \times (148.89+148.80) / 2$ $(1.94-4.30) \times (147.89+147.89) / 2$	320.43 29.77 -349.02		
A RIPORTARE mq			1.18		

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE	Foglio n. 72		
GRADONATURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			1.18		
R1-43 546.20	04	$(6.04-4.30) \times (149.63+148.89) / 2$ $(4.30-6.04) \times (148.89+148.89) / 2$	259.71 -259.07	1.18	
R1-44 546.21	01	$(-1.95--3.02) \times (149.07+149.53) / 2$ $(-3.02--1.95) \times (149.07+149.07) / 2$	159.75 -159.50	0.64	
R1-44 546.21	02	$(-1.32--1.95) \times (148.80+149.07) / 2$ $(-0.44--1.32) \times (148.07+148.80) / 2$ $(-1.95--0.44) \times (148.07+148.07) / 2$	93.83 130.62 -223.59	0.25	
R1-44 546.21	03	$(4.10-1.94) \times (148.80+147.89) / 2$ $(4.30-4.10) \times (148.89+148.80) / 2$ $(1.94-4.30) \times (147.89+147.89) / 2$	320.43 29.77 -349.02	0.86	
R1-44 546.21	04	$(6.04-4.30) \times (149.63+148.89) / 2$ $(4.30-6.04) \times (148.89+148.89) / 2$	259.71 -259.07	1.18	
R1-45 560.00	01	$(-0.67--2.56) \times (150.80+151.37) / 2$ $(-0.54--0.67) \times (150.71+150.80) / 2$ $(-2.56--0.54) \times (150.71+150.71) / 2$	285.55 19.60 -304.43	0.64	
R1-45 560.00	02	$(-0.22--0.54) \times (150.50+150.71) / 2$ $(0.69--0.22) \times (149.80+150.50) / 2$ $(0.91-0.69) \times (149.71+149.80) / 2$ $(-0.54-0.91) \times (149.71+149.71) / 2$	48.19 136.64 32.95 -217.08	0.72	
R1-45 560.00	03	$(3.32-0.91) \times (148.71+149.71) / 2$ $(0.91-3.32) \times (148.71+148.71) / 2$	359.60 -358.39	0.70	
R1-46 580.00	01	$(4.05-3.75) \times (149.53+149.69) / 2$ $(3.75-4.05) \times (149.53+149.53) / 2$	44.88 -44.86	1.21	
R1-46 580.00	02	$(5.96-4.05) \times (148.53+149.53) / 2$ $(4.05-5.96) \times (148.53+148.53) / 2$	284.65 -283.69	0.02	
R1-46 580.00	03	$(7.36-5.96) \times (147.80+148.53) / 2$ $(7.86-7.36) \times (147.53+147.80) / 2$ $(5.96-7.86) \times (147.53+147.53) / 2$	207.43 73.83 -280.31	0.96	
R1-47 582.63	01	$(6.43-4.54) \times (148.38+149.38) / 2$ $(4.54-6.43) \times (148.38+148.38) / 2$	281.38 -280.44	0.95	
R1-47 582.63	02	$(7.53-6.43) \times (147.80+148.38) / 2$ $(8.31-7.53) \times (147.38+147.80) / 2$ $(6.43-8.31) \times (147.38+147.38) / 2$	162.90 115.12 -277.07	0.94	
R1-48 595.46	01	$(6.54-5.42) \times (148.35+148.96) / 2$ $(5.42-6.54) \times (148.35+148.35) / 2$	166.49 -166.15	0.95	
A RIPORTARE mq			0.34		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 73	
GRADONATURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			0.34		
R1-48 595.46	O2	(8.38-6.54)x(147.35+148.35)/2 (6.54-8.38)x(147.35+147.35)/2	272.04 -271.12	0.34	
R1-48 595.46	O3	(10.23-8.38)x(146.35+147.35)/2 (8.38-10.23)x(146.35+146.35)/2	271.67 -270.75	0.92	
R1-49 600.00	O1	(6.74-5.78)x(148.06+148.61)/2 (5.78-6.74)x(148.06+148.06)/2	142.40 -142.14	0.92	
R1-49 600.00	O2	(7.20-6.74)x(147.80+148.06)/2 (8.55-7.20)x(147.06+147.80)/2 (6.74-8.55)x(147.06+147.06)/2	68.05 199.03 -266.18	0.26	
R1-49 600.00	O3	(10.37-8.55)x(146.06+147.06)/2 (8.55-10.37)x(146.06+146.06)/2	266.74 -265.83	0.90	
R1-52 615.00	O1	(6.02-5.78)x(147.37+147.50)/2 (5.78-6.02)x(147.37+147.37)/2	35.38 -35.37	0.91	
R1-52 615.00	O2	(7.79-6.02)x(146.37+147.37)/2 (6.02-7.79)x(146.37+146.37)/2	259.96 -259.07	0.01	
R1-52 615.00	O3	(8.80-7.79)x(145.80+146.37)/2 (10.26-8.80)x(145.37+145.80)/2 (7.79-10.26)x(145.37+145.37)/2	147.55 212.55 -359.06	0.89	
R1-54 640.00	O1	(4.68-4.18)x(144.80+145.06)/2 (5.06-4.68)x(144.60+144.80)/2 (4.18-5.06)x(144.60+144.60)/2	72.47 54.99 -127.25	1.04	
R1-54 640.00	O2	(6.61-5.06)x(143.80+144.60)/2 (7.00-6.61)x(143.60+143.80)/2 (5.06-7.00)x(143.60+143.60)/2	223.51 56.04 -278.58	0.21	
R1-55 658.29	O1	(5.61-4.91)x(143.22+143.58)/2 (4.91-5.61)x(143.22+143.22)/2	100.38 -100.25	0.97	
R1-55 658.29	O2	(6.42-5.61)x(142.80+143.22)/2 (7.24-6.42)x(142.22+142.80)/2 (5.61-7.24)x(142.22+142.22)/2	115.84 116.86 -231.82	0.13	
R1-56 659.15	O1	(6.23-4.88)x(142.80+143.50)/2 (6.82-6.23)x(142.50+142.80)/2 (4.88-6.82)x(142.50+142.50)/2	193.25 84.16 -276.45	0.88	
R1-59 694.82	O6	(-8.83--10.22)x(137.80+138.70)/2 (-10.22--8.83)x(137.80+137.80)/2	192.17 -191.54	0.96	
A RIPORTARE mq				0.63	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 74	
GRADONATURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq					
R1-59 694.82	01	$(4.37-3.92) \times (137.80+136.80) / 2$ $(3.92-4.37) \times (136.80+136.80) / 2$	61.79 -61.56	0.23	
R1-59 694.82	02	$(4.82-4.37) \times (138.80+137.80) / 2$ $(4.37-4.82) \times (137.80+137.80) / 2$	62.24 -62.01	0.23	
R1-59 694.82	03	$(5.20-4.82) \times (139.80+138.80) / 2$ $(4.82-5.20) \times (138.80+138.80) / 2$	52.93 -52.74	0.19	
R1-59 694.82	04	$(7.22-5.20) \times (140.60+139.80) / 2$ $(5.20-7.22) \times (139.80+139.80) / 2$	283.20 -282.40	0.80	
R1-59 694.82	05	$(0.31--0.09) \times (136.80+135.80) / 2$ $(-0.09-0.31) \times (135.80+135.80) / 2$	54.52 -54.32	0.20	
R1-59 694.82	07	$(-7.17--8.83) \times (136.80+137.80) / 2$ $(-8.83--7.17) \times (136.80+136.80) / 2$	227.92 -227.09	0.83	
R1-59 694.82	08	$(-3.70--5.95) \times (135.80+136.80) / 2$ $(-5.95--3.70) \times (135.80+135.80) / 2$	306.68 -305.55	1.13	
R1-61 714.87	01	$(3.33-1.42) \times (138.96+137.96) / 2$ $(1.42-3.33) \times (137.96+137.96) / 2$	264.46 -263.50	0.96	
R1-61 714.87	02	$(4.44-3.33) \times (139.54+138.96) / 2$ $(3.33-4.44) \times (138.96+138.96) / 2$	154.57 -154.25	0.32	
R1-62 720.00	01	$(1.05-0.34) \times (137.80+137.49) / 2$ $(2.52-1.05) \times (138.49+137.80) / 2$ $(0.34-2.52) \times (137.49+137.49) / 2$	97.73 203.07 -299.73	1.07	
R1-62 720.00	02	$(3.17-2.52) \times (138.80+138.49) / 2$ $(3.75-3.17) \times (139.11+138.80) / 2$ $(2.52-3.75) \times (138.49+138.49) / 2$	90.12 80.59 -170.34	0.37	
R1-63 740.00	01	$(-2.16--2.99) \times (135.80+135.32) / 2$ $(-1.02--2.16) \times (136.32+135.80) / 2$ $(-2.99--1.02) \times (135.32+135.32) / 2$	112.51 155.11 -266.58	1.04	
R1-63 740.00	02	$(0.04--1.02) \times (136.80+136.32) / 2$ $(0.93-0.04) \times (137.32+136.80) / 2$ $(-1.02-0.93) \times (136.32+136.32) / 2$	144.75 121.98 -265.82	0.91	
R1-64 760.00	01	$(-2.68--4.03) \times (134.80+134.02) / 2$ $(-2.28--2.68) \times (135.02+134.80) / 2$ $(-4.03--2.28) \times (134.02+134.02) / 2$	181.45 53.96 -234.54	0.87	
R1-64 760.00	02	$(-0.76--2.28) \times (135.88+135.02) / 2$ $(-2.28--0.76) \times (135.02+135.02) / 2$	205.88 -205.23		
A RIPORTARE mq			0.65		

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE			Foglio n. 75
GRADONATURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			0.65		
R1-65 773.85	O3	$(-6.33--8.15) \times (133.19+133.80) / 2$ $(-8.15--6.33) \times (133.19+133.19) / 2$	242.96 -242.41	0.65	
R1-65 773.85	O1	$(-3.73--5.73) \times (134.20+133.20) / 2$ $(-5.73--3.73) \times (133.20+133.20) / 2$	267.40 -266.40	0.55	
R1-65 773.85	O2	$(-2.10--3.73) \times (135.02+134.20) / 2$ $(-3.73--2.10) \times (134.20+134.20) / 2$	219.41 -218.75	1.00	
R1-66 780.00	O3	$(-7.26--8.78) \times (132.80+133.24) / 2$ $(-7.09--7.26) \times (132.74+132.80) / 2$ $(-8.78--7.09) \times (132.74+132.74) / 2$	202.19 22.57 -224.33	0.66	
R1-66 780.00	O1	$(-6.37--6.48) \times (132.80+132.74) / 2$ $(-4.46--6.37) \times (133.74+132.80) / 2$ $(-6.48--4.46) \times (132.74+132.74) / 2$	14.60 254.55 -268.13	0.43	
R1-66 780.00	O2	$(-4.34--4.46) \times (133.80+133.74) / 2$ $(-2.57--4.34) \times (134.66+133.80) / 2$ $(-4.46--2.57) \times (133.74+133.74) / 2$	16.05 237.59 -252.77	1.02	
R1-67 800.00	O1	$(-7.36--7.77) \times (131.80+131.58) / 2$ $(-5.74--7.36) \times (132.58+131.80) / 2$ $(-7.77--5.74) \times (131.58+131.58) / 2$	53.99 214.15 -267.11	0.87	
R1-67 800.00	O2	$(-5.29--5.74) \times (132.80+132.58) / 2$ $(-3.82--5.29) \times (133.51+132.80) / 2$ $(-5.74--3.82) \times (132.58+132.58) / 2$	59.71 195.74 -254.55	1.03	
R1-68 820.00	O1	$(-6.47--8.13) \times (131.46+130.46) / 2$ $(-8.13--6.47) \times (130.46+130.46) / 2$	217.39 -216.56	0.90	
R1-68 820.00	O2	$(-5.06--6.47) \times (132.31+131.46) / 2$ $(-6.47--5.06) \times (131.46+131.46) / 2$	185.96 -185.36	0.83	
R1-69 832.82	O1	$(-8.55--9.07) \times (129.80+129.48) / 2$ $(-7.42--8.55) \times (130.48+129.80) / 2$ $(-9.07--7.42) \times (129.48+129.48) / 2$	67.41 147.06 -213.64	0.60	
R1-69 832.82	O2	$(-6.90--7.42) \times (130.80+130.48) / 2$ $(-5.79--6.90) \times (131.48+130.80) / 2$ $(-7.42--5.79) \times (130.48+130.48) / 2$	67.93 145.57 -212.68	0.83	
R1-69 832.82	O3	$(-5.17--5.79) \times (131.87+131.48) / 2$ $(-5.79--5.17) \times (131.48+131.48) / 2$	81.64 -81.52	0.82	
R1-70 840.00	O1	$(-9.84--10.05) \times (128.99+128.82) / 2$ $(-8.49--9.84) \times (129.80+128.99) / 2$	27.07 174.68	0.12	
A RIPORTARE mq			201.75		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE AREE		Foglio n. 76	
GRADONATURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTO mq			201.75		
R1-70 840.00	O2	$(-8.45--8.49) \times (129.82+129.80) / 2$	5.19	0.83	
		$(-10.05--8.45) \times (128.82+128.82) / 2$	-206.11		
		$(-6.77--8.45) \times (130.80+129.82) / 2$	218.92		
		$(-6.72--6.77) \times (130.82+130.80) / 2$	6.54		
R1-70 840.00	O3	$(-8.45--6.72) \times (129.82+129.82) / 2$	-224.59	0.87	
		$(-5.66--6.72) \times (131.44+130.82) / 2$	139.00		
		$(-6.72--5.66) \times (130.82+130.82) / 2$	-138.67		
R1-72 879.15	O1	$(-6.73--8.49) \times (128.58+127.58) / 2$	225.42	0.33	
		$(-8.49--6.73) \times (127.58+127.58) / 2$	-224.54		
R1-72 879.15	O2	$(-6.73--8.49) \times (128.58+127.58) / 2$	-224.54	0.88	
		$(-5.56--6.73) \times (129.25+128.58) / 2$	150.83		
		$(-6.73--5.56) \times (128.58+128.58) / 2$	-150.44	0.39	
Il Direttore dei Lavori		L'Impresa			

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 77		
SEMINA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R1-1 0.00	a1	$^1 ((7.75-6.45)^2 + (165.33-165.33)^2)$ $^1 ((10.45-7.75)^2 + (163.79-165.33)^2)$	1.30 3.11		
R1-3 32.24	a1	$^1 ((7.50-6.20)^2 + (166.01-166.01)^2)$ $^1 ((12.35-7.50)^2 + (163.23-166.01)^2)$	1.30 5.59	4.41	
R1-4 32.25	a1	$^1 ((7.50-6.20)^2 + (166.01-166.01)^2)$ $^1 ((12.35-7.50)^2 + (163.24-166.01)^2)$	1.30 5.59	6.89	
R1-5	a1	$^1 ((-2.50--1.20)^2 + (166.70-166.70)^2)$	1.30	6.89	
R1-5 40.00	a2	$^1 ((7.50-6.20)^2 + (166.18-166.18)^2)$ $^1 ((8.80-7.50)^2 + (165.44-166.18)^2)$	1.30 1.50	1.30	
R1-6	a1	$^1 ((-2.50--1.20)^2 + (167.29-167.29)^2)$	1.30	2.80	
R1-7 80.00	a1	$^1 ((-2.50--1.20)^2 + (168.14-168.14)^2)$ $^1 ((-3.38--2.50)^2 + (167.64-168.14)^2)$ $^1 ((-10.66--3.38)^2 + (167.64-167.64)^2)$	1.30 1.01 7.28	1.30	
R1-8 84.37	a1	$^1 ((-2.50--1.20)^2 + (168.36-168.36)^2)$ $^1 ((-3.38--2.50)^2 + (167.86-168.36)^2)$ $^1 ((-8.52--3.38)^2 + (167.86-167.86)^2)$	1.30 1.01 5.14	9.59	
R1-9 100.00	a1	$^1 ((-2.50--1.20)^2 + (169.26-169.26)^2)$ $^1 ((-4.24--2.50)^2 + (169.26-169.26)^2)$	1.30 1.74	7.45	
R1-14 148.60	a1	$^1 ((7.50-6.20)^2 + (172.06-172.06)^2)$ $^1 ((8.68-7.50)^2 + (171.38-172.06)^2)$	1.30 1.36	3.04	
R1-18b 190.85	a1	$^1 ((-6.00--4.70)^2 + (174.68-174.68)^2)$ $^1 ((-8.62--6.00)^2 + (173.18-174.68)^2)$	1.30 3.02	2.66	
R1-18b 190.85	a2	$^1 ((7.50-6.20)^2 + (173.91-173.91)^2)$ $^1 ((16.25-7.50)^2 + (168.91-173.91)^2)$ $^1 ((18.25-16.25)^2 + (168.91-168.91)^2)$ $^1 ((27.00-18.25)^2 + (163.91-168.91)^2)$ $^1 ((29.00-27.00)^2 + (163.91-163.91)^2)$ $^1 ((31.50-29.00)^2 + (162.48-163.91)^2)$	1.30 10.08 2.00 10.08 2.00 2.88	4.32	
R1-21 240.00	a1	$^1 ((7.49-6.19)^2 + (174.19-174.19)^2)$ $^1 ((10.62-7.49)^2 + (172.40-174.19)^2)$	1.30 3.61	28.34	
R1-28b 340.93	a1	$^1 ((-6.00--4.70)^2 + (169.05-169.05)^2)$ $^1 ((-14.75--6.00)^2 + (164.05-169.05)^2)$ $^1 ((-16.75--14.75)^2 + (164.05-164.05)^2)$ $^1 ((-22.25--16.75)^2 + (160.91-164.05)^2)$	1.30 10.08 2.00 6.33	4.91	
R1-29 360.00	a1	$^1 ((-6.00--4.70)^2 + (167.59-167.59)^2)$ $^1 ((-14.75--6.00)^2 + (162.59-167.59)^2)$ $^1 ((-16.75--14.75)^2 + (162.59-162.59)^2)$	1.30 10.08 2.00	19.71	
A RIPORTARE ml			13.38		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 78	
SEMINA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			13.38		
R1-29 360.00	a2	$^1 ((-19.69-16.75)^2 + (160.91-162.59)^2)$	3.39	21.69	
		$^1 ((-24.61-19.69)^2 + (160.91-160.91)^2)$	4.92		
		$^1 ((6.00-4.70)^2 + (167.59-167.59)^2)$	1.30		
		$^1 ((14.75-6.00)^2 + (162.59-167.59)^2)$	10.08		
		$^1 ((16.75-14.75)^2 + (162.59-162.59)^2)$	2.00		
R1-30 382.06	a1	$^1 ((23.11-16.75)^2 + (158.96-162.59)^2)$	7.32	20.70	
		$^1 ((-6.00-4.70)^2 + (165.90-165.90)^2)$	1.30		
		$^1 ((-14.75-6.00)^2 + (160.90-165.90)^2)$	10.08		
		$^1 ((-16.75-14.75)^2 + (160.90-160.90)^2)$	2.00		
		$^1 ((-17.25-16.75)^2 + (160.61-160.90)^2)$	0.58		
R1-30 382.06	a2	$^1 ((-21.91-17.25)^2 + (160.61-160.61)^2)$	4.66	18.62	
		$^1 ((6.00-4.70)^2 + (165.90-165.90)^2)$	1.30		
		$^1 ((14.75-6.00)^2 + (160.90-165.90)^2)$	10.08		
		$^1 ((16.75-14.75)^2 + (160.90-160.90)^2)$	2.00		
		$^1 ((23.38-16.75)^2 + (157.11-160.90)^2)$	7.64		
R1-31 400.00	a1	$^1 ((-6.00-4.70)^2 + (164.52-164.52)^2)$	1.30	21.02	
		$^1 ((-13.60-6.00)^2 + (160.18-164.52)^2)$	8.75		
		$^1 ((-22.09-13.60)^2 + (160.18-160.18)^2)$	8.49		
R1-31 400.00	a2	$^1 ((-22.09-13.60)^2 + (160.18-160.18)^2)$	8.49	18.54	
		$^1 ((6.00-4.70)^2 + (164.75-164.75)^2)$	1.30		
		$^1 ((14.75-6.00)^2 + (159.75-164.75)^2)$	10.08		
		$^1 ((16.75-14.75)^2 + (159.75-159.75)^2)$	2.00		
		$^1 ((25.50-16.75)^2 + (154.75-159.75)^2)$	10.08		
		$^1 ((27.50-25.50)^2 + (154.75-154.75)^2)$	2.00		
R1-32 409.76	a1	$^1 ((28.19-27.50)^2 + (154.36-154.75)^2)$	0.79	26.25	
		$^1 ((-6.00-4.70)^2 + (163.66-163.66)^2)$	1.30		
		$^1 ((-12.59-6.00)^2 + (159.89-163.66)^2)$	7.59		
		$^1 ((-22.34-12.59)^2 + (159.89-159.89)^2)$	9.75		
		$^1 ((6.00-4.70)^2 + (164.12-164.12)^2)$	1.30		
R1-32 409.76	a2	$^1 ((14.75-6.00)^2 + (159.12-164.12)^2)$	10.08	18.64	
		$^1 ((16.75-14.75)^2 + (159.12-159.12)^2)$	2.00		
		$^1 ((25.50-16.75)^2 + (154.12-159.12)^2)$	10.08		
		$^1 ((27.50-25.50)^2 + (154.12-154.12)^2)$	2.00		
		$^1 ((32.69-27.50)^2 + (151.16-154.12)^2)$	5.97		
		$^1 ((-6.00-4.70)^2 + (162.87-162.87)^2)$	1.30		
R1-33 420.00	a1	$^1 ((-11.80-6.00)^2 + (159.56-162.87)^2)$	6.68	31.43	
		$^1 ((-22.41-11.80)^2 + (159.56-159.56)^2)$	10.61		
		$^1 ((6.00-4.70)^2 + (163.34-163.34)^2)$	1.30		
R1-33 420.00	a2	$^1 ((14.75-6.00)^2 + (158.34-163.34)^2)$	10.08	18.59	
		$^1 ((16.75-14.75)^2 + (158.34-158.34)^2)$	2.00		
		$^1 ((25.31-16.75)^2 + (153.45-158.34)^2)$	9.86		
		$^1 ((25.31-16.75)^2 + (153.45-158.34)^2)$	9.86		
A RIPORTARE ml			23.24		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 79	
SEMINA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			23.24		
R1-34 440.00	a1	$^1 ((27.75-25.31)^2 + (153.45-153.45)^2)$ $^1 ((-6.00-4.70)^2 + (161.34-161.34)^2)$ $^1 ((-10.37-6.00)^2 + (158.84-161.34)^2)$ $^1 ((-21.91-10.37)^2 + (158.84-158.84)^2)$	2.44 1.30 5.03 11.54	25.68	
R1-34 440.00	a2	$^1 ((6.00-4.70)^2 + (161.80-161.80)^2)$ $^1 ((14.75-6.00)^2 + (156.80-161.80)^2)$ $^1 ((16.75-14.75)^2 + (156.80-156.80)^2)$ $^1 ((25.33-16.75)^2 + (151.90-156.80)^2)$ $^1 ((28.03-25.33)^2 + (151.90-151.90)^2)$	1.30 10.08 2.00 9.88 2.70	17.87	
R1-35 455.35	a1	$^1 ((-6.00-4.70)^2 + (160.16-160.16)^2)$ $^1 ((-9.35-6.00)^2 + (158.24-160.16)^2)$ $^1 ((-20.93-9.35)^2 + (158.24-158.24)^2)$	1.30 3.86 11.58	25.96	
R1-35 455.35	a2	$^1 ((6.00-4.70)^2 + (160.62-160.62)^2)$ $^1 ((14.75-6.00)^2 + (155.62-160.62)^2)$ $^1 ((16.75-14.75)^2 + (155.62-155.62)^2)$ $^1 ((25.50-16.75)^2 + (150.62-155.62)^2)$ $^1 ((28.04-25.50)^2 + (150.62-150.62)^2)$	1.30 10.08 2.00 10.08 2.54	16.74	
R1-36 460.00	a1	$^1 ((-6.00-4.70)^2 + (159.80-159.80)^2)$ $^1 ((-9.06-6.00)^2 + (158.05-159.80)^2)$ $^1 ((-20.54-9.06)^2 + (158.05-158.05)^2)$	1.30 3.53 11.48	26.00	
R1-36 460.00	a2	$^1 ((6.00-4.70)^2 + (160.27-160.27)^2)$ $^1 ((14.75-6.00)^2 + (155.27-160.27)^2)$ $^1 ((16.75-14.75)^2 + (155.27-155.27)^2)$ $^1 ((25.50-16.75)^2 + (150.27-155.27)^2)$ $^1 ((28.00-25.50)^2 + (150.27-150.27)^2)$	1.30 10.08 2.00 10.08 2.50	16.31	
R1-37 480.00	a1	$^1 ((-6.00-4.70)^2 + (158.27-158.27)^2)$ $^1 ((-7.88-6.00)^2 + (157.19-158.27)^2)$ $^1 ((-18.29-7.88)^2 + (157.19-157.19)^2)$	1.30 2.17 10.41	25.96	
R1-37 480.00	a2	$^1 ((6.00-4.70)^2 + (158.73-158.73)^2)$ $^1 ((14.75-6.00)^2 + (153.73-158.73)^2)$ $^1 ((17.45-14.75)^2 + (153.73-153.73)^2)$	1.30 10.08 2.70	13.88	
R1-38 500.95	a1	$^1 ((-6.00-4.70)^2 + (156.66-156.66)^2)$ $^1 ((-6.83-6.00)^2 + (156.19-156.66)^2)$ $^1 ((-14.96-6.83)^2 + (156.19-156.19)^2)$	1.30 0.95 8.13	14.08	
R1-38 500.95	a2	$^1 ((6.00-4.70)^2 + (157.12-157.12)^2)$ $^1 ((14.75-6.00)^2 + (152.12-157.12)^2)$ $^1 ((15.16-14.75)^2 + (152.12-152.12)^2)$	1.30 10.08 0.41	10.38	
R1-39	a1	$^1 ((-6.00-4.70)^2 + (155.31-155.31)^2)$	1.30	11.79	
A RIPORTARE ml			1.30		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 80	
SEMINA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			1.30		
520.00		$^1 ((-6.33--6.00)^2 + (155.12-155.31)^2)$ $^1 ((-10.94--6.33)^2 + (155.12-155.12)^2)$	0.38 4.61	6.29	
R1-39 520.00	a2	$^1 ((6.00-4.70)^2 + (155.42-155.42)^2)$ $^1 ((13.27-6.00)^2 + (151.27-155.42)^2)$	1.30 8.37	9.67	
R1-40 528.64	a1	$^1 ((-6.00--4.70)^2 + (154.65-154.65)^2)$ $^1 ((-6.11--6.00)^2 + (154.59-154.65)^2)$ $^1 ((-9.05--6.11)^2 + (154.59-154.59)^2)$	1.30 0.13 2.94	4.37	
R1-40 528.64	a2	$^1 ((6.00-4.70)^2 + (154.65-154.65)^2)$ $^1 ((12.83-6.00)^2 + (150.74-154.65)^2)$	1.30 7.87	9.17	
R1-41 532.63	a1	$^1 ((-6.00--4.70)^2 + (154.34-154.34)^2)$ $^1 ((-8.24--6.00)^2 + (154.33-154.34)^2)$	1.30 2.24	3.54	
R1-41 532.63	a2	$^1 ((6.00-4.70)^2 + (154.34-154.34)^2)$ $^1 ((12.46-6.00)^2 + (150.65-154.34)^2)$	1.30 7.44	8.74	
R1-42 540.00	a1	$^1 ((6.00-4.70)^2 + (153.78-153.78)^2)$ $^1 ((12.50-6.00)^2 + (150.06-153.78)^2)$	1.30 7.49	8.79	
R1-42 540.00	a2	$^1 ((-6.00--4.70)^2 + (153.82-153.82)^2)$ $^1 ((-6.83--6.00)^2 + (153.85-153.82)^2)$	1.30 0.83	2.13	
R1-43 546.20	a1	$^1 ((6.00-4.70)^2 + (153.30-153.30)^2)$ $^1 ((12.29-6.00)^2 + (149.71-153.30)^2)$	1.30 7.24	8.54	
R1-44 546.21	a1	$^1 ((6.00-4.70)^2 + (153.30-153.30)^2)$ $^1 ((12.29-6.00)^2 + (149.71-153.30)^2)$	1.30 7.24	8.54	
R1-45 560.00	a1	$^1 ((6.00-4.70)^2 + (152.24-152.24)^2)$ $^1 ((11.73-6.00)^2 + (148.97-152.24)^2)$	1.30 6.60	7.90	
R1-46 580.00	a1	$^1 ((6.00-4.70)^2 + (150.65-150.65)^2)$ $^1 ((10.76-6.00)^2 + (147.93-150.65)^2)$	1.30 5.48	6.78	
R1-47 582.63	a1	$^1 ((6.00-4.70)^2 + (150.45-150.45)^2)$ $^1 ((10.71-6.00)^2 + (147.75-150.45)^2)$	1.30 5.43	6.73	
R1-48 595.46	a1	$^1 ((6.00-4.70)^2 + (149.46-149.46)^2)$ $^1 ((10.67-6.00)^2 + (146.79-149.46)^2)$	1.30 5.38	6.68	
R1-49 600.00	a1	$^1 ((6.00-4.70)^2 + (149.11-149.11)^2)$ $^1 ((10.67-6.00)^2 + (146.45-149.11)^2)$	1.30 5.37	6.67	
R1-50 608.29	a1	$^1 ((6.00-4.70)^2 + (148.48-148.48)^2)$ $^1 ((10.46-6.00)^2 + (145.93-148.48)^2)$	1.30 5.14	6.44	
A RIPORTARE ml					

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 81	
SEMINA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml					
R1-51 614.99	a1	$^1 ((6.00-4.70)^2 + (148.00-148.00)^2)$ $^1 ((10.26-6.00)^2 + (145.57-148.00)^2)$	1.30 4.90	6.20	
R1-52 615.00	a1	$^1 ((6.00-4.70)^2 + (148.00-148.00)^2)$ $^1 ((10.26-6.00)^2 + (145.57-148.00)^2)$	1.30 4.90	6.20	
R1-53 620.00	a1	$^1 ((6.00-4.70)^2 + (147.64-147.64)^2)$ $^1 ((10.14-6.00)^2 + (145.27-147.64)^2)$	1.30 4.77	6.07	
R1-54 640.00	a1	$^1 ((6.00-4.70)^2 + (146.05-146.05)^2)$ $^1 ((9.37-6.00)^2 + (144.12-146.05)^2)$	1.30 3.88	5.18	
R1-55 658.29	a1	$^1 ((6.00-4.70)^2 + (144.59-144.59)^2)$ $^1 ((8.76-6.00)^2 + (143.01-144.59)^2)$	1.30 3.18	4.48	
R1-56 659.15	a1	$^1 ((6.00-4.70)^2 + (144.52-144.52)^2)$ $^1 ((8.12-6.00)^2 + (143.31-144.52)^2)$	1.30 2.44	3.74	
R1-57 660.00	a1	$^1 ((6.00-4.70)^2 + (144.45-144.45)^2)$ $^1 ((7.20-6.00)^2 + (143.77-144.45)^2)$	1.30 1.38	2.68	
R1-58 680.00	a1	$^1 ((6.00-4.70)^2 + (142.96-142.96)^2)$ $^1 ((7.75-6.00)^2 + (141.96-142.96)^2)$	1.30 2.02	3.32	
R1-59 694.82	a1	$^1 ((-6.00-4.70)^2 + (141.66-141.66)^2)$ $^1 ((-10.51-6.00)^2 + (139.08-141.66)^2)$	1.30 5.20	6.50	
R1-59 694.82	a2	$^1 ((6.00-4.70)^2 + (141.85-141.85)^2)$ $^1 ((7.81-6.00)^2 + (140.82-141.85)^2)$	1.30 2.08	3.38	
R1-60b 704.83	a1	$^1 ((-6.00-4.70)^2 + (140.86-140.86)^2)$ $^1 ((-14.68-6.00)^2 + (135.89-140.86)^2)$	1.30 10.00	11.30	
R1-60b 704.83	a2	$^1 ((6.00-4.70)^2 + (141.10-141.10)^2)$ $^1 ((7.45-6.00)^2 + (140.28-141.10)^2)$	1.30 1.67	2.97	
R1-61 714.87	a1	$^1 ((-6.00-4.70)^2 + (140.00-140.00)^2)$ $^1 ((-9.40-6.00)^2 + (138.06-140.00)^2)$	1.30 3.91	5.21	
R1-61 714.87	a2	$^1 ((6.00-4.70)^2 + (140.35-140.35)^2)$ $^1 ((7.36-6.00)^2 + (139.58-140.35)^2)$	1.30 1.56	2.86	
R1-62 720.00	a1	$^1 ((-6.00-4.70)^2 + (139.59-139.59)^2)$ $^1 ((-9.60-6.00)^2 + (137.53-139.59)^2)$	1.30 4.15	5.45	
R1-62 720.00	a2	$^1 ((6.00-4.70)^2 + (139.94-139.94)^2)$ $^1 ((7.16-6.00)^2 + (139.28-139.94)^2)$	1.30 1.33	2.63	
R1-63	a1	$^1 ((-6.00-4.70)^2 + (137.99-137.99)^2)$	1.30		
A RIPORTARE ml			1.30		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 82	
SEMINA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml			1.30		
740.00		$^1 ((-10.92-6.00)^2 + (135.18-137.99)^2)$	5.67		
R1-63	a2	$^1 ((6.00-4.70)^2 + (138.34-138.34)^2)$	1.30	6.97	
740.00		$^1 ((6.51-6.00)^2 + (138.05-138.34)^2)$	0.59		
R1-64	a1	$^1 ((-6.00-4.70)^2 + (136.53-136.53)^2)$	1.30	1.89	
760.00		$^1 ((-9.69-6.00)^2 + (134.43-136.53)^2)$	4.25		
R1-65	a1	$^1 ((-6.00-4.70)^2 + (135.72-135.72)^2)$	1.30	5.55	
773.85		$^1 ((-9.01-6.00)^2 + (134.00-135.72)^2)$	3.47		
R1-66	a1	$^1 ((-6.00-4.70)^2 + (135.38-135.38)^2)$	1.30	4.77	
780.00		$^1 ((-9.19-6.00)^2 + (133.56-135.38)^2)$	3.67		
R1-67	a1	$^1 ((-6.00-4.70)^2 + (134.28-134.28)^2)$	1.30	4.97	
800.00		$^1 ((-10.39-6.00)^2 + (131.77-134.28)^2)$	5.06		
R1-68	a1	$^1 ((-6.00-4.70)^2 + (133.12-133.12)^2)$	1.30	6.36	
820.00		$^1 ((-9.97-6.00)^2 + (130.85-133.12)^2)$	4.57		
R1-69	a1	$^1 ((-6.00-4.70)^2 + (132.37-132.37)^2)$	1.30	5.87	
832.82		$^1 ((-10.57-6.00)^2 + (129.75-132.37)^2)$	5.27		
R1-70	a1	$^1 ((-6.00-4.70)^2 + (131.94-131.94)^2)$	1.30	6.57	
840.00		$^1 ((-10.76-6.00)^2 + (129.22-131.94)^2)$	5.48		
R1-72	a1	$^1 ((-6.00-4.70)^2 + (129.55-129.55)^2)$	1.30	6.78	
879.15		$^1 ((-8.73-6.00)^2 + (127.99-129.55)^2)$	3.14		
R1-72	a2	$^1 ((6.00-4.70)^2 + (129.83-129.83)^2)$	1.30	4.44	
879.15		$^1 ((7.49-6.00)^2 + (128.98-129.83)^2)$	1.72	3.02	
Il Direttore dei Lavori		L'Impresa			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 83		
SEMINA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R1-6 60.00	b1	$^1 ((8.25-7.02)^2 + (166.73-166.73)^2)$ $^1 ((10.50-8.25)^2 + (168.02-166.73)^2)$	1.23 2.59	3.82	
R1-7 80.00	b1	$^1 ((8.25-7.02)^2 + (167.58-167.58)^2)$ $^1 ((11.58-8.25)^2 + (169.49-167.58)^2)$	1.23 3.84	5.07	
R1-8 84.37	b1	$^1 ((8.25-7.02)^2 + (167.81-167.81)^2)$ $^1 ((11.47-8.25)^2 + (169.65-167.81)^2)$	1.23 3.71	4.94	
R1-9 100.00	b1	$^1 ((8.25-7.02)^2 + (168.70-168.70)^2)$ $^1 ((10.83-8.25)^2 + (170.18-168.70)^2)$	1.23 2.97	4.20	
R1-10 114.79	b1	$^1 ((8.25-7.02)^2 + (169.70-169.70)^2)$ $^1 ((9.78-8.25)^2 + (170.57-169.70)^2)$	1.23 1.76	2.99	
R1-11 114.80	b1	$^1 ((8.25-7.02)^2 + (169.70-169.70)^2)$ $^1 ((9.78-8.25)^2 + (170.57-169.70)^2)$	1.23 1.76	2.99	
R1-12 120.00	b1	$^1 ((8.25-7.02)^2 + (170.06-170.06)^2)$ $^1 ((9.48-8.25)^2 + (170.77-170.06)^2)$	1.23 1.42	2.65	
R1-13 140.00	b1	$^1 ((8.25-7.02)^2 + (171.46-171.46)^2)$ $^1 ((8.54-8.25)^2 + (171.63-171.46)^2)$	1.23 0.34	1.57	
R1-21 240.00	b1	$^1 ((-6.75--5.53)^2 + (174.89-174.89)^2)$ $^1 ((-14.57--6.75)^2 + (179.36-174.89)^2)$	1.22 9.01	10.23	
R1-52 615.00	b1	$^1 ((-11.24--10.02)^2 + (148.35-148.35)^2)$ $^1 ((-21.24--11.24)^2 + (153.35-148.35)^2)$ $^1 ((-23.24--21.24)^2 + (153.35-153.35)^2)$ $^1 ((-33.24--23.24)^2 + (158.35-153.35)^2)$ $^1 ((-35.24--33.24)^2 + (158.35-158.35)^2)$ $^1 ((-38.82--35.24)^2 + (160.14-158.35)^2)$	1.22 11.18 2.00 11.18 2.00 4.00	31.58	
R1-53 620.00	b1	$^1 ((-11.23--10.00)^2 + (147.91-147.91)^2)$ $^1 ((-21.23--11.23)^2 + (152.91-147.91)^2)$ $^1 ((-23.23--21.23)^2 + (152.91-152.91)^2)$ $^1 ((-33.23--23.23)^2 + (157.91-152.91)^2)$ $^1 ((-35.23--33.23)^2 + (157.91-157.91)^2)$ $^1 ((-41.21--35.23)^2 + (160.90-157.91)^2)$	1.23 11.18 2.00 11.18 2.00 6.69	34.28	
R1-54 640.00	b1	$^1 ((-10.85--9.62)^2 + (146.10-146.10)^2)$ $^1 ((-20.85--10.85)^2 + (151.10-146.10)^2)$ $^1 ((-22.85--20.85)^2 + (151.10-151.10)^2)$ $^1 ((-32.85--22.85)^2 + (156.10-151.10)^2)$ $^1 ((-34.85--32.85)^2 + (156.10-156.10)^2)$ $^1 ((-39.43--34.85)^2 + (158.39-156.10)^2)$	1.23 11.18 2.00 11.18 2.00 5.12	32.71	
R1-55 658.29	b1	$^1 ((-9.73--8.51)^2 + (144.47-144.47)^2)$ $^1 ((-19.73--9.73)^2 + (149.47-144.47)^2)$ $^1 ((-21.73--19.73)^2 + (149.47-149.47)^2)$	1.22 11.18 2.00		
A RIPORTARE ml			14.40		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 84	
SEMINA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml			14.40		
R1-56 659.15	b1	$^1 ((-31.73-21.73)^2 + (154.47-149.47)^2)$	11.18	36.08	
		$^1 ((-33.73-31.73)^2 + (154.47-154.47)^2)$	2.00		
		$^1 ((-41.33-33.73)^2 + (158.27-154.47)^2)$	8.50		
		$^1 ((-9.67-8.45)^2 + (144.40-144.40)^2)$	1.22		
		$^1 ((-19.67-9.67)^2 + (149.40-144.40)^2)$	11.18		
		$^1 ((-21.67-19.67)^2 + (149.40-149.40)^2)$	2.00		
R1-57 660.00	b1	$^1 ((-31.67-21.67)^2 + (154.40-149.40)^2)$	11.18	35.97	
		$^1 ((-33.67-31.67)^2 + (154.40-154.40)^2)$	2.00		
		$^1 ((-41.18-33.67)^2 + (158.15-154.40)^2)$	8.39		
		$^1 ((-9.62-8.39)^2 + (144.33-144.33)^2)$	1.23		
		$^1 ((-19.62-9.62)^2 + (149.33-144.33)^2)$	11.18		
		$^1 ((-21.62-19.62)^2 + (149.33-149.33)^2)$	2.00		
R1-58 680.00	b1	$^1 ((-31.62-21.62)^2 + (154.33-149.33)^2)$	11.18	34.00	
		$^1 ((-33.62-31.62)^2 + (154.33-154.33)^2)$	2.00		
		$^1 ((-39.35-33.62)^2 + (157.20-154.33)^2)$	6.41		
		$^1 ((-8.15-6.92)^2 + (142.77-142.77)^2)$	1.23		
		$^1 ((-10.06-8.15)^2 + (143.86-142.77)^2)$	2.20		
			3.43		
Il Direttore dei Lavori		L'Impresa			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 85		
SCOTICO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R1-1 0.00	c1	$^1 ((4.54-0.00)^2 + (163.80-163.59)^2)$ $^1 ((8.94-4.54)^2 + (163.80-163.80)^2)$ $^1 ((9.63-8.94)^2 + (163.71-163.80)^2)$	4.54 4.40 0.70	9.64	
R1-3 32.24	c1	$^1 ((1.95-0.00)^2 + (161.14-160.82)^2)$ $^1 ((3.17-1.95)^2 + (160.81-161.14)^2)$ $^1 ((3.18-3.17)^2 + (160.79-160.81)^2)$	1.98 1.26 0.02	3.26	
R1-3 32.24	c2	$^1 ((6.94-5.96)^2 + (162.80-162.84)^2)$ $^1 ((7.36-6.94)^2 + (162.87-162.80)^2)$ $^1 ((9.10-7.36)^2 + (163.04-162.87)^2)$ $^1 ((9.61-9.10)^2 + (163.11-163.04)^2)$ $^1 ((11.01-9.61)^2 + (163.14-163.11)^2)$ $^1 ((11.50-11.01)^2 + (163.17-163.14)^2)$	0.98 0.43 1.75 0.51 1.40 0.49	5.56	
R1-4 32.25	c1	$^1 ((-0.72--1.20)^2 + (160.89-160.93)^2)$ $^1 ((-0.50--0.72)^2 + (160.89-160.89)^2)$ $^1 ((-0.13--0.50)^2 + (160.80-160.89)^2)$ $^1 ((1.94-0.13)^2 + (161.14-160.80)^2)$ $^1 ((3.17-1.94)^2 + (160.81-161.14)^2)$	0.48 0.22 0.38 2.10 1.27	4.45	
R1-4 32.25	c2	$^1 ((6.92-5.95)^2 + (162.80-162.84)^2)$ $^1 ((7.36-6.92)^2 + (162.88-162.80)^2)$ $^1 ((9.10-7.36)^2 + (163.04-162.88)^2)$ $^1 ((9.61-9.10)^2 + (163.11-163.04)^2)$ $^1 ((11.00-9.61)^2 + (163.14-163.11)^2)$ $^1 ((11.49-11.00)^2 + (163.17-163.14)^2)$	0.97 0.45 1.75 0.51 1.39 0.49	5.56	
R1-5 40.00	c1	$^1 ((-2.06--2.50)^2 + (163.14-163.07)^2)$ $^1 ((-1.39--2.06)^2 + (163.32-163.14)^2)$ $^1 ((0.03--1.39)^2 + (163.61-163.32)^2)$ $^1 ((1.07-0.03)^2 + (163.80-163.61)^2)$ $^1 ((2.35-1.07)^2 + (164.07-163.80)^2)$ $^1 ((3.26-2.35)^2 + (164.34-164.07)^2)$ $^1 ((3.84-3.26)^2 + (164.48-164.34)^2)$ $^1 ((5.34-3.84)^2 + (164.80-164.48)^2)$ $^1 ((5.96-5.34)^2 + (164.87-164.80)^2)$ $^1 ((6.15-5.96)^2 + (164.91-164.87)^2)$ $^1 ((8.03-6.15)^2 + (165.07-164.91)^2)$ $^1 ((8.34-8.03)^2 + (165.15-165.07)^2)$	0.45 0.69 1.45 1.06 1.31 0.95 0.60 1.53 0.62 0.19 1.89 0.32	11.06	
R1-14 148.60	c1	$^1 ((7.42-6.53)^2 + (171.41-171.56)^2)$ $^1 ((7.78-7.42)^2 + (171.34-171.41)^2)$	0.90 0.37	1.27	
R1-15 161.48	c1	$^1 ((-4.60--5.28)^2 + (170.16-170.25)^2)$ $^1 ((-4.35--4.60)^2 + (170.12-170.16)^2)$ $^1 ((-4.32--4.35)^2 + (170.16-170.12)^2)$ $^1 ((-2.98--4.32)^2 + (170.12-170.16)^2)$ $^1 ((-2.08--2.98)^2 + (169.96-170.12)^2)$ $^1 ((-1.26--2.08)^2 + (169.95-169.96)^2)$ $^1 ((0.07--1.26)^2 + (169.90-169.95)^2)$	0.69 0.25 0.05 1.34 0.91 0.82 1.33		
A RIPORTARE ml			5.39		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 86		
SCOTICO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			5.39		
R1-16	c1	$^1 (0.45-0.07)^2 + (170.10-169.90)^2$ $^1 (1.24-0.45)^2 + (170.21-170.10)^2$ $^1 (2.47-1.24)^2 + (170.16-170.21)^2$ $^1 (2.73-2.47)^2 + (170.34-170.16)^2$ $^1 (3.40-2.73)^2 + (170.38-170.34)^2$ $^1 (3.73-3.40)^2 + (170.52-170.38)^2$ $^1 (4.27-3.73)^2 + (170.59-170.52)^2$ $^1 (5.15-4.27)^2 + (171.17-170.59)^2$ $^1 (5.99-5.15)^2 + (170.87-171.17)^2$	0.43 0.80 1.23 0.32 0.67 0.36 0.54 1.05 0.89	11.68	
R1-16	c2	$^1 (-1.91--5.19)^2 + (170.80-171.39)^2$	3.33	3.33	
R1-18	c1	$^1 (5.99-0.48)^2 + (169.74-169.33)^2$	5.53	5.53	
R1-18b 190.85	c1	$^1 (-1.13--4.50)^2 + (172.80-172.80)^2$ $^1 (20.32-19.90)^2 + (163.80-163.80)^2$ $^1 (25.50-20.32)^2 + (163.80-163.80)^2$	3.37 0.42 5.18	3.37 5.60	
R1-18b 190.85	c2	$^1 (-7.46--8.14)^2 + (172.80-172.90)^2$ $^1 (-6.31--7.46)^2 + (172.80-172.80)^2$ $^1 (-1.13--6.31)^2 + (172.80-172.80)^2$	0.69 1.15 5.18	7.02	
R1-20	c1	$^1 (8.87-8.23)^2 + (172.93-172.80)^2$	0.65	0.65	
R1-20b 220.00	c1	$^1 (10.00-8.82)^2 + (170.80-170.89)^2$ $^1 (12.99-10.00)^2 + (170.63-170.80)^2$	1.18 2.99	4.17	
R1-22	c1	$^1 (-2.57--4.50)^2 + (172.74-172.73)^2$	1.93	1.93	
R1-23 277.73	c1	$^1 (-4.33--4.50)^2 + (169.91-169.92)^2$ $^1 (-2.85--4.33)^2 + (169.80-169.91)^2$ $^1 (0.09--2.85)^2 + (169.58-169.80)^2$ $^1 (2.72-0.09)^2 + (169.39-169.58)^2$ $^1 (4.70-2.72)^2 + (169.28-169.39)^2$ $^1 (4.71-4.70)^2 + (169.28-169.28)^2$	0.17 1.48 2.95 2.64 1.98 0.01	9.23	
R1-28b 340.93	c1	$^1 (-15.63--21.63)^2 + (160.74-160.71)^2$ $^1 (-13.59--15.63)^2 + (160.79-160.74)^2$ $^1 (-13.55--13.59)^2 + (160.79-160.79)^2$ $^1 (-13.51--13.55)^2 + (160.79-160.79)^2$ $^1 (-13.47--13.51)^2 + (160.79-160.79)^2$ $^1 (-12.85--13.47)^2 + (160.80-160.79)^2$ $^1 (-12.31--12.85)^2 + (160.80-160.80)^2$ $^1 (-11.32--12.31)^2 + (160.91-160.80)^2$ $^1 (-9.29--11.32)^2 + (161.01-160.91)^2$ $^1 (-5.60--9.29)^2 + (160.80-161.01)^2$ $^1 (-2.14--5.60)^2 + (160.80-160.80)^2$ $^1 (0.90--2.14)^2 + (160.69-160.80)^2$	6.00 2.04 0.04 0.04 0.04 0.62 0.54 1.00 2.03 3.70 3.46 3.04		
A RIPORTARE ml			22.55		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		Codice documento SS0760_F0.doc	Rev F0	Data 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 87	
SCOTICO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			22.55		
R1-29 360.00	c1	$^1 ((3.43-0.90)^2 + (160.61-160.69)^2)$	2.53	26.15	
		$^1 ((4.05-3.43)^2 + (160.58-160.61)^2)$	0.62		
		$^1 ((4.50-4.05)^2 + (160.57-160.58)^2)$	0.45		
		$^1 ((-24.44-24.61)^2 + (157.41-157.41)^2)$	0.17		
		$^1 ((-22.43-24.44)^2 + (157.41-157.41)^2)$	2.01		
		$^1 ((-21.62-22.43)^2 + (157.42-157.41)^2)$	0.81		
		$^1 ((-19.76-21.62)^2 + (157.46-157.42)^2)$	1.86		
		$^1 ((-17.73-19.76)^2 + (157.49-157.46)^2)$	2.03		
		$^1 ((-15.78-17.73)^2 + (157.53-157.49)^2)$	1.95		
		$^1 ((-13.70-15.78)^2 + (157.63-157.53)^2)$	2.08		
		$^1 ((-13.29-13.70)^2 + (157.63-157.63)^2)$	0.41		
		$^1 ((-11.35-13.29)^2 + (157.63-157.63)^2)$	1.94		
		$^1 ((-10.93-11.35)^2 + (157.78-157.63)^2)$	0.45		
		$^1 ((-10.44-10.93)^2 + (158.02-157.78)^2)$	0.55		
		$^1 ((-9.57-10.44)^2 + (157.80-158.02)^2)$	0.90		
		$^1 ((-9.00-9.57)^2 + (157.70-157.80)^2)$	0.58		
		$^1 ((-8.30-9.00)^2 + (157.93-157.70)^2)$	0.74		
		$^1 ((-8.04-8.30)^2 + (157.94-157.93)^2)$	0.26		
		$^1 ((-7.26-8.04)^2 + (157.78-157.94)^2)$	0.80		
		$^1 ((-6.30-7.26)^2 + (158.00-157.78)^2)$	0.98		
		$^1 ((-5.84-6.30)^2 + (158.08-158.00)^2)$	0.47		
		$^1 ((-5.15-5.84)^2 + (158.02-158.08)^2)$	0.69		
		$^1 ((-3.90-5.15)^2 + (158.30-158.02)^2)$	1.28		
		$^1 ((-3.15-3.90)^2 + (158.27-158.30)^2)$	0.75		
		$^1 ((-3.14-3.15)^2 + (158.29-158.27)^2)$	0.02		
		$^1 ((-1.94-3.14)^2 + (158.80-158.29)^2)$	1.30		
		$^1 ((-1.36-1.94)^2 + (158.96-158.80)^2)$	0.60		
		$^1 ((-0.95-1.36)^2 + (159.01-158.96)^2)$	0.41		
		$^1 ((0.15-0.95)^2 + (159.37-159.01)^2)$	1.16		
		$^1 ((0.85-0.15)^2 + (159.42-159.37)^2)$	0.70		
		$^1 ((1.49-0.85)^2 + (159.50-159.42)^2)$	0.64		
		$^1 ((2.94-1.49)^2 + (159.53-159.50)^2)$	1.45		
		$^1 ((4.92-2.94)^2 + (159.73-159.53)^2)$	1.99		
$^1 ((5.06-4.92)^2 + (159.83-159.73)^2)$	0.17				
$^1 ((5.74-5.06)^2 + (159.80-159.83)^2)$	0.68				
$^1 ((6.45-5.74)^2 + (159.80-159.80)^2)$	0.71				
$^1 ((7.17-6.45)^2 + (159.77-159.80)^2)$	0.72				
$^1 ((7.22-7.17)^2 + (159.77-159.77)^2)$	0.05				
$^1 ((7.31-7.22)^2 + (159.82-159.77)^2)$	0.10				
$^1 ((10.54-7.31)^2 + (159.89-159.82)^2)$	3.23				
$^1 ((13.10-10.54)^2 + (159.81-159.89)^2)$	2.56				
$^1 ((14.53-13.10)^2 + (159.68-159.81)^2)$	1.44				
$^1 ((15.68-14.53)^2 + (159.41-159.68)^2)$	1.18				
$^1 ((16.35-15.68)^2 + (159.29-159.41)^2)$	0.68				
$^1 ((19.34-16.35)^2 + (158.80-159.29)^2)$	3.03				
$^1 ((20.48-19.34)^2 + (158.80-158.80)^2)$	1.14				
$^1 ((21.21-20.48)^2 + (158.80-158.80)^2)$	0.73				
$^1 ((22.42-21.21)^2 + (158.80-158.80)^2)$	1.21				
A RIPORTARE ml			47.61		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 88	
SCOTICO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			47.61		
R1-30 382.06	c1	$^1 ((-21.59--21.91)^2 + (156.30-156.28)^2)$ $^1 ((-21.13--21.59)^2 + (156.32-156.30)^2)$ $^1 ((-20.71--21.13)^2 + (156.36-156.32)^2)$ $^1 ((-16.92--20.71)^2 + (156.45-156.36)^2)$ $^1 ((-15.79--16.92)^2 + (156.46-156.45)^2)$ $^1 ((-14.98--15.79)^2 + (156.46-156.46)^2)$ $^1 ((-14.09--14.98)^2 + (156.53-156.46)^2)$ $^1 ((-13.00--14.09)^2 + (156.58-156.53)^2)$	0.32 0.46 0.42 3.79 1.13 0.81 0.89 1.09	47.61	
R1-30 382.06	c2	$^1 ((-5.22--5.23)^2 + (161.69-161.69)^2)$ $^1 ((-1.39--5.22)^2 + (161.72-161.69)^2)$	0.01 3.83	8.91	
R1-30 382.06	c3	$^1 ((8.82-2.98)^2 + (161.81-161.74)^2)$ $^1 ((8.83-8.82)^2 + (161.81-161.81)^2)$	5.84 0.01	3.84	
R1-30 382.06	c4	$^1 ((19.19-17.39)^2 + (156.77-156.75)^2)$ $^1 ((21.32-19.19)^2 + (156.78-156.77)^2)$ $^1 ((22.99-21.32)^2 + (156.78-156.78)^2)$	1.80 2.13 1.67	5.85	
R1-31 400.00	c1	$^1 ((-21.46--22.09)^2 + (154.53-154.32)^2)$ $^1 ((-20.92--21.46)^2 + (154.55-154.53)^2)$ $^1 ((-19.35--20.92)^2 + (154.80-154.55)^2)$ $^1 ((-19.32--19.35)^2 + (154.80-154.80)^2)$ $^1 ((-19.31--19.32)^2 + (154.80-154.80)^2)$ $^1 ((-17.29--19.31)^2 + (154.80-154.80)^2)$ $^1 ((-17.27--17.29)^2 + (154.80-154.80)^2)$ $^1 ((-15.28--17.27)^2 + (154.80-154.80)^2)$ $^1 ((-15.24--15.28)^2 + (154.80-154.80)^2)$ $^1 ((-13.12--15.24)^2 + (154.81-154.80)^2)$ $^1 ((-13.02--13.12)^2 + (154.81-154.81)^2)$ $^1 ((-11.65--13.02)^2 + (154.85-154.81)^2)$ $^1 ((-10.92--11.65)^2 + (154.83-154.85)^2)$ $^1 ((-10.53--10.92)^2 + (154.91-154.83)^2)$ $^1 ((-8.98--10.53)^2 + (154.84-154.91)^2)$ $^1 ((-8.74--8.98)^2 + (154.83-154.84)^2)$ $^1 ((-6.87--8.74)^2 + (154.85-154.83)^2)$ $^1 ((-5.15--6.87)^2 + (154.86-154.85)^2)$ $^1 ((-4.71--5.15)^2 + (154.85-154.86)^2)$ $^1 ((-3.84--4.71)^2 + (154.85-154.85)^2)$ $^1 ((-2.96--3.84)^2 + (154.83-154.85)^2)$ $^1 ((-2.28--2.96)^2 + (154.80-154.83)^2)$ $^1 ((-1.98--2.28)^2 + (154.76-154.80)^2)$ $^1 ((-1.86--1.98)^2 + (154.79-154.76)^2)$ $^1 ((-0.68--1.86)^2 + (154.77-154.79)^2)$ $^1 ((2.53--0.68)^2 + (154.77-154.77)^2)$ $^1 ((3.59-2.53)^2 + (154.66-154.77)^2)$ $^1 ((9.30-3.59)^2 + (154.45-154.66)^2)$ $^1 ((9.56-9.30)^2 + (154.43-154.45)^2)$	0.66 0.54 1.59 0.03 0.01 2.02 0.02 1.99 0.04 2.12 0.10 1.37 0.73 0.40 1.55 0.24 1.87 1.72 0.44 0.87 0.88 0.68 0.30 0.12 1.18 3.21 1.07 5.71 0.26	5.60	
A RIPORTARE ml			31.72		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		Codice documento SS0760_F0.doc	Rev F0	Data 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 89	
SCOTICO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			31.72		
R1-32 409.76	c1	$^1 (9.67-9.56)^2 + (154.42-154.43)^2$	0.11	50.10	
		$^1 (9.82-9.67)^2 + (154.41-154.42)^2$	0.15		
		$^1 (11.01-9.82)^2 + (154.37-154.41)^2$	1.19		
		$^1 (13.31-11.01)^2 + (154.31-154.37)^2$	2.30		
		$^1 (13.87-13.31)^2 + (154.18-154.31)^2$	0.57		
		$^1 (14.97-13.87)^2 + (154.05-154.18)^2$	1.11		
		$^1 (16.43-14.97)^2 + (153.92-154.05)^2$	1.47		
		$^1 (17.19-16.43)^2 + (154.00-153.92)^2$	0.76		
		$^1 (17.60-17.19)^2 + (154.01-154.00)^2$	0.41		
		$^1 (18.86-17.60)^2 + (153.98-154.01)^2$	1.26		
		$^1 (19.19-18.86)^2 + (153.96-153.98)^2$	0.33		
		$^1 (20.73-19.19)^2 + (154.11-153.96)^2$	1.55		
		$^1 (21.30-20.73)^2 + (154.07-154.11)^2$	0.57		
		$^1 (22.80-21.30)^2 + (154.07-154.07)^2$	1.50		
		$^1 (24.74-22.80)^2 + (154.20-154.07)^2$	1.94		
$^1 (24.85-24.74)^2 + (154.19-154.20)^2$	0.11				
$^1 (25.42-24.85)^2 + (154.14-154.19)^2$	0.57				
$^1 (27.39-25.42)^2 + (153.87-154.14)^2$	1.99				
$^1 (27.86-27.39)^2 + (153.99-153.87)^2$	0.49				
R1-33 420.00	c1	$^1 (-3.41--22.34)^2 + (149.80-152.11)^2$	19.07	54.83	
		$^1 (-1.10--3.41)^2 + (148.88-149.80)^2$	2.49		
		$^1 (6.51--1.10)^2 + (150.81-148.88)^2$	7.85		
		$^1 (13.15-6.51)^2 + (151.80-150.81)^2$	6.71		
		$^1 (22.64-13.15)^2 + (152.28-151.80)^2$	9.50		
		$^1 (26.12-22.64)^2 + (151.80-152.28)^2$	3.51		
		$^1 (27.63-26.12)^2 + (151.69-151.80)^2$	1.51		
		$^1 (29.94-27.63)^2 + (151.47-151.69)^2$	2.32		
		$^1 (31.78-29.94)^2 + (151.13-151.47)^2$	1.87		
		$^1 (-20.80--22.41)^2 + (148.80-148.83)^2$	1.61		
$^1 (-1.34--20.80)^2 + (148.54-148.80)^2$	19.46				
$^1 (27.75--1.34)^2 + (148.77-148.54)^2$	29.09				
R1-34 440.00	c1	$^1 (-2.00--21.91)^2 + (147.80-148.19)^2$	19.91	50.16	
		$^1 (26.94--2.00)^2 + (148.04-147.80)^2$	28.94		
		$^1 (26.95-26.94)^2 + (147.90-148.04)^2$	0.14		
		$^1 (28.03-26.95)^2 + (147.94-147.90)^2$	1.08		
R1-35 455.35	c1	$^1 (-6.67--20.93)^2 + (147.80-147.92)^2$	14.26	50.07	
		$^1 (-4.68--6.67)^2 + (147.80-147.80)^2$	1.99		
		$^1 (27.52--4.68)^2 + (147.49-147.80)^2$	32.20		
		$^1 (27.88-27.52)^2 + (146.80-147.49)^2$	0.78		
		$^1 (28.04-27.88)^2 + (146.71-146.80)^2$	0.18		
R1-36 460.00	c1	$^1 (-20.49--20.54)^2 + (147.77-147.77)^2$	0.05	49.41	
		$^1 (-18.88--20.49)^2 + (147.75-147.77)^2$	1.61		
		$^1 (-17.69--18.88)^2 + (147.76-147.75)^2$	1.19		
		$^1 (-16.05--17.69)^2 + (147.74-147.76)^2$	1.64		
A RIPORTARE ml			4.49		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 90	
SCOTICO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			4.49		
R1-37 480.00	c1	$^1 ((-14.79-16.05)^2 + (147.73-147.74)^2)$	1.26	48.98	
		$^1 ((-13.61-14.79)^2 + (147.72-147.73)^2)$	1.18		
		$^1 ((-13.25-13.61)^2 + (147.73-147.72)^2)$	0.36		
		$^1 ((-12.13-13.25)^2 + (147.72-147.73)^2)$	1.12		
		$^1 ((-10.99-12.13)^2 + (147.72-147.72)^2)$	1.14		
		$^1 ((-9.95-10.99)^2 + (147.72-147.72)^2)$	1.04		
		$^1 ((-9.37-9.95)^2 + (147.72-147.72)^2)$	0.58		
		$^1 ((-5.74-9.37)^2 + (147.71-147.72)^2)$	3.63		
		$^1 ((1.82-5.74)^2 + (147.67-147.71)^2)$	7.56		
		$^1 ((2.34-1.82)^2 + (147.69-147.67)^2)$	0.52		
		$^1 ((2.85-2.34)^2 + (147.70-147.69)^2)$	0.51		
		$^1 ((3.42-2.85)^2 + (147.72-147.70)^2)$	0.57		
		$^1 ((4.03-3.42)^2 + (147.75-147.72)^2)$	0.61		
		$^1 ((4.69-4.03)^2 + (147.73-147.75)^2)$	0.66		
		$^1 ((12.12-4.69)^2 + (147.65-147.73)^2)$	7.43		
		$^1 ((18.15-12.12)^2 + (147.15-147.65)^2)$	6.05		
		$^1 ((19.76-18.15)^2 + (147.06-147.15)^2)$	1.61		
$^1 ((22.15-19.76)^2 + (146.94-147.06)^2)$	2.39				
$^1 ((25.16-22.15)^2 + (146.80-146.94)^2)$	3.01				
$^1 ((25.70-25.16)^2 + (146.95-146.80)^2)$	0.56				
$^1 ((26.89-25.70)^2 + (147.44-146.95)^2)$	1.29				
$^1 ((27.94-26.89)^2 + (146.63-147.44)^2)$	1.33				
$^1 ((28.00-27.94)^2 + (146.57-146.63)^2)$	0.08				
$^1 ((5.80-18.29)^2 + (147.30-147.63)^2)$	24.09				
$^1 ((6.75-5.80)^2 + (146.80-147.30)^2)$	1.07				
$^1 ((17.45-6.75)^2 + (146.06-146.80)^2)$	10.73				
R1-38 500.95	c1	$^1 ((-1.35-14.96)^2 + (147.04-147.33)^2)$	13.61	35.89	
		$^1 ((-0.64-1.35)^2 + (146.80-147.04)^2)$	0.75		
		$^1 ((3.08-0.64)^2 + (146.28-146.80)^2)$	3.76		
		$^1 ((5.52-3.08)^2 + (146.19-146.28)^2)$	2.44		
		$^1 ((8.42-5.52)^2 + (146.80-146.19)^2)$	2.96		
		$^1 ((10.06-8.42)^2 + (147.80-146.80)^2)$	1.92		
		$^1 ((15.14-10.06)^2 + (148.66-147.80)^2)$	5.15		
		$^1 ((15.16-15.14)^2 + (151.62-148.66)^2)$	2.96		
R1-39 520.00	c1	$^1 ((-10.86-10.94)^2 + (147.20-147.20)^2)$	0.08	33.55	
		$^1 ((-10.02-10.86)^2 + (147.21-147.20)^2)$	0.84		
		$^1 ((-8.85-10.02)^2 + (147.25-147.21)^2)$	1.17		
		$^1 ((-7.93-8.85)^2 + (147.26-147.25)^2)$	0.92		
		$^1 ((-6.92-7.93)^2 + (147.28-147.26)^2)$	1.01		
		$^1 ((-5.71-6.92)^2 + (147.30-147.28)^2)$	1.21		
		$^1 ((-4.96-5.71)^2 + (147.32-147.30)^2)$	0.75		
		$^1 ((-3.56-4.96)^2 + (147.31-147.32)^2)$	1.40		
		$^1 ((-3.14-3.56)^2 + (147.32-147.31)^2)$	0.42		
		$^1 ((-2.64-3.14)^2 + (147.29-147.32)^2)$	0.50		
		$^1 ((3.49-2.64)^2 + (147.12-147.29)^2)$	6.13		
		$^1 ((4.14-3.49)^2 + (147.10-147.12)^2)$	0.65		
		A RIPORTARE ml			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 91		
SCOTICO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			15.08		
R1-39 520.00	c2	$^1 ((12.40-11.21)^2 + (151.09-151.09)^2)$ $^1 ((12.62-12.40)^2 + (151.09-151.09)^2)$	1.19 0.22	15.08	
R1-40 528.64	c1	$^1 ((-8.71--9.05)^2 + (147.55-147.54)^2)$ $^1 ((-7.60--8.71)^2 + (147.55-147.55)^2)$ $^1 ((-6.64--7.60)^2 + (147.57-147.55)^2)$ $^1 ((-5.69--6.64)^2 + (147.59-147.57)^2)$ $^1 ((-3.82--5.69)^2 + (147.28-147.59)^2)$ $^1 ((2.05--3.82)^2 + (147.15-147.28)^2)$ $^1 ((2.71-2.05)^2 + (147.17-147.15)^2)$	0.34 1.11 0.96 0.95 1.90 5.87 0.66	1.41	
R1-40 528.64	c2	$^1 ((10.70-9.40)^2 + (150.62-150.64)^2)$ $^1 ((12.18-10.70)^2 + (150.57-150.62)^2)$	1.30 1.48	11.79	
R1-41 532.63	c2	$^1 ((-8.18--8.24)^2 + (147.73-147.73)^2)$ $^1 ((-6.35--8.18)^2 + (147.73-147.73)^2)$ $^1 ((-6.10--6.35)^2 + (147.74-147.73)^2)$ $^1 ((-5.85--6.10)^2 + (147.75-147.74)^2)$ $^1 ((-3.23--5.85)^2 + (147.31-147.75)^2)$ $^1 ((-2.65--3.23)^2 + (147.29-147.31)^2)$ $^1 ((1.68--2.65)^2 + (147.29-147.29)^2)$ $^1 ((2.32-1.68)^2 + (147.26-147.29)^2)$	0.06 1.83 0.25 0.25 2.66 0.58 4.33 0.64	2.78 0.00	
R1-41	c3	$^1 ((11.81-8.40)^2 + (150.47-150.46)^2)$	3.41	10.60	
R1-42 540.00	c1	$^1 ((8.34-7.08)^2 + (150.02-150.02)^2)$ $^1 ((11.84-8.34)^2 + (149.89-150.02)^2)$	1.26 3.50	3.41	
R1-42 540.00	c2	$^1 ((1.11--2.49)^2 + (147.60-147.48)^2)$ $^1 ((1.74-1.11)^2 + (147.45-147.60)^2)$	3.60 0.65	4.76	
R1-42 540.00	c3	$^1 ((-6.31--6.83)^2 + (149.20-149.06)^2)$ $^1 ((-5.22--6.31)^2 + (149.17-149.20)^2)$	0.54 1.09	4.25	
R1-43 546.20	c1	$^1 ((-5.32--5.88)^2 + (149.80-149.80)^2)$ $^1 ((-3.02--5.32)^2 + (149.53-149.80)^2)$	0.56 2.32	1.63	
R1-43 546.20	c2	$^1 ((1.30--0.45)^2 + (148.04-148.07)^2)$ $^1 ((1.94-1.30)^2 + (147.89-148.04)^2)$	1.75 0.66	2.88	
R1-43 546.20	c3	$^1 ((7.58-6.04)^2 + (149.69-149.63)^2)$ $^1 ((11.63-7.58)^2 + (149.53-149.69)^2)$	1.54 4.05	2.41	
R1-44 546.21	c1	$^1 ((-5.32--8.28)^2 + (149.80-149.80)^2)$ $^1 ((-3.02--5.32)^2 + (149.53-149.80)^2)$	2.96 2.32	5.59	
R1-44	c2	$^1 ((1.30--0.44)^2 + (148.04-148.07)^2)$	1.74	5.28	
A RIPORTARE ml			1.74		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 92		
SCOTICO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			1.74		
546.21		¹ (1.94-1.30) ² +(147.89-148.04) ²	0.66		
R1-44	c3	¹ (7.58-6.04) ² +(149.69-149.63) ²	1.54	2.40	
546.21		¹ (11.63-7.58) ² +(149.53-149.69) ²	4.05		
R1-45	c1	¹ (3.87-3.32) ² +(148.68-148.71) ²	0.55	5.59	
560.00		¹ (4.98-3.87) ² +(148.80-148.68) ²	1.12		
		¹ (6.22-4.98) ² +(148.93-148.80) ²	1.25		
		¹ (7.69-6.22) ² +(148.93-148.93) ²	1.47		
		¹ (11.07-7.69) ² +(148.79-148.93) ²	3.38		
R1-46	c1	¹ (8.34-7.86) ² +(147.60-147.53) ²	0.49	7.77	
580.00		¹ (10.16-8.34) ² +(147.72-147.60) ²	1.82		
R1-47	c1	¹ (8.78-8.31) ² +(147.43-147.38) ²	0.47	2.31	
582.63		¹ (10.16-8.78) ² +(147.52-147.43) ²	1.38		
R1-54	c1	¹ (7.67-7.00) ² +(143.60-143.60) ²	0.67	1.85	
640.00		¹ (8.71-7.67) ² +(143.80-143.60) ²	1.06		
		¹ (8.91-8.71) ² +(143.84-143.80) ²	0.20		
				1.93	
				0.00	
R1-55	c2	¹ (8.30-7.24) ² +(142.72-142.22) ²	1.17	1.17	
R1-56	c1	¹ (7.50-6.82) ² +(142.49-142.50) ²	0.68		
659.15		¹ (8.26-7.50) ² +(142.68-142.49) ²	0.78		
R1-58	c1	¹ (5.49-4.94) ² +(142.39-142.42) ²	0.55	1.46	
680.00		¹ (5.63-5.49) ² +(142.37-142.39) ²	0.14		
		¹ (5.72-5.63) ² +(142.36-142.37) ²	0.09		
		¹ (5.87-5.72) ² +(142.33-142.36) ²	0.15		
		¹ (6.41-5.87) ² +(142.17-142.33) ²	0.56		
R1-59	c1	¹ (-0.09--3.70) ² +(135.80-135.80) ²	3.61	1.49	
				3.61	
R1-59	c2	¹ (1.14-0.31) ² +(136.80-136.80) ²	0.83		
694.82		¹ (3.46-1.14) ² +(136.80-136.80) ²	2.32		
		¹ (3.92-3.46) ² +(136.80-136.80) ²	0.46		
R1-60b	c1	¹ (-7.04--14.16) ² +(134.92-135.64) ²	7.16	3.61	
704.83		¹ (-6.31--7.04) ² +(135.02-134.92) ²	0.74		
		¹ (-5.02--6.31) ² +(134.85-135.02) ²	1.30		
		¹ (0.01--5.02) ² +(134.81-134.85) ²	5.03		
R1-60b	c2	¹ (3.27-0.65) ² +(135.81-135.81) ²	2.62	14.23	
704.83		¹ (4.79-3.27) ² +(135.81-135.81) ²	1.52		
		¹ (5.59-4.79) ² +(135.81-135.81) ²	0.80		
R1-60b	c3	¹ (6.24-5.68) ² +(140.03-140.03) ²	0.56	4.94	
A RIPORTARE ml			0.56		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 93	
SCOTICO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml			0.56		
704.83		$^1 ((6.87-6.24)^2 + (140.06-140.03)^2)$	0.63		
R1-61 714.87	c1	$^1 ((1.02--8.77)^2 + (137.95-137.86)^2)$ $^1 ((1.42-1.02)^2 + (137.96-137.95)^2)$	9.79 0.40	1.19 10.19	
R1-61 714.87	c2	$^1 ((4.74-4.66)^2 + (139.24-139.35)^2)$ $^1 ((5.26-4.74)^2 + (139.28-139.24)^2)$ $^1 ((6.78-5.26)^2 + (139.35-139.28)^2)$	0.14 0.52 1.52	2.18	
R1-62	c1	$^1 ((6.59-5.34)^2 + (139.06-139.00)^2)$	1.25	1.25	
R1-62 720.00	c2	$^1 ((-0.07--8.97)^2 + (137.49-137.34)^2)$ $^1 ((0.34--0.07)^2 + (137.49-137.49)^2)$	8.90 0.41	9.31	
R1-63	c1	$^1 ((5.94-4.96)^2 + (137.83-137.78)^2)$	0.98	0.98	
R1-63 740.00	c2	$^1 ((-8.32--10.37)^2 + (134.80-134.94)^2)$ $^1 ((-8.15--8.32)^2 + (134.79-134.80)^2)$ $^1 ((-8.04--8.15)^2 + (134.80-134.79)^2)$ $^1 ((-3.39--8.04)^2 + (135.31-134.80)^2)$ $^1 ((-2.99--3.39)^2 + (135.32-135.31)^2)$	2.05 0.17 0.11 4.68 0.40	7.41	
R1-64 760.00	c1	$^1 ((-7.77--9.14)^2 + (134.09-134.19)^2)$ $^1 ((-4.64--7.77)^2 + (134.02-134.09)^2)$ $^1 ((-4.03--4.64)^2 + (134.02-134.02)^2)$	1.37 3.13 0.61	5.11	
R1-65	c1	$^1 ((-5.73--6.33)^2 + (133.20-133.19)^2)$	0.60	0.60	
R1-66	c1	$^1 ((-6.48--7.09)^2 + (132.74-132.74)^2)$	0.61	0.61	
R1-67 800.00	c2	$^1 ((-8.58--9.77)^2 + (131.58-131.57)^2)$ $^1 ((-7.77--8.58)^2 + (131.58-131.58)^2)$	1.19 0.81	2.00 0.00	
R1-68 820.00	c2	$^1 ((-8.93--9.51)^2 + (130.46-130.57)^2)$ $^1 ((-8.13--8.93)^2 + (130.46-130.46)^2)$	0.59 0.80	1.39	
R1-69 832.82	c1	$^1 ((-9.88--10.06)^2 + (129.48-129.50)^2)$ $^1 ((-9.07--9.88)^2 + (129.48-129.48)^2)$	0.18 0.81	0.99	
Il Direttore dei Lavori		L'Impresa			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 94		
SCOTICO SU GRADONATURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R1-3 32.24	e1	$^1 ((5.42-5.96)^2 + (162.32-162.84)^2)$ $^1 ((3.99-5.42)^2 + (161.80-162.32)^2)$ $^1 ((3.75-3.99)^2 + (161.64-161.80)^2)$ $^1 ((3.68-3.75)^2 + (161.56-161.64)^2)$ $^1 ((3.18-3.68)^2 + (160.79-161.56)^2)$	0.75 1.52 0.29 0.11 0.92		
R1-4 32.25	e1	$^1 ((5.42-5.95)^2 + (162.33-162.84)^2)$ $^1 ((3.97-5.42)^2 + (161.80-162.33)^2)$ $^1 ((3.74-3.97)^2 + (161.65-161.80)^2)$ $^1 ((3.67-3.74)^2 + (161.57-161.65)^2)$ $^1 ((3.17-3.67)^2 + (160.81-161.57)^2)$	0.74 1.54 0.27 0.11 0.91	3.59	
R1-16	e1	$^1 ((0.48-1.91)^2 + (169.33-170.80)^2)$	2.81	3.57	
R1-18 190.84	e1	$^1 ((1.58-1.13)^2 + (171.80-172.80)^2)$ $^1 ((3.10-1.58)^2 + (170.80-171.80)^2)$ $^1 ((4.44-3.10)^2 + (169.80-170.80)^2)$ $^1 ((6.00-4.44)^2 + (168.94-169.80)^2)$	2.89 1.82 1.67 1.78	2.81	
R1-18b 190.85	e1	$^1 ((28.78-25.50)^2 + (162.80-163.80)^2)$ $^1 ((31.50-28.78)^2 + (162.28-162.80)^2)$	3.43 2.77	8.16	
R1-18b 190.85	e2	$^1 ((1.58-1.13)^2 + (171.80-172.80)^2)$ $^1 ((4.44-1.58)^2 + (169.80-171.80)^2)$ $^1 ((6.25-4.44)^2 + (168.80-169.80)^2)$ $^1 ((8.87-6.25)^2 + (167.80-168.80)^2)$ $^1 ((12.65-8.87)^2 + (166.80-167.80)^2)$ $^1 ((14.91-12.65)^2 + (165.80-166.80)^2)$ $^1 ((15.03-14.91)^2 + (165.11-165.80)^2)$ $^1 ((15.83-15.03)^2 + (164.80-165.11)^2)$ $^1 ((19.90-15.83)^2 + (163.80-164.80)^2)$	2.89 3.49 2.07 2.80 3.91 2.47 0.70 0.86 4.19	6.20	
R1-20 210.84	e1	$^1 ((7.72-6.78)^2 + (173.23-173.76)^2)$ $^1 ((7.79-7.72)^2 + (173.15-173.23)^2)$ $^1 ((8.23-7.79)^2 + (172.80-173.15)^2)$	1.08 0.11 0.56	23.38	
R1-20b 220.00	e1	$^1 ((6.81-6.20)^2 + (172.80-173.32)^2)$ $^1 ((7.80-6.81)^2 + (171.80-172.80)^2)$ $^1 ((8.82-7.80)^2 + (170.89-171.80)^2)$	0.80 1.41 1.37	1.75	
R1-21 240.00	e1	$^1 ((-1.39-2.21)^2 + (172.80-173.98)^2)$ $^1 ((-0.53-1.39)^2 + (171.80-172.80)^2)$ $^1 ((0.36-0.53)^2 + (170.80-171.80)^2)$ $^1 ((1.97-0.36)^2 + (170.27-170.80)^2)$	1.44 1.32 1.34 1.69	3.58	
R1-21	e2	$^1 ((10.18-1.97)^2 + (172.10-170.27)^2)$	8.41	5.79	
R1-22	e1	$^1 ((5.95-2.57)^2 + (169.70-172.74)^2)$	9.05	8.41	
R1-30 382.06	e1	$^1 ((0.93-0.04)^2 + (160.57-160.39)^2)$ $^1 ((2.98-0.93)^2 + (161.74-160.57)^2)$	0.91 2.36	9.05	
A RIPORTARE ml			3.27		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE			Foglio n. 95
SCOTICO SU GRADONATURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			3.27		
R1-30	e2	$^1 ((0.04--1.39)^2 + (160.39-161.72)^2)$	1.95	3.27	
R1-30	e3	$^1 ((-10.36--13.00)^2 + (158.06-156.58)^2)$	3.03	1.95	
382.06		$^1 ((-6.99--10.36)^2 + (161.10-158.06)^2)$	4.54		
		$^1 ((-5.23--6.99)^2 + (161.69-161.10)^2)$	1.86	9.43	
R1-30	e4	$^1 ((9.63-8.83)^2 + (161.62-161.81)^2)$	0.82		
382.06		$^1 ((14.71-9.63)^2 + (157.65-161.62)^2)$	6.45		
		$^1 ((16.66-14.71)^2 + (157.25-157.65)^2)$	1.99		
		$^1 ((17.39-16.66)^2 + (156.75-157.25)^2)$	0.88	10.14	
R1-39	e1	$^1 ((6.88-4.14)^2 + (148.80-147.10)^2)$	3.22		
520.00		$^1 ((8.66-6.88)^2 + (149.80-148.80)^2)$	2.04		
		$^1 ((10.63-8.66)^2 + (150.80-149.80)^2)$	2.21		
		$^1 ((11.21-10.63)^2 + (151.09-150.80)^2)$	0.65	8.12	
R1-40	e1	$^1 ((5.83-2.71)^2 + (148.80-147.17)^2)$	3.52		
528.64		$^1 ((7.75-5.83)^2 + (149.80-148.80)^2)$	2.16		
		$^1 ((9.40-7.75)^2 + (150.64-149.80)^2)$	1.85	7.53	
R1-41	e1	$^1 ((5.22-2.32)^2 + (148.80-147.26)^2)$	3.28		
532.63		$^1 ((7.13-5.22)^2 + (149.80-148.80)^2)$	2.16		
		$^1 ((8.40-7.13)^2 + (150.46-149.80)^2)$	1.43	6.87	
R1-42	e1	$^1 ((-3.39--2.49)^2 + (148.12-147.48)^2)$	1.10		
540.00		$^1 ((-3.60--3.39)^2 + (148.38-148.12)^2)$	0.33		
		$^1 ((-4.11--3.60)^2 + (148.80-148.38)^2)$	0.66		
		$^1 ((-5.22--4.11)^2 + (149.17-148.80)^2)$	1.17	3.26	
R1-42	e2	$^1 ((6.55-7.08)^2 + (149.80-150.02)^2)$	0.57		
540.00		$^1 ((4.35-6.55)^2 + (148.80-149.80)^2)$	2.42		
		$^1 ((1.74-4.35)^2 + (147.45-148.80)^2)$	2.94	5.93	
R1-43	e1	$^1 ((-1.32--3.02)^2 + (148.80-149.53)^2)$	1.85		
546.20		$^1 ((-0.45--1.32)^2 + (148.07-148.80)^2)$	1.14	2.99	
R1-43	e2	$^1 ((4.10-1.94)^2 + (148.80-147.89)^2)$	2.34		
546.20		$^1 ((6.04-4.10)^2 + (149.63-148.80)^2)$	2.11	4.45	
R1-44	e1	$^1 ((-1.32--0.44)^2 + (148.80-148.07)^2)$	1.14		
546.21		$^1 ((-3.02--1.32)^2 + (149.53-148.80)^2)$	1.85	2.99	
R1-44	e2	$^1 ((4.10-6.04)^2 + (148.80-149.63)^2)$	2.11		
546.21		$^1 ((1.94-4.10)^2 + (147.89-148.80)^2)$	2.34	4.45	
R1-45	e1	$^1 ((0.69-3.32)^2 + (149.80-148.71)^2)$	2.85		
560.00		$^1 ((-0.22-0.69)^2 + (150.50-149.80)^2)$	1.15		
		$^1 ((-0.67--0.22)^2 + (150.80-150.50)^2)$	0.54		
A RIPORTARE ml			4.54		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 96	
SCOTICO SU GRADONATURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			4.54		
R1-46 580.00	e1	$^1 ((-2.56--0.67)^2 + (151.37-150.80)^2)$ $^1 ((7.36-7.86)^2 + (147.80-147.53)^2)$ $^1 ((3.75-7.36)^2 + (149.69-147.80)^2)$	1.97 0.57 4.07	6.51 4.64	
R1-47 582.63	e1	$^1 ((7.53-8.31)^2 + (147.80-147.38)^2)$ $^1 ((4.39-7.53)^2 + (149.46-147.80)^2)$	0.89 3.55	4.44	
R1-48	e1	$^1 ((10.23-5.42)^2 + (146.35-148.96)^2)$	5.47	5.47	
R1-49 600.00	e1	$^1 ((7.20-5.78)^2 + (147.80-148.61)^2)$ $^1 ((10.37-7.20)^2 + (146.06-147.80)^2)$	1.63 3.62	5.25	
R1-52 615.00	e1	$^1 ((8.80-10.26)^2 + (145.80-145.37)^2)$ $^1 ((5.78-8.80)^2 + (147.50-145.80)^2)$	1.52 3.47	4.99	
R1-54 640.00	e1	$^1 ((6.61-7.00)^2 + (143.80-143.60)^2)$ $^1 ((4.68-6.61)^2 + (144.80-143.80)^2)$ $^1 ((4.18-4.68)^2 + (145.06-144.80)^2)$	0.44 2.17 0.56	3.17	
R1-55 658.29	e1	$^1 ((6.42-7.24)^2 + (142.80-142.22)^2)$ $^1 ((4.91-6.42)^2 + (143.58-142.80)^2)$	1.00 1.70	2.70	
R1-56 659.15	e1	$^1 ((6.23-6.82)^2 + (142.80-142.50)^2)$ $^1 ((4.85-6.23)^2 + (143.51-142.80)^2)$	0.66 1.55	2.21	
R1-59 694.82	e3	$^1 ((-8.83--10.22)^2 + (137.80-138.70)^2)$ $^1 ((-7.17--8.83)^2 + (136.80-137.80)^2)$ $^1 ((-5.95--7.17)^2 + (136.80-136.80)^2)$ $^1 ((-3.70--5.95)^2 + (135.80-136.80)^2)$	1.66 1.94 1.22 2.46	7.28	
R1-59 694.82	e1	$^1 ((4.37-3.92)^2 + (137.80-136.80)^2)$ $^1 ((4.82-4.37)^2 + (138.80-137.80)^2)$ $^1 ((5.20-4.82)^2 + (139.80-138.80)^2)$ $^1 ((7.22-5.20)^2 + (140.60-139.80)^2)$	1.10 1.10 1.07 2.17	5.44	
R1-59	e2	$^1 ((0.31--0.09)^2 + (136.80-135.80)^2)$	1.08	1.08	
R1-61	e1	$^1 ((4.44-1.42)^2 + (139.54-137.96)^2)$	3.41	3.41	
R1-62 720.00	e1	$^1 ((1.05-0.34)^2 + (137.80-137.49)^2)$ $^1 ((3.17-1.05)^2 + (138.80-137.80)^2)$ $^1 ((3.75-3.17)^2 + (139.11-138.80)^2)$	0.77 2.34 0.66	3.77	
R1-63 740.00	e1	$^1 ((-2.16--2.99)^2 + (135.80-135.32)^2)$ $^1 ((0.04--2.16)^2 + (136.80-135.80)^2)$ $^1 ((1.09-0.04)^2 + (137.41-136.80)^2)$	0.96 2.42 1.21	4.59	
R1-64	e1	$^1 ((-2.68--4.03)^2 + (134.80-134.02)^2)$	1.56		
A RIPORTARE ml			1.56		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 97	
SCOTICO SU GRADONATURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml			1.56		
760.00		$^1 ((-0.76--2.68)^2 + (135.88-134.80)^2)$	2.20		
R1-65	e2	$^1 ((-6.33--8.15)^2 + (133.19-133.80)^2)$	1.92	3.76	
R1-65	e1	$^1 ((-2.10--5.73)^2 + (135.02-133.20)^2)$	4.06	1.92	
R1-66	e2	$^1 ((-7.26--8.78)^2 + (132.80-133.24)^2)$	1.58		
780.00		$^1 ((-7.09--7.26)^2 + (132.74-132.80)^2)$	0.18	4.06	
R1-66	e1	$^1 ((-6.37--6.48)^2 + (132.80-132.74)^2)$	0.13		
780.00		$^1 ((-4.34--6.37)^2 + (133.80-132.80)^2)$	2.26	1.76	
		$^1 ((-2.57--4.34)^2 + (134.66-133.80)^2)$	1.97		
R1-67	e1	$^1 ((-7.36--7.77)^2 + (131.80-131.58)^2)$	0.47	4.36	
800.00		$^1 ((-5.29--7.36)^2 + (132.80-131.80)^2)$	2.30		
		$^1 ((-3.82--5.29)^2 + (133.51-132.80)^2)$	1.63	4.40	
R1-68	e1	$^1 ((-5.06--8.13)^2 + (132.31-130.46)^2)$	3.58	3.58	
R1-69	e1	$^1 ((-8.55--9.07)^2 + (129.80-129.48)^2)$	0.61		
832.82		$^1 ((-6.90--8.55)^2 + (130.80-129.80)^2)$	1.93		
		$^1 ((-5.17--6.90)^2 + (131.87-130.80)^2)$	2.03	4.57	
R1-70	e1	$^1 ((-10.07--10.49)^2 + (128.80-128.82)^2)$	0.42		
840.00		$^1 ((-9.84--10.07)^2 + (128.99-128.80)^2)$	0.30		
		$^1 ((-8.49--9.84)^2 + (129.80-128.99)^2)$	1.57		
		$^1 ((-6.77--8.49)^2 + (130.80-129.80)^2)$	1.99		
		$^1 ((-5.66--6.77)^2 + (131.44-130.80)^2)$	1.28	5.56	
R1-72	e1	$^1 ((-5.56--8.49)^2 + (129.25-127.58)^2)$	3.37	3.37	
Il Direttore dei Lavori		L'Impresa			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 98		
BONIFICA RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R1-1 0.00	f1	$^1 ((4.54-0.00)^2 + (163.80-163.59)^2)$ $^1 ((8.94-4.54)^2 + (163.80-163.80)^2)$ $^1 ((9.63-8.94)^2 + (163.71-163.80)^2)$	4.54 4.40 0.70	9.64	
R1-3 32.24	f1	$^1 ((1.95-0.00)^2 + (161.14-160.82)^2)$ $^1 ((3.17-1.95)^2 + (160.81-161.14)^2)$ $^1 ((3.18-3.17)^2 + (160.79-160.81)^2)$	1.98 1.26 0.02	3.26	
R1-3 32.24	f2	$^1 ((6.94-5.96)^2 + (162.80-162.84)^2)$ $^1 ((7.36-6.94)^2 + (162.87-162.80)^2)$ $^1 ((9.10-7.36)^2 + (163.04-162.87)^2)$ $^1 ((9.61-9.10)^2 + (163.11-163.04)^2)$ $^1 ((11.01-9.61)^2 + (163.14-163.11)^2)$ $^1 ((11.50-11.01)^2 + (163.17-163.14)^2)$	0.98 0.43 1.75 0.51 1.40 0.49	5.56	
R1-4 32.25	f1	$^1 ((-0.72--1.20)^2 + (160.89-160.93)^2)$ $^1 ((-0.50--0.72)^2 + (160.89-160.89)^2)$ $^1 ((-0.13--0.50)^2 + (160.80-160.89)^2)$ $^1 ((1.94-0.13)^2 + (161.14-160.80)^2)$ $^1 ((3.17-1.94)^2 + (160.81-161.14)^2)$	0.48 0.22 0.38 2.10 1.27	4.45	
R1-4 32.25	f2	$^1 ((6.92-5.95)^2 + (162.80-162.84)^2)$ $^1 ((7.36-6.92)^2 + (162.88-162.80)^2)$ $^1 ((9.10-7.36)^2 + (163.04-162.88)^2)$ $^1 ((9.61-9.10)^2 + (163.11-163.04)^2)$ $^1 ((11.00-9.61)^2 + (163.14-163.11)^2)$ $^1 ((11.49-11.00)^2 + (163.17-163.14)^2)$	0.97 0.45 1.75 0.51 1.39 0.49	5.56	
R1-5 40.00	f1	$^1 ((-2.06--2.50)^2 + (163.14-163.07)^2)$ $^1 ((-1.39--2.06)^2 + (163.32-163.14)^2)$ $^1 ((0.03--1.39)^2 + (163.61-163.32)^2)$ $^1 ((1.07-0.03)^2 + (163.80-163.61)^2)$ $^1 ((2.35-1.07)^2 + (164.07-163.80)^2)$ $^1 ((3.26-2.35)^2 + (164.34-164.07)^2)$ $^1 ((3.84-3.26)^2 + (164.48-164.34)^2)$ $^1 ((5.34-3.84)^2 + (164.80-164.48)^2)$ $^1 ((5.96-5.34)^2 + (164.87-164.80)^2)$ $^1 ((6.15-5.96)^2 + (164.91-164.87)^2)$ $^1 ((8.03-6.15)^2 + (165.07-164.91)^2)$ $^1 ((8.34-8.03)^2 + (165.15-165.07)^2)$	0.45 0.69 1.45 1.06 1.31 0.95 0.60 1.53 0.62 0.19 1.89 0.32	11.06	
R1-14 148.60	f1	$^1 ((7.42-6.53)^2 + (171.41-171.56)^2)$ $^1 ((7.78-7.42)^2 + (171.34-171.41)^2)$	0.90 0.37	1.27	
R1-15 161.48	f1	$^1 ((-4.60--5.28)^2 + (170.16-170.25)^2)$ $^1 ((-4.35--4.60)^2 + (170.12-170.16)^2)$ $^1 ((-4.32--4.35)^2 + (170.16-170.12)^2)$ $^1 ((-2.98--4.32)^2 + (170.12-170.16)^2)$ $^1 ((-2.08--2.98)^2 + (169.96-170.12)^2)$ $^1 ((-1.26--2.08)^2 + (169.95-169.96)^2)$ $^1 ((0.07--1.26)^2 + (169.90-169.95)^2)$	0.69 0.25 0.05 1.34 0.91 0.82 1.33		
A RIPORTARE ml			5.39		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 99		
BONIFICA RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			5.39		
		$^1 ((0.45-0.07)^2 + (170.10-169.90)^2)$	0.43		
		$^1 ((1.24-0.45)^2 + (170.21-170.10)^2)$	0.80		
		$^1 ((2.47-1.24)^2 + (170.16-170.21)^2)$	1.23		
		$^1 ((2.73-2.47)^2 + (170.34-170.16)^2)$	0.32		
		$^1 ((3.40-2.73)^2 + (170.38-170.34)^2)$	0.67		
		$^1 ((3.73-3.40)^2 + (170.52-170.38)^2)$	0.36		
		$^1 ((4.27-3.73)^2 + (170.59-170.52)^2)$	0.54		
		$^1 ((5.15-4.27)^2 + (171.17-170.59)^2)$	1.05		
		$^1 ((5.99-5.15)^2 + (170.87-171.17)^2)$	0.89		
R1-16	f1	$^1 ((-1.91--5.19)^2 + (170.80-171.39)^2)$	3.33	11.68	
R1-16	f2	$^1 ((5.99-0.48)^2 + (169.74-169.33)^2)$	5.53	3.33	
R1-18	f1	$^1 ((-1.13--4.50)^2 + (172.80-172.80)^2)$	3.37	5.53	
R1-18b 190.85	f2	$^1 ((-7.46--8.14)^2 + (172.80-172.90)^2)$ $^1 ((-6.31--7.46)^2 + (172.80-172.80)^2)$ $^1 ((-1.13--6.31)^2 + (172.80-172.80)^2)$	0.69 1.15 5.18	3.37 7.02	
R1-18b 190.85	f1	$^1 ((20.32-19.90)^2 + (163.80-163.80)^2)$ $^1 ((25.50-20.32)^2 + (163.80-163.80)^2)$	0.42 5.18	5.60	
R1-20	f1	$^1 ((8.87-8.23)^2 + (172.93-172.80)^2)$	0.65	0.65	
R1-20b 220.00	f1	$^1 ((10.00-8.82)^2 + (170.80-170.89)^2)$ $^1 ((12.99-10.00)^2 + (170.63-170.80)^2)$	1.18 2.99	4.17	
R1-22	f1	$^1 ((-2.57--4.50)^2 + (172.74-172.73)^2)$	1.93	1.93	
R1-23 277.73	f1	$^1 ((-4.33--4.50)^2 + (169.91-169.92)^2)$ $^1 ((-2.85--4.33)^2 + (169.80-169.91)^2)$ $^1 ((0.09--2.85)^2 + (169.58-169.80)^2)$ $^1 ((2.72-0.09)^2 + (169.39-169.58)^2)$ $^1 ((4.70-2.72)^2 + (169.28-169.39)^2)$ $^1 ((4.71-4.70)^2 + (169.28-169.28)^2)$	0.17 1.48 2.95 2.64 1.98 0.01	9.23	
R1-28b 340.93	f1	$^1 ((-15.63--21.63)^2 + (160.74-160.71)^2)$ $^1 ((-13.59--15.63)^2 + (160.79-160.74)^2)$ $^1 ((-13.55--13.59)^2 + (160.79-160.79)^2)$ $^1 ((-13.51--13.55)^2 + (160.79-160.79)^2)$ $^1 ((-13.47--13.51)^2 + (160.79-160.79)^2)$ $^1 ((-12.85--13.47)^2 + (160.80-160.79)^2)$ $^1 ((-12.31--12.85)^2 + (160.80-160.80)^2)$ $^1 ((-11.32--12.31)^2 + (160.91-160.80)^2)$ $^1 ((-9.29--11.32)^2 + (161.01-160.91)^2)$ $^1 ((-5.60--9.29)^2 + (160.80-161.01)^2)$ $^1 ((-2.14--5.60)^2 + (160.80-160.80)^2)$ $^1 ((0.90--2.14)^2 + (160.69-160.80)^2)$	6.00 2.04 0.04 0.04 0.04 0.62 0.54 1.00 2.03 3.70 3.46 3.04		
A RIPORTARE ml			22.55		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 100		
BONIFICA RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			22.55		
R1-29 360.00	f1	¹ ((3.43-0.90) ² +(160.61-160.69) ²)	2.53	26.15	
		¹ ((4.05-3.43) ² +(160.58-160.61) ²)	0.62		
		¹ ((4.50-4.05) ² +(160.57-160.58) ²)	0.45		
		¹ ((-24.44--24.61) ² +(157.41-157.41) ²)	0.17		
		¹ ((-22.43--24.44) ² +(157.41-157.41) ²)	2.01		
		¹ ((-21.62--22.43) ² +(157.42-157.41) ²)	0.81		
		¹ ((-19.76--21.62) ² +(157.46-157.42) ²)	1.86		
		¹ ((-17.73--19.76) ² +(157.49-157.46) ²)	2.03		
		¹ ((-15.78--17.73) ² +(157.53-157.49) ²)	1.95		
		¹ ((-13.70--15.78) ² +(157.63-157.53) ²)	2.08		
		¹ ((-13.29--13.70) ² +(157.63-157.63) ²)	0.41		
		¹ ((-11.35--13.29) ² +(157.63-157.63) ²)	1.94		
		¹ ((-10.93--11.35) ² +(157.78-157.63) ²)	0.45		
		¹ ((-10.44--10.93) ² +(158.02-157.78) ²)	0.55		
		¹ ((-9.57--10.44) ² +(157.80-158.02) ²)	0.90		
		¹ ((-9.00--9.57) ² +(157.70-157.80) ²)	0.58		
		¹ ((-8.30--9.00) ² +(157.93-157.70) ²)	0.74		
		¹ ((-8.04--8.30) ² +(157.94-157.93) ²)	0.26		
		¹ ((-7.26--8.04) ² +(157.78-157.94) ²)	0.80		
		¹ ((-6.30--7.26) ² +(158.00-157.78) ²)	0.98		
		¹ ((-5.84--6.30) ² +(158.08-158.00) ²)	0.47		
		¹ ((-5.15--5.84) ² +(158.02-158.08) ²)	0.69		
		¹ ((-3.90--5.15) ² +(158.30-158.02) ²)	1.28		
		¹ ((-3.15--3.90) ² +(158.27-158.30) ²)	0.75		
		¹ ((-3.14--3.15) ² +(158.29-158.27) ²)	0.02		
		¹ ((-1.94--3.14) ² +(158.80-158.29) ²)	1.30		
		¹ ((-1.36--1.94) ² +(158.96-158.80) ²)	0.60		
		¹ ((-0.95--1.36) ² +(159.01-158.96) ²)	0.41		
		¹ ((0.15--0.95) ² +(159.37-159.01) ²)	1.16		
		¹ ((0.85-0.15) ² +(159.42-159.37) ²)	0.70		
		¹ ((1.49-0.85) ² +(159.50-159.42) ²)	0.64		
		¹ ((2.94-1.49) ² +(159.53-159.50) ²)	1.45		
		¹ ((4.92-2.94) ² +(159.73-159.53) ²)	1.99		
¹ ((5.06-4.92) ² +(159.83-159.73) ²)	0.17				
¹ ((5.74-5.06) ² +(159.80-159.83) ²)	0.68				
¹ ((6.45-5.74) ² +(159.80-159.80) ²)	0.71				
¹ ((7.17-6.45) ² +(159.77-159.80) ²)	0.72				
¹ ((7.22-7.17) ² +(159.77-159.77) ²)	0.05				
¹ ((7.31-7.22) ² +(159.82-159.77) ²)	0.10				
¹ ((10.54-7.31) ² +(159.89-159.82) ²)	3.23				
¹ ((13.10-10.54) ² +(159.81-159.89) ²)	2.56				
¹ ((14.53-13.10) ² +(159.68-159.81) ²)	1.44				
¹ ((15.68-14.53) ² +(159.41-159.68) ²)	1.18				
¹ ((16.35-15.68) ² +(159.29-159.41) ²)	0.68				
¹ ((19.34-16.35) ² +(158.80-159.29) ²)	3.03				
¹ ((20.48-19.34) ² +(158.80-158.80) ²)	1.14				
¹ ((21.21-20.48) ² +(158.80-158.80) ²)	0.73				
¹ ((22.42-21.21) ² +(158.80-158.80) ²)	1.21				
A RIPORTARE ml			47.61		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA	<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 101		
BONIFICA RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			47.61		
R1-30 382.06	f1	$^1 ((-21.59--21.91)^2 + (156.30-156.28)^2)$ $^1 ((-21.13--21.59)^2 + (156.32-156.30)^2)$ $^1 ((-20.71--21.13)^2 + (156.36-156.32)^2)$ $^1 ((-16.92--20.71)^2 + (156.45-156.36)^2)$ $^1 ((-15.79--16.92)^2 + (156.46-156.45)^2)$ $^1 ((-14.98--15.79)^2 + (156.46-156.46)^2)$ $^1 ((-14.09--14.98)^2 + (156.53-156.46)^2)$ $^1 ((-13.00--14.09)^2 + (156.58-156.53)^2)$	0.32 0.46 0.42 3.79 1.13 0.81 0.89 1.09	47.61	
R1-30 382.06	f2	$^1 ((-5.22--5.23)^2 + (161.69-161.69)^2)$ $^1 ((-1.39--5.22)^2 + (161.72-161.69)^2)$	0.01 3.83	8.91	
R1-30 382.06	f3	$^1 ((8.82-2.98)^2 + (161.81-161.74)^2)$ $^1 ((8.83-8.82)^2 + (161.81-161.81)^2)$	5.84 0.01	3.84	
R1-30 382.06	f4	$^1 ((19.19-17.39)^2 + (156.77-156.75)^2)$ $^1 ((21.32-19.19)^2 + (156.78-156.77)^2)$ $^1 ((22.99-21.32)^2 + (156.78-156.78)^2)$	1.80 2.13 1.67	5.85	
R1-31 400.00	f1	$^1 ((-21.46--22.09)^2 + (154.53-154.32)^2)$ $^1 ((-20.92--21.46)^2 + (154.55-154.53)^2)$ $^1 ((-19.35--20.92)^2 + (154.80-154.55)^2)$ $^1 ((-19.32--19.35)^2 + (154.80-154.80)^2)$ $^1 ((-19.31--19.32)^2 + (154.80-154.80)^2)$ $^1 ((-17.29--19.31)^2 + (154.80-154.80)^2)$ $^1 ((-17.27--17.29)^2 + (154.80-154.80)^2)$ $^1 ((-15.28--17.27)^2 + (154.80-154.80)^2)$ $^1 ((-15.24--15.28)^2 + (154.80-154.80)^2)$ $^1 ((-13.12--15.24)^2 + (154.81-154.80)^2)$ $^1 ((-13.02--13.12)^2 + (154.81-154.81)^2)$ $^1 ((-11.65--13.02)^2 + (154.85-154.81)^2)$ $^1 ((-10.92--11.65)^2 + (154.83-154.85)^2)$ $^1 ((-10.53--10.92)^2 + (154.91-154.83)^2)$ $^1 ((-8.98--10.53)^2 + (154.84-154.91)^2)$ $^1 ((-8.74--8.98)^2 + (154.83-154.84)^2)$ $^1 ((-6.87--8.74)^2 + (154.85-154.83)^2)$ $^1 ((-5.15--6.87)^2 + (154.86-154.85)^2)$ $^1 ((-4.71--5.15)^2 + (154.85-154.86)^2)$ $^1 ((-3.84--4.71)^2 + (154.85-154.85)^2)$ $^1 ((-2.96--3.84)^2 + (154.83-154.85)^2)$ $^1 ((-2.28--2.96)^2 + (154.80-154.83)^2)$ $^1 ((-1.98--2.28)^2 + (154.76-154.80)^2)$ $^1 ((-1.86--1.98)^2 + (154.79-154.76)^2)$ $^1 ((-0.68--1.86)^2 + (154.77-154.79)^2)$ $^1 ((2.53--0.68)^2 + (154.77-154.77)^2)$ $^1 ((3.59-2.53)^2 + (154.66-154.77)^2)$ $^1 ((9.30-3.59)^2 + (154.45-154.66)^2)$ $^1 ((9.56-9.30)^2 + (154.43-154.45)^2)$	0.66 0.54 1.59 0.03 0.01 2.02 0.02 1.99 0.04 2.12 0.10 1.37 0.73 0.40 1.55 0.24 1.87 1.72 0.44 0.87 0.88 0.68 0.30 0.12 1.18 3.21 1.07 5.71 0.26	5.60	
A RIPORTARE ml			31.72		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 102	
BONIFICA RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			31.72		
R1-32 409.76	f1	$^1 (9.67-9.56)^2 + (154.42-154.43)^2$	0.11	50.10	
		$^1 (9.82-9.67)^2 + (154.41-154.42)^2$	0.15		
		$^1 (11.01-9.82)^2 + (154.37-154.41)^2$	1.19		
		$^1 (13.31-11.01)^2 + (154.31-154.37)^2$	2.30		
		$^1 (13.87-13.31)^2 + (154.18-154.31)^2$	0.57		
		$^1 (14.97-13.87)^2 + (154.05-154.18)^2$	1.11		
		$^1 (16.43-14.97)^2 + (153.92-154.05)^2$	1.47		
		$^1 (17.19-16.43)^2 + (154.00-153.92)^2$	0.76		
		$^1 (17.60-17.19)^2 + (154.01-154.00)^2$	0.41		
		$^1 (18.86-17.60)^2 + (153.98-154.01)^2$	1.26		
		$^1 (19.19-18.86)^2 + (153.96-153.98)^2$	0.33		
		$^1 (20.73-19.19)^2 + (154.11-153.96)^2$	1.55		
		$^1 (21.30-20.73)^2 + (154.07-154.11)^2$	0.57		
		$^1 (22.80-21.30)^2 + (154.07-154.07)^2$	1.50		
		$^1 (24.74-22.80)^2 + (154.20-154.07)^2$	1.94		
$^1 (24.85-24.74)^2 + (154.19-154.20)^2$	0.11				
$^1 (25.42-24.85)^2 + (154.14-154.19)^2$	0.57				
$^1 (27.39-25.42)^2 + (153.87-154.14)^2$	1.99				
$^1 (27.86-27.39)^2 + (153.99-153.87)^2$	0.49				
R1-33 420.00	f1	$^1 (-3.41--22.34)^2 + (149.80-152.11)^2$	19.07	54.83	
		$^1 (-1.10--3.41)^2 + (148.88-149.80)^2$	2.49		
		$^1 (6.51--1.10)^2 + (150.81-148.88)^2$	7.85		
		$^1 (13.15-6.51)^2 + (151.80-150.81)^2$	6.71		
		$^1 (22.64-13.15)^2 + (152.28-151.80)^2$	9.50		
		$^1 (26.12-22.64)^2 + (151.80-152.28)^2$	3.51		
		$^1 (27.63-26.12)^2 + (151.69-151.80)^2$	1.51		
		$^1 (29.94-27.63)^2 + (151.47-151.69)^2$	2.32		
		$^1 (31.78-29.94)^2 + (151.13-151.47)^2$	1.87		
		$^1 (-20.80--22.41)^2 + (148.80-148.83)^2$	1.61		
$^1 (-1.34--20.80)^2 + (148.54-148.80)^2$	19.46				
$^1 (27.75--1.34)^2 + (148.77-148.54)^2$	29.09				
R1-34 440.00	f1	$^1 (-2.00--21.91)^2 + (147.80-148.19)^2$	19.91	50.16	
		$^1 (26.94--2.00)^2 + (148.04-147.80)^2$	28.94		
		$^1 (26.95-26.94)^2 + (147.90-148.04)^2$	0.14		
		$^1 (28.03-26.95)^2 + (147.94-147.90)^2$	1.08		
R1-35 455.35	f1	$^1 (-6.67--20.93)^2 + (147.80-147.92)^2$	14.26	50.07	
		$^1 (-4.68--6.67)^2 + (147.80-147.80)^2$	1.99		
		$^1 (27.52--4.68)^2 + (147.49-147.80)^2$	32.20		
		$^1 (27.88-27.52)^2 + (146.80-147.49)^2$	0.78		
		$^1 (28.04-27.88)^2 + (146.71-146.80)^2$	0.18		
R1-36 460.00	f1	$^1 (-20.49--20.54)^2 + (147.77-147.77)^2$	0.05	49.41	
		$^1 (-18.88--20.49)^2 + (147.75-147.77)^2$	1.61		
		$^1 (-17.69--18.88)^2 + (147.76-147.75)^2$	1.19		
		$^1 (-16.05--17.69)^2 + (147.74-147.76)^2$	1.64		
A RIPORTARE ml			4.49		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 103				
BONIFICA RILEVATO							
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE		
RIPORTIO ml			4.49				
R1-37 480.00	f1	$^1 ((-14.79-16.05)^2 + (147.73-147.74)^2)$	1.26				
		$^1 ((-13.61-14.79)^2 + (147.72-147.73)^2)$	1.18				
		$^1 ((-13.25-13.61)^2 + (147.73-147.72)^2)$	0.36				
		$^1 ((-12.13-13.25)^2 + (147.72-147.73)^2)$	1.12				
		$^1 ((-10.99-12.13)^2 + (147.72-147.72)^2)$	1.14				
		$^1 ((-9.95-10.99)^2 + (147.72-147.72)^2)$	1.04				
		$^1 ((-9.37-9.95)^2 + (147.72-147.72)^2)$	0.58				
		$^1 ((-5.74-9.37)^2 + (147.71-147.72)^2)$	3.63				
		$^1 ((1.82-5.74)^2 + (147.67-147.71)^2)$	7.56				
		$^1 ((2.34-1.82)^2 + (147.69-147.67)^2)$	0.52				
		$^1 ((2.85-2.34)^2 + (147.70-147.69)^2)$	0.51				
		$^1 ((3.42-2.85)^2 + (147.72-147.70)^2)$	0.57				
		$^1 ((4.03-3.42)^2 + (147.75-147.72)^2)$	0.61				
		$^1 ((4.69-4.03)^2 + (147.73-147.75)^2)$	0.66				
		$^1 ((12.12-4.69)^2 + (147.65-147.73)^2)$	7.43				
		$^1 ((18.15-12.12)^2 + (147.15-147.65)^2)$	6.05				
		$^1 ((19.76-18.15)^2 + (147.06-147.15)^2)$	1.61				
$^1 ((22.15-19.76)^2 + (146.94-147.06)^2)$	2.39						
$^1 ((25.16-22.15)^2 + (146.80-146.94)^2)$	3.01						
$^1 ((25.70-25.16)^2 + (146.95-146.80)^2)$	0.56						
$^1 ((26.89-25.70)^2 + (147.44-146.95)^2)$	1.29						
$^1 ((27.94-26.89)^2 + (146.63-147.44)^2)$	1.33						
$^1 ((28.00-27.94)^2 + (146.57-146.63)^2)$	0.08						
				48.98			
R1-38 500.95	f1	$^1 ((5.80-18.29)^2 + (147.30-147.63)^2)$	24.09				
		$^1 ((6.75-5.80)^2 + (146.80-147.30)^2)$	1.07				
		$^1 ((17.45-6.75)^2 + (146.06-146.80)^2)$	10.73				
		$^1 ((-1.35-14.96)^2 + (147.04-147.33)^2)$	13.61				
		$^1 ((-0.64-1.35)^2 + (146.80-147.04)^2)$	0.75				
		$^1 ((3.08-0.64)^2 + (146.28-146.80)^2)$	3.76				
		$^1 ((5.52-3.08)^2 + (146.19-146.28)^2)$	2.44				
		$^1 ((8.42-5.52)^2 + (146.80-146.19)^2)$	2.96				
		$^1 ((10.06-8.42)^2 + (147.80-146.80)^2)$	1.92				
		$^1 ((15.14-10.06)^2 + (148.66-147.80)^2)$	5.15				
$^1 ((15.16-15.14)^2 + (151.62-148.66)^2)$	2.96						
				35.89			
R1-39 520.00	f1	$^1 ((-10.86-10.94)^2 + (147.20-147.20)^2)$	0.08				
		$^1 ((-10.02-10.86)^2 + (147.21-147.20)^2)$	0.84				
		$^1 ((-8.85-10.02)^2 + (147.25-147.21)^2)$	1.17				
		$^1 ((-7.93-8.85)^2 + (147.26-147.25)^2)$	0.92				
		$^1 ((-6.92-7.93)^2 + (147.28-147.26)^2)$	1.01				
		$^1 ((-5.71-6.92)^2 + (147.30-147.28)^2)$	1.21				
		$^1 ((-4.96-5.71)^2 + (147.32-147.30)^2)$	0.75				
		$^1 ((-3.56-4.96)^2 + (147.31-147.32)^2)$	1.40				
		$^1 ((-3.14-3.56)^2 + (147.32-147.31)^2)$	0.42				
		$^1 ((-2.64-3.14)^2 + (147.29-147.32)^2)$	0.50				
		$^1 ((3.49-2.64)^2 + (147.12-147.29)^2)$	6.13				
		$^1 ((4.14-3.49)^2 + (147.10-147.12)^2)$	0.65				
						33.55	
		A RIPORTARE ml			15.08		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 104		
BONIFICA RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			15.08		
R1-39 520.00	f2	$^1 ((12.40-11.21)^2 + (151.09-151.09)^2)$ $^1 ((12.62-12.40)^2 + (151.09-151.09)^2)$	1.19 0.22	15.08	
R1-40 528.64	f1	$^1 ((-8.71-9.05)^2 + (147.55-147.54)^2)$ $^1 ((-7.60-8.71)^2 + (147.55-147.55)^2)$ $^1 ((-6.64-7.60)^2 + (147.57-147.55)^2)$ $^1 ((-5.69-6.64)^2 + (147.59-147.57)^2)$ $^1 ((-3.82-5.69)^2 + (147.28-147.59)^2)$ $^1 ((2.05-3.82)^2 + (147.15-147.28)^2)$ $^1 ((2.71-2.05)^2 + (147.17-147.15)^2)$	0.34 1.11 0.96 0.95 1.90 5.87 0.66	1.41	
R1-40 528.64	f2	$^1 ((10.70-9.40)^2 + (150.62-150.64)^2)$ $^1 ((12.18-10.70)^2 + (150.57-150.62)^2)$	1.30 1.48	11.79	
R1-41 532.63	f2	$^1 ((-8.18-8.24)^2 + (147.73-147.73)^2)$ $^1 ((-6.35-8.18)^2 + (147.73-147.73)^2)$ $^1 ((-6.10-6.35)^2 + (147.74-147.73)^2)$ $^1 ((-5.85-6.10)^2 + (147.75-147.74)^2)$ $^1 ((-3.23-5.85)^2 + (147.31-147.75)^2)$ $^1 ((-2.65-3.23)^2 + (147.29-147.31)^2)$ $^1 ((1.68-2.65)^2 + (147.29-147.29)^2)$ $^1 ((2.32-1.68)^2 + (147.26-147.29)^2)$	0.06 1.83 0.25 0.25 2.66 0.58 4.33 0.64	2.78	
R1-41	f3	$^1 ((11.81-8.40)^2 + (150.47-150.46)^2)$	3.41	10.60 0.00	
R1-42 540.00	f3	$^1 ((-6.31-6.83)^2 + (149.20-149.06)^2)$ $^1 ((-5.22-6.31)^2 + (149.17-149.20)^2)$	0.54 1.09	3.41	
R1-42 540.00	f1	$^1 ((8.34-7.08)^2 + (150.02-150.02)^2)$ $^1 ((11.84-8.34)^2 + (149.89-150.02)^2)$	1.26 3.50	1.63	
R1-42 540.00	f2	$^1 ((1.11-2.49)^2 + (147.60-147.48)^2)$ $^1 ((1.74-1.11)^2 + (147.45-147.60)^2)$	3.60 0.65	4.76	
R1-43 546.20	f1	$^1 ((-5.32-5.88)^2 + (149.80-149.80)^2)$ $^1 ((-3.02-5.32)^2 + (149.53-149.80)^2)$	0.56 2.32	4.25	
R1-43 546.20	f2	$^1 ((1.30-0.45)^2 + (148.04-148.07)^2)$ $^1 ((1.94-1.30)^2 + (147.89-148.04)^2)$	1.75 0.66	2.88	
R1-43 546.20	f3	$^1 ((7.58-6.04)^2 + (149.69-149.63)^2)$ $^1 ((11.63-7.58)^2 + (149.53-149.69)^2)$	1.54 4.05	2.41	
R1-44 546.21	f1	$^1 ((-5.32-8.28)^2 + (149.80-149.80)^2)$ $^1 ((-3.02-5.32)^2 + (149.53-149.80)^2)$	2.96 2.32	5.59	
R1-44	f2	$^1 ((1.30-0.44)^2 + (148.04-148.07)^2)$	1.74	5.28	
A RIPORTARE ml			1.74		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 105	
BONIFICA RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			1.74		
546.21		$^1 ((1.94-1.30)^2 + (147.89-148.04)^2)$	0.66		
R1-44	f3	$^1 ((7.58-6.04)^2 + (149.69-149.63)^2)$	1.54	2.40	
546.21		$^1 ((11.63-7.58)^2 + (149.53-149.69)^2)$	4.05		
R1-45	f1	$^1 ((3.87-3.32)^2 + (148.68-148.71)^2)$	0.55		
560.00		$^1 ((4.98-3.87)^2 + (148.80-148.68)^2)$	1.12		
		$^1 ((6.22-4.98)^2 + (148.93-148.80)^2)$	1.25		
		$^1 ((7.69-6.22)^2 + (148.93-148.93)^2)$	1.47		
		$^1 ((11.07-7.69)^2 + (148.79-148.93)^2)$	3.38		
R1-46	f1	$^1 ((8.34-7.86)^2 + (147.60-147.53)^2)$	0.49		
580.00		$^1 ((10.16-8.34)^2 + (147.72-147.60)^2)$	1.82		
R1-47	f1	$^1 ((8.78-8.31)^2 + (147.43-147.38)^2)$	0.47		
582.63		$^1 ((10.16-8.78)^2 + (147.52-147.43)^2)$	1.38		
R1-54	f1	$^1 ((7.67-7.00)^2 + (143.60-143.60)^2)$	0.67		
640.00		$^1 ((8.71-7.67)^2 + (143.80-143.60)^2)$	1.06		
		$^1 ((8.91-8.71)^2 + (143.84-143.80)^2)$	0.20		
R1-55	f2	$^1 ((8.30-7.24)^2 + (142.72-142.22)^2)$	1.17		
R1-56	f1	$^1 ((7.50-6.82)^2 + (142.49-142.50)^2)$	0.68		
659.15		$^1 ((8.26-7.50)^2 + (142.68-142.49)^2)$	0.78		
R1-58	f1	$^1 ((5.49-4.94)^2 + (142.39-142.42)^2)$	0.55		
680.00		$^1 ((5.63-5.49)^2 + (142.37-142.39)^2)$	0.14		
		$^1 ((5.72-5.63)^2 + (142.36-142.37)^2)$	0.09		
		$^1 ((5.87-5.72)^2 + (142.33-142.36)^2)$	0.15		
		$^1 ((6.41-5.87)^2 + (142.17-142.33)^2)$	0.56		
R1-59	f1	$^1 ((-0.09-3.70)^2 + (135.80-135.80)^2)$	3.61		
R1-59	f2	$^1 ((1.14-0.31)^2 + (136.80-136.80)^2)$	0.83		
694.82		$^1 ((3.46-1.14)^2 + (136.80-136.80)^2)$	2.32		
		$^1 ((3.92-3.46)^2 + (136.80-136.80)^2)$	0.46		
R1-60b	f1	$^1 ((-7.04-14.16)^2 + (134.92-135.64)^2)$	7.16		
704.83		$^1 ((-6.31-7.04)^2 + (135.02-134.92)^2)$	0.74		
		$^1 ((-5.02-6.31)^2 + (134.85-135.02)^2)$	1.30		
		$^1 ((0.01-5.02)^2 + (134.81-134.85)^2)$	5.03		
R1-60b	f2	$^1 ((3.27-0.65)^2 + (135.81-135.81)^2)$	2.62		
704.83		$^1 ((4.79-3.27)^2 + (135.81-135.81)^2)$	1.52		
		$^1 ((5.59-4.79)^2 + (135.81-135.81)^2)$	0.80		
R1-60b	f3	$^1 ((6.24-5.68)^2 + (140.03-140.03)^2)$	0.56		
A RIPORTARE ml			0.56		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 106	
BONIFICA RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml			0.56		
704.83		$^1 ((6.87-6.24)^2 + (140.06-140.03)^2)$	0.63		
R1-61	f1	$^1 ((1.02--8.77)^2 + (137.95-137.86)^2)$	9.79	1.19	
714.87		$^1 ((1.42-1.02)^2 + (137.96-137.95)^2)$	0.40		
R1-61	f2	$^1 ((4.74-4.66)^2 + (139.24-139.35)^2)$	0.14	10.19	
714.87		$^1 ((5.26-4.74)^2 + (139.28-139.24)^2)$	0.52		
		$^1 ((6.78-5.26)^2 + (139.35-139.28)^2)$	1.52		
R1-62	f2	$^1 ((-0.07--8.97)^2 + (137.49-137.34)^2)$	8.90	2.18	
720.00		$^1 ((0.34--0.07)^2 + (137.49-137.49)^2)$	0.41		
R1-62	f1	$^1 ((6.59-5.34)^2 + (139.06-139.00)^2)$	1.25	9.31	
R1-63	f2	$^1 ((-8.32--10.37)^2 + (134.80-134.94)^2)$	2.05	1.25	
740.00		$^1 ((-8.15--8.32)^2 + (134.79-134.80)^2)$	0.17		
		$^1 ((-8.04--8.15)^2 + (134.80-134.79)^2)$	0.11		
		$^1 ((-3.39--8.04)^2 + (135.31-134.80)^2)$	4.68		
		$^1 ((-2.99--3.39)^2 + (135.32-135.31)^2)$	0.40	7.41	
R1-63	f1	$^1 ((5.94-4.96)^2 + (137.83-137.78)^2)$	0.98	0.98	
R1-64	f1	$^1 ((-7.77--9.14)^2 + (134.09-134.19)^2)$	1.37		
760.00		$^1 ((-4.64--7.77)^2 + (134.02-134.09)^2)$	3.13		
		$^1 ((-4.03--4.64)^2 + (134.02-134.02)^2)$	0.61	5.11	
R1-65	f1	$^1 ((-5.73--6.33)^2 + (133.20-133.19)^2)$	0.60	0.60	
R1-66	f1	$^1 ((-6.48--7.09)^2 + (132.74-132.74)^2)$	0.61	0.61	
R1-67	f2	$^1 ((-8.58--9.77)^2 + (131.58-131.57)^2)$	1.19	2.00	
800.00		$^1 ((-7.77--8.58)^2 + (131.58-131.58)^2)$	0.81	0.00	
R1-68	f2	$^1 ((-8.93--9.51)^2 + (130.46-130.57)^2)$	0.59	1.39	
820.00		$^1 ((-8.13--8.93)^2 + (130.46-130.46)^2)$	0.80	0.00	
R1-69	f1	$^1 ((-9.88--10.06)^2 + (129.48-129.50)^2)$	0.18	0.00	
832.82		$^1 ((-9.07--9.88)^2 + (129.48-129.48)^2)$	0.81	0.99	
Il Direttore dei Lavori		L'Impresa			

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 107		
USURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R1-1 0.00	gl	$^1 ((6.25-0.00)^2 + (165.19-165.49)^2)$ $^1 ((6.35-6.25)^2 + (165.19-165.19)^2)$	6.26 0.10		
R1-2	gl	$^1 ((6.00-0.00)^2 + (165.60-166.02)^2)$	6.01	6.36	
R1-3 32.24	gl	$^1 ((6.00-0.00)^2 + (165.87-166.29)^2)$ $^1 ((6.10-6.00)^2 + (165.87-165.87)^2)$	6.01 0.10	6.01	
R1-4 32.25	gl	$^1 ((0.00-1.20)^2 + (166.29-166.30)^2)$ $^1 ((6.00-0.00)^2 + (165.87-166.29)^2)$ $^1 ((6.10-6.00)^2 + (165.87-165.87)^2)$	1.20 6.01 0.10	6.11	
R1-5 40.00	gl	$^1 ((-1.00-1.10)^2 + (166.54-166.55)^2)$ $^1 ((6.00-1.00)^2 + (166.05-166.54)^2)$ $^1 ((6.10-6.00)^2 + (166.04-166.05)^2)$	0.10 7.02 0.10	7.31	
R1-6 60.00	gl	$^1 ((-1.00-1.10)^2 + (167.12-167.13)^2)$ $^1 ((6.00-1.00)^2 + (166.63-167.12)^2)$	0.10 7.02	7.22	
R1-7	gl	$^1 ((6.00-1.25)^2 + (167.48-167.99)^2)$	7.27	7.12	
R1-8	gl	$^1 ((6.00-1.25)^2 + (167.71-168.21)^2)$	7.27	7.27	
R1-9	gl	$^1 ((6.00-1.25)^2 + (168.60-169.11)^2)$	7.27	7.27	
R1-10	gl	$^1 ((6.00-1.00)^2 + (169.60-170.09)^2)$	7.02	7.02	
R1-11	gl	$^1 ((6.00-4.80)^2 + (169.60-170.30)^2)$	10.82	10.82	
R1-12	gl	$^1 ((6.00-3.65)^2 + (169.96-170.64)^2)$	9.67	9.67	
R1-13	gl	$^1 ((6.00-0.71)^2 + (171.36-171.83)^2)$	6.73	6.73	
R1-14 148.60	gl	$^1 ((6.00-0.16)^2 + (171.92-172.35)^2)$ $^1 ((6.10-6.00)^2 + (171.91-171.92)^2)$	6.17 0.10	6.27	
R1-15	gl	$^1 ((5.99-5.28)^2 + (172.64-173.43)^2)$	11.30	11.30	
R1-16	gl	$^1 ((5.99-5.19)^2 + (172.72-173.51)^2)$	11.21	11.21	
R1-16b	gl	$^1 ((5.99-5.19)^2 + (172.72-173.51)^2)$	11.21	11.21	
R1-17	gl	$^1 ((6.00-4.50)^2 + (173.44-174.17)^2)$	10.53	10.53	
R1-18	gl	$^1 ((6.00-4.50)^2 + (173.78-174.51)^2)$	10.53	10.53	
R1-18b 190.85	gl	$^1 ((-4.50-4.60)^2 + (174.51-174.52)^2)$ $^1 ((6.00-4.50)^2 + (173.78-174.51)^2)$ $^1 ((6.10-6.00)^2 + (173.77-173.78)^2)$	0.10 10.53 0.10	10.73	
R1-19	gl	$^1 ((6.27-4.50)^2 + (173.96-174.71)^2)$	10.80		
A RIPORTARE ml			10.80		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 108	
USURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			10.80		
R1-20	g1	$^1 ((6.25-4.50)^2 + (174.11-174.86)^2)$	10.78	10.80	
R1-20b	g1	$^1 ((6.00-4.50)^2 + (174.18-174.92)^2)$	10.53	10.78	
220.00		$^1 ((6.10-6.00)^2 + (174.17-174.18)^2)$	0.10	10.63	
R1-21	g1	$^1 ((5.99-4.50)^2 + (174.05-174.79)^2)$	10.52	10.62	
240.00		$^1 ((6.09-5.99)^2 + (174.05-174.05)^2)$	0.10	10.62	
R1-22	g1	$^1 ((5.95-4.50)^2 + (173.59-174.32)^2)$	10.48	10.48	
R1-23	g1	$^1 ((4.71-4.50)^2 + (173.19-173.45)^2)$	9.21	9.21	
R1-23b	g1	$^1 ((4.50-4.50)^2 + (173.20-173.45)^2)$	9.00	9.00	
R1-24	g1	$^1 ((4.50-4.50)^2 + (173.10-173.33)^2)$	9.00	9.00	
R1-25	g1	$^1 ((4.50-4.50)^2 + (171.78-171.78)^2)$	9.00	9.00	
R1-26	g1	$^1 ((4.50-4.50)^2 + (170.52-170.52)^2)$	9.00	9.00	
R1-27	g1	$^1 ((4.50-4.50)^2 + (168.98-168.98)^2)$	9.00	9.00	
R1-28	g1	$^1 ((4.50-4.50)^2 + (168.90-168.90)^2)$	9.00	9.00	
R1-28b	g1	$^1 ((-4.50-4.60)^2 + (168.90-168.90)^2)$	0.10	9.00	
340.93		$^1 ((4.50-4.50)^2 + (168.90-168.90)^2)$	9.00	9.10	
R1-29	g1	$^1 ((-4.50-4.60)^2 + (167.45-167.44)^2)$	0.10	9.20	
360.00		$^1 ((4.50-4.50)^2 + (167.45-167.45)^2)$	9.00	9.20	
		$^1 ((4.60-4.50)^2 + (167.44-167.45)^2)$	0.10	9.20	
R1-30	g1	$^1 ((-4.50-4.60)^2 + (165.75-165.75)^2)$	0.10	9.20	
382.06		$^1 ((4.50-4.50)^2 + (165.75-165.75)^2)$	9.00	9.20	
		$^1 ((4.60-4.50)^2 + (165.75-165.75)^2)$	0.10	9.20	
R1-31	g1	$^1 ((-4.50-4.60)^2 + (164.38-164.37)^2)$	0.10	9.20	
400.00		$^1 ((4.50-4.50)^2 + (164.59-164.38)^2)$	9.00	9.20	
		$^1 ((4.60-4.50)^2 + (164.60-164.59)^2)$	0.10	9.20	
R1-32	g1	$^1 ((-4.50-4.60)^2 + (163.52-163.51)^2)$	0.10	9.21	
409.76		$^1 ((4.50-4.50)^2 + (163.96-163.52)^2)$	9.01	9.21	
		$^1 ((4.60-4.50)^2 + (163.97-163.96)^2)$	0.10	9.21	
R1-33	g1	$^1 ((-4.50-4.60)^2 + (162.73-162.73)^2)$	0.10	9.21	
420.00		$^1 ((4.50-4.50)^2 + (163.18-162.73)^2)$	9.01	9.21	
		$^1 ((4.60-4.50)^2 + (163.18-163.18)^2)$	0.10	9.21	
R1-34	g1	$^1 ((-4.50-4.60)^2 + (161.20-161.19)^2)$	0.10	9.21	
A RIPORTARE ml			0.10		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 109	
USURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			0.10		
440.00		$^1 ((4.50-4.50)^2 + (161.64-161.20)^2)$ $^1 ((4.60-4.50)^2 + (161.65-161.64)^2)$	9.01 0.10	9.21	
R1-35 455.35	gl	$^1 ((-4.50-4.60)^2 + (160.02-160.01)^2)$ $^1 ((4.50-4.50)^2 + (160.46-160.02)^2)$ $^1 ((4.60-4.50)^2 + (160.47-160.46)^2)$	0.10 9.01 0.10	9.21	
R1-36 460.00	gl	$^1 ((-4.50-4.60)^2 + (159.66-159.66)^2)$ $^1 ((4.50-4.50)^2 + (160.11-159.66)^2)$ $^1 ((4.60-4.50)^2 + (160.11-160.11)^2)$	0.10 9.01 0.10	9.21	
R1-37 480.00	gl	$^1 ((-4.50-4.60)^2 + (158.13-158.12)^2)$ $^1 ((4.50-4.50)^2 + (158.57-158.13)^2)$ $^1 ((4.60-4.50)^2 + (158.58-158.57)^2)$	0.10 9.01 0.10	9.21	
R1-38 500.95	gl	$^1 ((-4.50-4.60)^2 + (156.52-156.51)^2)$ $^1 ((4.50-4.50)^2 + (156.96-156.52)^2)$ $^1 ((4.60-4.50)^2 + (156.97-156.96)^2)$	0.10 9.01 0.10	9.21	
R1-39 520.00	gl	$^1 ((-4.50-4.60)^2 + (155.17-155.16)^2)$ $^1 ((4.50-4.50)^2 + (155.27-155.17)^2)$ $^1 ((4.60-4.50)^2 + (155.27-155.27)^2)$	0.10 9.00 0.10	9.20	
R1-40 528.64	gl	$^1 ((-4.50-4.60)^2 + (154.50-154.50)^2)$ $^1 ((4.50-4.50)^2 + (154.50-154.50)^2)$ $^1 ((4.60-4.50)^2 + (154.50-154.50)^2)$	0.10 9.00 0.10	9.20	
R1-41 532.63	gl	$^1 ((-4.50-4.60)^2 + (154.20-154.20)^2)$ $^1 ((4.50-4.50)^2 + (154.20-154.20)^2)$ $^1 ((4.60-4.50)^2 + (154.20-154.20)^2)$	0.10 9.00 0.10	9.20	
R1-42 540.00	gl	$^1 ((-4.50-4.60)^2 + (153.67-153.67)^2)$ $^1 ((4.50-4.50)^2 + (153.63-153.67)^2)$ $^1 ((4.60-4.50)^2 + (153.63-153.63)^2)$	0.10 9.00 0.10	9.20	
R1-43 546.20	gl	$^1 ((4.50-5.88)^2 + (153.16-153.22)^2)$ $^1 ((4.60-4.50)^2 + (153.15-153.16)^2)$	10.38 0.10	10.48	
R1-44 546.21	gl	$^1 ((-5.88-8.28)^2 + (153.22-153.27)^2)$ $^1 ((4.50-5.88)^2 + (153.16-153.22)^2)$ $^1 ((4.60-4.50)^2 + (153.15-153.16)^2)$	2.40 10.38 0.10	12.88	
R1-45 560.00	gl	$^1 ((4.50-4.89)^2 + (152.10-152.25)^2)$ $^1 ((4.60-4.50)^2 + (152.09-152.10)^2)$	9.39 0.10	9.49	
R1-46 580.00	gl	$^1 ((4.50-3.73)^2 + (150.51-150.81)^2)$ $^1 ((4.60-4.50)^2 + (150.50-150.51)^2)$	8.24 0.10	8.34	
R1-47	gl	$^1 ((4.50-3.64)^2 + (150.30-150.61)^2)$	8.15		
A RIPORTARE ml			8.15		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 110	
USURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			8.15		
582.63		$^1 ((4.60-4.50)^2 + (150.30-150.30)^2)$	0.10	8.25	
R1-48	g1	$^1 ((4.50-3.50)^2 + (149.32-149.62)^2)$	8.01		
595.46		$^1 ((4.60-4.50)^2 + (149.32-149.32)^2)$	0.10	8.11	
R1-49	g1	$^1 ((4.50-3.50)^2 + (148.97-149.27)^2)$	8.01		
600.00		$^1 ((4.60-4.50)^2 + (148.97-148.97)^2)$	0.10	8.11	
R1-50	g1	$^1 ((4.50-3.50)^2 + (148.33-148.63)^2)$	8.01		
608.29		$^1 ((4.60-4.50)^2 + (148.33-148.33)^2)$	0.10	8.11	
R1-51	g1	$^1 ((4.50-3.50)^2 + (147.86-148.09)^2)$	8.00		
614.99		$^1 ((4.60-4.50)^2 + (147.85-147.86)^2)$	0.10	8.10	
R1-52	g1	$^1 ((4.50-8.99)^2 + (147.86-148.25)^2)$	13.50		
615.00		$^1 ((4.60-4.50)^2 + (147.85-147.86)^2)$	0.10	13.60	
R1-53	g1	$^1 ((4.50-8.98)^2 + (147.49-147.81)^2)$	13.48		
620.00		$^1 ((4.60-4.50)^2 + (147.49-147.49)^2)$	0.10	13.58	
R1-54	g1	$^1 ((4.50-8.60)^2 + (145.90-146.00)^2)$	13.10		
640.00		$^1 ((4.60-4.50)^2 + (145.90-145.90)^2)$	0.10	13.20	
R1-55	g1	$^1 ((4.50-7.48)^2 + (144.44-144.37)^2)$	11.98		
658.29		$^1 ((4.60-4.50)^2 + (144.44-144.44)^2)$	0.10	12.08	
R1-56	g1	$^1 ((4.50-7.42)^2 + (144.37-144.30)^2)$	11.92		
659.15		$^1 ((4.60-4.50)^2 + (144.37-144.37)^2)$	0.10	12.02	
R1-57	g1	$^1 ((4.50-7.37)^2 + (144.31-144.23)^2)$	11.87		
660.00		$^1 ((4.60-4.50)^2 + (144.31-144.31)^2)$	0.10	11.97	
R1-58	g1	$^1 ((4.50-5.90)^2 + (142.81-142.67)^2)$	10.40		
680.00		$^1 ((4.60-4.50)^2 + (142.81-142.81)^2)$	0.10	10.50	
R1-59	g1	$^1 ((-4.50-4.60)^2 + (141.52-141.52)^2)$	0.10		
694.82		$^1 ((4.50-4.50)^2 + (141.70-141.52)^2)$	9.00		
		$^1 ((4.60-4.50)^2 + (141.70-141.70)^2)$	0.10	9.20	
R1-59b	g1	$^1 ((4.50-4.50)^2 + (141.70-141.52)^2)$	9.00		
				9.00	
R1-60	g1	$^1 ((4.50-4.50)^2 + (140.95-140.71)^2)$	9.00		
				9.00	
R1-60b	g1	$^1 ((-4.50-4.60)^2 + (140.71-140.71)^2)$	0.10		
704.83		$^1 ((4.50-4.50)^2 + (140.95-140.71)^2)$	9.00		
		$^1 ((4.60-4.50)^2 + (140.95-140.95)^2)$	0.10	9.20	
R1-61	g1	$^1 ((-4.50-4.60)^2 + (139.86-139.85)^2)$	0.10		
714.87		$^1 ((4.50-4.50)^2 + (140.20-139.86)^2)$	9.01		
A RIPORTARE ml			9.11		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 111	
USURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml			9.11		
R1-62 720.00	gl	$^1 ((4.60-4.50)^2 + (140.20-140.20)^2)$ $^1 ((-4.50-4.60)^2 + (139.45-139.44)^2)$ $^1 ((4.50-4.50)^2 + (139.79-139.45)^2)$ $^1 ((4.60-4.50)^2 + (139.79-139.79)^2)$	0.10 0.10 9.01 0.10	9.21	
R1-63 740.00	gl	$^1 ((-4.50-4.60)^2 + (137.85-137.84)^2)$ $^1 ((4.50-4.50)^2 + (138.19-137.85)^2)$ $^1 ((4.60-4.50)^2 + (138.19-138.19)^2)$	0.10 9.01 0.10	9.21	
R1-64 760.00	gl	$^1 ((-4.50-4.60)^2 + (136.39-136.39)^2)$ $^1 ((4.50-4.50)^2 + (136.73-136.39)^2)$	0.10 9.01	9.11	
R1-65 773.85	gl	$^1 ((-4.50-4.60)^2 + (135.58-135.57)^2)$ $^1 ((4.50-4.50)^2 + (135.92-135.58)^2)$	0.10 9.01	9.11	
R1-66 780.00	gl	$^1 ((-4.50-4.60)^2 + (135.24-135.24)^2)$ $^1 ((4.50-4.50)^2 + (135.58-135.24)^2)$	0.10 9.01	9.11	
R1-67 800.00	gl	$^1 ((-4.50-4.60)^2 + (134.14-134.13)^2)$ $^1 ((4.50-4.50)^2 + (134.48-134.14)^2)$	0.10 9.01	9.11	
R1-68 820.00	gl	$^1 ((-4.50-4.60)^2 + (132.98-132.98)^2)$ $^1 ((4.50-4.50)^2 + (133.32-132.98)^2)$	0.10 9.01	9.11	
R1-69 832.82	gl	$^1 ((-4.50-4.60)^2 + (132.22-132.22)^2)$ $^1 ((4.50-4.50)^2 + (132.56-132.22)^2)$	0.10 9.01	9.11	
R1-70 840.00	gl	$^1 ((-4.50-4.60)^2 + (131.80-131.79)^2)$ $^1 ((4.50-4.50)^2 + (132.13-131.80)^2)$	0.10 9.01	9.11	
R1-71 860.00	gl	$^1 ((-4.50-4.60)^2 + (130.59-130.59)^2)$ $^1 ((4.50-4.50)^2 + (130.89-130.59)^2)$ $^1 ((4.60-4.50)^2 + (130.89-130.89)^2)$	0.10 9.00 0.10	9.20	
R1-72 879.15	gl	$^1 ((-4.50-4.60)^2 + (129.40-129.40)^2)$ $^1 ((4.50-4.50)^2 + (129.67-129.40)^2)$ $^1 ((4.60-4.50)^2 + (129.68-129.67)^2)$	0.10 9.00 0.10	9.20	
Il Direttore dei Lavori		L'Impresa			

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 112		
BINDER					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R1-1 0.00	h1	$^1 ((6.25-0.00)^2 + (165.14-165.44)^2)$ $^1 ((6.45-6.25)^2 + (165.13-165.14)^2)$	6.26 0.20		
R1-2	h1	$^1 ((6.00-0.00)^2 + (165.55-165.97)^2)$	6.01	6.46	
R1-3 32.24	h1	$^1 ((6.00-0.00)^2 + (165.82-166.24)^2)$ $^1 ((6.20-6.00)^2 + (165.81-165.82)^2)$	6.01 0.20	6.01	
R1-4 32.25	h1	$^1 ((0.00-1.20)^2 + (166.24-166.24)^2)$ $^1 ((6.00-0.00)^2 + (165.82-166.24)^2)$ $^1 ((6.20-6.00)^2 + (165.81-165.82)^2)$	1.20 6.01 0.20	6.21	
R1-5 40.00	h1	$^1 ((-1.00-1.20)^2 + (166.49-166.50)^2)$ $^1 ((6.00-1.00)^2 + (166.00-166.49)^2)$ $^1 ((6.20-6.00)^2 + (165.98-166.00)^2)$	0.20 7.02 0.20	7.41	
R1-6 60.00	h1	$^1 ((-1.00-1.20)^2 + (167.07-167.09)^2)$ $^1 ((6.00-1.00)^2 + (166.58-167.07)^2)$	0.20 7.02	7.42	
R1-7	h1	$^1 ((6.00-1.29)^2 + (167.43-167.94)^2)$	7.31	7.22	
R1-8	h1	$^1 ((6.00-1.29)^2 + (167.66-168.17)^2)$	7.31	7.31	
R1-9	h1	$^1 ((6.00-1.29)^2 + (168.55-169.06)^2)$	7.31	7.31	
R1-10	h1	$^1 ((6.00-1.00)^2 + (169.55-170.04)^2)$	7.02	7.02	
R1-11	h1	$^1 ((6.00-4.80)^2 + (169.55-170.25)^2)$	10.82	10.82	
R1-12	h1	$^1 ((6.00-3.65)^2 + (169.91-170.59)^2)$	9.67	9.67	
R1-13	h1	$^1 ((6.00-0.71)^2 + (171.31-171.78)^2)$	6.73	6.73	
R1-14 148.60	h1	$^1 ((6.00-0.16)^2 + (171.87-172.30)^2)$ $^1 ((6.20-6.00)^2 + (171.86-171.87)^2)$	6.17 0.20	6.37	
R1-15	h1	$^1 ((5.99-5.28)^2 + (172.59-173.38)^2)$	11.30	11.30	
R1-16	h1	$^1 ((5.99-5.19)^2 + (172.67-173.46)^2)$	11.21	11.21	
R1-16b	h1	$^1 ((5.99-5.19)^2 + (172.67-173.46)^2)$	11.21	11.21	
R1-17	h1	$^1 ((6.00-4.50)^2 + (173.39-174.12)^2)$	10.53	10.53	
R1-18	h1	$^1 ((6.00-4.50)^2 + (173.73-174.46)^2)$	10.53	10.53	
R1-18b 190.85	h1	$^1 ((-4.50-4.70)^2 + (174.46-174.48)^2)$ $^1 ((6.00-4.50)^2 + (173.73-174.46)^2)$ $^1 ((6.20-6.00)^2 + (173.71-173.73)^2)$	0.20 10.53 0.20	10.93	
R1-19	h1	$^1 ((6.33-4.50)^2 + (173.90-174.66)^2)$	10.86		
A RIPORTARE ml			10.86		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 113	
BINDER					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			10.86		
R1-20	h1	$^1 ((6.31-4.50)^2 + (174.06-174.81)^2)$	10.84	10.86	
R1-20b	h1	$^1 ((6.00-4.50)^2 + (174.13-174.87)^2)$	10.53	10.84	
220.00		$^1 ((6.20-6.00)^2 + (174.12-174.13)^2)$	0.20		
R1-21	h1	$^1 ((5.99-4.50)^2 + (174.00-174.74)^2)$	10.52	10.73	
240.00		$^1 ((6.19-5.99)^2 + (173.99-174.00)^2)$	0.20		
R1-22	h1	$^1 ((5.95-4.50)^2 + (173.54-174.27)^2)$	10.48	10.72	
R1-23	h1	$^1 ((4.71-4.50)^2 + (173.14-173.40)^2)$	9.21	10.48	
R1-23b	h1	$^1 ((4.50-4.50)^2 + (173.15-173.40)^2)$	9.00	9.21	
R1-24	h1	$^1 ((4.50-4.50)^2 + (173.05-173.28)^2)$	9.00	9.00	
R1-25	h1	$^1 ((4.50-4.50)^2 + (171.73-171.73)^2)$	9.00	9.00	
R1-26	h1	$^1 ((4.50-4.50)^2 + (170.47-170.47)^2)$	9.00	9.00	
R1-27	h1	$^1 ((4.50-4.50)^2 + (168.93-168.93)^2)$	9.00	9.00	
R1-28	h1	$^1 ((4.50-4.50)^2 + (168.85-168.85)^2)$	9.00	9.00	
R1-28b	h1	$^1 ((-4.50-4.70)^2 + (168.85-168.85)^2)$	0.20	9.20	
340.93		$^1 ((4.50-4.50)^2 + (168.85-168.85)^2)$	9.00		
R1-29	h1	$^1 ((-4.50-4.70)^2 + (167.40-167.39)^2)$	0.20	9.40	
360.00		$^1 ((4.50-4.50)^2 + (167.40-167.40)^2)$	9.00		
		$^1 ((4.70-4.50)^2 + (167.39-167.40)^2)$	0.20		
R1-30	h1	$^1 ((-4.50-4.70)^2 + (165.70-165.70)^2)$	0.20	9.40	
382.06		$^1 ((4.50-4.50)^2 + (165.70-165.70)^2)$	9.00		
		$^1 ((4.70-4.50)^2 + (165.70-165.70)^2)$	0.20		
R1-31	h1	$^1 ((-4.50-4.70)^2 + (164.33-164.32)^2)$	0.20	9.40	
400.00		$^1 ((4.50-4.50)^2 + (164.54-164.33)^2)$	9.00		
		$^1 ((4.70-4.50)^2 + (164.55-164.54)^2)$	0.20		
R1-32	h1	$^1 ((-4.50-4.70)^2 + (163.47-163.46)^2)$	0.20	9.41	
409.76		$^1 ((4.50-4.50)^2 + (163.91-163.47)^2)$	9.01		
		$^1 ((4.70-4.50)^2 + (163.92-163.91)^2)$	0.20		
R1-33	h1	$^1 ((-4.50-4.70)^2 + (162.68-162.67)^2)$	0.20	9.41	
420.00		$^1 ((4.50-4.50)^2 + (163.13-162.68)^2)$	9.01		
		$^1 ((4.70-4.50)^2 + (163.14-163.13)^2)$	0.20		
R1-34	h1	$^1 ((-4.50-4.70)^2 + (161.15-161.14)^2)$	0.20		
A RIPORTARE ml			0.20		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 114		
BINDER					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			0.20		
440.00		$^1 ((4.50-4.50)^2 + (161.59-161.15)^2)$ $^1 ((4.70-4.50)^2 + (161.60-161.59)^2)$	9.01 0.20	9.41	
R1-35 455.35	hl	$^1 ((-4.50-4.70)^2 + (159.97-159.96)^2)$ $^1 ((4.50-4.50)^2 + (160.41-159.97)^2)$ $^1 ((4.70-4.50)^2 + (160.42-160.41)^2)$	0.20 9.01 0.20	9.41	
R1-36 460.00	hl	$^1 ((-4.50-4.70)^2 + (159.61-159.60)^2)$ $^1 ((4.50-4.50)^2 + (160.06-159.61)^2)$ $^1 ((4.70-4.50)^2 + (160.07-160.06)^2)$	0.20 9.01 0.20	9.41	
R1-37 480.00	hl	$^1 ((-4.50-4.70)^2 + (158.08-158.07)^2)$ $^1 ((4.50-4.50)^2 + (158.52-158.08)^2)$ $^1 ((4.70-4.50)^2 + (158.53-158.52)^2)$	0.20 9.01 0.20	9.41	
R1-38 500.95	hl	$^1 ((-4.50-4.70)^2 + (156.47-156.46)^2)$ $^1 ((4.50-4.50)^2 + (156.91-156.47)^2)$ $^1 ((4.70-4.50)^2 + (156.92-156.91)^2)$	0.20 9.01 0.20	9.41	
R1-39 520.00	hl	$^1 ((-4.50-4.70)^2 + (155.12-155.11)^2)$ $^1 ((4.50-4.50)^2 + (155.22-155.12)^2)$ $^1 ((4.70-4.50)^2 + (155.22-155.22)^2)$	0.20 9.00 0.20	9.40	
R1-40 528.64	hl	$^1 ((-4.50-4.70)^2 + (154.45-154.45)^2)$ $^1 ((4.50-4.50)^2 + (154.45-154.45)^2)$ $^1 ((4.70-4.50)^2 + (154.45-154.45)^2)$	0.20 9.00 0.20	9.40	
R1-41 532.63	hl	$^1 ((-4.50-4.70)^2 + (154.15-154.14)^2)$ $^1 ((4.50-4.50)^2 + (154.15-154.15)^2)$ $^1 ((4.70-4.50)^2 + (154.14-154.15)^2)$	0.20 9.00 0.20	9.40	
R1-42 540.00	hl	$^1 ((-4.50-4.70)^2 + (153.62-153.62)^2)$ $^1 ((4.50-4.50)^2 + (153.58-153.62)^2)$ $^1 ((4.70-4.50)^2 + (153.58-153.58)^2)$	0.20 9.00 0.20	9.40	
R1-43 546.20	hl	$^1 ((4.50-5.88)^2 + (153.11-153.17)^2)$ $^1 ((4.70-4.50)^2 + (153.10-153.11)^2)$	10.38 0.20	10.58	
R1-44 546.21	hl	$^1 ((-5.88-8.28)^2 + (153.17-153.21)^2)$ $^1 ((4.50-5.88)^2 + (153.11-153.17)^2)$ $^1 ((4.70-4.50)^2 + (153.10-153.11)^2)$	2.40 10.38 0.20	12.98	
R1-45 560.00	hl	$^1 ((4.50-4.89)^2 + (152.05-152.20)^2)$ $^1 ((4.70-4.50)^2 + (152.04-152.05)^2)$	9.39 0.20	9.59	
R1-46 580.00	hl	$^1 ((4.50-3.73)^2 + (150.46-150.76)^2)$ $^1 ((4.70-4.50)^2 + (150.45-150.46)^2)$	8.24 0.20	8.44	
R1-47	hl	$^1 ((4.50-3.64)^2 + (150.25-150.56)^2)$	8.15		
A RIPORTARE ml			8.15		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 115	
BINDER					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			8.15		
582.63		$^1 ((4.70-4.50)^2 + (150.25-150.25)^2)$	0.20	8.35	
R1-48	h1	$^1 ((4.50-3.50)^2 + (149.27-149.57)^2)$	8.01		
595.46		$^1 ((4.70-4.50)^2 + (149.26-149.27)^2)$	0.20	8.21	
R1-49	h1	$^1 ((4.50-3.50)^2 + (148.92-149.22)^2)$	8.01		
600.00		$^1 ((4.70-4.50)^2 + (148.91-148.92)^2)$	0.20	8.21	
R1-50	h1	$^1 ((4.50-3.50)^2 + (148.28-148.58)^2)$	8.01		
608.29		$^1 ((4.70-4.50)^2 + (148.28-148.28)^2)$	0.20	8.21	
R1-51	h1	$^1 ((4.50-3.50)^2 + (147.81-148.04)^2)$	8.00		
614.99		$^1 ((4.70-4.50)^2 + (147.80-147.81)^2)$	0.20	8.20	
R1-52	h1	$^1 ((4.50-8.99)^2 + (147.81-148.20)^2)$	13.50		
615.00		$^1 ((4.70-4.50)^2 + (147.80-147.81)^2)$	0.20	13.70	
R1-53	h1	$^1 ((4.50-8.98)^2 + (147.44-147.76)^2)$	13.48		
620.00		$^1 ((4.70-4.50)^2 + (147.44-147.44)^2)$	0.20	13.68	
R1-54	h1	$^1 ((4.50-8.60)^2 + (145.85-145.95)^2)$	13.10		
640.00		$^1 ((4.70-4.50)^2 + (145.85-145.85)^2)$	0.20	13.30	
R1-55	h1	$^1 ((4.50-7.48)^2 + (144.39-144.32)^2)$	11.98		
658.29		$^1 ((4.70-4.50)^2 + (144.39-144.39)^2)$	0.20	12.18	
R1-56	h1	$^1 ((4.50-7.42)^2 + (144.32-144.25)^2)$	11.92		
659.15		$^1 ((4.70-4.50)^2 + (144.32-144.32)^2)$	0.20	12.12	
R1-57	h1	$^1 ((4.50-7.37)^2 + (144.26-144.18)^2)$	11.87		
660.00		$^1 ((4.70-4.50)^2 + (144.25-144.26)^2)$	0.20	12.07	
R1-58	h1	$^1 ((4.50-5.90)^2 + (142.76-142.62)^2)$	10.40		
680.00		$^1 ((4.70-4.50)^2 + (142.76-142.76)^2)$	0.20	10.60	
R1-59	h1	$^1 ((-4.50-4.70)^2 + (141.47-141.46)^2)$	0.20		
694.82		$^1 ((4.50-4.50)^2 + (141.65-141.47)^2)$	9.00		
		$^1 ((4.70-4.50)^2 + (141.65-141.65)^2)$	0.20	9.40	
R1-59b	h1	$^1 ((4.50-4.50)^2 + (141.65-141.47)^2)$	9.00		
				9.00	
R1-60	h1	$^1 ((4.50-4.50)^2 + (140.90-140.66)^2)$	9.00		
				9.00	
R1-60b	h1	$^1 ((-4.50-4.70)^2 + (140.66-140.66)^2)$	0.20		
704.83		$^1 ((4.50-4.50)^2 + (140.90-140.66)^2)$	9.00		
		$^1 ((4.70-4.50)^2 + (140.90-140.90)^2)$	0.20	9.40	
R1-61	h1	$^1 ((-4.50-4.70)^2 + (139.81-139.80)^2)$	0.20		
714.87		$^1 ((4.50-4.50)^2 + (140.15-139.81)^2)$	9.01		
A RIPORTARE ml			9.21		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 116	
BINDER					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			9.21		
R1-62 720.00	h1	$^1 ((4.70-4.50)^2 + (140.15-140.15)^2)$ $^1 ((-4.50-4.70)^2 + (139.40-139.39)^2)$ $^1 ((4.50-4.50)^2 + (139.74-139.40)^2)$ $^1 ((4.70-4.50)^2 + (139.74-139.74)^2)$	0.20 0.20 9.01 0.20	9.41 9.41	
R1-63 740.00	h1	$^1 ((-4.50-4.70)^2 + (137.80-137.79)^2)$ $^1 ((4.50-4.50)^2 + (138.14-137.80)^2)$ $^1 ((4.70-4.50)^2 + (138.14-138.14)^2)$	0.20 9.01 0.20	9.41 9.41	
R1-64 760.00	h1	$^1 ((-4.50-4.70)^2 + (136.34-136.33)^2)$ $^1 ((4.50-4.50)^2 + (136.68-136.34)^2)$	0.20 9.01	9.41 9.21	
R1-65 773.85	h1	$^1 ((-4.50-4.70)^2 + (135.53-135.52)^2)$ $^1 ((4.50-4.50)^2 + (135.87-135.53)^2)$	0.20 9.01	9.21 9.21	
R1-66 780.00	h1	$^1 ((-4.50-4.70)^2 + (135.19-135.18)^2)$ $^1 ((4.50-4.50)^2 + (135.53-135.19)^2)$	0.20 9.01	9.21 9.21	
R1-67 800.00	h1	$^1 ((-4.50-4.70)^2 + (134.09-134.08)^2)$ $^1 ((4.50-4.50)^2 + (134.43-134.09)^2)$	0.20 9.01	9.21 9.21	
R1-68 820.00	h1	$^1 ((-4.50-4.70)^2 + (132.93-132.92)^2)$ $^1 ((4.50-4.50)^2 + (133.27-132.93)^2)$	0.20 9.01	9.21 9.21	
R1-69 832.82	h1	$^1 ((-4.50-4.70)^2 + (132.17-132.17)^2)$ $^1 ((4.50-4.50)^2 + (132.51-132.17)^2)$	0.20 9.01	9.21 9.21	
R1-70 840.00	h1	$^1 ((-4.50-4.70)^2 + (131.75-131.74)^2)$ $^1 ((4.50-4.50)^2 + (132.08-131.75)^2)$	0.20 9.01	9.21 9.21	
R1-71 860.00	h1	$^1 ((-4.50-4.70)^2 + (130.54-130.53)^2)$ $^1 ((4.50-4.50)^2 + (130.84-130.54)^2)$ $^1 ((4.70-4.50)^2 + (130.85-130.84)^2)$	0.20 9.00 0.20	9.40 9.40	
R1-72 879.15	h1	$^1 ((-4.50-4.70)^2 + (129.35-129.35)^2)$ $^1 ((4.50-4.50)^2 + (129.62-129.35)^2)$ $^1 ((4.70-4.50)^2 + (129.63-129.62)^2)$	0.20 9.00 0.20	9.40 9.40	
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TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 117		
BASE					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R1-1 0.00	i1	$^1 ((6.25-0.00)^2 + (164.99-165.29)^2)$ $^1 ((6.71-6.25)^2 + (164.97-164.99)^2)$	6.26 0.46	6.72	
R1-3 32.24	i1	$^1 ((6.00-0.00)^2 + (165.67-166.09)^2)$ $^1 ((6.47-6.00)^2 + (165.64-165.67)^2)$	6.01 0.47	6.48	
R1-4 32.25	i1	$^1 ((0.00-1.20)^2 + (166.09-166.09)^2)$ $^1 ((6.00-0.00)^2 + (165.67-166.09)^2)$ $^1 ((6.47-6.00)^2 + (165.64-165.67)^2)$	1.20 6.01 0.47	7.68	
R1-5 40.00	i1	$^1 ((-1.00-1.43)^2 + (166.34-166.37)^2)$ $^1 ((6.00-1.00)^2 + (165.85-166.34)^2)$ $^1 ((6.47-6.00)^2 + (165.82-165.85)^2)$	0.43 7.02 0.47	7.92	
R1-6 60.00	i1	$^1 ((-1.00-1.43)^2 + (166.92-166.95)^2)$ $^1 ((6.00-1.00)^2 + (166.43-166.92)^2)$	0.43 7.02	7.45	
R1-7	i1	$^1 ((6.00-1.43)^2 + (167.28-167.80)^2)$	7.45	7.45	
R1-8	i1	$^1 ((6.00-1.43)^2 + (167.51-168.03)^2)$	7.45	7.45	
R1-9	i1	$^1 ((6.00-1.43)^2 + (168.40-168.92)^2)$	7.45	7.45	
R1-10	i1	$^1 ((6.00-1.00)^2 + (169.40-169.89)^2)$	7.02	7.02	
R1-11	i1	$^1 ((6.00-4.80)^2 + (169.40-170.10)^2)$	10.82	10.82	
R1-12	i1	$^1 ((6.00-3.65)^2 + (169.76-170.44)^2)$	9.67	9.67	
R1-13	i1	$^1 ((6.00-0.71)^2 + (171.16-171.63)^2)$	6.73	6.73	
R1-14 148.60	i1	$^1 ((6.00-0.16)^2 + (171.72-172.15)^2)$ $^1 ((6.47-6.00)^2 + (171.69-171.72)^2)$	6.17 0.47	6.64	
R1-15	i1	$^1 ((5.99-5.28)^2 + (172.44-173.23)^2)$	11.30	11.30	
R1-16	i1	$^1 ((5.99-5.19)^2 + (172.52-173.31)^2)$	11.21	11.21	
R1-18	i1	$^1 ((6.00-4.50)^2 + (173.58-174.31)^2)$	10.53	10.53	
R1-18b 190.85	i1	$^1 ((-4.50-4.93)^2 + (174.31-174.34)^2)$ $^1 ((6.00-4.50)^2 + (173.58-174.31)^2)$ $^1 ((6.47-6.00)^2 + (173.54-173.58)^2)$	0.43 10.53 0.47	11.43	
R1-19	i1	$^1 ((6.49-4.50)^2 + (173.74-174.51)^2)$	11.02	11.02	
R1-20	i1	$^1 ((6.47-4.50)^2 + (173.90-174.66)^2)$	11.00	11.00	
R1-20b 220.00	i1	$^1 ((6.00-4.50)^2 + (173.98-174.72)^2)$ $^1 ((6.47-6.00)^2 + (173.95-173.98)^2)$	10.53 0.47	11.00	
A RIPORTARE ml					

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 118	
BASE					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml					
R1-21 240.00	i1	$^1 ((5.99-4.50)^2 + (173.85-174.59)^2)$ $^1 ((6.45-5.99)^2 + (173.82-173.85)^2)$	10.52 0.46	10.98	
R1-22	i1	$^1 ((5.95-4.50)^2 + (173.39-174.12)^2)$	10.48	10.48	
R1-23	i1	$^1 ((4.71-4.50)^2 + (172.99-173.25)^2)$	9.21	9.21	
R1-28b 340.93	i1	$^1 ((-4.50-4.96)^2 + (168.70-168.69)^2)$ $^1 ((4.50-4.50)^2 + (168.70-168.70)^2)$	0.46 9.00	9.46	
R1-29 360.00	i1	$^1 ((-4.50-4.96)^2 + (167.25-167.24)^2)$ $^1 ((4.50-4.50)^2 + (167.25-167.25)^2)$ $^1 ((4.96-4.50)^2 + (167.24-167.25)^2)$	0.46 9.00 0.46	9.92	
R1-30 382.06	i1	$^1 ((-4.50-4.96)^2 + (165.55-165.54)^2)$ $^1 ((4.50-4.50)^2 + (165.55-165.55)^2)$ $^1 ((4.96-4.50)^2 + (165.54-165.55)^2)$	0.46 9.00 0.46	9.92	
R1-31 400.00	i1	$^1 ((-4.50-4.96)^2 + (164.18-164.17)^2)$ $^1 ((4.50-4.50)^2 + (164.39-164.18)^2)$ $^1 ((4.94-4.50)^2 + (164.40-164.39)^2)$	0.46 9.00 0.44	9.90	
R1-32 409.76	i1	$^1 ((-4.50-4.96)^2 + (163.32-163.29)^2)$ $^1 ((4.50-4.50)^2 + (163.76-163.32)^2)$ $^1 ((4.94-4.50)^2 + (163.79-163.76)^2)$	0.46 9.01 0.44	9.91	
R1-33 420.00	i1	$^1 ((-4.50-4.96)^2 + (162.53-162.51)^2)$ $^1 ((4.50-4.50)^2 + (162.98-162.53)^2)$ $^1 ((4.94-4.50)^2 + (163.00-162.98)^2)$	0.46 9.01 0.44	9.91	
R1-34 440.00	i1	$^1 ((-4.50-4.96)^2 + (161.00-160.97)^2)$ $^1 ((4.50-4.50)^2 + (161.44-161.00)^2)$ $^1 ((4.94-4.50)^2 + (161.46-161.44)^2)$	0.46 9.01 0.44	9.91	
R1-35 455.35	i1	$^1 ((-4.50-4.96)^2 + (159.82-159.80)^2)$ $^1 ((4.50-4.50)^2 + (160.26-159.82)^2)$ $^1 ((4.94-4.50)^2 + (160.29-160.26)^2)$	0.46 9.01 0.44	9.91	
R1-36 460.00	i1	$^1 ((-4.50-4.96)^2 + (159.46-159.44)^2)$ $^1 ((4.50-4.50)^2 + (159.91-159.46)^2)$ $^1 ((4.94-4.50)^2 + (159.93-159.91)^2)$	0.46 9.01 0.44	9.91	
R1-37 480.00	i1	$^1 ((-4.50-4.96)^2 + (157.93-157.90)^2)$ $^1 ((4.50-4.50)^2 + (158.37-157.93)^2)$ $^1 ((4.94-4.50)^2 + (158.39-158.37)^2)$	0.46 9.01 0.44	9.91	
R1-38 500.95	i1	$^1 ((-4.50-4.96)^2 + (156.32-156.30)^2)$ $^1 ((4.50-4.50)^2 + (156.76-156.32)^2)$ $^1 ((4.94-4.50)^2 + (156.79-156.76)^2)$	0.46 9.01 0.44		
A RIPORTARE ml			9.91		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 119	
BASE					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			9.91		
R1-39 520.00	i1	$^1 ((-4.50--4.96)^2 + (154.97-154.96)^2)$ $^1 ((4.50--4.50)^2 + (155.07-154.97)^2)$ $^1 ((4.95-4.50)^2 + (155.07-155.07)^2)$	0.46 9.00 0.45	9.91	
R1-40 528.64	i1	$^1 ((-4.50--4.96)^2 + (154.30-154.29)^2)$ $^1 ((4.50--4.50)^2 + (154.30-154.30)^2)$ $^1 ((4.96-4.50)^2 + (154.29-154.30)^2)$	0.46 9.00 0.46	9.91 9.92	
R1-41 532.63	i1	$^1 ((-4.50--4.96)^2 + (154.00-153.99)^2)$ $^1 ((4.50--4.50)^2 + (154.00-154.00)^2)$ $^1 ((4.96-4.50)^2 + (153.99-154.00)^2)$	0.46 9.00 0.46	9.92	
R1-42 540.00	i1	$^1 ((-4.50--4.95)^2 + (153.47-153.47)^2)$ $^1 ((4.50--4.50)^2 + (153.43-153.47)^2)$ $^1 ((4.96-4.50)^2 + (153.42-153.43)^2)$	0.45 9.00 0.46	9.92	
R1-43 546.20	i1	$^1 ((4.50--5.88)^2 + (152.96-153.02)^2)$ $^1 ((4.96-4.50)^2 + (152.94-152.96)^2)$	10.38 0.46	9.91 10.84	
R1-44 546.21	i1	$^1 ((-5.88--8.28)^2 + (153.02-153.07)^2)$ $^1 ((4.50--5.88)^2 + (152.96-153.02)^2)$ $^1 ((4.96-4.50)^2 + (152.94-152.96)^2)$	2.40 10.38 0.46	13.24	
R1-45 560.00	i1	$^1 ((4.50--4.89)^2 + (151.90-152.05)^2)$ $^1 ((4.96-4.50)^2 + (151.89-151.90)^2)$	9.39 0.46	9.85	
R1-46 580.00	i1	$^1 ((4.50--3.73)^2 + (150.31-150.61)^2)$ $^1 ((4.96-4.50)^2 + (150.29-150.31)^2)$	8.24 0.46	8.70	
R1-47 582.63	i1	$^1 ((4.50--3.64)^2 + (150.10-150.41)^2)$ $^1 ((4.96-4.50)^2 + (150.09-150.10)^2)$	8.15 0.46	8.61	
R1-48 595.46	i1	$^1 ((4.50--3.50)^2 + (149.12-149.42)^2)$ $^1 ((4.96-4.50)^2 + (149.10-149.12)^2)$	8.01 0.46	8.47	
R1-49 600.00	i1	$^1 ((4.50--3.50)^2 + (148.77-149.07)^2)$ $^1 ((4.96-4.50)^2 + (148.75-148.77)^2)$	8.01 0.46	8.47	
R1-50 608.29	i1	$^1 ((4.50--3.50)^2 + (148.13-148.43)^2)$ $^1 ((4.96-4.50)^2 + (148.12-148.13)^2)$	8.01 0.46	8.47	
R1-51 614.99	i1	$^1 ((4.50--3.50)^2 + (147.66-147.89)^2)$ $^1 ((4.96-4.50)^2 + (147.64-147.66)^2)$	8.00 0.46	8.46	
R1-52 615.00	i1	$^1 ((4.50--8.99)^2 + (147.66-148.05)^2)$ $^1 ((4.96-4.50)^2 + (147.64-147.66)^2)$	13.50 0.46	13.96	
R1-53	i1	$^1 ((4.50--8.98)^2 + (147.29-147.61)^2)$	13.48		
A RIPORTARE ml			13.48		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 120	
BASE					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			13.48		
620.00		$^1 ((4.96-4.50)^2 + (147.28-147.29)^2)$	0.46		
R1-54	i1	$^1 ((4.50-8.60)^2 + (145.70-145.80)^2)$	13.10	13.94	
640.00		$^1 ((4.96-4.50)^2 + (145.69-145.70)^2)$	0.46		
R1-55	i1	$^1 ((4.50-7.48)^2 + (144.24-144.17)^2)$	11.98	13.56	
658.29		$^1 ((4.96-4.50)^2 + (144.23-144.24)^2)$	0.46		
R1-56	i1	$^1 ((4.50-7.42)^2 + (144.17-144.10)^2)$	11.92	12.44	
659.15		$^1 ((4.96-4.50)^2 + (144.16-144.17)^2)$	0.46		
R1-57	i1	$^1 ((4.50-7.37)^2 + (144.11-144.03)^2)$	11.87	12.38	
660.00		$^1 ((4.96-4.50)^2 + (144.10-144.11)^2)$	0.46		
R1-58	i1	$^1 ((4.50-5.90)^2 + (142.61-142.47)^2)$	10.40	12.33	
680.00		$^1 ((4.95-4.50)^2 + (142.61-142.61)^2)$	0.45		
R1-59	i1	$^1 ((-4.50-4.96)^2 + (141.32-141.31)^2)$	0.46	10.85	
694.82		$^1 ((4.50-4.50)^2 + (141.50-141.32)^2)$	9.00		
		$^1 ((4.95-4.50)^2 + (141.51-141.50)^2)$	0.45		
R1-60b	i1	$^1 ((-4.50-4.96)^2 + (140.51-140.50)^2)$	0.46	9.91	
704.83		$^1 ((4.50-4.50)^2 + (140.75-140.51)^2)$	9.00		
		$^1 ((4.94-4.50)^2 + (140.76-140.75)^2)$	0.44		
R1-61	i1	$^1 ((-4.50-4.96)^2 + (139.66-139.64)^2)$	0.46	9.90	
714.87		$^1 ((4.50-4.50)^2 + (140.00-139.66)^2)$	9.01		
		$^1 ((4.94-4.50)^2 + (140.01-140.00)^2)$	0.44		
R1-62	i1	$^1 ((-4.50-4.96)^2 + (139.25-139.23)^2)$	0.46	9.91	
720.00		$^1 ((4.50-4.50)^2 + (139.59-139.25)^2)$	9.01		
		$^1 ((4.94-4.50)^2 + (139.60-139.59)^2)$	0.44		
R1-63	i1	$^1 ((-4.50-4.96)^2 + (137.65-137.63)^2)$	0.46	9.91	
740.00		$^1 ((4.50-4.50)^2 + (137.99-137.65)^2)$	9.01		
		$^1 ((4.94-4.50)^2 + (138.00-137.99)^2)$	0.44		
R1-64	i1	$^1 ((-4.50-4.96)^2 + (136.19-136.17)^2)$	0.46	9.91	
760.00		$^1 ((4.50-4.50)^2 + (136.53-136.19)^2)$	9.01		
R1-65	i1	$^1 ((-4.50-4.96)^2 + (135.38-135.36)^2)$	0.46	9.47	
773.85		$^1 ((4.50-4.50)^2 + (135.72-135.38)^2)$	9.01		
R1-66	i1	$^1 ((-4.50-4.96)^2 + (135.04-135.02)^2)$	0.46	9.47	
780.00		$^1 ((4.50-4.50)^2 + (135.38-135.04)^2)$	9.01		
R1-67	i1	$^1 ((-4.50-4.96)^2 + (133.94-133.92)^2)$	0.46	9.47	
800.00		$^1 ((4.50-4.50)^2 + (134.28-133.94)^2)$	9.01		
A RIPORTARE ml					

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 121	
BASE					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml					
R1-68 820.00	i1	$^1 ((-4.50--4.96)^2 + (132.78-132.76)^2)$ $^1 ((4.50--4.50)^2 + (133.12-132.78)^2)$	0.46 9.01	9.47	
R1-69 832.82	i1	$^1 ((-4.50--4.96)^2 + (132.02-132.01)^2)$ $^1 ((4.50--4.50)^2 + (132.36-132.02)^2)$	0.46 9.01	9.47	
R1-70 840.00	i1	$^1 ((-4.50--4.96)^2 + (131.60-131.58)^2)$ $^1 ((4.50--4.50)^2 + (131.93-131.60)^2)$	0.46 9.01	9.47	
R1-71 860.00	i1	$^1 ((-4.50--4.96)^2 + (130.39-130.38)^2)$ $^1 ((4.50--4.50)^2 + (130.69-130.39)^2)$ $^1 ((4.94-4.50)^2 + (130.70-130.69)^2)$	0.46 9.00 0.44	9.90	
R1-72 879.15	i1	$^1 ((-4.50--4.96)^2 + (129.20-129.19)^2)$ $^1 ((4.50--4.50)^2 + (129.47-129.20)^2)$ $^1 ((4.94-4.50)^2 + (129.49-129.47)^2)$	0.46 9.00 0.44	9.90	
Il Direttore dei Lavori		L'Impresa			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 122		
FONDAZIONE					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R1-1 0.00	ml	$^1 ((6.25-0.00)^2 + (164.54-164.84)^2)$ $^1 ((7.18-6.25)^2 + (164.50-164.54)^2)$	6.26 0.93	7.19	
R1-3 32.24	ml	$^1 ((6.00-0.00)^2 + (165.22-165.64)^2)$ $^1 ((6.95-6.00)^2 + (165.16-165.22)^2)$	6.01 0.95	6.96	
R1-4 32.25	ml	$^1 ((0.00-1.20)^2 + (165.64-165.64)^2)$ $^1 ((6.00-0.00)^2 + (165.22-165.64)^2)$ $^1 ((6.95-6.00)^2 + (165.16-165.22)^2)$	1.20 6.01 0.95	8.16	
R1-5 40.00	ml	$^1 ((-1.00-1.85)^2 + (165.89-165.95)^2)$ $^1 ((6.00-1.00)^2 + (165.40-165.89)^2)$ $^1 ((6.95-6.00)^2 + (165.33-165.40)^2)$	0.85 7.02 0.95	8.82	
R1-6 60.00	ml	$^1 ((-1.00-1.85)^2 + (166.47-166.53)^2)$ $^1 ((6.00-1.00)^2 + (165.98-166.47)^2)$	0.85 7.02	7.87	
R1-7	ml	$^1 ((6.00-1.85)^2 + (166.83-167.38)^2)$	7.87	7.87	
R1-8	ml	$^1 ((6.00-1.85)^2 + (167.06-167.61)^2)$	7.87	7.87	
R1-9	ml	$^1 ((6.00-1.85)^2 + (167.95-168.50)^2)$	7.87	7.87	
R1-10	ml	$^1 ((6.00-1.00)^2 + (168.95-169.44)^2)$	7.02	7.02	
R1-11	ml	$^1 ((6.00-4.80)^2 + (168.95-169.65)^2)$	10.82	10.82	
R1-12	ml	$^1 ((6.00-3.65)^2 + (169.31-169.99)^2)$	9.67	9.67	
R1-13	ml	$^1 ((6.00-0.71)^2 + (170.71-171.18)^2)$	6.73	6.73	
R1-14 148.60	ml	$^1 ((6.00-0.16)^2 + (171.27-171.70)^2)$ $^1 ((6.95-6.00)^2 + (171.21-171.27)^2)$	6.17 0.95	7.12	
R1-15	ml	$^1 ((5.99-5.28)^2 + (171.99-172.78)^2)$	11.30	11.30	
R1-16	ml	$^1 ((5.99-5.19)^2 + (172.07-172.86)^2)$	11.21	11.21	
R1-18	ml	$^1 ((6.00-4.50)^2 + (173.13-173.86)^2)$	10.53	10.53	
R1-18b 190.85	ml	$^1 ((-4.50-5.35)^2 + (173.86-173.92)^2)$ $^1 ((6.00-4.50)^2 + (173.13-173.86)^2)$ $^1 ((6.96-6.00)^2 + (173.06-173.13)^2)$	0.85 10.53 0.96	12.34	
R1-19	ml	$^1 ((6.97-4.50)^2 + (173.26-174.06)^2)$	11.50	11.50	
R1-20	ml	$^1 ((6.95-4.50)^2 + (173.41-174.21)^2)$	11.48	11.48	
R1-20b 220.00	ml	$^1 ((6.00-4.50)^2 + (173.53-174.27)^2)$ $^1 ((6.95-6.00)^2 + (173.46-173.53)^2)$	10.53 0.95	11.48	
A RIPORTARE ml					

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 123	
FONDAZIONE					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml					
R1-21 240.00	ml	$^1 ((5.99-4.50)^2 + (173.40-174.14)^2)$ $^1 ((6.94-5.99)^2 + (173.34-173.40)^2)$	10.52 0.95	11.47	
R1-22	ml	$^1 ((5.95-4.50)^2 + (172.94-173.67)^2)$	10.48	10.48	
R1-23	ml	$^1 ((4.71-4.50)^2 + (172.54-172.80)^2)$	9.21	9.21	
R1-28b 340.93	ml	$^1 ((-4.50--5.42)^2 + (168.25-168.23)^2)$ $^1 ((4.50-4.50)^2 + (168.25-168.25)^2)$	0.92 9.00	9.92	
R1-29 360.00	ml	$^1 ((-4.50--5.42)^2 + (166.80-166.77)^2)$ $^1 ((4.50-4.50)^2 + (166.80-166.80)^2)$ $^1 ((5.42-4.50)^2 + (166.77-166.80)^2)$	0.92 9.00 0.92	10.84	
R1-30 382.06	ml	$^1 ((-4.50--5.42)^2 + (165.10-165.08)^2)$ $^1 ((4.50-4.50)^2 + (165.10-165.10)^2)$ $^1 ((5.42-4.50)^2 + (165.08-165.10)^2)$	0.92 9.00 0.92	10.84	
R1-31 400.00	ml	$^1 ((-4.50--5.42)^2 + (163.73-163.70)^2)$ $^1 ((4.50-4.50)^2 + (163.94-163.73)^2)$ $^1 ((5.38-4.50)^2 + (163.97-163.94)^2)$	0.92 9.00 0.88	10.80	
R1-32 409.76	ml	$^1 ((-4.50--5.44)^2 + (162.87-162.82)^2)$ $^1 ((4.50-4.50)^2 + (163.31-162.87)^2)$ $^1 ((5.37-4.50)^2 + (163.36-163.31)^2)$	0.94 9.01 0.87	10.82	
R1-33 420.00	ml	$^1 ((-4.50--5.44)^2 + (162.08-162.04)^2)$ $^1 ((4.50-4.50)^2 + (162.53-162.08)^2)$ $^1 ((5.37-4.50)^2 + (162.57-162.53)^2)$	0.94 9.01 0.87	10.82	
R1-34 440.00	ml	$^1 ((-4.50--5.44)^2 + (160.55-160.50)^2)$ $^1 ((4.50-4.50)^2 + (160.99-160.55)^2)$ $^1 ((5.37-4.50)^2 + (161.04-160.99)^2)$	0.94 9.01 0.87	10.82	
R1-35 455.35	ml	$^1 ((-4.50--5.44)^2 + (159.37-159.32)^2)$ $^1 ((4.50-4.50)^2 + (159.81-159.37)^2)$ $^1 ((5.37-4.50)^2 + (159.86-159.81)^2)$	0.94 9.01 0.87	10.82	
R1-36 460.00	ml	$^1 ((-4.50--5.44)^2 + (159.01-158.97)^2)$ $^1 ((4.50-4.50)^2 + (159.46-159.01)^2)$ $^1 ((5.37-4.50)^2 + (159.50-159.46)^2)$	0.94 9.01 0.87	10.82	
R1-37 480.00	ml	$^1 ((-4.50--5.44)^2 + (157.48-157.43)^2)$ $^1 ((4.50-4.50)^2 + (157.92-157.48)^2)$ $^1 ((5.37-4.50)^2 + (157.97-157.92)^2)$	0.94 9.01 0.87	10.82	
R1-38 500.95	ml	$^1 ((-4.50--5.44)^2 + (155.87-155.82)^2)$ $^1 ((4.50-4.50)^2 + (156.31-155.87)^2)$ $^1 ((5.37-4.50)^2 + (156.36-156.31)^2)$	0.94 9.01 0.87		
A RIPORTARE ml			10.82		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 124	
FONDAZIONE					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			10.82		
R1-39 520.00	ml	$^1 ((-4.50--5.42)^2 + (154.52-154.49)^2)$ $^1 ((4.50-4.50)^2 + (154.62-154.52)^2)$ $^1 ((5.40-4.50)^2 + (154.62-154.62)^2)$	0.92 9.00 0.90	10.82	
R1-40 528.64	ml	$^1 ((-4.50--5.42)^2 + (153.85-153.83)^2)$ $^1 ((4.50-4.50)^2 + (153.85-153.85)^2)$ $^1 ((5.42-4.50)^2 + (153.83-153.85)^2)$	0.92 9.00 0.92	10.84	
R1-41 532.63	ml	$^1 ((-4.50--5.42)^2 + (153.55-153.52)^2)$ $^1 ((4.50-4.50)^2 + (153.55-153.55)^2)$ $^1 ((5.42-4.50)^2 + (153.52-153.55)^2)$	0.92 9.00 0.92	10.84	
R1-42 540.00	ml	$^1 ((-4.50--5.41)^2 + (153.02-153.01)^2)$ $^1 ((4.50-4.50)^2 + (152.98-153.02)^2)$ $^1 ((5.42-4.50)^2 + (152.96-152.98)^2)$	0.91 9.00 0.92	10.83	
R1-43 546.20	ml	$^1 ((4.50-5.88)^2 + (152.51-152.57)^2)$ $^1 ((5.42-4.50)^2 + (152.48-152.51)^2)$	10.38 0.92	11.30	
R1-44 546.21	ml	$^1 ((-5.88--8.28)^2 + (152.57-152.62)^2)$ $^1 ((4.50-5.88)^2 + (152.51-152.57)^2)$ $^1 ((5.42-4.50)^2 + (152.48-152.51)^2)$	2.40 10.38 0.92	13.70	
R1-45 560.00	ml	$^1 ((4.50-4.89)^2 + (151.45-151.60)^2)$ $^1 ((5.42-4.50)^2 + (151.42-151.45)^2)$	9.39 0.92	10.31	
R1-46 580.00	ml	$^1 ((4.50-3.73)^2 + (149.86-150.16)^2)$ $^1 ((5.43-4.50)^2 + (149.82-149.86)^2)$	8.24 0.93	9.17	
R1-47 582.63	ml	$^1 ((4.50-3.64)^2 + (149.65-149.96)^2)$ $^1 ((5.43-4.50)^2 + (149.62-149.65)^2)$	8.15 0.93	9.08	
R1-48 595.46	ml	$^1 ((4.50-3.50)^2 + (148.67-148.97)^2)$ $^1 ((5.43-4.50)^2 + (148.63-148.67)^2)$	8.01 0.93	8.94	
R1-49 600.00	ml	$^1 ((4.50-3.50)^2 + (148.32-148.62)^2)$ $^1 ((5.43-4.50)^2 + (148.29-148.32)^2)$	8.01 0.93	8.94	
R1-50 608.29	ml	$^1 ((4.50-3.50)^2 + (147.68-147.98)^2)$ $^1 ((5.43-4.50)^2 + (147.65-147.68)^2)$	8.01 0.93	8.94	
R1-51 614.99	ml	$^1 ((4.50-3.50)^2 + (147.21-147.44)^2)$ $^1 ((5.42-4.50)^2 + (147.18-147.21)^2)$	8.00 0.92	8.92	
R1-52 615.00	ml	$^1 ((4.50-3.50)^2 + (147.21-147.44)^2)$ $^1 ((5.42-4.50)^2 + (147.18-147.21)^2)$	8.00 0.92	8.92	
R1-53	ml	$^1 ((4.50-8.98)^2 + (146.84-147.16)^2)$	13.48		
A RIPORTARE ml			13.48		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 125	
FONDAZIONE					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			13.48		
620.00		$^1 (5.42-4.50)^2 + (146.82-146.84)^2$	0.92		
R1-54	ml	$^1 (4.50-8.60)^2 + (145.25-145.35)^2$	13.10	14.40	
640.00		$^1 (5.42-4.50)^2 + (145.23-145.25)^2$	0.92		
R1-55	ml	$^1 (4.50-7.48)^2 + (143.79-143.72)^2$	11.98	14.02	
658.29		$^1 (5.42-4.50)^2 + (143.77-143.79)^2$	0.92		
R1-56	ml	$^1 (4.50-7.42)^2 + (143.72-143.65)^2$	11.92	12.90	
659.15		$^1 (5.42-4.50)^2 + (143.70-143.72)^2$	0.92		
R1-57	ml	$^1 (4.50-7.37)^2 + (143.66-143.58)^2$	11.87	12.84	
660.00		$^1 (5.42-4.50)^2 + (143.64-143.66)^2$	0.92		
R1-58	ml	$^1 (4.50-5.90)^2 + (142.16-142.02)^2$	10.40	12.79	
680.00		$^1 (5.40-4.50)^2 + (142.16-142.16)^2$	0.90		
R1-59	ml	$^1 (-4.50-5.42)^2 + (140.87-140.85)^2$	0.92	11.30	
694.82		$^1 (4.50-4.50)^2 + (141.05-140.87)^2$	9.00		
		$^1 (5.39-4.50)^2 + (141.06-141.05)^2$	0.89	10.81	
R1-60b	ml	$^1 (-4.50-5.42)^2 + (140.06-140.04)^2$	0.92	10.81	
704.83		$^1 (4.50-4.50)^2 + (140.30-140.06)^2$	9.00		
		$^1 (5.38-4.50)^2 + (140.32-140.30)^2$	0.88	10.80	
R1-61	ml	$^1 (-4.50-5.43)^2 + (139.21-139.17)^2$	0.93	10.81	
714.87		$^1 (4.50-4.50)^2 + (139.55-139.21)^2$	9.01		
		$^1 (5.37-4.50)^2 + (139.58-139.55)^2$	0.87	10.81	
R1-62	ml	$^1 (-4.50-5.43)^2 + (138.80-138.76)^2$	0.93	10.81	
720.00		$^1 (4.50-4.50)^2 + (139.14-138.80)^2$	9.01		
		$^1 (5.37-4.50)^2 + (139.17-139.14)^2$	0.87	10.81	
R1-63	ml	$^1 (-4.50-5.43)^2 + (137.20-137.16)^2$	0.93	10.81	
740.00		$^1 (4.50-4.50)^2 + (137.54-137.20)^2$	9.01		
		$^1 (5.37-4.50)^2 + (137.57-137.54)^2$	0.87	10.81	
R1-64	ml	$^1 (-4.50-5.43)^2 + (135.74-135.71)^2$	0.93	9.94	
760.00		$^1 (4.50-4.50)^2 + (136.08-135.74)^2$	9.01		
R1-65	ml	$^1 (-4.50-5.43)^2 + (134.93-134.89)^2$	0.93	9.94	
773.85		$^1 (4.50-4.50)^2 + (135.27-134.93)^2$	9.01		
R1-66	ml	$^1 (-4.50-5.43)^2 + (134.59-134.55)^2$	0.93	9.94	
780.00		$^1 (4.50-4.50)^2 + (134.93-134.59)^2$	9.01		
R1-67	ml	$^1 (-4.50-5.43)^2 + (133.49-133.45)^2$	0.93	9.94	
800.00		$^1 (4.50-4.50)^2 + (133.83-133.49)^2$	9.01		
A RIPORTARE ml					

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 126	
FONDAZIONE					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml					
R1-68 820.00	ml	$^1 ((-4.50--5.43)^2 + (132.33-132.30)^2)$ $^1 ((4.50--4.50)^2 + (132.67-132.33)^2)$	0.93 9.01	9.94	
R1-69 832.82	ml	$^1 ((-4.50--5.43)^2 + (131.57-131.54)^2)$ $^1 ((4.50--4.50)^2 + (131.91-131.57)^2)$	0.93 9.01	9.94	
R1-70 840.00	ml	$^1 ((-4.50--5.43)^2 + (131.15-131.11)^2)$ $^1 ((4.50--4.50)^2 + (131.48-131.15)^2)$	0.93 9.01	9.94	
R1-71 860.00	ml	$^1 ((-4.50--5.42)^2 + (129.94-129.91)^2)$ $^1 ((4.50--4.50)^2 + (130.24-129.94)^2)$ $^1 ((5.38-4.50)^2 + (130.27-130.24)^2)$	0.92 9.00 0.88	10.80	
R1-72 879.15	ml	$^1 ((-4.50--5.42)^2 + (128.75-128.73)^2)$ $^1 ((4.50--4.50)^2 + (129.02-128.75)^2)$ $^1 ((5.38-4.50)^2 + (129.05-129.02)^2)$	0.92 9.00 0.88	10.80	
Il Direttore dei Lavori		L'Impresa			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE	Foglio n. 127		
BONIFICA TRINCEA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R1-6	o1	$^1 ((6.00-1.85)^2 + (165.98-166.53)^2)$	7.87	7.87	
R1-7	o1	$^1 ((6.00-1.85)^2 + (166.83-167.38)^2)$	7.87	7.87	
R1-8	o1	$^1 ((6.00-1.85)^2 + (167.06-167.61)^2)$	7.87	7.87	
R1-9	o1	$^1 ((6.00-1.85)^2 + (167.95-168.50)^2)$	7.87	7.87	
R1-10	o1	$^1 ((6.00-1.00)^2 + (168.95-169.44)^2)$	7.02	7.02	
R1-11	o1	$^1 ((6.00-4.80)^2 + (168.95-169.65)^2)$	10.82	10.82	
R1-12	o1	$^1 ((-3.65-6.00)^2 + (169.99-169.31)^2)$	9.67	9.67	
R1-13	o1	$^1 ((6.00-0.71)^2 + (170.71-171.18)^2)$	6.73	6.73	
R1-14	o1	$^1 ((-0.16-6.98)^2 + (171.70-171.18)^2)$	7.16	7.16	
R1-19	o1	$^1 ((-4.50-6.97)^2 + (174.06-173.26)^2)$	11.50	11.50	
R1-20	o1	$^1 ((6.95-4.50)^2 + (173.41-174.21)^2)$	11.48	11.48	
R1-20b	o1	$^1 ((-4.50-6.20)^2 + (174.27-173.52)^2)$	10.73	10.73	
R1-21	o1	$^1 ((-2.21-4.50)^2 + (173.98-174.14)^2)$	2.30	2.30	
R1-45	o1	$^1 ((-2.56-4.89)^2 + (151.57-151.60)^2)$	2.33	2.33	
R1-46	o1	$^1 ((-3.73-3.75)^2 + (150.16-149.89)^2)$	7.48	7.48	
R1-47	o1	$^1 ((4.39-3.64)^2 + (149.66-149.96)^2)$	8.04	8.04	
R1-48	o1	$^1 ((5.43-3.50)^2 + (148.63-148.97)^2)$	8.94	8.94	
R1-49	o1	$^1 ((-3.50-5.43)^2 + (148.62-148.29)^2)$	8.94	8.94	
R1-50	o1	$^1 ((-3.50-5.43)^2 + (147.98-147.65)^2)$	8.94	8.94	
R1-51	o1	$^1 ((5.42-3.50)^2 + (147.18-147.44)^2)$	8.92	8.92	
R1-52	o1	$^1 ((-8.99-5.42)^2 + (147.60-147.18)^2)$	14.42	14.42	
R1-53	o1	$^1 ((5.42-8.98)^2 + (146.82-147.16)^2)$	14.40	14.40	
R1-54	o1	$^1 ((-8.60-4.18)^2 + (145.35-145.26)^2)$	12.78	12.78	
R1-55	o1	$^1 ((4.96-7.48)^2 + (143.78-143.72)^2)$	12.44	12.44	
R1-56	o1	$^1 ((4.50-5.42)^2 + (143.72-143.70)^2)$	0.92		
659.15		$^1 ((3.50-4.50)^2 + (143.72-143.72)^2)$	1.00		
		$^1 ((-7.42-3.50)^2 + (143.65-143.72)^2)$	10.92		
A RIPORTARE ml			12.84		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		CALCOLO DELLE LUNGHEZZE		Foglio n. 128	
BONIFICA TRINCEA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml			12.84		
R1-57	o1	$\frac{1}{2} ((5.42 - -7.37) \frac{2}{2} + (143.64 - 143.58) \frac{2}{2})$	12.79	12.84	
R1-58	o1	$\frac{1}{2} ((5.40 - -5.90) \frac{2}{2} + (142.16 - 142.02) \frac{2}{2})$	11.30	12.79	
R1-62	o1	$\frac{1}{2} ((5.34 - 3.75) \frac{2}{2} + (139.17 - 139.11) \frac{2}{2})$	1.59	11.30	
R1-63	o1	$\frac{1}{2} ((5.37 - 1.09) \frac{2}{2} + (137.57 - 137.41) \frac{2}{2})$	4.28	1.59	
R1-64	o1	$\frac{1}{2} ((4.50 - -0.76) \frac{2}{2} + (136.08 - 135.88) \frac{2}{2})$	5.26	4.28	
R1-65	o1	$\frac{1}{2} ((4.50 - -2.10) \frac{2}{2} + (135.27 - 135.02) \frac{2}{2})$	6.60	5.26	
R1-66	o1	$\frac{1}{2} ((4.50 - -2.57) \frac{2}{2} + (134.93 - 134.66) \frac{2}{2})$	7.08	6.60	
R1-67	o1	$\frac{1}{2} ((4.50 - -3.82) \frac{2}{2} + (133.83 - 133.51) \frac{2}{2})$	8.33	7.08	
R1-68	o1	$\frac{1}{2} ((4.50 - -4.96) \frac{2}{2} + (132.67 - 132.31) \frac{2}{2})$	9.47	8.33	
R1-69	o1	$\frac{1}{2} ((4.50 - -5.43) \frac{2}{2} + (131.91 - 131.54) \frac{2}{2})$	9.94	9.47	
R1-70	o1	$\frac{1}{2} ((-5.43 - 4.50) \frac{2}{2} + (131.11 - 131.48) \frac{2}{2})$	9.94	9.94	
R1-71	o1	$\frac{1}{2} ((5.38 - -5.42) \frac{2}{2} + (130.27 - 129.91) \frac{2}{2})$	10.81	9.94	
R1-72	o1	$\frac{1}{2} ((5.38 - -5.42) \frac{2}{2} + (129.05 - 128.73) \frac{2}{2})$	10.80	10.81	
				10.80	
Il Direttore dei Lavori		L'Impresa			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DEI VOLUMI			Foglio n. 129			
VEGETALE IN RILEVATO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
R1-1	R1-2	R1-1	C1	1.16	20.15	10.07	11.681	11.681
R1-2	R1-3	R1-3	C1	1.92	12.09	6.05	11.616	11.616
R1-3	R1-4	R1-3	C1	1.92	0.01	0.00	0.000	
R1-3	R1-4	R1-4	C1	1.95	0.01	0.00	0.000	
R1-4	R1-5	R1-4	C1	1.95	7.75	3.88	7.566	
32.25	40.00	R1-5	C1	0.37	7.75	3.88	1.436	
		R1-5	C2	0.74	7.75	3.88	2.871	11.873
R1-5	R1-6	R1-5	C1	0.37	20.00	10.00	3.700	
40.00	60.00	R1-5	C2	0.74	20.00	10.00	7.400	
		R1-6	C1	0.37	20.00	10.00	3.700	14.800
R1-6	R1-7	R1-6	C1	0.37	20.00	10.00	3.700	
60.00	80.00	R1-7	C1	2.86	20.00	10.00	28.600	32.300
R1-7	R1-8	R1-7	C1	2.86	4.37	2.19	6.263	
80.00	84.37	R1-8	C1	2.24	4.37	2.19	4.906	11.169
R1-8	R1-9	R1-8	C1	2.24	15.63	7.81	17.494	
84.37	100.00	R1-9	C1	0.89	15.63	7.81	6.951	24.445
R1-9	R1-10	R1-9	C1	0.89	14.79	7.40	6.586	6.586
R1-13	R1-14	R1-14	C1	0.64	8.60	4.30	2.752	2.752
R1-14	R1-15	R1-14	C1	0.64	12.88	6.44	4.122	4.122
R1-18	R1-18b	R1-18b	C1	1.21	0.01	0.00	0.000	
R1-18	R1-18b	R1-18b	C2	8.44	0.01	0.00	0.000	
R1-18b	R1-19	R1-18b	C1	1.21	9.15	4.58	5.542	
190.85	200.00	R1-18b	C2	8.44	9.15	4.58	38.655	44.197
R1-20b	R1-21	R1-21	C1	1.40	20.00	10.00	14.000	14.000
R1-21	R1-22	R1-21	C1	1.40	20.19	10.09	14.126	14.126
R1-28	R1-28b	R1-28b	C1	5.87	0.01	0.00	0.000	
R1-28b	R1-29	R1-28b	C1	5.87	19.07	9.53	55.941	
340.93	360.00	R1-29	C1	6.57	19.07	9.53	62.612	
		R1-29	C2	6.17	19.07	9.53	58.800	177.353
R1-29	R1-30	R1-29	C1	6.57	22.06	11.03	72.467	
360.00	382.06	R1-29	C2	6.17	22.06	11.03	68.055	
		R1-30	C1	5.61	22.06	11.03	61.878	
		R1-30	C2	6.30	22.06	11.03	69.489	271.889
R1-30	R1-31	R1-30	C1	5.61	17.94	8.97	50.322	
382.06	400.00	R1-30	C2	6.30	17.94	8.97	56.511	
		R1-31	C1	5.60	17.94	8.97	50.232	
A RIPORTARE mc							157.065	652.909

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DEI VOLUMI			Foglio n. 130			
VEGETALE IN RILEVATO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
A RIPORTARE mc							157.065	652.909
R1-31 400.00	R1-32 409.76	R1-31	C2	7.92	17.94	8.97	71.042	228.107
		R1-31	C1	5.60	9.76	4.88	27.328	
		R1-31	C2	7.92	9.76	4.88	38.650	
		R1-32	C1	5.62	9.76	4.88	27.426	
		R1-32	C2	9.40	9.76	4.88	45.872	139.276
R1-32 409.76	R1-33 420.00	R1-32	C1	5.62	10.24	5.12	28.774	
		R1-32	C2	9.40	10.24	5.12	48.128	
		R1-33	C1	5.61	10.24	5.12	28.723	
		R1-33	C2	7.79	10.24	5.12	39.885	145.510
R1-33 420.00	R1-34 440.00	R1-33	C1	5.61	20.00	10.00	56.100	
		R1-33	C2	7.79	20.00	10.00	77.900	
		R1-34	C1	5.36	20.00	10.00	53.600	
		R1-34	C2	7.88	20.00	10.00	78.800	266.400
R1-34 440.00	R1-35 455.35	R1-34	C1	5.36	15.35	7.68	41.165	
		R1-34	C2	7.88	15.35	7.68	60.518	
		R1-35	C1	5.03	15.35	7.68	38.630	
		R1-35	C2	7.88	15.35	7.68	60.518	200.831
R1-35 455.35	R1-36 460.00	R1-35	C1	5.03	4.65	2.32	11.670	
		R1-35	C2	7.88	4.65	2.32	18.282	
		R1-36	C1	4.89	4.65	2.32	11.345	
		R1-36	C2	7.89	4.65	2.32	18.305	59.602
R1-36 460.00	R1-37 480.00	R1-36	C1	4.89	20.00	10.00	48.900	
		R1-36	C2	7.89	20.00	10.00	78.900	
		R1-37	C1	4.16	20.00	10.00	41.600	
		R1-37	C2	4.25	20.00	10.00	42.500	211.900
R1-37 480.00	R1-38 500.95	R1-37	C1	4.16	20.95	10.47	43.555	
		R1-37	C2	4.25	20.95	10.47	44.498	
		R1-38	C1	3.10	20.95	10.47	32.457	
		R1-38	C2	3.58	20.95	10.47	37.483	157.993
R1-38 500.95	R1-39 520.00	R1-38	C1	3.10	19.05	9.53	29.543	
		R1-38	C2	3.58	19.05	9.53	34.117	
		R1-39	C1	1.87	19.05	9.53	17.821	
		R1-39	C2	2.82	19.05	9.53	26.875	108.356
R1-39 520.00	R1-40 528.64	R1-39	C1	1.87	8.64	4.32	8.078	
		R1-39	C2	2.82	8.64	4.32	12.182	
		R1-40	C1	1.28	8.64	4.32	5.530	
		R1-40	C2	2.63	8.64	4.32	11.362	37.152
R1-40 528.64	R1-41 532.63	R1-40	C1	1.28	3.99	2.00	2.560	
		R1-40	C2	2.63	3.99	2.00	5.260	
A RIPORTARE mc							7.820	2208.036

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DEI VOLUMI				Foglio n. 131			
VEGETALE IN RILEVATO									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc	
A RIPORTARE mc							7.820	2208.036	
R1-41	R1-42	R1-41	C1	1.04	3.99	2.00	2.080		
532.63	540.00	R1-41	C2	2.53	3.99	2.00	5.060		14.960
		R1-41	C1	1.04	7.37	3.69	3.838		
		R1-41	C2	2.53	7.37	3.69	9.336		
		R1-42	C1	2.52	7.37	3.69	9.299		
		R1-42	C2	0.62	7.37	3.69	2.288		24.761
R1-42	R1-43	R1-42	C1	2.52	6.20	3.10	7.812		
540.00	546.20	R1-42	C2	0.62	6.20	3.10	1.922		
		R1-43	C1	2.48	6.20	3.10	7.688		17.422
R1-43	R1-44	R1-43	C1	2.48	0.01	0.00	0.000		
R1-43	R1-44	R1-44	C1	2.48	0.01	0.00	0.000		
R1-44	R1-45	R1-44	C1	2.48	13.79	6.89	17.087		
546.21	560.00	R1-45	C1	2.28	13.79	6.89	15.709		32.796
R1-45	R1-46	R1-45	C1	2.28	20.00	10.00	22.800		
560.00	580.00	R1-46	C1	1.95	20.00	10.00	19.500		42.300
R1-46	R1-47	R1-46	C1	1.95	2.63	1.31	2.555		
580.00	582.63	R1-47	C1	1.92	2.63	1.31	2.515		5.070
R1-47	R1-48	R1-47	C1	1.92	12.83	6.42	12.326		
582.63	595.46	R1-48	C1	1.96	12.83	6.42	12.583		24.909
R1-48	R1-49	R1-48	C1	1.96	4.54	2.27	4.449		
595.46	600.00	R1-49	C1	1.97	4.54	2.27	4.472		8.921
R1-49	R1-50	R1-49	C1	1.97	8.29	4.14	8.156		
600.00	608.29	R1-50	C1	1.82	8.29	4.14	7.535		15.691
R1-50	R1-51	R1-50	C1	1.82	6.70	3.35	6.097		
608.29	614.99	R1-51	C1	1.76	6.70	3.35	5.896		11.993
R1-51	R1-52	R1-51	C1	1.76	0.01	0.00	0.000		
R1-51	R1-52	R1-52	C1	1.76	0.01	0.00	0.000		
R1-52	R1-53	R1-52	C1	1.76	5.00	2.50	4.400		
615.00	620.00	R1-53	C1	1.72	5.00	2.50	4.300		8.700
R1-53	R1-54	R1-53	C1	1.72	20.00	10.00	17.200		
620.00	640.00	R1-54	C1	1.46	20.00	10.00	14.600		31.800
R1-54	R1-55	R1-54	C1	1.46	18.29	9.14	13.344		
640.00	658.29	R1-55	C1	1.27	18.29	9.14	11.608		24.952
R1-55	R1-56	R1-55	C1	1.27	0.86	0.43	0.546		
658.29	659.15	R1-56	C1	1.25	0.86	0.43	0.537		1.083
A RIPORTARE mc								2473.394	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA	<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DEI VOLUMI			Foglio n. 132			
VEGETALE IN RILEVATO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
A RIPORTARE mc								2473.394
R1-56 659.15	R1-57 660.00	R1-56 R1-57	C1 C1	1.25 0.56	0.85 0.85	0.43 0.43	0.537 0.241	0.778
R1-57 660.00	R1-58 680.00	R1-57 R1-58	C1 C1	0.56 0.76	20.00 20.00	10.00 10.00	5.600 7.600	13.200
R1-58 680.00	R1-59 694.82	R1-58 R1-59 R1-59	C1 C1 C2	0.76 1.90 0.90	14.82 14.82 14.82	7.41 7.41 7.41	5.632 14.079 6.669	26.380
R1-59 R1-59 R1-60 R1-60b R1-60b 704.83	R1-59b R1-59b R1-60b R1-60b R1-61 714.87	R1-59 R1-59 R1-60b R1-60b R1-60b R1-61 R1-60b R1-61 R1-61	C1 C2 C1 C2 C1 C1 C2 C1 C2	1.90 0.90 3.32 0.77 3.32 0.77 1.46 0.74	0.01 0.01 0.01 0.01 10.04 10.04 10.04 10.04	0.00 0.00 0.00 0.00 5.02 5.02 5.02 5.02	0.000 0.000 0.000 0.000 16.666 3.865 7.329 3.715	31.575
R1-61 714.87	R1-62 720.00	R1-61 R1-61 R1-62 R1-62	C1 C2 C1 C2	1.46 0.74 1.53 0.67	5.13 5.13 5.13 5.13	2.56 2.56 2.56 2.56	3.738 1.894 3.917 1.715	11.264
R1-62 720.00	R1-63 740.00	R1-62 R1-62 R1-63 R1-63	C1 C2 C1 C2	1.53 0.67 2.01 0.45	20.00 20.00 20.00 20.00	10.00 10.00 10.00 10.00	15.300 6.700 20.100 4.500	46.600
R1-63 740.00	R1-64 760.00	R1-63 R1-63 R1-64	C1 C2 C1	2.01 0.45 1.57	20.00 20.00 20.00	10.00 10.00 10.00	20.100 4.500 15.700	40.300
R1-64 760.00	R1-65 773.85	R1-64 R1-65	C1 C1	1.57 1.34	13.85 13.85	6.93 6.93	10.880 9.286	20.166
R1-65 773.85	R1-66 780.00	R1-65 R1-66	C1 C1	1.34 1.41	6.15 6.15	3.07 3.07	4.114 4.329	8.443
R1-66 780.00	R1-67 800.00	R1-66 R1-67	C1 C1	1.41 1.80	20.00 20.00	10.00 10.00	14.100 18.000	32.100
R1-67 800.00	R1-68 820.00	R1-67 R1-68	C1 C1	1.80 1.68	20.00 20.00	10.00 10.00	18.000 16.800	34.800
R1-68 820.00	R1-69 832.82	R1-68 R1-69	C1 C1	1.68 1.87	12.82 12.82	6.41 6.41	10.769 11.987	22.756
R1-69	R1-70	R1-69	C1	1.87	7.18	3.59	6.713	
A RIPORTARE mc							6.713	2761.756

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DEI VOLUMI			Foglio n. 133			
VEGETALE IN RILEVATO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
A RIPORTARE mc							6.713	2761.756
832.82	840.00	R1-70	C1	2.00	7.18	3.59	7.180	13.893
R1-70	R1-71	R1-70	C1	2.00	20.00	10.00	20.000	20.000
R1-71	R1-72	R1-72	C1	1.28	19.15	9.57	12.250	
860.00	879.15	R1-72	C2	0.40	19.15	9.57	3.828	16.078
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			2811.727

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DEI VOLUMI			Foglio n. 134			
GRADONATURA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
R1-2	R1-3	R1-3	O1	0.46	12.09	6.05	2.783	7.381
20.15	32.24	R1-3	O2	0.76	12.09	6.05	4.598	
R1-3	R1-4	R1-3	O1	0.46	0.01	0.00	0.000	4.733
R1-3	R1-4	R1-3	O2	0.76	0.01	0.00	0.000	
R1-3	R1-4	R1-4	O1	0.48	0.01	0.00	0.000	
R1-3	R1-4	R1-4	O2	0.74	0.01	0.00	0.000	
R1-4	R1-5	R1-4	O1	0.48	7.75	3.88	1.862	
32.25	40.00	R1-4	O2	0.74	7.75	3.88	2.871	
R1-15	R1-16	R1-16	O1	0.19	1.47	0.73	0.139	0.730
161.48	162.95	R1-16	O2	0.81	1.47	0.73	0.591	
R1-16	R1-16b	R1-16	O1	0.19	0.01	0.01	0.002	0.010
162.95	162.96	R1-16	O2	0.81	0.01	0.01	0.008	
R1-17	R1-18	R1-18	O1	1.01	10.84	5.42	5.474	18.807
180.00	190.84	R1-18	O2	0.90	10.84	5.42	4.878	
		R1-18	O3	0.70	10.84	5.42	3.794	
		R1-18	O4	0.86	10.84	5.42	4.661	
R1-18	R1-18b	R1-18	O1	1.01	0.01	0.00	0.000	57.754
R1-18	R1-18b	R1-18	O2	0.90	0.01	0.00	0.000	
R1-18	R1-18b	R1-18	O3	0.70	0.01	0.00	0.000	
R1-18	R1-18b	R1-18	O4	0.86	0.01	0.00	0.000	
R1-18	R1-18b	R1-18b	O1	2.03	0.01	0.00	0.000	
R1-18	R1-18b	R1-18b	O2	1.91	0.01	0.00	0.000	
R1-18	R1-18b	R1-18b	O3	1.35	0.01	0.00	0.000	
R1-18	R1-18b	R1-18b	O4	0.72	0.01	0.00	0.000	
R1-18	R1-18b	R1-18b	O5	0.72	0.01	0.00	0.000	
R1-18	R1-18b	R1-18b	O6	0.90	0.01	0.00	0.000	
R1-18	R1-18b	R1-18b	O7	1.32	0.01	0.00	0.000	
R1-18	R1-18b	R1-18b	O8	1.88	0.01	0.00	0.000	
R1-18	R1-18b	R1-18b	O9	1.13	0.01	0.00	0.000	
R1-18	R1-18b	R1-18b	O10	0.21	0.01	0.00	0.000	
R1-18	R1-18b	R1-18b	O11	0.44	0.01	0.00	0.000	
R1-18b	R1-19	R1-18b	O1	2.03	9.15	4.58	9.297	
190.85	200.00	R1-18b	O2	1.91	9.15	4.58	8.748	
		R1-18b	O3	1.35	9.15	4.58	6.183	
		R1-18b	O4	0.72	9.15	4.58	3.298	
		R1-18b	O5	0.72	9.15	4.58	3.298	
		R1-18b	O6	0.90	9.15	4.58	4.122	
		R1-18b	O7	1.32	9.15	4.58	6.046	
		R1-18b	O8	1.88	9.15	4.58	8.610	
		R1-18b	O9	1.13	9.15	4.58	5.175	
		R1-18b	O10	0.21	9.15	4.58	0.962	
		R1-18b	O11	0.44	9.15	4.58	2.015	
R1-19	R1-20	R1-20	O1	0.76	10.84	5.42	4.119	4.119
R1-20	R1-20b	R1-20	O1	0.76	9.16	4.58	3.481	
A RIPORTARE mc							3.481	93.534

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DEI VOLUMI			Foglio n. 135			
GRADONATURA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
A RIPORTARE mc							3.481	93.534
210.84	220.00	R1-20b	O1	0.11	9.16	4.58	0.504	8.794
		R1-20b	O2	0.50	9.16	4.58	2.290	
		R1-20b	O3	0.55	9.16	4.58	2.519	
R1-20b	R1-21	R1-20b	O1	0.11	20.00	10.00	1.100	66.500
220.00	240.00	R1-20b	O2	0.50	20.00	10.00	5.000	
		R1-20b	O3	0.55	20.00	10.00	5.500	
		R1-21	O1	0.17	20.00	10.00	1.700	
		R1-21	O2	0.37	20.00	10.00	3.700	
		R1-21	O3	0.43	20.00	10.00	4.300	
		R1-21	O4	0.73	20.00	10.00	7.300	
		R1-21	O5	2.24	20.00	10.00	22.400	
		R1-21	O6	1.55	20.00	10.00	15.500	
R1-21	R1-22	R1-21	O1	0.17	20.19	10.09	1.715	97.773
240.00	260.19	R1-21	O2	0.37	20.19	10.09	3.733	
		R1-21	O3	0.43	20.19	10.09	4.339	
		R1-21	O4	0.73	20.19	10.09	7.366	
		R1-21	O5	2.24	20.19	10.09	22.602	
		R1-21	O6	1.55	20.19	10.09	15.640	
		R1-22	O1	1.40	20.19	10.09	14.126	
		R1-22	O2	1.40	20.19	10.09	14.126	
		R1-22	O3	1.40	20.19	10.09	14.126	
R1-22	R1-23	R1-22	O1	1.40	17.54	8.77	12.278	36.834
260.19	277.73	R1-22	O2	1.40	17.54	8.77	12.278	
		R1-22	O3	1.40	17.54	8.77	12.278	
R1-29	R1-30	R1-30	O1	0.05	22.06	11.03	0.551	111.623
360.00	382.06	R1-30	O2	0.54	22.06	11.03	5.956	
		R1-30	O3	0.93	22.06	11.03	10.258	
		R1-30	O4	0.10	22.06	11.03	1.103	
		R1-30	O5	0.89	22.06	11.03	9.817	
		R1-30	O6	0.63	22.06	11.03	6.949	
		R1-30	O7	0.56	22.06	11.03	6.177	
		R1-30	O8	0.56	22.06	11.03	6.177	
		R1-30	O9	1.24	22.06	11.03	13.677	
		R1-30	O10	0.02	22.06	11.03	0.221	
		R1-30	O11	1.01	22.06	11.03	11.140	
		R1-30	O12	0.64	22.06	11.03	7.059	
		R1-30	O13	0.64	22.06	11.03	7.059	
		R1-30	O14	0.64	22.06	11.03	7.059	
		R1-30	O15	1.67	22.06	11.03	18.420	
R1-30	R1-31	R1-30	O1	0.05	17.94	8.97	0.449	415.058
382.06	400.00	R1-30	O2	0.54	17.94	8.97	4.844	
		R1-30	O3	0.93	17.94	8.97	8.342	
		R1-30	O4	0.10	17.94	8.97	0.897	
		R1-30	O5	0.89	17.94	8.97	7.983	
A RIPORTARE mc							22.515	415.058

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DEI VOLUMI			Foglio n. 136			
GRADONATURA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
A RIPORTARE mc							22.515	415.058
		R1-30	O6	0.63	17.94	8.97	5.651	
		R1-30	O7	0.56	17.94	8.97	5.023	
		R1-30	O8	0.56	17.94	8.97	5.023	
		R1-30	O9	1.24	17.94	8.97	11.123	
		R1-30	O10	0.02	17.94	8.97	0.179	
		R1-30	O11	1.01	17.94	8.97	9.060	
		R1-30	O12	0.64	17.94	8.97	5.741	
		R1-30	O13	0.64	17.94	8.97	5.741	
		R1-30	O14	0.64	17.94	8.97	5.741	
		R1-30	O15	1.67	17.94	8.97	14.980	
								90.777
R1-38	R1-39	R1-39	O1	0.81	19.05	9.53	7.719	
500.95	520.00	R1-39	O2	0.85	19.05	9.53	8.100	
		R1-39	O3	0.95	19.05	9.53	9.053	
		R1-39	O4	0.97	19.05	9.53	9.244	
								34.116
R1-39	R1-40	R1-39	O1	0.81	8.64	4.32	3.499	
520.00	528.64	R1-39	O2	0.85	8.64	4.32	3.672	
		R1-39	O3	0.95	8.64	4.32	4.104	
		R1-39	O4	0.97	8.64	4.32	4.190	
		R1-40	O1	0.96	8.64	4.32	4.147	
		R1-40	O2	0.96	8.64	4.32	4.147	
		R1-40	O3	0.97	8.64	4.32	4.190	
		R1-40	O4	0.22	8.64	4.32	0.950	
								28.899
R1-40	R1-41	R1-40	O1	0.96	3.99	2.00	1.920	
528.64	532.63	R1-40	O2	0.96	3.99	2.00	1.920	
		R1-40	O3	0.97	3.99	2.00	1.940	
		R1-40	O4	0.22	3.99	2.00	0.440	
		R1-41	O1	0.94	3.99	2.00	1.880	
		R1-41	O2	0.95	3.99	2.00	1.900	
		R1-41	O3	0.96	3.99	2.00	1.920	
		R1-41	O4	0.04	3.99	2.00	0.080	
								12.000
R1-41	R1-42	R1-41	O1	0.94	7.37	3.69	3.469	
532.63	540.00	R1-41	O2	0.95	7.37	3.69	3.505	
		R1-41	O3	0.96	7.37	3.69	3.542	
		R1-41	O4	0.04	7.37	3.69	0.148	
		R1-42	O1	0.61	7.37	3.69	2.251	
		R1-42	O2	0.57	7.37	3.69	2.103	
		R1-42	O3	0.32	7.37	3.69	1.181	
		R1-42	O4	1.03	7.37	3.69	3.801	
		R1-42	O5	1.14	7.37	3.69	4.207	
								24.207
R1-42	R1-43	R1-42	O1	0.61	6.20	3.10	1.891	
540.00	546.20	R1-42	O2	0.57	6.20	3.10	1.767	
		R1-42	O3	0.32	6.20	3.10	0.992	
		R1-42	O4	1.03	6.20	3.10	3.193	
		R1-42	O5	1.14	6.20	3.10	3.534	
A RIPORTARE mc							11.377	605.057

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DEI VOLUMI				Foglio n. 137		
GRADONATURA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
A RIPORTARE mc							11.377	605.057
		R1-43	O1	0.25	6.20	3.10	0.775	20.491
		R1-43	O2	0.87	6.20	3.10	2.697	
		R1-43	O3	1.18	6.20	3.10	3.658	
		R1-43	O4	0.64	6.20	3.10	1.984	
R1-43	R1-44	R1-43	O1	0.25	0.01	0.00	0.000	38.308
R1-43	R1-44	R1-43	O2	0.87	0.01	0.00	0.000	
R1-43	R1-44	R1-43	O3	1.18	0.01	0.00	0.000	
R1-43	R1-44	R1-43	O4	0.64	0.01	0.00	0.000	
R1-43	R1-44	R1-44	O1	0.25	0.01	0.00	0.000	
R1-43	R1-44	R1-44	O2	0.86	0.01	0.00	0.000	
R1-43	R1-44	R1-44	O3	1.18	0.01	0.00	0.000	
R1-43	R1-44	R1-44	O4	0.64	0.01	0.00	0.000	
R1-44	R1-45	R1-44	O1	0.25	13.79	6.89	1.722	
546.21	560.00	R1-44	O2	0.86	13.79	6.89	5.925	
		R1-44	O3	1.18	13.79	6.89	8.130	
		R1-44	O4	0.64	13.79	6.89	4.410	
		R1-45	O1	0.72	13.79	6.89	4.961	
		R1-45	O2	0.70	13.79	6.89	4.823	
		R1-45	O3	1.21	13.79	6.89	8.337	
R1-45	R1-46	R1-45	O1	0.72	20.00	10.00	7.200	
560.00	580.00	R1-45	O2	0.70	20.00	10.00	7.000	
		R1-45	O3	1.21	20.00	10.00	12.100	
		R1-46	O1	0.02	20.00	10.00	0.200	
		R1-46	O2	0.96	20.00	10.00	9.600	
		R1-46	O3	0.95	20.00	10.00	9.500	
R1-46	R1-47	R1-46	O1	0.02	2.63	1.31	0.026	5.003
580.00	582.63	R1-46	O2	0.96	2.63	1.31	1.258	
		R1-46	O3	0.95	2.63	1.31	1.244	
		R1-47	O1	0.94	2.63	1.31	1.231	
		R1-47	O2	0.95	2.63	1.31	1.244	
R1-47	R1-48	R1-47	O1	0.94	12.83	6.42	6.035	26.129
582.63	595.46	R1-47	O2	0.95	12.83	6.42	6.099	
		R1-48	O1	0.34	12.83	6.42	2.183	
		R1-48	O2	0.92	12.83	6.42	5.906	
		R1-48	O3	0.92	12.83	6.42	5.906	
R1-48	R1-49	R1-48	O1	0.34	4.54	2.27	0.772	9.647
595.46	600.00	R1-48	O2	0.92	4.54	2.27	2.088	
		R1-48	O3	0.92	4.54	2.27	2.088	
		R1-49	O1	0.26	4.54	2.27	0.590	
		R1-49	O2	0.90	4.54	2.27	2.043	
		R1-49	O3	0.91	4.54	2.27	2.066	
R1-49	R1-50	R1-49	O1	0.26	8.29	4.14	1.076	3.726
600.00	608.29	R1-49	O2	0.90	8.29	4.14	3.726	
A RIPORTARE mc							4.802	750.235

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DEI VOLUMI				Foglio n. 138		
GRADONATURA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
A RIPORTARE mc							4.802	750.235
		R1-49	O3	0.91	8.29	4.14	3.767	8.569
R1-51	R1-52	R1-52	O1	0.01	0.01	0.00	0.000	
R1-51	R1-52	R1-52	O2	0.89	0.01	0.00	0.000	
R1-51	R1-52	R1-52	O3	1.04	0.01	0.00	0.000	
R1-52	R1-53	R1-52	O1	0.01	5.00	2.50	0.025	
615.00	620.00	R1-52	O2	0.89	5.00	2.50	2.225	
		R1-52	O3	1.04	5.00	2.50	2.600	4.850
R1-53	R1-54	R1-54	O1	0.21	20.00	10.00	2.100	
620.00	640.00	R1-54	O2	0.97	20.00	10.00	9.700	11.800
R1-54	R1-55	R1-54	O1	0.21	18.29	9.14	1.919	
640.00	658.29	R1-54	O2	0.97	18.29	9.14	8.866	
		R1-55	O1	0.13	18.29	9.14	1.188	
		R1-55	O2	0.88	18.29	9.14	8.043	20.016
R1-55	R1-56	R1-55	O1	0.13	0.86	0.43	0.056	
658.29	659.15	R1-55	O2	0.88	0.86	0.43	0.378	
		R1-56	O1	0.96	0.86	0.43	0.413	0.847
R1-56	R1-57	R1-56	O1	0.96	0.85	0.43	0.413	0.413
R1-58	R1-59	R1-59	O6	0.63	14.82	7.41	4.668	
680.00	694.82	R1-59	O1	0.23	14.82	7.41	1.704	
		R1-59	O2	0.23	14.82	7.41	1.704	
		R1-59	O3	0.19	14.82	7.41	1.408	
		R1-59	O4	0.80	14.82	7.41	5.928	
		R1-59	O5	0.20	14.82	7.41	1.482	
		R1-59	O7	0.83	14.82	7.41	6.150	
		R1-59	O8	1.13	14.82	7.41	8.373	31.417
R1-59	R1-59b	R1-59	O6	0.63	0.01	0.00	0.000	
R1-59	R1-59b	R1-59	O1	0.23	0.01	0.00	0.000	
R1-59	R1-59b	R1-59	O2	0.23	0.01	0.00	0.000	
R1-59	R1-59b	R1-59	O3	0.19	0.01	0.00	0.000	
R1-59	R1-59b	R1-59	O4	0.80	0.01	0.00	0.000	
R1-59	R1-59b	R1-59	O5	0.20	0.01	0.00	0.000	
R1-59	R1-59b	R1-59	O7	0.83	0.01	0.00	0.000	
R1-59	R1-59b	R1-59	O8	1.13	0.01	0.00	0.000	
R1-60b	R1-61	R1-61	O1	0.96	10.04	5.02	4.819	
704.83	714.87	R1-61	O2	0.32	10.04	5.02	1.606	6.425
R1-61	R1-62	R1-61	O1	0.96	5.13	2.56	2.458	
714.87	720.00	R1-61	O2	0.32	5.13	2.56	0.819	
		R1-62	O1	1.07	5.13	2.56	2.739	
		R1-62	O2	0.37	5.13	2.56	0.947	6.963
R1-62	R1-63	R1-62	O1	1.07	20.00	10.00	10.700	
A RIPORTARE mc							10.700	841.535

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DEI VOLUMI						Foglio n. 139	
GRADONATURA									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc	
A RIPORTARE mc							10.700	841.535	
720.00	740.00	R1-62	O2	0.37	20.00	10.00	3.700		
		R1-63	O1	1.04	20.00	10.00	10.400		
		R1-63	O2	0.91	20.00	10.00	9.100		33.900
R1-63	R1-64	R1-63	O1	1.04	20.00	10.00	10.400		
740.00	760.00	R1-63	O2	0.91	20.00	10.00	9.100		
		R1-64	O1	0.87	20.00	10.00	8.700		
		R1-64	O2	0.65	20.00	10.00	6.500		34.700
R1-64	R1-65	R1-64	O1	0.87	13.85	6.93	6.029		
760.00	773.85	R1-64	O2	0.65	13.85	6.93	4.505		
		R1-65	O3	0.55	13.85	6.93	3.812		
		R1-65	O1	1.00	13.85	6.93	6.930		
		R1-65	O2	0.66	13.85	6.93	4.574		25.850
R1-65	R1-66	R1-65	O3	0.55	6.15	3.07	1.689		
773.85	780.00	R1-65	O1	1.00	6.15	3.07	3.070		
		R1-65	O2	0.66	6.15	3.07	2.026		
		R1-66	O3	0.43	6.15	3.07	1.320		
		R1-66	O1	1.02	6.15	3.07	3.131		
		R1-66	O2	0.87	6.15	3.07	2.671		13.907
R1-66	R1-67	R1-66	O3	0.43	20.00	10.00	4.300		
780.00	800.00	R1-66	O1	1.02	20.00	10.00	10.200		
		R1-66	O2	0.87	20.00	10.00	8.700		
		R1-67	O1	1.03	20.00	10.00	10.300		
		R1-67	O2	0.90	20.00	10.00	9.000		42.500
R1-67	R1-68	R1-67	O1	1.03	20.00	10.00	10.300		
800.00	820.00	R1-67	O2	0.90	20.00	10.00	9.000		
		R1-68	O1	0.83	20.00	10.00	8.300		
		R1-68	O2	0.60	20.00	10.00	6.000		33.600
R1-68	R1-69	R1-68	O1	0.83	12.82	6.41	5.320		
820.00	832.82	R1-68	O2	0.60	12.82	6.41	3.846		
		R1-69	O1	0.83	12.82	6.41	5.320		
		R1-69	O2	0.82	12.82	6.41	5.256		
		R1-69	O3	0.12	12.82	6.41	0.769		20.511
R1-69	R1-70	R1-69	O1	0.83	7.18	3.59	2.980		
832.82	840.00	R1-69	O2	0.82	7.18	3.59	2.944		
		R1-69	O3	0.12	7.18	3.59	0.431		
		R1-70	O1	0.83	7.18	3.59	2.980		
		R1-70	O2	0.87	7.18	3.59	3.123		
		R1-70	O3	0.33	7.18	3.59	1.185		13.643
R1-70	R1-71	R1-70	O1	0.83	20.00	10.00	8.300		
840.00	860.00	R1-70	O2	0.87	20.00	10.00	8.700		
		R1-70	O3	0.33	20.00	10.00	3.300		
A RIPORTARE mc							20.300	1060.146	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DEI VOLUMI				Foglio n. 140			
GRADONATURA									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc	
A RIPORTARE mc							20.300	1060.146	
R1-71 860.00	R1-72 879.15	R1-72 R1-72	O1 O2	0.88 0.39	19.15 19.15	9.57 9.57	8.422 3.732	20.300	
								12.154	
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			1092.600	

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI			Foglio n. 141			
SEMINA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R1-1	R1-2	R1-1	a1	4.41	20.15	10.07	44.41	44.41
R1-2	R1-3	R1-3	a1	6.89	12.09	6.05	41.68	41.68
R1-3	R1-4	R1-3	a1	6.89	0.01	0.00	0.00	
R1-3	R1-4	R1-4	a1	6.89	0.01	0.00	0.00	
R1-4	R1-5	R1-4	a1	6.89	7.75	3.88	26.73	
32.25	40.00	R1-5	a1	1.30	7.75	3.88	5.04	
		R1-5	a2	2.80	7.75	3.88	10.86	42.63
R1-5	R1-6	R1-5	a1	1.30	20.00	10.00	13.00	
40.00	60.00	R1-5	a2	2.80	20.00	10.00	28.00	
		R1-6	a1	1.30	20.00	10.00	13.00	54.00
R1-6	R1-7	R1-6	a1	1.30	20.00	10.00	13.00	
60.00	80.00	R1-7	a1	9.59	20.00	10.00	95.90	108.90
R1-7	R1-8	R1-7	a1	9.59	4.37	2.19	21.00	
80.00	84.37	R1-8	a1	7.45	4.37	2.19	16.32	37.32
R1-8	R1-9	R1-8	a1	7.45	15.63	7.81	58.18	
84.37	100.00	R1-9	a1	3.04	15.63	7.81	23.74	81.92
R1-9	R1-10	R1-9	a1	3.04	14.79	7.40	22.50	22.50
R1-13	R1-14	R1-14	a1	2.66	8.60	4.30	11.44	11.44
R1-14	R1-15	R1-14	a1	2.66	12.88	6.44	17.13	17.13
R1-18	R1-18b	R1-18b	a1	4.32	0.01	0.00	0.00	
R1-18	R1-18b	R1-18b	a2	28.34	0.01	0.00	0.00	
R1-18b	R1-19	R1-18b	a1	4.32	9.15	4.58	19.79	
190.85	200.00	R1-18b	a2	28.34	9.15	4.58	129.80	149.59
R1-20b	R1-21	R1-21	a1	4.91	20.00	10.00	49.10	49.10
R1-21	R1-22	R1-21	a1	4.91	20.19	10.09	49.54	49.54
R1-28	R1-28b	R1-28b	a1	19.71	0.01	0.00	0.00	
R1-28b	R1-29	R1-28b	a1	19.71	19.07	9.53	187.84	
340.93	360.00	R1-29	a1	21.69	19.07	9.53	206.71	
		R1-29	a2	20.70	19.07	9.53	197.27	591.82
R1-29	R1-30	R1-29	a1	21.69	22.06	11.03	239.24	
360.00	382.06	R1-29	a2	20.70	22.06	11.03	228.32	
		R1-30	a1	18.62	22.06	11.03	205.38	
		R1-30	a2	21.02	22.06	11.03	231.85	904.79
R1-30	R1-31	R1-30	a1	18.62	17.94	8.97	167.02	
382.06	400.00	R1-30	a2	21.02	17.94	8.97	188.55	
		R1-31	a1	18.54	17.94	8.97	166.30	
A RIPORTARE mq							521.87	2206.77

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 142			
SEMINA									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq							521.87	2206.77	
R1-31 400.00	R1-32 409.76	R1-31	a2	26.25	17.94	8.97	235.46	757.33	
		R1-31	a1	18.54	9.76	4.88	90.48		
		R1-31	a2	26.25	9.76	4.88	128.10		
		R1-32	a1	18.64	9.76	4.88	90.96		
		R1-32	a2	31.43	9.76	4.88	153.38		462.92
R1-32 409.76	R1-33 420.00	R1-32	a1	18.64	10.24	5.12	95.44		
		R1-32	a2	31.43	10.24	5.12	160.92		
		R1-33	a1	18.59	10.24	5.12	95.18		
		R1-33	a2	25.68	10.24	5.12	131.48		483.02
R1-33 420.00	R1-34 440.00	R1-33	a1	18.59	20.00	10.00	185.90		
		R1-33	a2	25.68	20.00	10.00	256.80		
		R1-34	a1	17.87	20.00	10.00	178.70		
		R1-34	a2	25.96	20.00	10.00	259.60		881.00
R1-34 440.00	R1-35 455.35	R1-34	a1	17.87	15.35	7.68	137.24		
		R1-34	a2	25.96	15.35	7.68	199.37		
		R1-35	a1	16.74	15.35	7.68	128.56		
		R1-35	a2	26.00	15.35	7.68	199.68		664.85
R1-35 455.35	R1-36 460.00	R1-35	a1	16.74	4.65	2.32	38.84		
		R1-35	a2	26.00	4.65	2.32	60.32		
		R1-36	a1	16.31	4.65	2.32	37.84		
		R1-36	a2	25.96	4.65	2.32	60.23		197.23
R1-36 460.00	R1-37 480.00	R1-36	a1	16.31	20.00	10.00	163.10		
		R1-36	a2	25.96	20.00	10.00	259.60		
		R1-37	a1	13.88	20.00	10.00	138.80		
		R1-37	a2	14.08	20.00	10.00	140.80		702.30
R1-37 480.00	R1-38 500.95	R1-37	a1	13.88	20.95	10.47	145.32		
		R1-37	a2	14.08	20.95	10.47	147.42		
		R1-38	a1	10.38	20.95	10.47	108.68		
		R1-38	a2	11.79	20.95	10.47	123.44		524.86
R1-38 500.95	R1-39 520.00	R1-38	a1	10.38	19.05	9.53	98.92		
		R1-38	a2	11.79	19.05	9.53	112.36		
		R1-39	a1	6.29	19.05	9.53	59.94		
		R1-39	a2	9.67	19.05	9.53	92.16		363.38
R1-39 520.00	R1-40 528.64	R1-39	a1	6.29	8.64	4.32	27.17		
		R1-39	a2	9.67	8.64	4.32	41.77		
		R1-40	a1	4.37	8.64	4.32	18.88		
		R1-40	a2	9.17	8.64	4.32	39.61		127.43
R1-40 528.64	R1-41 532.63	R1-40	a1	4.37	3.99	2.00	8.74		
		R1-40	a2	9.17	3.99	2.00	18.34		
A RIPORTARE mq							27.08	7371.09	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 143			
SEMINA									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq							27.08	7371.09	
R1-41 532.63	R1-42 540.00	R1-41	a1	3.54	3.99	2.00	7.08	51.64	
		R1-41	a2	8.74	3.99	2.00	17.48		
		R1-41	a1	3.54	7.37	3.69	13.06	85.61	
		R1-41	a2	8.74	7.37	3.69	32.25		
		R1-42	a1	8.79	7.37	3.69	32.44		
		R1-42	a2	2.13	7.37	3.69	7.86		
R1-42 540.00	R1-43 546.20	R1-42	a1	8.79	6.20	3.10	27.25		
		R1-42	a2	2.13	6.20	3.10	6.60	60.32	
		R1-43	a1	8.54	6.20	3.10	26.47		
R1-43 546.21	R1-44 560.00	R1-43	a1	8.54	0.01	0.00	0.00	113.27	
		R1-44	a1	8.54	0.01	0.00	0.00		
		R1-44	a1	8.54	13.79	6.89	58.84		
		R1-45	a1	7.90	13.79	6.89	54.43		
R1-45 560.00	R1-46 580.00	R1-45	a1	7.90	20.00	10.00	79.00		
		R1-46	a1	6.78	20.00	10.00	67.80	146.80	
R1-46 580.00	R1-47 582.63	R1-46	a1	6.78	2.63	1.31	8.88		
		R1-47	a1	6.73	2.63	1.31	8.82	17.70	
R1-47 582.63	R1-48 595.46	R1-47	a1	6.73	12.83	6.42	43.21		
		R1-48	a1	6.68	12.83	6.42	42.89	86.10	
R1-48 595.46	R1-49 600.00	R1-48	a1	6.68	4.54	2.27	15.16		
		R1-49	a1	6.67	4.54	2.27	15.14	30.30	
R1-49 600.00	R1-50 608.29	R1-49	a1	6.67	8.29	4.14	27.61		
		R1-50	a1	6.44	8.29	4.14	26.66	54.27	
R1-50 608.29	R1-51 614.99	R1-50	a1	6.44	6.70	3.35	21.57		
		R1-51	a1	6.20	6.70	3.35	20.77	42.34	
R1-51 615.00	R1-52 620.00	R1-51	a1	6.20	0.01	0.00	0.00		
		R1-52	a1	6.20	0.01	0.00	0.00	30.68	
		R1-52	a1	6.20	5.00	2.50	15.50		
		R1-53	a1	6.07	5.00	2.50	15.18	88.30	
R1-53 620.00	R1-54 640.00	R1-53	a1	6.07	20.00	10.00	60.70		
		R1-54	a1	5.18	20.00	10.00	51.80	112.50	
R1-54 640.00	R1-55 658.29	R1-54	a1	5.18	18.29	9.14	47.35		
		R1-55	a1	4.48	18.29	9.14	40.95	88.30	
R1-55 658.29	R1-56 659.15	R1-55	a1	4.48	0.86	0.43	1.93		
		R1-56	a1	3.74	0.86	0.43	1.61	3.54	
A RIPORTARE mq								8294.46	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 144		
SEMINA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
A RIPORTARE mq								8294.46
R1-56 659.15	R1-57 660.00	R1-56 R1-57	a1 a1	3.74 2.68	0.85 0.85	0.43 0.43	1.61 1.15	2.76
R1-57 660.00	R1-58 680.00	R1-57 R1-58	a1 a1	2.68 3.32	20.00 20.00	10.00 10.00	26.80 33.20	60.00
R1-58 680.00	R1-59 694.82	R1-58 R1-59 R1-59	a1 a1 a2	3.32 6.50 3.38	14.82 14.82 14.82	7.41 7.41 7.41	24.60 48.16 25.05	97.81
R1-59 R1-59 R1-60 R1-60b R1-60b 704.83	R1-59b R1-59b R1-60b R1-60b R1-61 714.87	R1-59 R1-59 R1-60b R1-60b R1-60b R1-61 R1-60b R1-61 R1-61	a1 a2 a1 a2 a1 a1 a2 a1 a2	6.50 3.38 11.30 2.97 11.30 2.97 5.21 2.86	0.01 0.01 0.01 0.01 10.04 10.04 10.04 10.04	0.00 0.00 0.00 0.00 5.02 5.02 5.02 5.02	0.00 0.00 0.00 0.00 56.73 14.91 26.15 14.36	112.15
R1-61 714.87	R1-62 720.00	R1-61 R1-61 R1-62 R1-62	a1 a2 a1 a2	5.21 2.86 5.45 2.63	5.13 5.13 5.13 5.13	2.56 2.56 2.56 2.56	13.34 7.32 13.95 6.73	41.34
R1-62 720.00	R1-63 740.00	R1-62 R1-62 R1-63 R1-63	a1 a2 a1 a2	5.45 2.63 6.97 1.89	20.00 20.00 20.00 20.00	10.00 10.00 10.00 10.00	54.50 26.30 69.70 18.90	169.40
R1-63 740.00	R1-64 760.00	R1-63 R1-63 R1-64	a1 a2 a1	6.97 1.89 5.55	20.00 20.00 20.00	10.00 10.00 10.00	69.70 18.90 55.50	144.10
R1-64 760.00	R1-65 773.85	R1-64 R1-65	a1 a1	5.55 4.77	13.85 13.85	6.93 6.93	38.46 33.06	71.52
R1-65 773.85	R1-66 780.00	R1-65 R1-66	a1 a1	4.77 4.97	6.15 6.15	3.07 3.07	14.64 15.26	29.90
R1-66 780.00	R1-67 800.00	R1-66 R1-67	a1 a1	4.97 6.36	20.00 20.00	10.00 10.00	49.70 63.60	113.30
R1-67 800.00	R1-68 820.00	R1-67 R1-68	a1 a1	6.36 5.87	20.00 20.00	10.00 10.00	63.60 58.70	122.30
R1-68 820.00	R1-69 832.82	R1-68 R1-69	a1 a1	5.87 6.57	12.82 12.82	6.41 6.41	37.63 42.11	79.74
R1-69	R1-70	R1-69	a1	6.57	7.18	3.59	23.59	
A RIPORTARE mq							23.59	9338.78

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 145		
SEMINA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
A RIPORTARE mq							23.59	9338.78
832.82	840.00	R1-70	a1	6.78	7.18	3.59	24.34	47.93
R1-70	R1-71	R1-70	a1	6.78	20.00	10.00	67.80	67.80
R1-71	R1-72	R1-72	a1	4.44	19.15	9.57	42.49	71.39
860.00	879.15	R1-72	a2	3.02	19.15	9.57	28.90	
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			9525.90

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 146		
SEMINA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R1-5	R1-6	R1-6	b1	3.82	20.00	10.00	38.20	38.20
R1-6	R1-7	R1-6	b1	3.82	20.00	10.00	38.20	88.90
60.00	80.00	R1-7	b1	5.07	20.00	10.00	50.70	
R1-7	R1-8	R1-7	b1	5.07	4.37	2.19	11.10	21.92
80.00	84.37	R1-8	b1	4.94	4.37	2.19	10.82	
R1-8	R1-9	R1-8	b1	4.94	15.63	7.81	38.58	71.38
84.37	100.00	R1-9	b1	4.20	15.63	7.81	32.80	
R1-9	R1-10	R1-9	b1	4.20	14.79	7.40	31.08	53.21
100.00	114.79	R1-10	b1	2.99	14.79	7.40	22.13	
R1-10	R1-11	R1-10	b1	2.99	0.01	0.00	0.00	14.66
R1-10	R1-11	R1-11	b1	2.99	0.01	0.00	0.00	
R1-11	R1-12	R1-11	b1	2.99	5.20	2.60	7.77	
114.80	120.00	R1-12	b1	2.65	5.20	2.60	6.89	
R1-12	R1-13	R1-12	b1	2.65	20.00	10.00	26.50	42.20
120.00	140.00	R1-13	b1	1.57	20.00	10.00	15.70	
R1-13	R1-14	R1-13	b1	1.57	8.60	4.30	6.75	6.75
R1-20b	R1-21	R1-21	b1	10.23	20.00	10.00	102.30	102.30
R1-21	R1-22	R1-21	b1	10.23	20.19	10.09	103.22	103.22
R1-51	R1-52	R1-52	b1	31.58	0.01	0.00	0.00	164.65
R1-52	R1-53	R1-52	b1	31.58	5.00	2.50	78.95	
615.00	620.00	R1-53	b1	34.28	5.00	2.50	85.70	
R1-53	R1-54	R1-53	b1	34.28	20.00	10.00	342.80	669.90
620.00	640.00	R1-54	b1	32.71	20.00	10.00	327.10	
R1-54	R1-55	R1-54	b1	32.71	18.29	9.14	298.97	628.74
640.00	658.29	R1-55	b1	36.08	18.29	9.14	329.77	
R1-55	R1-56	R1-55	b1	36.08	0.86	0.43	15.51	30.98
658.29	659.15	R1-56	b1	35.97	0.86	0.43	15.47	
R1-56	R1-57	R1-56	b1	35.97	0.85	0.43	15.47	30.09
659.15	660.00	R1-57	b1	34.00	0.85	0.43	14.62	
R1-57	R1-58	R1-57	b1	34.00	20.00	10.00	340.00	374.30
660.00	680.00	R1-58	b1	3.43	20.00	10.00	34.30	
R1-58	R1-59	R1-58	b1	3.43	14.82	7.41	25.42	25.42
Il Direttore dei Lavori			L'Impresa			TOTALE ARTICOLO		2466.82

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI			Foglio n. 147			
SCOTICO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R1-1	R1-2	R1-1	c1	9.64	20.15	10.07	97.07	97.07
R1-2	R1-3	R1-3	c1	3.26	12.09	6.05	19.72	
20.15	32.24	R1-3	c2	5.56	12.09	6.05	33.64	53.36
R1-3	R1-4	R1-3	c1	3.26	0.01	0.00	0.00	
R1-3	R1-4	R1-3	c2	5.56	0.01	0.00	0.00	
R1-3	R1-4	R1-4	c1	4.45	0.01	0.00	0.00	
R1-3	R1-4	R1-4	c2	5.56	0.01	0.00	0.00	
R1-4	R1-5	R1-4	c1	4.45	7.75	3.88	17.27	
32.25	40.00	R1-4	c2	5.56	7.75	3.88	21.57	
		R1-5	c1	11.06	7.75	3.88	42.91	81.75
R1-5	R1-6	R1-5	c1	11.06	20.00	10.00	110.60	110.60
R1-13	R1-14	R1-14	c1	1.27	8.60	4.30	5.46	5.46
R1-14	R1-15	R1-14	c1	1.27	12.88	6.44	8.18	
148.60	161.48	R1-15	c1	11.68	12.88	6.44	75.22	83.40
R1-15	R1-16	R1-15	c1	11.68	1.47	0.73	8.53	
161.48	162.95	R1-16	c1	3.33	1.47	0.73	2.43	
		R1-16	c2	5.53	1.47	0.73	4.04	15.00
R1-16	R1-16b	R1-16	c1	3.33	0.01	0.01	0.03	
162.95	162.96	R1-16	c2	5.53	0.01	0.01	0.06	0.09
R1-17	R1-18	R1-18	c1	3.37	10.84	5.42	18.27	18.27
R1-18	R1-18b	R1-18	c1	3.37	0.01	0.00	0.00	
R1-18	R1-18b	R1-18b	c1	5.60	0.01	0.00	0.00	
R1-18	R1-18b	R1-18b	c2	7.02	0.01	0.00	0.00	
R1-18b	R1-19	R1-18b	c1	5.60	9.15	4.58	25.65	
190.85	200.00	R1-18b	c2	7.02	9.15	4.58	32.15	57.80
R1-19	R1-20	R1-20	c1	0.65	10.84	5.42	3.52	3.52
R1-20	R1-20b	R1-20	c1	0.65	9.16	4.58	2.98	
210.84	220.00	R1-20b	c1	4.17	9.16	4.58	19.10	22.08
R1-20b	R1-21	R1-20b	c1	4.17	20.00	10.00	41.70	41.70
R1-21	R1-22	R1-22	c1	1.93	20.19	10.09	19.47	19.47
R1-22	R1-23	R1-22	c1	1.93	17.54	8.77	16.93	
260.19	277.73	R1-23	c1	9.23	17.54	8.77	80.95	97.88
R1-23	R1-23b	R1-23	c1	9.23	0.01	0.00	0.00	
R1-28	R1-28b	R1-28b	c1	26.15	0.01	0.00	0.00	
R1-28b	R1-29	R1-28b	c1	26.15	19.07	9.53	249.21	
340.93	360.00	R1-29	c1	47.61	19.07	9.53	453.72	
A RIPORTARE mq							702.93	1410.38

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI						Foglio n. 148	
SCOTICO									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq							702.93	1410.38	
R1-29 360.00	R1-30 382.06	R1-29 R1-30	c1 c1	47.61 8.91	22.06 22.06	11.03 11.03	525.14 98.28		702.93
		R1-30 R1-30	c2 c3	3.84 5.85	22.06 22.06	11.03 11.03	42.36 64.53		
		R1-30	c4	5.60	22.06	11.03	61.77		792.08
R1-30 382.06	R1-31 400.00	R1-30 R1-30	c1 c2	8.91 3.84	17.94 17.94	8.97 8.97	79.92 34.44		
		R1-30 R1-30	c3 c4	5.85 5.60	17.94 17.94	8.97 8.97	52.47 50.23		
		R1-31	c1	50.10	17.94	8.97	449.40		666.46
R1-31 400.00	R1-32 409.76	R1-31 R1-32	c1 c1	50.10 54.83	9.76 9.76	4.88 4.88	244.49 267.57		512.06
R1-32 409.76	R1-33 420.00	R1-32 R1-33	c1 c1	54.83 50.16	10.24 10.24	5.12 5.12	280.73 256.82		537.55
R1-33 420.00	R1-34 440.00	R1-33 R1-34	c1 c1	50.16 50.07	20.00 20.00	10.00 10.00	501.60 500.70		1002.30
R1-34 440.00	R1-35 455.35	R1-34 R1-35	c1 c1	50.07 49.41	15.35 15.35	7.68 7.68	384.54 379.47		764.01
R1-35 455.35	R1-36 460.00	R1-35 R1-36	c1 c1	49.41 48.98	4.65 4.65	2.32 2.32	114.63 113.63		228.26
R1-36 460.00	R1-37 480.00	R1-36 R1-37	c1 c1	48.98 35.89	20.00 20.00	10.00 10.00	489.80 358.90		848.70
R1-37 480.00	R1-38 500.95	R1-37 R1-38	c1 c1	35.89 33.55	20.95 20.95	10.47 10.47	375.77 351.27		727.04
R1-38 500.95	R1-39 520.00	R1-38 R1-39	c1 c1	33.55 15.08	19.05 19.05	9.53 9.53	319.73 143.71		476.88
		R1-39	c2	1.41	19.05	9.53	13.44		
R1-39 520.00	R1-40 528.64	R1-39 R1-39	c1 c2	15.08 1.41	8.64 8.64	4.32 4.32	65.15 6.09		
		R1-40 R1-40	c1 c2	11.79 2.78	8.64 8.64	4.32 4.32	50.93 12.01		134.18
R1-40 528.64	R1-41 532.63	R1-40 R1-40	c1 c2	11.79 2.78	3.99 3.99	2.00 2.00	23.58 5.56		
		R1-41 R1-41	c1 c2	0.00 10.60	3.99 3.99	2.00 2.00	0.00 21.20		
		R1-41	c3	3.41	3.99	2.00	6.82		57.16
A RIPORTARE mq								8157.06	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA	<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 149		
SCOTICO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
A RIPORTARE mq								8157.06
R1-41	R1-42	R1-41	c1	0.00	7.37	3.69	0.00	
R1-41	R1-42	R1-41	c2	10.60	7.37	3.69	39.11	
532.63	540.00	R1-41	c3	3.41	7.37	3.69	12.58	
		R1-42	c1	4.76	7.37	3.69	17.56	
		R1-42	c2	4.25	7.37	3.69	15.68	
		R1-42	c3	1.63	7.37	3.69	6.01	
								90.94
R1-42	R1-43	R1-42	c1	4.76	6.20	3.10	14.76	
540.00	546.20	R1-42	c2	4.25	6.20	3.10	13.18	
		R1-42	c3	1.63	6.20	3.10	5.05	
		R1-43	c1	2.88	6.20	3.10	8.93	
		R1-43	c2	2.41	6.20	3.10	7.47	
		R1-43	c3	5.59	6.20	3.10	17.33	
								66.72
R1-43	R1-44	R1-43	c1	2.88	0.01	0.00	0.00	
R1-43	R1-44	R1-43	c2	2.41	0.01	0.00	0.00	
R1-43	R1-44	R1-43	c3	5.59	0.01	0.00	0.00	
R1-43	R1-44	R1-44	c1	5.28	0.01	0.00	0.00	
R1-43	R1-44	R1-44	c2	2.40	0.01	0.00	0.00	
R1-43	R1-44	R1-44	c3	5.59	0.01	0.00	0.00	
R1-44	R1-45	R1-44	c1	5.28	13.79	6.89	36.38	
546.21	560.00	R1-44	c2	2.40	13.79	6.89	16.54	
		R1-44	c3	5.59	13.79	6.89	38.52	
		R1-45	c1	7.77	13.79	6.89	53.54	
								144.98
R1-45	R1-46	R1-45	c1	7.77	20.00	10.00	77.70	
560.00	580.00	R1-46	c1	2.31	20.00	10.00	23.10	
								100.80
R1-46	R1-47	R1-46	c1	2.31	2.63	1.31	3.03	
580.00	582.63	R1-47	c1	1.85	2.63	1.31	2.42	
								5.45
R1-47	R1-48	R1-47	c1	1.85	12.83	6.42	11.88	
								11.88
R1-53	R1-54	R1-54	c1	1.93	20.00	10.00	19.30	
								19.30
R1-54	R1-55	R1-54	c1	1.93	18.29	9.14	17.64	
640.00	658.29	R1-55	c1	0.00	18.29	9.14	0.00	
		R1-55	c2	1.17	18.29	9.14	10.69	
								28.33
R1-55	R1-56	R1-55	c1	0.00	0.86	0.43	0.00	
R1-55	R1-56	R1-55	c2	1.17	0.86	0.43	0.50	
658.29	659.15	R1-56	c1	1.46	0.86	0.43	0.63	
								1.13
R1-56	R1-57	R1-56	c1	1.46	0.85	0.43	0.63	
								0.63
R1-57	R1-58	R1-58	c1	1.49	20.00	10.00	14.90	
								14.90
R1-58	R1-59	R1-58	c1	1.49	14.82	7.41	11.04	
680.00	694.82	R1-59	c1	3.61	14.82	7.41	26.75	
								14.90
A RIPORTARE mq							37.79	8642.12

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 150			
SCOTICO									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq							37.79	8642.12	
R1-59	R1-59b	R1-59	c2	3.61	14.82	7.41	26.75		64.54
R1-59	R1-59b	R1-59	c1	3.61	0.01	0.00	0.00		
R1-59	R1-59b	R1-59	c2	3.61	0.01	0.00	0.00		
R1-60	R1-60b	R1-60b	c1	14.23	0.01	0.00	0.00		
R1-60	R1-60b	R1-60b	c2	4.94	0.01	0.00	0.00		
R1-60	R1-60b	R1-60b	c3	1.19	0.01	0.00	0.00		
R1-60b	R1-61	R1-60b	c1	14.23	10.04	5.02	71.43		
704.83	714.87	R1-60b	c2	4.94	10.04	5.02	24.80		
		R1-60b	c3	1.19	10.04	5.02	5.97		
		R1-61	c1	10.19	10.04	5.02	51.15		164.29
		R1-61	c2	2.18	10.04	5.02	10.94		
R1-61	R1-62	R1-61	c1	10.19	5.13	2.56	26.09		
714.87	720.00	R1-61	c2	2.18	5.13	2.56	5.58		
		R1-62	c1	1.25	5.13	2.56	3.20		
		R1-62	c2	9.31	5.13	2.56	23.83		58.70
R1-62	R1-63	R1-62	c1	1.25	20.00	10.00	12.50		
720.00	740.00	R1-62	c2	9.31	20.00	10.00	93.10		
		R1-63	c1	0.98	20.00	10.00	9.80		
		R1-63	c2	7.41	20.00	10.00	74.10		189.50
R1-63	R1-64	R1-63	c1	0.98	20.00	10.00	9.80		
740.00	760.00	R1-63	c2	7.41	20.00	10.00	74.10		
		R1-64	c1	5.11	20.00	10.00	51.10		135.00
R1-64	R1-65	R1-64	c1	5.11	13.85	6.93	35.41		
760.00	773.85	R1-65	c1	0.60	13.85	6.93	4.16		39.57
R1-65	R1-66	R1-65	c1	0.60	6.15	3.07	1.84		
773.85	780.00	R1-66	c1	0.61	6.15	3.07	1.87		3.71
R1-66	R1-67	R1-66	c1	0.61	20.00	10.00	6.10		
780.00	800.00	R1-67	c1	0.00	20.00	10.00	0.00		
		R1-67	c2	2.00	20.00	10.00	20.00		26.10
R1-67	R1-68	R1-67	c1	0.00	20.00	10.00	0.00		
R1-67	R1-68	R1-67	c2	2.00	20.00	10.00	20.00		
800.00	820.00	R1-68	c1	0.00	20.00	10.00	0.00		
		R1-68	c2	1.39	20.00	10.00	13.90		33.90
R1-68	R1-69	R1-68	c1	0.00	12.82	6.41	0.00		
R1-68	R1-69	R1-68	c2	1.39	12.82	6.41	8.91		
820.00	832.82	R1-69	c1	0.99	12.82	6.41	6.35		15.26
R1-69	R1-70	R1-69	c1	0.99	7.18	3.59	3.55		3.55
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			9376.24	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI			Foglio n. 151			
SCOTICO SU GRADONATURA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R1-2	R1-3	R1-3	e1	3.59	12.09	6.05	21.72	21.72
R1-3	R1-4	R1-3	e1	3.59	0.01	0.00	0.00	
R1-3	R1-4	R1-4	e1	3.57	0.01	0.00	0.00	
R1-4	R1-5	R1-4	e1	3.57	7.75	3.88	13.85	13.85
R1-15	R1-16	R1-16	e1	2.81	1.47	0.73	2.05	2.05
R1-16	R1-16b	R1-16	e1	2.81	0.01	0.01	0.03	0.03
R1-17	R1-18	R1-18	e1	8.16	10.84	5.42	44.23	44.23
R1-18	R1-18b	R1-18	e1	8.16	0.01	0.00	0.00	
R1-18	R1-18b	R1-18b	e1	6.20	0.01	0.00	0.00	
R1-18	R1-18b	R1-18b	e2	23.38	0.01	0.00	0.00	
R1-18b	R1-19	R1-18b	e1	6.20	9.15	4.58	28.40	
190.85	200.00	R1-18b	e2	23.38	9.15	4.58	107.08	135.48
R1-19	R1-20	R1-20	e1	1.75	10.84	5.42	9.48	9.48
R1-20	R1-20b	R1-20	e1	1.75	9.16	4.58	8.02	
210.84	220.00	R1-20b	e1	3.58	9.16	4.58	16.40	24.42
R1-20b	R1-21	R1-20b	e1	3.58	20.00	10.00	35.80	
220.00	240.00	R1-21	e1	5.79	20.00	10.00	57.90	
		R1-21	e2	8.41	20.00	10.00	84.10	177.80
R1-21	R1-22	R1-21	e1	5.79	20.19	10.09	58.42	
240.00	260.19	R1-21	e2	8.41	20.19	10.09	84.86	
		R1-22	e1	9.05	20.19	10.09	91.31	234.59
R1-22	R1-23	R1-22	e1	9.05	17.54	8.77	79.37	79.37
R1-29	R1-30	R1-30	e1	3.27	22.06	11.03	36.07	
360.00	382.06	R1-30	e2	1.95	22.06	11.03	21.51	
		R1-30	e3	9.43	22.06	11.03	104.01	
		R1-30	e4	10.14	22.06	11.03	111.84	273.43
R1-30	R1-31	R1-30	e1	3.27	17.94	8.97	29.33	
382.06	400.00	R1-30	e2	1.95	17.94	8.97	17.49	
		R1-30	e3	9.43	17.94	8.97	84.59	
		R1-30	e4	10.14	17.94	8.97	90.96	222.37
R1-38	R1-39	R1-39	e1	8.12	19.05	9.53	77.38	77.38
R1-39	R1-40	R1-39	e1	8.12	8.64	4.32	35.08	
520.00	528.64	R1-40	e1	7.53	8.64	4.32	32.53	67.61
R1-40	R1-41	R1-40	e1	7.53	3.99	2.00	15.06	
528.64	532.63	R1-41	e1	6.87	3.99	2.00	13.74	28.80
A RIPORTARE mq								1412.61

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 152			
SCOTICO SU GRADONATURA									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq								1412.61	
R1-41 532.63	R1-42 540.00	R1-41 R1-42 R1-42	e1 e1 e2	6.87 3.26 5.93	7.37 7.37 7.37	3.69 3.69 3.69	25.35 12.03 21.88	59.26	
R1-42 540.00	R1-43 546.20	R1-42 R1-42 R1-43 R1-43	e1 e2 e1 e2	3.26 5.93 2.99 4.45	6.20 6.20 6.20 6.20	3.10 3.10 3.10 3.10	10.11 18.38 9.27 13.80	51.56	
R1-43 R1-43 R1-43 R1-43 R1-44 546.21	R1-44 R1-44 R1-44 R1-44 R1-45 560.00	R1-43 R1-43 R1-44 R1-44 R1-44 R1-44 R1-44 R1-45	e1 e2 e1 e2 e1 e2 e1	2.99 4.45 2.99 4.45 2.99 4.45 4.45 6.51	0.01 0.01 0.01 0.01 13.79 13.79 13.79	0.00 0.00 0.00 0.00 6.89 6.89 6.89	0.00 0.00 0.00 0.00 20.60 30.66 44.85	96.11	
R1-45 560.00	R1-46 580.00	R1-45 R1-46	e1 e1	6.51 4.64	20.00 20.00	10.00 10.00	65.10 46.40	111.50	
R1-46 580.00	R1-47 582.63	R1-46 R1-47	e1 e1	4.64 4.44	2.63 2.63	1.31 1.31	6.08 5.82	11.90	
R1-47 582.63	R1-48 595.46	R1-47 R1-48	e1 e1	4.44 5.47	12.83 12.83	6.42 6.42	28.50 35.12	63.62	
R1-48 595.46	R1-49 600.00	R1-48 R1-49	e1 e1	5.47 5.25	4.54 4.54	2.27 2.27	12.42 11.92	24.34	
R1-49	R1-50	R1-49	e1	5.25	8.29	4.14	21.73	21.73	
R1-51 R1-52	R1-52 R1-53	R1-52 R1-52	e1 e1	4.99 4.99	0.01 5.00	0.00 2.50	0.00 12.48	12.48	
R1-53	R1-54	R1-54	e1	3.17	20.00	10.00	31.70	31.70	
R1-54 640.00	R1-55 658.29	R1-54 R1-55	e1 e1	3.17 2.70	18.29 18.29	9.14 9.14	28.97 24.68	53.65	
R1-55 658.29	R1-56 659.15	R1-55 R1-56	e1 e1	2.70 2.21	0.86 0.86	0.43 0.43	1.16 0.95	2.11	
R1-56	R1-57	R1-56	e1	2.21	0.85	0.43	0.95	0.95	
R1-58 680.00	R1-59 694.82	R1-59 R1-59 R1-59	e3 e1 e2	7.28 5.44 1.08	14.82 14.82 14.82	7.41 7.41 7.41	53.94 40.31 8.00	102.25	
R1-59	R1-59b	R1-59	e3	7.28	0.01	0.00	0.00		
A RIPORTARE mq								2055.77	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 153		
SCOTICO SU GRADONATURA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
A RIPORTARE mq								2055.77
R1-59	R1-59b	R1-59	e1	5.44	0.01	0.00	0.00	
R1-59	R1-59b	R1-59	e2	1.08	0.01	0.00	0.00	
R1-60b	R1-61	R1-61	e1	3.41	10.04	5.02	17.12	17.12
R1-61	R1-62	R1-61	e1	3.41	5.13	2.56	8.73	
714.87	720.00	R1-62	e1	3.77	5.13	2.56	9.65	18.38
R1-62	R1-63	R1-62	e1	3.77	20.00	10.00	37.70	
720.00	740.00	R1-63	e1	4.59	20.00	10.00	45.90	83.60
R1-63	R1-64	R1-63	e1	4.59	20.00	10.00	45.90	
740.00	760.00	R1-64	e1	3.76	20.00	10.00	37.60	83.50
R1-64	R1-65	R1-64	e1	3.76	13.85	6.93	26.06	
760.00	773.85	R1-65	e2	1.92	13.85	6.93	13.31	
		R1-65	e1	4.06	13.85	6.93	28.14	67.51
R1-65	R1-66	R1-65	e2	1.92	6.15	3.07	5.89	
773.85	780.00	R1-65	e1	4.06	6.15	3.07	12.46	
		R1-66	e2	1.76	6.15	3.07	5.40	
		R1-66	e1	4.36	6.15	3.07	13.39	37.14
R1-66	R1-67	R1-66	e2	1.76	20.00	10.00	17.60	
780.00	800.00	R1-66	e1	4.36	20.00	10.00	43.60	
		R1-67	e1	4.40	20.00	10.00	44.00	105.20
R1-67	R1-68	R1-67	e1	4.40	20.00	10.00	44.00	
800.00	820.00	R1-68	e1	3.58	20.00	10.00	35.80	79.80
R1-68	R1-69	R1-68	e1	3.58	12.82	6.41	22.95	
820.00	832.82	R1-69	e1	4.57	12.82	6.41	29.29	52.24
R1-69	R1-70	R1-69	e1	4.57	7.18	3.59	16.41	
832.82	840.00	R1-70	e1	5.56	7.18	3.59	19.96	36.37
R1-70	R1-71	R1-70	e1	5.56	20.00	10.00	55.60	55.60
R1-71	R1-72	R1-72	e1	3.37	19.15	9.57	32.25	32.25
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			2724.48

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI			Foglio n. 154			
BONIFICA RILEVATO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R1-1	R1-2	R1-1	f1	9.64	20.15	10.07	97.07	97.07
R1-2	R1-3	R1-3	f1	3.26	12.09	6.05	19.72	53.36
20.15	32.24	R1-3	f2	5.56	12.09	6.05	33.64	
R1-3	R1-4	R1-3	f1	3.26	0.01	0.00	0.00	81.75
R1-3	R1-4	R1-3	f2	5.56	0.01	0.00	0.00	
R1-3	R1-4	R1-4	f1	4.45	0.01	0.00	0.00	
R1-3	R1-4	R1-4	f2	5.56	0.01	0.00	0.00	
R1-4	R1-5	R1-4	f1	4.45	7.75	3.88	17.27	
32.25	40.00	R1-4	f2	5.56	7.75	3.88	21.57	
		R1-5	f1	11.06	7.75	3.88	42.91	
R1-5	R1-6	R1-5	f1	11.06	20.00	10.00	110.60	110.60
R1-13	R1-14	R1-14	f1	1.27	8.60	4.30	5.46	5.46
R1-14	R1-15	R1-14	f1	1.27	12.88	6.44	8.18	83.40
148.60	161.48	R1-15	f1	11.68	12.88	6.44	75.22	
R1-15	R1-16	R1-15	f1	11.68	1.47	0.73	8.53	15.00
161.48	162.95	R1-16	f1	3.33	1.47	0.73	2.43	
		R1-16	f2	5.53	1.47	0.73	4.04	
R1-16	R1-16b	R1-16	f1	3.33	0.01	0.01	0.03	0.09
162.95	162.96	R1-16	f2	5.53	0.01	0.01	0.06	
R1-17	R1-18	R1-18	f1	3.37	10.84	5.42	18.27	18.27
R1-18	R1-18b	R1-18	f1	3.37	0.01	0.00	0.00	57.80
R1-18	R1-18b	R1-18b	f2	7.02	0.01	0.00	0.00	
R1-18	R1-18b	R1-18b	f1	5.60	0.01	0.00	0.00	
R1-18b	R1-19	R1-18b	f2	7.02	9.15	4.58	32.15	
190.85	200.00	R1-18b	f1	5.60	9.15	4.58	25.65	
		R1-19	f1	0.65	10.84	5.42	3.52	
R1-19	R1-20	R1-20	f1	0.65	10.84	5.42	3.52	3.52
R1-20	R1-20b	R1-20	f1	0.65	9.16	4.58	2.98	22.08
210.84	220.00	R1-20b	f1	4.17	9.16	4.58	19.10	
R1-20b	R1-21	R1-20b	f1	4.17	20.00	10.00	41.70	41.70
R1-21	R1-22	R1-22	f1	1.93	20.19	10.09	19.47	19.47
R1-22	R1-23	R1-22	f1	1.93	17.54	8.77	16.93	97.88
260.19	277.73	R1-23	f1	9.23	17.54	8.77	80.95	
R1-23	R1-23b	R1-23	f1	9.23	0.01	0.00	0.00	340.93
R1-28	R1-28b	R1-28b	f1	26.15	0.01	0.00	0.00	
R1-28b	R1-29	R1-28b	f1	26.15	19.07	9.53	249.21	
340.93	360.00	R1-29	f1	47.61	19.07	9.53	453.72	
A RIPORTARE mq							702.93	1410.38

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI					Foglio n. 155	
BONIFICA RILEVATO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
A RIPORTARE mq							702.93	1410.38
R1-29 360.00	R1-30 382.06	R1-29 R1-30	f1 f1	47.61 8.91	22.06 22.06	11.03 11.03	525.14 98.28	702.93
		R1-30 R1-30	f2 f3	3.84 5.85	22.06 22.06	11.03 11.03	42.36 64.53	
		R1-30	f4	5.60	22.06	11.03	61.77	792.08
R1-30 382.06	R1-31 400.00	R1-30 R1-30	f1 f2	8.91 3.84	17.94 17.94	8.97 8.97	79.92 34.44	
		R1-30 R1-30	f3 f4	5.85 5.60	17.94 17.94	8.97 8.97	52.47 50.23	
		R1-31	f1	50.10	17.94	8.97	449.40	666.46
R1-31 400.00	R1-32 409.76	R1-31 R1-32	f1 f1	50.10 54.83	9.76 9.76	4.88 4.88	244.49 267.57	512.06
R1-32 409.76	R1-33 420.00	R1-32 R1-33	f1 f1	54.83 50.16	10.24 10.24	5.12 5.12	280.73 256.82	537.55
R1-33 420.00	R1-34 440.00	R1-33 R1-34	f1 f1	50.16 50.07	20.00 20.00	10.00 10.00	501.60 500.70	1002.30
R1-34 440.00	R1-35 455.35	R1-34 R1-35	f1 f1	50.07 49.41	15.35 15.35	7.68 7.68	384.54 379.47	764.01
R1-35 455.35	R1-36 460.00	R1-35 R1-36	f1 f1	49.41 48.98	4.65 4.65	2.32 2.32	114.63 113.63	228.26
R1-36 460.00	R1-37 480.00	R1-36 R1-37	f1 f1	48.98 35.89	20.00 20.00	10.00 10.00	489.80 358.90	848.70
R1-37 480.00	R1-38 500.95	R1-37 R1-38	f1 f1	35.89 33.55	20.95 20.95	10.47 10.47	375.77 351.27	727.04
R1-38 500.95	R1-39 520.00	R1-38 R1-39	f1 f1	33.55 15.08	19.05 19.05	9.53 9.53	319.73 143.71	476.88
		R1-39	f2	1.41	19.05	9.53	13.44	
R1-39 520.00	R1-40 528.64	R1-39 R1-39	f1 f2	15.08 1.41	8.64 8.64	4.32 4.32	65.15 6.09	
		R1-40 R1-40	f1 f2	11.79 2.78	8.64 8.64	4.32 4.32	50.93 12.01	134.18
R1-40 528.64	R1-41 532.63	R1-40 R1-40	f1 f2	11.79 2.78	3.99 3.99	2.00 2.00	23.58 5.56	
		R1-41 R1-41	f2 f1	10.60 0.00	3.99 3.99	2.00 2.00	21.20 0.00	
		R1-41	f3	3.41	3.99	2.00	6.82	57.16
A RIPORTARE mq								8157.06

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 156			
BONIFICA RILEVATO									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq								8157.06	
R1-41 532.63	R1-42 540.00	R1-41	f2	10.60	7.37	3.69	39.11		
		R1-41	f1	0.00	7.37	3.69	0.00		
		R1-41	f3	3.41	7.37	3.69	12.58		
		R1-42	f3	1.63	7.37	3.69	6.01		
		R1-42	f1	4.76	7.37	3.69	17.56		
		R1-42	f2	4.25	7.37	3.69	15.68		90.94
R1-42 540.00	R1-43 546.20	R1-42	f3	1.63	6.20	3.10	5.05		
		R1-42	f1	4.76	6.20	3.10	14.76		
		R1-42	f2	4.25	6.20	3.10	13.18		
		R1-43	f1	2.88	6.20	3.10	8.93		
		R1-43	f2	2.41	6.20	3.10	7.47		
		R1-43	f3	5.59	6.20	3.10	17.33		66.72
R1-43	R1-44	R1-43	f1	2.88	0.01	0.00	0.00		
R1-43	R1-44	R1-43	f2	2.41	0.01	0.00	0.00		
R1-43	R1-44	R1-43	f3	5.59	0.01	0.00	0.00		
R1-43	R1-44	R1-44	f1	5.28	0.01	0.00	0.00		
R1-43	R1-44	R1-44	f2	2.40	0.01	0.00	0.00		
R1-43	R1-44	R1-44	f3	5.59	0.01	0.00	0.00		
R1-44	R1-45	R1-44	f1	5.28	13.79	6.89	36.38		
546.21	560.00	R1-44	f2	2.40	13.79	6.89	16.54		
		R1-44	f3	5.59	13.79	6.89	38.52		
		R1-45	f1	7.77	13.79	6.89	53.54		144.98
R1-45 560.00	R1-46 580.00	R1-45	f1	7.77	20.00	10.00	77.70		
		R1-46	f1	2.31	20.00	10.00	23.10		100.80
R1-46 580.00	R1-47 582.63	R1-46	f1	2.31	2.63	1.31	3.03		
		R1-47	f1	1.85	2.63	1.31	2.42		5.45
R1-47	R1-48	R1-47	f1	1.85	12.83	6.42	11.88		11.88
R1-53	R1-54	R1-54	f1	1.93	20.00	10.00	19.30		19.30
R1-54 640.00	R1-55 658.29	R1-54	f1	1.93	18.29	9.14	17.64		
		R1-55	f1	0.00	18.29	9.14	0.00		
		R1-55	f2	1.17	18.29	9.14	10.69		28.33
R1-55	R1-56	R1-55	f1	0.00	0.86	0.43	0.00		
R1-55	R1-56	R1-55	f2	1.17	0.86	0.43	0.50		
658.29	659.15	R1-56	f1	1.46	0.86	0.43	0.63		1.13
R1-56	R1-57	R1-56	f1	1.46	0.85	0.43	0.63		0.63
R1-57	R1-58	R1-58	f1	1.49	20.00	10.00	14.90		14.90
R1-58 680.00	R1-59 694.82	R1-58	f1	1.49	14.82	7.41	11.04		
		R1-59	f1	3.61	14.82	7.41	26.75		
A RIPORTARE mq							37.79	8642.12	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 157		
BONIFICA RILEVATO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
A RIPORTARE mq							37.79	8642.12
		R1-59	f2	3.61	14.82	7.41	26.75	64.54
R1-59	R1-59b	R1-59	f1	3.61	0.01	0.00	0.00	
R1-59	R1-59b	R1-59	f2	3.61	0.01	0.00	0.00	
R1-60	R1-60b	R1-60b	f1	14.23	0.01	0.00	0.00	
R1-60	R1-60b	R1-60b	f2	4.94	0.01	0.00	0.00	
R1-60	R1-60b	R1-60b	f3	1.19	0.01	0.00	0.00	
R1-60b	R1-61	R1-60b	f1	14.23	10.04	5.02	71.43	
704.83	714.87	R1-60b	f2	4.94	10.04	5.02	24.80	
		R1-60b	f3	1.19	10.04	5.02	5.97	
		R1-61	f1	10.19	10.04	5.02	51.15	
		R1-61	f2	2.18	10.04	5.02	10.94	164.29
R1-61	R1-62	R1-61	f1	10.19	5.13	2.56	26.09	58.70
714.87	720.00	R1-61	f2	2.18	5.13	2.56	5.58	
		R1-62	f2	9.31	5.13	2.56	23.83	
		R1-62	f1	1.25	5.13	2.56	3.20	
R1-62	R1-63	R1-62	f2	9.31	20.00	10.00	93.10	189.50
720.00	740.00	R1-62	f1	1.25	20.00	10.00	12.50	
		R1-63	f2	7.41	20.00	10.00	74.10	
		R1-63	f1	0.98	20.00	10.00	9.80	
R1-63	R1-64	R1-63	f2	7.41	20.00	10.00	74.10	135.00
740.00	760.00	R1-63	f1	0.98	20.00	10.00	9.80	
		R1-64	f1	5.11	20.00	10.00	51.10	
R1-64	R1-65	R1-64	f1	5.11	13.85	6.93	35.41	39.57
760.00	773.85	R1-65	f1	0.60	13.85	6.93	4.16	
R1-65	R1-66	R1-65	f1	0.60	6.15	3.07	1.84	3.71
773.85	780.00	R1-66	f1	0.61	6.15	3.07	1.87	
R1-66	R1-67	R1-66	f1	0.61	20.00	10.00	6.10	26.10
780.00	800.00	R1-67	f2	2.00	20.00	10.00	20.00	
		R1-67	f1	0.00	20.00	10.00	0.00	
R1-67	R1-68	R1-67	f2	2.00	20.00	10.00	20.00	33.90
800.00	820.00	R1-67	f1	0.00	20.00	10.00	0.00	
		R1-68	f2	1.39	20.00	10.00	13.90	
		R1-68	f1	0.00	20.00	10.00	0.00	
R1-68	R1-69	R1-68	f2	1.39	12.82	6.41	8.91	15.26
820.00	832.82	R1-68	f1	0.00	12.82	6.41	0.00	
		R1-69	f1	0.99	12.82	6.41	6.35	
R1-69	R1-70	R1-69	f1	0.99	7.18	3.59	3.55	3.55
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			9376.24

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 158		
USURA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R1-1 0.00	R1-2 20.15	R1-1 R1-2	gl gl	6.36 6.01	20.15 20.15	10.07 10.07	64.05 60.52	124.57
R1-2 20.15	R1-3 32.24	R1-2 R1-3	gl gl	6.01 6.11	12.09 12.09	6.05 6.05	36.36 36.97	73.33
R1-3 R1-3 R1-4 32.25	R1-4 R1-4 R1-5 40.00	R1-3 R1-4 R1-4 R1-5	gl gl gl gl	6.11 7.31 7.31 7.22	0.01 0.01 7.75 7.75	0.00 0.00 3.88 3.88	0.00 0.00 28.36 28.01	56.37
R1-5 40.00	R1-6 60.00	R1-5 R1-6	gl gl	7.22 7.12	20.00 20.00	10.00 10.00	72.20 71.20	143.40
R1-6 60.00	R1-7 80.00	R1-6 R1-7	gl gl	7.12 7.27	20.00 20.00	10.00 10.00	71.20 72.70	143.90
R1-7 80.00	R1-8 84.37	R1-7 R1-8	gl gl	7.27 7.27	4.37 4.37	2.19 2.19	15.92 15.92	31.84
R1-8 84.37	R1-9 100.00	R1-8 R1-9	gl gl	7.27 7.27	15.63 15.63	7.81 7.81	56.78 56.78	113.56
R1-9 100.00	R1-10 114.79	R1-9 R1-10	gl gl	7.27 7.02	14.79 14.79	7.40 7.40	53.80 51.95	105.75
R1-10 R1-10 R1-11 114.80	R1-11 R1-11 R1-12 120.00	R1-10 R1-11 R1-11 R1-12	gl gl gl gl	7.02 10.82 10.82 9.67	0.01 0.01 5.20 5.20	0.00 0.00 2.60 2.60	0.00 0.00 28.13 25.14	53.27
R1-12 120.00	R1-13 140.00	R1-12 R1-13	gl gl	9.67 6.73	20.00 20.00	10.00 10.00	96.70 67.30	164.00
R1-13 140.00	R1-14 148.60	R1-13 R1-14	gl gl	6.73 6.27	8.60 8.60	4.30 4.30	28.94 26.96	55.90
R1-14 148.60	R1-15 161.48	R1-14 R1-15	gl gl	6.27 11.30	12.88 12.88	6.44 6.44	40.38 72.77	113.15
R1-15 161.48	R1-16 162.95	R1-15 R1-16	gl gl	11.30 11.21	1.47 1.47	0.73 0.73	8.25 8.18	16.43
R1-16 162.95	R1-16b 162.96	R1-16 R1-16b	gl gl	11.21 11.21	0.01 0.01	0.01 0.01	0.11 0.11	0.22
R1-16b 162.96	R1-17 180.00	R1-16b R1-17	gl gl	11.21 10.53	17.04 17.04	8.52 8.52	95.51 89.72	185.23
R1-17 180.00	R1-18 190.84	R1-17 R1-18	gl gl	10.53 10.53	10.84 10.84	5.42 5.42	57.07 57.07	
A RIPORTARE mq							114.14	1495.06

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 159		
USURA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
A RIPORTARE mq							114.14	1495.06
R1-18	R1-18b	R1-18	gl	10.53	0.01	0.00	0.00	114.14
R1-18	R1-18b	R1-18b	gl	10.73	0.01	0.00	0.00	
R1-18b	R1-19	R1-18b	gl	10.73	9.15	4.58	49.14	
190.85	200.00	R1-19	gl	10.80	9.15	4.58	49.46	98.60
R1-19	R1-20	R1-19	gl	10.80	10.84	5.42	58.54	
200.00	210.84	R1-20	gl	10.78	10.84	5.42	58.43	116.97
R1-20	R1-20b	R1-20	gl	10.78	9.16	4.58	49.37	
210.84	220.00	R1-20b	gl	10.63	9.16	4.58	48.69	98.06
R1-20b	R1-21	R1-20b	gl	10.63	20.00	10.00	106.30	
220.00	240.00	R1-21	gl	10.62	20.00	10.00	106.20	212.50
R1-21	R1-22	R1-21	gl	10.62	20.19	10.09	107.16	
240.00	260.19	R1-22	gl	10.48	20.19	10.09	105.74	212.90
R1-22	R1-23	R1-22	gl	10.48	17.54	8.77	91.91	
260.19	277.73	R1-23	gl	9.21	17.54	8.77	80.77	172.68
R1-23	R1-23b	R1-23	gl	9.21	0.01	0.00	0.00	
R1-23	R1-23b	R1-23b	gl	9.00	0.01	0.00	0.00	
R1-23b	R1-24	R1-23b	gl	9.00	2.26	1.13	10.17	
277.74	280.00	R1-24	gl	9.00	2.26	1.13	10.17	20.34
R1-24	R1-25	R1-24	gl	9.00	22.91	11.46	103.14	
280.00	302.91	R1-25	gl	9.00	22.91	11.46	103.14	206.28
R1-25	R1-26	R1-25	gl	9.00	17.09	8.54	76.86	
302.91	320.00	R1-26	gl	9.00	17.09	8.54	76.86	153.72
R1-26	R1-27	R1-26	gl	9.00	20.00	10.00	90.00	
320.00	340.00	R1-27	gl	9.00	20.00	10.00	90.00	180.00
R1-27	R1-28	R1-27	gl	9.00	0.92	0.46	4.14	
340.00	340.92	R1-28	gl	9.00	0.92	0.46	4.14	8.28
R1-28	R1-28b	R1-28	gl	9.00	0.01	0.00	0.00	
R1-28	R1-28b	R1-28b	gl	9.10	0.01	0.00	0.00	
R1-28b	R1-29	R1-28b	gl	9.10	19.07	9.53	86.72	
340.93	360.00	R1-29	gl	9.20	19.07	9.53	87.68	174.40
R1-29	R1-30	R1-29	gl	9.20	22.06	11.03	101.48	
360.00	382.06	R1-30	gl	9.20	22.06	11.03	101.48	202.96
R1-30	R1-31	R1-30	gl	9.20	17.94	8.97	82.52	
382.06	400.00	R1-31	gl	9.20	17.94	8.97	82.52	165.04
A RIPORTARE mq								3517.79

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 160		
USURA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
A RIPORTARE mq								3517.79
R1-31 400.00	R1-32 409.76	R1-31 R1-32	gl gl	9.20 9.21	9.76 9.76	4.88 4.88	44.90 44.94	89.84
R1-32 409.76	R1-33 420.00	R1-32 R1-33	gl gl	9.21 9.21	10.24 10.24	5.12 5.12	47.16 47.16	94.32
R1-33 420.00	R1-34 440.00	R1-33 R1-34	gl gl	9.21 9.21	20.00 20.00	10.00 10.00	92.10 92.10	184.20
R1-34 440.00	R1-35 455.35	R1-34 R1-35	gl gl	9.21 9.21	15.35 15.35	7.68 7.68	70.73 70.73	141.46
R1-35 455.35	R1-36 460.00	R1-35 R1-36	gl gl	9.21 9.21	4.65 4.65	2.32 2.32	21.37 21.37	42.74
R1-36 460.00	R1-37 480.00	R1-36 R1-37	gl gl	9.21 9.21	20.00 20.00	10.00 10.00	92.10 92.10	184.20
R1-37 480.00	R1-38 500.95	R1-37 R1-38	gl gl	9.21 9.21	20.95 20.95	10.47 10.47	96.43 96.43	192.86
R1-38 500.95	R1-39 520.00	R1-38 R1-39	gl gl	9.21 9.20	19.05 19.05	9.53 9.53	87.77 87.68	175.45
R1-39 520.00	R1-40 528.64	R1-39 R1-40	gl gl	9.20 9.20	8.64 8.64	4.32 4.32	39.74 39.74	79.48
R1-40 528.64	R1-41 532.63	R1-40 R1-41	gl gl	9.20 9.20	3.99 3.99	2.00 2.00	18.40 18.40	36.80
R1-41 532.63	R1-42 540.00	R1-41 R1-42	gl gl	9.20 9.20	7.37 7.37	3.69 3.69	33.95 33.95	67.90
R1-42 540.00	R1-43 546.20	R1-42 R1-43	gl gl	9.20 10.48	6.20 6.20	3.10 3.10	28.52 32.49	61.01
R1-43 546.21	R1-44 560.00	R1-43 R1-44 R1-44 R1-45	gl gl gl gl	10.48 12.88 12.88 9.49	0.01 0.01 13.79 13.79	0.00 0.00 6.89 6.89	0.00 0.00 88.74 65.39	154.13
R1-45 560.00	R1-46 580.00	R1-45 R1-46	gl gl	9.49 8.34	20.00 20.00	10.00 10.00	94.90 83.40	178.30
R1-46 580.00	R1-47 582.63	R1-46 R1-47	gl gl	8.34 8.25	2.63 2.63	1.31 1.31	10.93 10.81	21.74
R1-47 582.63	R1-48 595.46	R1-47 R1-48	gl gl	8.25 8.11	12.83 12.83	6.42 6.42	52.96 52.07	
A RIPORTARE mq							105.03	5327.25

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 161			
USURA									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq							105.03	5327.25	
R1-48 595.46	R1-49 600.00	R1-48 R1-49	gl gl	8.11 8.11	4.54 4.54	2.27 2.27	18.41 18.41	105.03	
R1-49 600.00	R1-50 608.29	R1-49 R1-50	gl gl	8.11 8.11	8.29 8.29	4.14 4.14	33.58 33.58	36.82	
R1-50 608.29	R1-51 614.99	R1-50 R1-51	gl gl	8.11 8.10	6.70 6.70	3.35 3.35	27.17 27.13	67.16	
R1-51 615.00	R1-52 620.00	R1-51 R1-52	gl gl	8.10 13.60	0.01 0.01	0.00 0.00	0.00 0.00	54.30	
R1-52 615.00	R1-53 620.00	R1-52 R1-53	gl gl	13.60 13.58	5.00 5.00	2.50 2.50	34.00 33.95	67.95	
R1-53 620.00	R1-54 640.00	R1-53 R1-54	gl gl	13.58 13.20	20.00 20.00	10.00 10.00	135.80 132.00	267.80	
R1-54 640.00	R1-55 658.29	R1-54 R1-55	gl gl	13.20 12.08	18.29 18.29	9.14 9.14	120.65 110.41	231.06	
R1-55 658.29	R1-56 659.15	R1-55 R1-56	gl gl	12.08 12.02	0.86 0.86	0.43 0.43	5.19 5.17	10.36	
R1-56 659.15	R1-57 660.00	R1-56 R1-57	gl gl	12.02 11.97	0.85 0.85	0.43 0.43	5.17 5.15	10.32	
R1-57 660.00	R1-58 680.00	R1-57 R1-58	gl gl	11.97 10.50	20.00 20.00	10.00 10.00	119.70 105.00	224.70	
R1-58 680.00	R1-59 694.82	R1-58 R1-59	gl gl	10.50 9.20	14.82 14.82	7.41 7.41	77.81 68.17	145.98	
R1-59 694.83	R1-59b 704.82	R1-59 R1-59b R1-59b R1-60	gl gl gl gl	9.20 9.00 9.00 9.00	0.01 0.01 9.99 9.99	0.00 0.00 5.00 5.00	0.00 0.00 45.00 45.00	90.00	
R1-60 704.83	R1-60b 714.87	R1-60 R1-60b R1-60b R1-61	gl gl gl gl	9.00 9.20 9.20 9.21	0.01 0.01 10.04 10.04	0.00 0.00 5.02 5.02	0.00 0.00 46.18 46.23	92.41	
R1-61 714.87	R1-62 720.00	R1-61 R1-62	gl gl	9.21 9.21	5.13 5.13	2.56 2.56	23.58 23.58	47.16	
R1-62 720.00	R1-63 740.00	R1-62 R1-63	gl gl	9.21 9.21	20.00 20.00	10.00 10.00	92.10 92.10	184.20	
A RIPORTARE mq								6857.47	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 162			
USURA									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq								6857.47	
R1-63 740.00	R1-64 760.00	R1-63 R1-64	gl gl	9.21 9.11	20.00 20.00	10.00 10.00	92.10 91.10		183.20
R1-64 760.00	R1-65 773.85	R1-64 R1-65	gl gl	9.11 9.11	13.85 13.85	6.93 6.93	63.13 63.13		126.26
R1-65 773.85	R1-66 780.00	R1-65 R1-66	gl gl	9.11 9.11	6.15 6.15	3.07 3.07	27.97 27.97		55.94
R1-66 780.00	R1-67 800.00	R1-66 R1-67	gl gl	9.11 9.11	20.00 20.00	10.00 10.00	91.10 91.10		182.20
R1-67 800.00	R1-68 820.00	R1-67 R1-68	gl gl	9.11 9.11	20.00 20.00	10.00 10.00	91.10 91.10		182.20
R1-68 820.00	R1-69 832.82	R1-68 R1-69	gl gl	9.11 9.11	12.82 12.82	6.41 6.41	58.40 58.40		116.80
R1-69 832.82	R1-70 840.00	R1-69 R1-70	gl gl	9.11 9.11	7.18 7.18	3.59 3.59	32.70 32.70		65.40
R1-70 840.00	R1-71 860.00	R1-70 R1-71	gl gl	9.11 9.20	20.00 20.00	10.00 10.00	91.10 92.00		183.10
R1-71 860.00	R1-72 879.15	R1-71 R1-72	gl gl	9.20 9.20	19.15 19.15	9.57 9.57	88.04 88.04		176.08
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			8128.65	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA	<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 163		
BINDER								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R1-1 0.00	R1-2 20.15	R1-1 R1-2	h1 h1	6.46 6.01	20.15 20.15	10.07 10.07	65.05 60.52	125.57
R1-2 20.15	R1-3 32.24	R1-2 R1-3	h1 h1	6.01 6.21	12.09 12.09	6.05 6.05	36.36 37.57	73.93
R1-3 R1-3 R1-4 32.25	R1-4 R1-4 R1-5 40.00	R1-3 R1-4 R1-4 R1-5	h1 h1 h1 h1	6.21 7.41 7.41 7.42	0.01 0.01 7.75 7.75	0.00 0.00 3.88 3.88	0.00 0.00 28.75 28.79	57.54
R1-5 40.00	R1-6 60.00	R1-5 R1-6	h1 h1	7.42 7.22	20.00 20.00	10.00 10.00	74.20 72.20	146.40
R1-6 60.00	R1-7 80.00	R1-6 R1-7	h1 h1	7.22 7.31	20.00 20.00	10.00 10.00	72.20 73.10	145.30
R1-7 80.00	R1-8 84.37	R1-7 R1-8	h1 h1	7.31 7.31	4.37 4.37	2.19 2.19	16.01 16.01	32.02
R1-8 84.37	R1-9 100.00	R1-8 R1-9	h1 h1	7.31 7.31	15.63 15.63	7.81 7.81	57.09 57.09	114.18
R1-9 100.00	R1-10 114.79	R1-9 R1-10	h1 h1	7.31 7.02	14.79 14.79	7.40 7.40	54.09 51.95	106.04
R1-10 R1-10 R1-11 114.80	R1-11 R1-11 R1-12 120.00	R1-10 R1-11 R1-11 R1-12	h1 h1 h1 h1	7.02 10.82 10.82 9.67	0.01 0.01 5.20 5.20	0.00 0.00 2.60 2.60	0.00 0.00 28.13 25.14	53.27
R1-12 120.00	R1-13 140.00	R1-12 R1-13	h1 h1	9.67 6.73	20.00 20.00	10.00 10.00	96.70 67.30	164.00
R1-13 140.00	R1-14 148.60	R1-13 R1-14	h1 h1	6.73 6.37	8.60 8.60	4.30 4.30	28.94 27.39	56.33
R1-14 148.60	R1-15 161.48	R1-14 R1-15	h1 h1	6.37 11.30	12.88 12.88	6.44 6.44	41.02 72.77	113.79
R1-15 161.48	R1-16 162.95	R1-15 R1-16	h1 h1	11.30 11.21	1.47 1.47	0.73 0.73	8.25 8.18	16.43
R1-16 162.95	R1-16b 162.96	R1-16 R1-16b	h1 h1	11.21 11.21	0.01 0.01	0.01 0.01	0.11 0.11	0.22
R1-16b 162.96	R1-17 180.00	R1-16b R1-17	h1 h1	11.21 10.53	17.04 17.04	8.52 8.52	95.51 89.72	185.23
R1-17 180.00	R1-18 190.84	R1-17 R1-18	h1 h1	10.53 10.53	10.84 10.84	5.42 5.42	57.07 57.07	
A RIPORTARE mq							114.14	1504.39

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 164			
BINDER									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq							114.14	1504.39	
R1-18	R1-18b	R1-18	h1	10.53	0.01	0.00	0.00	114.14	
R1-18	R1-18b	R1-18b	h1	10.93	0.01	0.00	0.00		
R1-18b	R1-19	R1-18b	h1	10.93	9.15	4.58	50.06		
190.85	200.00	R1-19	h1	10.86	9.15	4.58	49.74		99.80
R1-19	R1-20	R1-19	h1	10.86	10.84	5.42	58.86		
200.00	210.84	R1-20	h1	10.84	10.84	5.42	58.75		117.61
R1-20	R1-20b	R1-20	h1	10.84	9.16	4.58	49.65		
210.84	220.00	R1-20b	h1	10.73	9.16	4.58	49.14		98.79
R1-20b	R1-21	R1-20b	h1	10.73	20.00	10.00	107.30		
220.00	240.00	R1-21	h1	10.72	20.00	10.00	107.20		214.50
R1-21	R1-22	R1-21	h1	10.72	20.19	10.09	108.16		
240.00	260.19	R1-22	h1	10.48	20.19	10.09	105.74		213.90
R1-22	R1-23	R1-22	h1	10.48	17.54	8.77	91.91		
260.19	277.73	R1-23	h1	9.21	17.54	8.77	80.77		172.68
R1-23	R1-23b	R1-23	h1	9.21	0.01	0.00	0.00		
R1-23	R1-23b	R1-23b	h1	9.00	0.01	0.00	0.00		
R1-23b	R1-24	R1-23b	h1	9.00	2.26	1.13	10.17		
277.74	280.00	R1-24	h1	9.00	2.26	1.13	10.17		20.34
R1-24	R1-25	R1-24	h1	9.00	22.91	11.46	103.14		
280.00	302.91	R1-25	h1	9.00	22.91	11.46	103.14		206.28
R1-25	R1-26	R1-25	h1	9.00	17.09	8.54	76.86		
302.91	320.00	R1-26	h1	9.00	17.09	8.54	76.86		153.72
R1-26	R1-27	R1-26	h1	9.00	20.00	10.00	90.00		
320.00	340.00	R1-27	h1	9.00	20.00	10.00	90.00		180.00
R1-27	R1-28	R1-27	h1	9.00	0.92	0.46	4.14		
340.00	340.92	R1-28	h1	9.00	0.92	0.46	4.14		8.28
R1-28	R1-28b	R1-28	h1	9.00	0.01	0.00	0.00		
R1-28	R1-28b	R1-28b	h1	9.20	0.01	0.00	0.00		
R1-28b	R1-29	R1-28b	h1	9.20	19.07	9.53	87.68		
340.93	360.00	R1-29	h1	9.40	19.07	9.53	89.58		177.26
R1-29	R1-30	R1-29	h1	9.40	22.06	11.03	103.68		
360.00	382.06	R1-30	h1	9.40	22.06	11.03	103.68		207.36
R1-30	R1-31	R1-30	h1	9.40	17.94	8.97	84.32		
382.06	400.00	R1-31	h1	9.40	17.94	8.97	84.32		168.64
A RIPORTARE mq								3543.55	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 165			
BINDER									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq								3543.55	
R1-31 400.00	R1-32 409.76	R1-31 R1-32	h1 h1	9.40 9.41	9.76 9.76	4.88 4.88	45.87 45.92		91.79
R1-32 409.76	R1-33 420.00	R1-32 R1-33	h1 h1	9.41 9.41	10.24 10.24	5.12 5.12	48.18 48.18		96.36
R1-33 420.00	R1-34 440.00	R1-33 R1-34	h1 h1	9.41 9.41	20.00 20.00	10.00 10.00	94.10 94.10		188.20
R1-34 440.00	R1-35 455.35	R1-34 R1-35	h1 h1	9.41 9.41	15.35 15.35	7.68 7.68	72.27 72.27		144.54
R1-35 455.35	R1-36 460.00	R1-35 R1-36	h1 h1	9.41 9.41	4.65 4.65	2.32 2.32	21.83 21.83		43.66
R1-36 460.00	R1-37 480.00	R1-36 R1-37	h1 h1	9.41 9.41	20.00 20.00	10.00 10.00	94.10 94.10		188.20
R1-37 480.00	R1-38 500.95	R1-37 R1-38	h1 h1	9.41 9.41	20.95 20.95	10.47 10.47	98.52 98.52		197.04
R1-38 500.95	R1-39 520.00	R1-38 R1-39	h1 h1	9.41 9.40	19.05 19.05	9.53 9.53	89.68 89.58		179.26
R1-39 520.00	R1-40 528.64	R1-39 R1-40	h1 h1	9.40 9.40	8.64 8.64	4.32 4.32	40.61 40.61		81.22
R1-40 528.64	R1-41 532.63	R1-40 R1-41	h1 h1	9.40 9.40	3.99 3.99	2.00 2.00	18.80 18.80		37.60
R1-41 532.63	R1-42 540.00	R1-41 R1-42	h1 h1	9.40 9.40	7.37 7.37	3.69 3.69	34.69 34.69		69.38
R1-42 540.00	R1-43 546.20	R1-42 R1-43	h1 h1	9.40 10.58	6.20 6.20	3.10 3.10	29.14 32.80		61.94
R1-43 546.21	R1-44 560.00	R1-43 R1-44 R1-44 R1-45	h1 h1 h1 h1	10.58 12.98 12.98 9.59	0.01 0.01 13.79 13.79	0.00 0.00 6.89 6.89	0.00 0.00 89.43 66.08		155.51
R1-45 560.00	R1-46 580.00	R1-45 R1-46	h1 h1	9.59 8.44	20.00 20.00	10.00 10.00	95.90 84.40		180.30
R1-46 580.00	R1-47 582.63	R1-46 R1-47	h1 h1	8.44 8.35	2.63 2.63	1.31 1.31	11.06 10.94		22.00
R1-47 582.63	R1-48 595.46	R1-47 R1-48	h1 h1	8.35 8.21	12.83 12.83	6.42 6.42	53.61 52.71		
A RIPORTARE mq							106.32	5386.87	

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 166			
BINDER									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq							106.32	5386.87	
R1-48 595.46	R1-49 600.00	R1-48 R1-49	h1 h1	8.21 8.21	4.54 4.54	2.27 2.27	18.64 18.64	106.32	
R1-49 600.00	R1-50 608.29	R1-49 R1-50	h1 h1	8.21 8.21	8.29 8.29	4.14 4.14	33.99 33.99	37.28	
R1-50 608.29	R1-51 614.99	R1-50 R1-51	h1 h1	8.21 8.20	6.70 6.70	3.35 3.35	27.50 27.47	67.98	
R1-51 615.00	R1-52 620.00	R1-51 R1-52	h1 h1	8.20 13.70	0.01 0.01	0.00 0.00	0.00 0.00	54.97	
R1-52 615.00	R1-53 620.00	R1-52 R1-53	h1 h1	13.70 13.68	5.00 5.00	2.50 2.50	34.25 34.20	68.45	
R1-53 620.00	R1-54 640.00	R1-53 R1-54	h1 h1	13.68 13.30	20.00 20.00	10.00 10.00	136.80 133.00	269.80	
R1-54 640.00	R1-55 658.29	R1-54 R1-55	h1 h1	13.30 12.18	18.29 18.29	9.14 9.14	121.56 111.33	232.89	
R1-55 658.29	R1-56 659.15	R1-55 R1-56	h1 h1	12.18 12.12	0.86 0.86	0.43 0.43	5.24 5.21	10.45	
R1-56 659.15	R1-57 660.00	R1-56 R1-57	h1 h1	12.12 12.07	0.85 0.85	0.43 0.43	5.21 5.19	10.40	
R1-57 660.00	R1-58 680.00	R1-57 R1-58	h1 h1	12.07 10.60	20.00 20.00	10.00 10.00	120.70 106.00	226.70	
R1-58 680.00	R1-59 694.82	R1-58 R1-59	h1 h1	10.60 9.40	14.82 14.82	7.41 7.41	78.55 69.65	148.20	
R1-59 694.83	R1-59b 704.82	R1-59 R1-59b R1-59b R1-60	h1 h1 h1 h1	9.40 9.00 9.00 9.00	0.01 0.01 9.99 9.99	0.00 0.00 5.00 5.00	0.00 0.00 45.00 45.00	90.00	
R1-60 704.83	R1-60b 714.87	R1-60 R1-60b R1-60b R1-61	h1 h1 h1 h1	9.00 9.40 9.40 9.41	0.01 0.01 10.04 10.04	0.00 0.00 5.02 5.02	0.00 0.00 47.19 47.24	94.43	
R1-61 714.87	R1-62 720.00	R1-61 R1-62	h1 h1	9.41 9.41	5.13 5.13	2.56 2.56	24.09 24.09	48.18	
R1-62 720.00	R1-63 740.00	R1-62 R1-63	h1 h1	9.41 9.41	20.00 20.00	10.00 10.00	94.10 94.10	188.20	
A RIPORTARE mq								6934.80	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 167		
BINDER								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
A RIPORTARE mq								6934.80
R1-63 740.00	R1-64 760.00	R1-63 R1-64	h1 h1	9.41 9.21	20.00 20.00	10.00 10.00	94.10 92.10	186.20
R1-64 760.00	R1-65 773.85	R1-64 R1-65	h1 h1	9.21 9.21	13.85 13.85	6.93 6.93	63.83 63.83	127.66
R1-65 773.85	R1-66 780.00	R1-65 R1-66	h1 h1	9.21 9.21	6.15 6.15	3.07 3.07	28.27 28.27	56.54
R1-66 780.00	R1-67 800.00	R1-66 R1-67	h1 h1	9.21 9.21	20.00 20.00	10.00 10.00	92.10 92.10	184.20
R1-67 800.00	R1-68 820.00	R1-67 R1-68	h1 h1	9.21 9.21	20.00 20.00	10.00 10.00	92.10 92.10	184.20
R1-68 820.00	R1-69 832.82	R1-68 R1-69	h1 h1	9.21 9.21	12.82 12.82	6.41 6.41	59.04 59.04	118.08
R1-69 832.82	R1-70 840.00	R1-69 R1-70	h1 h1	9.21 9.21	7.18 7.18	3.59 3.59	33.06 33.06	66.12
R1-70 840.00	R1-71 860.00	R1-70 R1-71	h1 h1	9.21 9.40	20.00 20.00	10.00 10.00	92.10 94.00	186.10
R1-71 860.00	R1-72 879.15	R1-71 R1-72	h1 h1	9.40 9.40	19.15 19.15	9.57 9.57	89.96 89.96	179.92
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			8223.82

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI			Foglio n. 168			
BASE								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R1-1	R1-2	R1-1	i1	6.72	20.15	10.07	67.67	67.67
R1-2	R1-3	R1-3	i1	6.48	12.09	6.05	39.20	39.20
R1-3	R1-4	R1-3	i1	6.48	0.01	0.00	0.00	
R1-3	R1-4	R1-4	i1	7.68	0.01	0.00	0.00	
R1-4	R1-5	R1-4	i1	7.68	7.75	3.88	29.80	
32.25	40.00	R1-5	i1	7.92	7.75	3.88	30.73	60.53
R1-5	R1-6	R1-5	i1	7.92	20.00	10.00	79.20	
40.00	60.00	R1-6	i1	7.45	20.00	10.00	74.50	153.70
R1-6	R1-7	R1-6	i1	7.45	20.00	10.00	74.50	
60.00	80.00	R1-7	i1	7.45	20.00	10.00	74.50	149.00
R1-7	R1-8	R1-7	i1	7.45	4.37	2.19	16.32	
80.00	84.37	R1-8	i1	7.45	4.37	2.19	16.32	32.64
R1-8	R1-9	R1-8	i1	7.45	15.63	7.81	58.18	
84.37	100.00	R1-9	i1	7.45	15.63	7.81	58.18	116.36
R1-9	R1-10	R1-9	i1	7.45	14.79	7.40	55.13	
100.00	114.79	R1-10	i1	7.02	14.79	7.40	51.95	107.08
R1-10	R1-11	R1-10	i1	7.02	0.01	0.00	0.00	
R1-10	R1-11	R1-11	i1	10.82	0.01	0.00	0.00	
R1-11	R1-12	R1-11	i1	10.82	5.20	2.60	28.13	
114.80	120.00	R1-12	i1	9.67	5.20	2.60	25.14	53.27
R1-12	R1-13	R1-12	i1	9.67	20.00	10.00	96.70	
120.00	140.00	R1-13	i1	6.73	20.00	10.00	67.30	164.00
R1-13	R1-14	R1-13	i1	6.73	8.60	4.30	28.94	
140.00	148.60	R1-14	i1	6.64	8.60	4.30	28.55	57.49
R1-14	R1-15	R1-14	i1	6.64	12.88	6.44	42.76	
148.60	161.48	R1-15	i1	11.30	12.88	6.44	72.77	115.53
R1-15	R1-16	R1-15	i1	11.30	1.47	0.73	8.25	
161.48	162.95	R1-16	i1	11.21	1.47	0.73	8.18	16.43
R1-16	R1-16b	R1-16	i1	11.21	0.01	0.01	0.11	0.11
R1-17	R1-18	R1-18	i1	10.53	10.84	5.42	57.07	57.07
R1-18	R1-18b	R1-18	i1	10.53	0.01	0.00	0.00	
R1-18	R1-18b	R1-18b	i1	11.43	0.01	0.00	0.00	
R1-18b	R1-19	R1-18b	i1	11.43	9.15	4.58	52.35	
190.85	200.00	R1-19	i1	11.02	9.15	4.58	50.47	102.82
R1-19	R1-20	R1-19	i1	11.02	10.84	5.42	59.73	
A RIPORTARE mq							59.73	1292.90

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 169			
BASE									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq							59.73	1292.90	
200.00	210.84	R1-20	i1	11.00	10.84	5.42	59.62		
R1-20	R1-20b	R1-20	i1	11.00	9.16	4.58	50.38		119.35
210.84	220.00	R1-20b	i1	11.00	9.16	4.58	50.38		100.76
R1-20b	R1-21	R1-20b	i1	11.00	20.00	10.00	110.00		219.80
220.00	240.00	R1-21	i1	10.98	20.00	10.00	109.80		219.80
R1-21	R1-22	R1-21	i1	10.98	20.19	10.09	110.79		216.53
240.00	260.19	R1-22	i1	10.48	20.19	10.09	105.74		216.53
R1-22	R1-23	R1-22	i1	10.48	17.54	8.77	91.91		172.68
260.19	277.73	R1-23	i1	9.21	17.54	8.77	80.77		172.68
R1-23	R1-23b	R1-23	i1	9.21	0.01	0.00	0.00		
R1-28	R1-28b	R1-28b	i1	9.46	0.01	0.00	0.00		
R1-28b	R1-29	R1-28b	i1	9.46	19.07	9.53	90.15		
340.93	360.00	R1-29	i1	9.92	19.07	9.53	94.54		184.69
R1-29	R1-30	R1-29	i1	9.92	22.06	11.03	109.42		218.84
360.00	382.06	R1-30	i1	9.92	22.06	11.03	109.42		218.84
R1-30	R1-31	R1-30	i1	9.92	17.94	8.97	88.98		177.78
382.06	400.00	R1-31	i1	9.90	17.94	8.97	88.80		177.78
R1-31	R1-32	R1-31	i1	9.90	9.76	4.88	48.31		96.67
400.00	409.76	R1-32	i1	9.91	9.76	4.88	48.36		96.67
R1-32	R1-33	R1-32	i1	9.91	10.24	5.12	50.74		101.48
409.76	420.00	R1-33	i1	9.91	10.24	5.12	50.74		101.48
R1-33	R1-34	R1-33	i1	9.91	20.00	10.00	99.10		198.20
420.00	440.00	R1-34	i1	9.91	20.00	10.00	99.10		198.20
R1-34	R1-35	R1-34	i1	9.91	15.35	7.68	76.11		152.22
440.00	455.35	R1-35	i1	9.91	15.35	7.68	76.11		152.22
R1-35	R1-36	R1-35	i1	9.91	4.65	2.32	22.99		45.98
455.35	460.00	R1-36	i1	9.91	4.65	2.32	22.99		45.98
R1-36	R1-37	R1-36	i1	9.91	20.00	10.00	99.10		198.20
460.00	480.00	R1-37	i1	9.91	20.00	10.00	99.10		198.20
R1-37	R1-38	R1-37	i1	9.91	20.95	10.47	103.76		207.52
480.00	500.95	R1-38	i1	9.91	20.95	10.47	103.76		207.52
R1-38	R1-39	R1-38	i1	9.91	19.05	9.53	94.44		188.88
500.95	520.00	R1-39	i1	9.91	19.05	9.53	94.44		188.88
A RIPORTARE mq								3892.48	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 170			
BASE									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq								3892.48	
R1-39 520.00	R1-40 528.64	R1-39 R1-40	i1 i1	9.91 9.92	8.64 8.64	4.32 4.32	42.81 42.85		85.66
R1-40 528.64	R1-41 532.63	R1-40 R1-41	i1 i1	9.92 9.92	3.99 3.99	2.00 2.00	19.84 19.84		39.68
R1-41 532.63	R1-42 540.00	R1-41 R1-42	i1 i1	9.92 9.91	7.37 7.37	3.69 3.69	36.60 36.57		73.17
R1-42 540.00	R1-43 546.20	R1-42 R1-43	i1 i1	9.91 10.84	6.20 6.20	3.10 3.10	30.72 33.60		64.32
R1-43 546.21	R1-44 560.00	R1-43 R1-44 R1-44 R1-45 R1-45	i1 i1 i1 i1	10.84 13.24 13.24 9.85	0.01 0.01 13.79 13.79	0.00 0.00 6.89 6.89	0.00 0.00 91.22 67.87		159.09
R1-45 560.00	R1-46 580.00	R1-45 R1-46	i1 i1	9.85 8.70	20.00 20.00	10.00 10.00	98.50 87.00		185.50
R1-46 580.00	R1-47 582.63	R1-46 R1-47	i1 i1	8.70 8.61	2.63 2.63	1.31 1.31	11.40 11.28		22.68
R1-47 582.63	R1-48 595.46	R1-47 R1-48	i1 i1	8.61 8.47	12.83 12.83	6.42 6.42	55.28 54.38		109.66
R1-48 595.46	R1-49 600.00	R1-48 R1-49	i1 i1	8.47 8.47	4.54 4.54	2.27 2.27	19.23 19.23		38.46
R1-49 600.00	R1-50 608.29	R1-49 R1-50	i1 i1	8.47 8.47	8.29 8.29	4.14 4.14	35.07 35.07		70.14
R1-50 608.29	R1-51 614.99	R1-50 R1-51	i1 i1	8.47 8.46	6.70 6.70	3.35 3.35	28.37 28.34		56.71
R1-51 615.00	R1-52 620.00	R1-51 R1-52 R1-52 R1-53	i1 i1 i1 i1	8.46 13.96 13.96 13.94	0.01 0.01 5.00 5.00	0.00 0.00 2.50 2.50	0.00 0.00 34.90 34.85		69.75
R1-53 620.00	R1-54 640.00	R1-53 R1-54	i1 i1	13.94 13.56	20.00 20.00	10.00 10.00	139.40 135.60		275.00
R1-54 640.00	R1-55 658.29	R1-54 R1-55	i1 i1	13.56 12.44	18.29 18.29	9.14 9.14	123.94 113.70		237.64
R1-55 658.29	R1-56 659.15	R1-55 R1-56	i1 i1	12.44 12.38	0.86 0.86	0.43 0.43	5.35 5.32		10.67
A RIPORTARE mq								5390.61	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 171			
BASE									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq								5390.61	
R1-56 659.15	R1-57 660.00	R1-56 R1-57	ii ii	12.38 12.33	0.85 0.85	0.43 0.43	5.32 5.30		10.62
R1-57 660.00	R1-58 680.00	R1-57 R1-58	ii ii	12.33 10.85	20.00 20.00	10.00 10.00	123.30 108.50		231.80
R1-58 680.00	R1-59 694.82	R1-58 R1-59	ii ii	10.85 9.91	14.82 14.82	7.41 7.41	80.40 73.43		153.83
R1-59 R1-60 R1-60b 704.83	R1-59b R1-60b R1-61 714.87	R1-59 R1-60b R1-60b R1-61	ii ii ii ii	9.91 9.90 9.90 9.91	0.01 0.01 10.04 10.04	0.00 0.00 5.02 5.02	0.00 0.00 49.70 49.75		99.45
R1-61 714.87	R1-62 720.00	R1-61 R1-62	ii ii	9.91 9.91	5.13 5.13	2.56 2.56	25.37 25.37		50.74
R1-62 720.00	R1-63 740.00	R1-62 R1-63	ii ii	9.91 9.91	20.00 20.00	10.00 10.00	99.10 99.10		198.20
R1-63 740.00	R1-64 760.00	R1-63 R1-64	ii ii	9.91 9.47	20.00 20.00	10.00 10.00	99.10 94.70		193.80
R1-64 760.00	R1-65 773.85	R1-64 R1-65	ii ii	9.47 9.47	13.85 13.85	6.93 6.93	65.63 65.63		131.26
R1-65 773.85	R1-66 780.00	R1-65 R1-66	ii ii	9.47 9.47	6.15 6.15	3.07 3.07	29.07 29.07		58.14
R1-66 780.00	R1-67 800.00	R1-66 R1-67	ii ii	9.47 9.47	20.00 20.00	10.00 10.00	94.70 94.70		189.40
R1-67 800.00	R1-68 820.00	R1-67 R1-68	ii ii	9.47 9.47	20.00 20.00	10.00 10.00	94.70 94.70		189.40
R1-68 820.00	R1-69 832.82	R1-68 R1-69	ii ii	9.47 9.47	12.82 12.82	6.41 6.41	60.70 60.70		121.40
R1-69 832.82	R1-70 840.00	R1-69 R1-70	ii ii	9.47 9.47	7.18 7.18	3.59 3.59	34.00 34.00		68.00
R1-70 840.00	R1-71 860.00	R1-70 R1-71	ii ii	9.47 9.90	20.00 20.00	10.00 10.00	94.70 99.00		193.70
R1-71 860.00	R1-72 879.15	R1-71 R1-72	ii ii	9.90 9.90	19.15 19.15	9.57 9.57	94.74 94.74		189.48
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			7469.83	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 172			
FONDAZIONE									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
R1-1	R1-2	R1-1	mL	7.19	20.15	10.07	72.40		72.40
R1-2	R1-3	R1-3	mL	6.96	12.09	6.05	42.11		42.11
R1-3	R1-4	R1-3	mL	6.96	0.01	0.00	0.00		
R1-3	R1-4	R1-4	mL	8.16	0.01	0.00	0.00		
R1-4	R1-5	R1-4	mL	8.16	7.75	3.88	31.66		
32.25	40.00	R1-5	mL	8.82	7.75	3.88	34.22		65.88
R1-5	R1-6	R1-5	mL	8.82	20.00	10.00	88.20		
40.00	60.00	R1-6	mL	7.87	20.00	10.00	78.70		166.90
R1-6	R1-7	R1-6	mL	7.87	20.00	10.00	78.70		
60.00	80.00	R1-7	mL	7.87	20.00	10.00	78.70		157.40
R1-7	R1-8	R1-7	mL	7.87	4.37	2.19	17.24		
80.00	84.37	R1-8	mL	7.87	4.37	2.19	17.24		34.48
R1-8	R1-9	R1-8	mL	7.87	15.63	7.81	61.46		
84.37	100.00	R1-9	mL	7.87	15.63	7.81	61.46		122.92
R1-9	R1-10	R1-9	mL	7.87	14.79	7.40	58.24		
100.00	114.79	R1-10	mL	7.02	14.79	7.40	51.95		110.19
R1-10	R1-11	R1-10	mL	7.02	0.01	0.00	0.00		
R1-10	R1-11	R1-11	mL	10.82	0.01	0.00	0.00		
R1-11	R1-12	R1-11	mL	10.82	5.20	2.60	28.13		
114.80	120.00	R1-12	mL	9.67	5.20	2.60	25.14		53.27
R1-12	R1-13	R1-12	mL	9.67	20.00	10.00	96.70		
120.00	140.00	R1-13	mL	6.73	20.00	10.00	67.30		164.00
R1-13	R1-14	R1-13	mL	6.73	8.60	4.30	28.94		
140.00	148.60	R1-14	mL	7.12	8.60	4.30	30.62		59.56
R1-14	R1-15	R1-14	mL	7.12	12.88	6.44	45.85		
148.60	161.48	R1-15	mL	11.30	12.88	6.44	72.77		118.62
R1-15	R1-16	R1-15	mL	11.30	1.47	0.73	8.25		
161.48	162.95	R1-16	mL	11.21	1.47	0.73	8.18		16.43
R1-16	R1-16b	R1-16	mL	11.21	0.01	0.01	0.11		0.11
R1-17	R1-18	R1-18	mL	10.53	10.84	5.42	57.07		57.07
R1-18	R1-18b	R1-18	mL	10.53	0.01	0.00	0.00		
R1-18	R1-18b	R1-18b	mL	12.34	0.01	0.00	0.00		
R1-18b	R1-19	R1-18b	mL	12.34	9.15	4.58	56.52		
190.85	200.00	R1-19	mL	11.50	9.15	4.58	52.67		109.19
R1-19	R1-20	R1-19	mL	11.50	10.84	5.42	62.33		
A RIPORTARE mq							62.33	1350.53	

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 173		
FONDAZIONE								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
A RIPORTARE mq							62.33	1350.53
200.00	210.84	R1-20	mL	11.48	10.84	5.42	62.22	124.55
R1-20	R1-20b	R1-20	mL	11.48	9.16	4.58	52.58	105.16
210.84	220.00	R1-20b	mL	11.48	9.16	4.58	52.58	
R1-20b	R1-21	R1-20b	mL	11.48	20.00	10.00	114.80	229.50
220.00	240.00	R1-21	mL	11.47	20.00	10.00	114.70	
R1-21	R1-22	R1-21	mL	11.47	20.19	10.09	115.73	221.47
240.00	260.19	R1-22	mL	10.48	20.19	10.09	105.74	
R1-22	R1-23	R1-22	mL	10.48	17.54	8.77	91.91	172.68
260.19	277.73	R1-23	mL	9.21	17.54	8.77	80.77	
R1-23	R1-23b	R1-23	mL	9.21	0.01	0.00	0.00	197.85
R1-28	R1-28b	R1-28b	mL	9.92	0.01	0.00	0.00	
R1-28b	R1-29	R1-28b	mL	9.92	19.07	9.53	94.54	
340.93	360.00	R1-29	mL	10.84	19.07	9.53	103.31	
R1-29	R1-30	R1-29	mL	10.84	22.06	11.03	119.57	239.14
360.00	382.06	R1-30	mL	10.84	22.06	11.03	119.57	
R1-30	R1-31	R1-30	mL	10.84	17.94	8.97	97.23	194.11
382.06	400.00	R1-31	mL	10.80	17.94	8.97	96.88	
R1-31	R1-32	R1-31	mL	10.80	9.76	4.88	52.70	105.50
400.00	409.76	R1-32	mL	10.82	9.76	4.88	52.80	
R1-32	R1-33	R1-32	mL	10.82	10.24	5.12	55.40	110.80
409.76	420.00	R1-33	mL	10.82	10.24	5.12	55.40	
R1-33	R1-34	R1-33	mL	10.82	20.00	10.00	108.20	216.40
420.00	440.00	R1-34	mL	10.82	20.00	10.00	108.20	
R1-34	R1-35	R1-34	mL	10.82	15.35	7.68	83.10	166.20
440.00	455.35	R1-35	mL	10.82	15.35	7.68	83.10	
R1-35	R1-36	R1-35	mL	10.82	4.65	2.32	25.10	50.20
455.35	460.00	R1-36	mL	10.82	4.65	2.32	25.10	
R1-36	R1-37	R1-36	mL	10.82	20.00	10.00	108.20	216.40
460.00	480.00	R1-37	mL	10.82	20.00	10.00	108.20	
R1-37	R1-38	R1-37	mL	10.82	20.95	10.47	113.29	226.58
480.00	500.95	R1-38	mL	10.82	20.95	10.47	113.29	
R1-38	R1-39	R1-38	mL	10.82	19.05	9.53	103.11	206.22
500.95	520.00	R1-39	mL	10.82	19.05	9.53	103.11	
A RIPORTARE mq								4133.29

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 174			
FONDAZIONE									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq								4133.29	
R1-39 520.00	R1-40 528.64	R1-39 R1-40	mL mL	10.82 10.84	8.64 8.64	4.32 4.32	46.74 46.83		
R1-40 528.64	R1-41 532.63	R1-40 R1-41	mL mL	10.84 10.84	3.99 3.99	2.00 2.00	21.68 21.68	93.57	
R1-41 532.63	R1-42 540.00	R1-41 R1-42	mL mL	10.84 10.83	7.37 7.37	3.69 3.69	40.00 39.96	43.36	
R1-42 540.00	R1-43 546.20	R1-42 R1-43	mL mL	10.83 11.30	6.20 6.20	3.10 3.10	33.57 35.03	79.96	
R1-43 546.21	R1-44 560.00	R1-43 R1-44 R1-44 R1-45 R1-45	mL mL mL mL	11.30 13.70 13.70 10.31	0.01 0.01 13.79 13.79	0.00 0.00 6.89 6.89	0.00 0.00 94.39 71.04	68.60	
R1-45 560.00	R1-46 580.00	R1-45 R1-46	mL mL	10.31 9.17	20.00 20.00	10.00 10.00	103.10 91.70	165.43	
R1-46 580.00	R1-47 582.63	R1-46 R1-47	mL mL	9.17 9.08	2.63 2.63	1.31 1.31	12.01 11.89	194.80	
R1-47 582.63	R1-48 595.46	R1-47 R1-48	mL mL	9.08 8.94	12.83 12.83	6.42 6.42	58.29 57.39	23.90	
R1-48 595.46	R1-49 600.00	R1-48 R1-49	mL mL	8.94 8.94	4.54 4.54	2.27 2.27	20.29 20.29	115.68	
R1-49 600.00	R1-50 608.29	R1-49 R1-50	mL mL	8.94 8.94	8.29 8.29	4.14 4.14	37.01 37.01	40.58	
R1-50 608.29	R1-51 614.99	R1-50 R1-51	mL mL	8.94 8.92	6.70 6.70	3.35 3.35	29.95 29.88	74.02	
R1-51 615.00	R1-52 620.00	R1-51 R1-52 R1-52 R1-53 R1-53	mL mL mL mL	8.92 8.92 8.92 14.40	0.01 0.01 5.00 5.00	0.00 0.00 2.50 2.50	0.00 0.00 22.30 36.00	59.83	
R1-53 620.00	R1-54 640.00	R1-53 R1-54	mL mL	14.40 14.02	20.00 20.00	10.00 10.00	144.00 140.20	58.30	
R1-54 640.00	R1-55 658.29	R1-54 R1-55	mL mL	14.02 12.90	18.29 18.29	9.14 9.14	128.14 117.91	284.20	
R1-55 658.29	R1-56 659.15	R1-55 R1-56	mL mL	12.90 12.84	0.86 0.86	0.43 0.43	5.55 5.52	246.05	
A RIPORTARE mq								11.07	
A RIPORTARE mq								5692.64	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 175			
FONDAZIONE									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq								5692.64	
R1-56 659.15	R1-57 660.00	R1-56	mL	12.84	0.85	0.43	5.52		
		R1-57	mL	12.79	0.85	0.43	5.50		
									11.02
R1-57 660.00	R1-58 680.00	R1-57	mL	12.79	20.00	10.00	127.90		
		R1-58	mL	11.30	20.00	10.00	113.00		
									240.90
R1-58 680.00	R1-59 694.82	R1-58	mL	11.30	14.82	7.41	83.73		
		R1-59	mL	10.81	14.82	7.41	80.10		
									163.83
R1-59 R1-60 R1-60b 704.83	R1-59b R1-60b R1-61 714.87	R1-59	mL	10.81	0.01	0.00	0.00		
		R1-60b	mL	10.80	0.01	0.00	0.00		
		R1-60b	mL	10.80	10.04	5.02	54.22		
		R1-61	mL	10.81	10.04	5.02	54.27		
									108.49
R1-61 714.87	R1-62 720.00	R1-61	mL	10.81	5.13	2.56	27.67		
		R1-62	mL	10.81	5.13	2.56	27.67		
									55.34
R1-62 720.00	R1-63 740.00	R1-62	mL	10.81	20.00	10.00	108.10		
		R1-63	mL	10.81	20.00	10.00	108.10		
									216.20
R1-63 740.00	R1-64 760.00	R1-63	mL	10.81	20.00	10.00	108.10		
		R1-64	mL	9.94	20.00	10.00	99.40		
									207.50
R1-64 760.00	R1-65 773.85	R1-64	mL	9.94	13.85	6.93	68.88		
		R1-65	mL	9.94	13.85	6.93	68.88		
									137.76
R1-65 773.85	R1-66 780.00	R1-65	mL	9.94	6.15	3.07	30.52		
		R1-66	mL	9.94	6.15	3.07	30.52		
									61.04
R1-66 780.00	R1-67 800.00	R1-66	mL	9.94	20.00	10.00	99.40		
		R1-67	mL	9.94	20.00	10.00	99.40		
									198.80
R1-67 800.00	R1-68 820.00	R1-67	mL	9.94	20.00	10.00	99.40		
		R1-68	mL	9.94	20.00	10.00	99.40		
									198.80
R1-68 820.00	R1-69 832.82	R1-68	mL	9.94	12.82	6.41	63.72		
		R1-69	mL	9.94	12.82	6.41	63.72		
									127.44
R1-69 832.82	R1-70 840.00	R1-69	mL	9.94	7.18	3.59	35.68		
		R1-70	mL	9.94	7.18	3.59	35.68		
									71.36
R1-70 840.00	R1-71 860.00	R1-70	mL	9.94	20.00	10.00	99.40		
		R1-71	mL	10.80	20.00	10.00	108.00		
									207.40
R1-71 860.00	R1-72 879.15	R1-71	mL	10.80	19.15	9.57	103.36		
		R1-72	mL	10.80	19.15	9.57	103.36		
									206.72
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			7905.24	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI			Foglio n. 176			
BONIFICA TRINCEA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R1-5	R1-6	R1-6	o1	7.87	20.00	10.00	78.70	78.70
R1-6	R1-7	R1-6	o1	7.87	20.00	10.00	78.70	157.40
60.00	80.00	R1-7	o1	7.87	20.00	10.00	78.70	
R1-7	R1-8	R1-7	o1	7.87	4.37	2.19	17.24	34.48
80.00	84.37	R1-8	o1	7.87	4.37	2.19	17.24	
R1-8	R1-9	R1-8	o1	7.87	15.63	7.81	61.46	122.92
84.37	100.00	R1-9	o1	7.87	15.63	7.81	61.46	
R1-9	R1-10	R1-9	o1	7.87	14.79	7.40	58.24	110.19
100.00	114.79	R1-10	o1	7.02	14.79	7.40	51.95	
R1-10	R1-11	R1-10	o1	7.02	0.01	0.00	0.00	53.27
R1-10	R1-11	R1-11	o1	10.82	0.01	0.00	0.00	
R1-11	R1-12	R1-11	o1	10.82	5.20	2.60	28.13	
114.80	120.00	R1-12	o1	9.67	5.20	2.60	25.14	
R1-12	R1-13	R1-12	o1	9.67	20.00	10.00	96.70	164.00
120.00	140.00	R1-13	o1	6.73	20.00	10.00	67.30	
R1-13	R1-14	R1-13	o1	6.73	8.60	4.30	28.94	59.73
140.00	148.60	R1-14	o1	7.16	8.60	4.30	30.79	
R1-14	R1-15	R1-14	o1	7.16	12.88	6.44	46.11	46.11
R1-18b	R1-19	R1-19	o1	11.50	9.15	4.58	52.67	52.67
R1-19	R1-20	R1-19	o1	11.50	10.84	5.42	62.33	124.55
200.00	210.84	R1-20	o1	11.48	10.84	5.42	62.22	
R1-20	R1-20b	R1-20	o1	11.48	9.16	4.58	52.58	101.72
210.84	220.00	R1-20b	o1	10.73	9.16	4.58	49.14	
R1-20b	R1-21	R1-20b	o1	10.73	20.00	10.00	107.30	130.30
220.00	240.00	R1-21	o1	2.30	20.00	10.00	23.00	
R1-21	R1-22	R1-21	o1	2.30	20.19	10.09	23.21	23.21
R1-44	R1-45	R1-45	o1	2.33	13.79	6.89	16.05	16.05
R1-45	R1-46	R1-45	o1	2.33	20.00	10.00	23.30	98.10
560.00	580.00	R1-46	o1	7.48	20.00	10.00	74.80	
R1-46	R1-47	R1-46	o1	7.48	2.63	1.31	9.80	20.33
580.00	582.63	R1-47	o1	8.04	2.63	1.31	10.53	
R1-47	R1-48	R1-47	o1	8.04	12.83	6.42	51.62	109.01
582.63	595.46	R1-48	o1	8.94	12.83	6.42	57.39	
A RIPORTARE mq								1502.74

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 177			
BONIFICA TRINCEA									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq								1502.74	
R1-48 595.46	R1-49 600.00	R1-48 R1-49	o1 o1	8.94 8.94	4.54 4.54	2.27 2.27	20.29 20.29		40.58
R1-49 600.00	R1-50 608.29	R1-49 R1-50	o1 o1	8.94 8.94	8.29 8.29	4.14 4.14	37.01 37.01		74.02
R1-50 608.29	R1-51 614.99	R1-50 R1-51	o1 o1	8.94 8.92	6.70 6.70	3.35 3.35	29.95 29.88		59.83
R1-51 615.00	R1-52 620.00	R1-51 R1-52 R1-52 R1-53	o1 o1 o1 o1	8.92 14.42 14.42 14.40	0.01 0.01 5.00 5.00	0.00 0.00 2.50 2.50	0.00 0.00 36.05 36.00		72.05
R1-53 620.00	R1-54 640.00	R1-53 R1-54	o1 o1	14.40 12.78	20.00 20.00	10.00 10.00	144.00 127.80		271.80
R1-54 640.00	R1-55 658.29	R1-54 R1-55	o1 o1	12.78 12.44	18.29 18.29	9.14 9.14	116.81 113.70		230.51
R1-55 658.29	R1-56 659.15	R1-55 R1-56	o1 o1	12.44 12.84	0.86 0.86	0.43 0.43	5.35 5.52		10.87
R1-56 659.15	R1-57 660.00	R1-56 R1-57	o1 o1	12.84 12.79	0.85 0.85	0.43 0.43	5.52 5.50		11.02
R1-57 660.00	R1-58 680.00	R1-57 R1-58	o1 o1	12.79 11.30	20.00 20.00	10.00 10.00	127.90 113.00		240.90
R1-58	R1-59	R1-58	o1	11.30	14.82	7.41	83.73		83.73
R1-61 720.00	R1-62 740.00	R1-62 R1-63	o1 o1	1.59 4.28	5.13 20.00	2.56 10.00	4.07 42.80		4.07
R1-63 740.00	R1-64 760.00	R1-63 R1-64	o1 o1	4.28 5.26	20.00 20.00	10.00 10.00	42.80 52.60		58.70
R1-64 760.00	R1-65 773.85	R1-64 R1-65	o1 o1	5.26 6.60	13.85 13.85	6.93 6.93	36.45 45.74		95.40
R1-65 773.85	R1-66 780.00	R1-65 R1-66	o1 o1	6.60 7.08	6.15 6.15	3.07 3.07	20.26 21.74		82.19
R1-66 780.00	R1-67 800.00	R1-66 R1-67	o1 o1	7.08 8.33	20.00 20.00	10.00 10.00	70.80 83.30		42.00
R1-67	R1-68	R1-67	o1	8.33	20.00	10.00	83.30		154.10
A RIPORTARE mq							83.30	3034.51	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

		COMPUTO DI SUPERFICI				Foglio n. 178				
BONIFICA TRINCEA										
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq		
A RIPORTARE mq							83.30	3034.51		
800.00	820.00	R1-68	o1	9.47	20.00	10.00	94.70	178.00		
R1-68	R1-69	R1-68	o1	9.47	12.82	6.41	60.70			
820.00	832.82	R1-69	o1	9.94	12.82	6.41	63.72	124.42		
R1-69	R1-70	R1-69	o1	9.94	7.18	3.59	35.68			
832.82	840.00	R1-70	o1	9.94	7.18	3.59	35.68	71.36		
R1-70	R1-71	R1-70	o1	9.94	20.00	10.00	99.40			
840.00	860.00	R1-71	o1	10.81	20.00	10.00	108.10	207.50		
R1-71	R1-72	R1-71	o1	10.81	19.15	9.57	103.45			
860.00	879.15	R1-72	o1	10.80	19.15	9.57	103.36	206.81		
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			3822.60		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

COMPUTO DEI VOLUMI		Foglio n. 179	
Volume dalla sezione R1-1 alla sezione R1-72			
ARTICOLO	VOLUME		
STERRO	mc		15160.153
RIPORTO	mc		63316.345
VEGETALE IN RILEVATO	mc		2811.727
GRADONATURA	mc		1092.600
SEMINA	mq		9525.90
SEMINA	mq		2466.82
SCOTICO	mq		9376.24
SCOTICO SU GRADONATURA	mq		2724.48
BONIFICA RILEVATO	mq		9376.24
USURA	mq		8128.65
BINDER	mq		8223.82
BASE	mq		7469.83
FONDAZIONE	mq		7905.24
BONIFICA TRINCEA	mq		3822.60

Nota : I valori di sterro e riporto calcolati si riferiscono ad un pacchetto di pavimentazione da 70 cm. Di seguito si riporta la tabella con il calcolo dei movimenti materia riferiti al pacchetto di pavimentazione di spessore 57 cm.

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Modifica valori movimenti materia

Di seguito si riporta il calcolo per la determinazione dei valori di sterro e riporto riferiti al pacchetto di pavimentazione da 57 cm.

RIF.	ARTICOLO	SUPERFICIE (m ²)	Δh Pavimentazione (m)	VOLUME (m ³)	NOTE
A	STERRO (Da computazione sezioni trasversali con spessore cassonetto = 70 cm)	-	-	15160,153	
B	RIPORTO (Da computazione sezioni trasversali con spessore cassonetto = 70 cm)	-	-	63316,345	
C	SUPERFICIE DI IMPOSTA CASSONETTO (Da computo computo sezioni trasversali)	7905,24	-	-	(1)
D	SUPERFICIE DI IMPOSTA CASSONETTO IN TRINCEA (Da computo computo sezioni trasversali)	3822,6	-	-	(2)
E	SUPERFICIE DI IMPOSTA CASSONETTO IN RILEVATO	4082,64	-	-	(3)
F	VARIAZIONE STERRO (Per pavimentazione spessore = 57 cm)	3822,6	0,13	496,94	(4)
G	VARIAZIONE RIPORTO (Per pavimentazione spessore = 57 cm)	4082,64	0,13	530,74	(5)
H	STERRO (Pavimentazione spessore = 57 cm)	-	-	14663,215	(6)
I	RIPORTO (Pavimentazione spessore = 57 cm)	-	-	63847,088	(7)

Nota 1 : Il valore (C) è coincidente con la superficie dell'articolo di computo "Fondazione"
(vedi tabella riassuntiva pagina precedente)

Nota 2 : Il valore (D) è coincidente con la superficie dell'articolo di computo "Bonifica trincea"
(vedi tabella riassuntiva pagina precedente)

Nota 3 : Il valore (E) è determinato dalla differenza fra la superfici C - D

Nota 4 : Il valore (F) è il volume calcolato dal prodotto tra la superficie "D" e la variazione di spessore tra il pacchetto di pavimentazione da 70 cm e 57 cm

Nota 5 : Il valore (G) è il volume calcolato dal prodotto tra la superficie "E" e la variazione di spessore tra il pacchetto di pavimentazione da 70 cm e 57 cm

Nota 6 : Il valore (H) è il volume totale di sterro calcolato come A-H

Nota 7 : Il valore (I) è il volume totale di riporto calcolato come B+G



		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

TABELLA RIEPILOGATIVA COMPUTI

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 1

COMPUTO DEI VOLUMI		Foglio n. 179	
Volume dalla sezione R1-1 alla sezione R1-72			
ARTICOLO	VOLUME		
STERRO	mc		14663.215
RIFORTO	mc		63847.088
VEGETALE IN RILEVATO	mc		2811.727
GRADONATURA	mc		1092.600
SEMINA	mq		9525.90
SEMINA	mq		2466.82
SCOTICO	mq		9376.24
SCOTICO SU GRADONATURA	mq		2724.48
BONIFICA RILEVATO	mq		9376.24
USURA	mq		8128.65
BINDER	mq		8223.82
BASE	mq		7469.83
FONDAZIONE	mq		7905.24
BONIFICA TRINCEA	mq		3822.60

		<p align="center">Ponte sullo Stretto di Messina PROGETTO DEFINITIVO</p>		
<p align="center">TABULATI MOVIMENTI MATERIA</p>	<p><i>Codice documento</i> SS0760_F0.doc</p>	<p><i>Rev</i> F0</p>	<p><i>Data</i> 20/06/2011</p>	

		<p align="center">Ponte sullo Stretto di Messina PROGETTO DEFINITIVO</p>		
<p align="center">TABULATI MOVIMENTI MATERIA</p>		<p><i>Codice documento</i> SS0760_F0.doc</p>	<p><i>Rev</i> F0</p>	<p><i>Data</i> 20/06/2011</p>

MOVIMENTI MATERIA SVINCOLO ANNUNZIATA
RAMPA 2

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE AREE	Foglio n. 1		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
R2-1 0.00	S1	$(1.10-0.00) \times (152.00+151.22) / 2$ $(2.52-1.10) \times (153.00+152.00) / 2$ $(4.00-2.52) \times (154.00+153.00) / 2$ $(5.52-4.00) \times (155.00+154.00) / 2$ $(6.84-5.52) \times (155.80+155.00) / 2$ $(10.39-6.84) \times (155.47+155.80) / 2$ $(11.28-10.39) \times (156.00+155.47) / 2$ $(12.90-11.28) \times (157.00+156.00) / 2$ $(18.48-12.90) \times (160.00+157.00) / 2$ $(24.25-18.48) \times (160.00+160.00) / 2$ $(24.79-24.25) \times (159.50+160.00) / 2$ $(31.29-24.79) \times (160.00+159.50) / 2$ $(31.75-31.29) \times (160.36+160.00) / 2$ $(36.23-31.75) \times (160.55+160.36) / 2$ $(31.84-36.23) \times (158.31+160.55) / 2$ $(29.84-31.84) \times (158.31+158.31) / 2$ $(19.84-29.84) \times (153.31+158.31) / 2$ $(17.84-19.84) \times (153.31+153.31) / 2$ $(7.84-17.84) \times (148.31+153.31) / 2$ $(6.52-7.84) \times (148.31+148.31) / 2$ $(5.50-6.52) \times (148.16+148.16) / 2$ $(-0.00-5.50) \times (147.48+147.86) / 2$	166.77 216.55 227.18 234.84 205.13 552.50 138.60 253.53 884.43 923.20 86.26 1038.38 73.68 718.84 -699.90 -316.62 -1558.10 -306.62 -1508.10 -195.77 -151.12 -812.19	171.47	
R2-2 20.00	S1	$(0.47-0.13) \times (152.00+151.62) / 2$ $(2.05-0.47) \times (153.00+152.00) / 2$ $(3.64-2.05) \times (154.00+153.00) / 2$ $(5.27-3.64) \times (155.00+154.00) / 2$ $(6.96-5.27) \times (156.00+155.00) / 2$ $(7.87-6.96) \times (156.53+156.00) / 2$ $(11.84-7.87) \times (156.48+156.53) / 2$ $(12.62-11.84) \times (157.00+156.48) / 2$ $(14.16-12.62) \times (158.00+157.00) / 2$ $(15.77-14.16) \times (159.00+158.00) / 2$ $(20.86-15.77) \times (162.04+159.00) / 2$ $(29.97-20.86) \times (162.00+162.04) / 2$ $(33.59-29.97) \times (162.00+162.00) / 2$ $(34.41-33.59) \times (162.01+162.00) / 2$ $(34.43-34.41) \times (162.00+162.01) / 2$ $(37.45-34.43) \times (162.53+162.00) / 2$ $(31.84-37.45) \times (159.67+162.53) / 2$ $(29.84-31.84) \times (159.67+159.67) / 2$ $(19.84-29.84) \times (154.67+159.67) / 2$ $(17.84-19.84) \times (154.67+154.67) / 2$ $(7.84-17.84) \times (149.67+154.67) / 2$ $(6.53-7.84) \times (149.67+149.67) / 2$ $(5.50-6.53) \times (149.52+149.52) / 2$ $(-0.13-5.50) \times (149.04+149.22) / 2$	91.09 240.95 244.07 251.83 262.80 142.20 621.32 122.26 242.55 255.18 817.05 1476.00 586.44 132.84 3.24 490.04 -903.77 -319.34 -1571.70 -309.34 -1521.70 -196.07 -154.01 -839.60	164.33	
R2-3	S1	$(0.05-0.64) \times (154.00+153.43) / 2$	106.06		
A RIPORTARE mq			106.06		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE AREE		Foglio n. 2	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			106.06		
40.00		$(1.05-0.05) \times (155.00+154.00) / 2$ $(2.67-1.05) \times (156.00+155.00) / 2$ $(3.76-2.67) \times (157.00+156.00) / 2$ $(4.89-3.76) \times (158.00+157.00) / 2$ $(6.24-4.89) \times (159.00+158.00) / 2$ $(7.78-6.24) \times (160.00+159.00) / 2$ $(10.14-7.78) \times (161.00+160.00) / 2$ $(10.63-10.14) \times (161.32+161.00) / 2$ $(13.31-10.63) \times (161.48+161.32) / 2$ $(26.57-13.31) \times (162.00+161.48) / 2$ $(27.87-26.57) \times (161.99+162.00) / 2$ $(28.79-27.87) \times (163.00+161.99) / 2$ $(29.68-28.79) \times (163.00+163.00) / 2$ $(30.48-29.68) \times (163.00+163.00) / 2$ $(31.49-30.48) \times (163.61+163.00) / 2$ $(32.40-31.49) \times (163.68+163.61) / 2$ $(33.83-32.40) \times (164.00+163.68) / 2$ $(39.89-33.83) \times (165.55+164.00) / 2$ $(41.51-39.89) \times (165.87+165.55) / 2$ $(31.84-41.51) \times (160.94+165.87) / 2$ $(29.84-31.84) \times (160.94+160.94) / 2$ $(19.84-29.84) \times (155.94+160.94) / 2$ $(17.84-19.84) \times (155.94+155.94) / 2$ $(7.84-17.84) \times (150.94+155.94) / 2$ $(6.52-7.84) \times (150.94+150.94) / 2$ $(5.50-6.52) \times (150.79+150.79) / 2$ $(-0.64-5.50) \times (150.51+150.49) / 2$	154.50 251.91 170.58 177.97 213.98 245.63 378.78 78.97 432.55 2144.67 210.59 149.50 145.07 130.40 164.94 148.92 234.29 998.54 268.45 -1580.13 -321.88 -1584.40 -311.88 -1534.40 -199.24 -153.81 -924.07		
R2-4 49.43	SI	$(9.16-0.98) \times (152.27+151.56) / 2$ $(7.84-9.16) \times (151.51+152.27) / 2$ $(6.52-7.84) \times (151.51+151.51) / 2$ $(5.50-6.52) \times (151.36+151.36) / 2$ $(-0.98-5.50) \times (151.18+151.06) / 2$	1540.42 -200.49 -199.99 -154.39 -979.26	196.49	
R2-5 57.66	RI	$(-0.68--1.42) \times (150.71+150.66) / 2$ $(9.53--0.68) \times (150.63+150.71) / 2$ $(6.91-9.53) \times (152.13+150.63) / 2$ $(5.90-6.91) \times (152.13+152.13) / 2$ $(6.42-5.90) \times (151.61+152.13) / 2$ $(5.50-6.42) \times (151.63+151.61) / 2$ $(-1.42-5.50) \times (151.81+151.63) / 2$	111.51 1538.34 -396.62 -153.65 78.97 -139.49 -1049.90	6.29	
R2-6 80.00	RI	$(-1.91--2.50) \times (147.38+148.00) / 2$ $(8.74--1.91) \times (147.62+147.38) / 2$ $(9.15-8.74) \times (147.63+147.62) / 2$ $(17.77-9.15) \times (147.99+147.63) / 2$ $(17.80-17.77) \times (148.00+147.99) / 2$	87.14 1570.88 60.53 1274.12 4.44	10.84	
A RIPORTARE mq			2997.11		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE AREE	Foglio n. 3			
STERRI E RIPORTI						
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE	
RIPORTIO mq			2997.11			
R2-7 100.00	R1	(18.29-17.80) x (148.24+148.00) / 2	72.58			
		(17.66-18.29) x (148.61+148.24) / 2	-93.51			
		(15.66-17.66) x (148.61+148.61) / 2	-297.22			
		(6.91-15.66) x (153.61+148.61) / 2	-1322.21			
		(5.90-6.91) x (153.61+153.61) / 2	-155.15			
		(6.42-5.90) x (153.09+153.61) / 2	79.74			
		(5.50-6.42) x (153.11+153.09) / 2	-140.85			
		(-1.00-5.50) x (153.26+153.11) / 2	-995.70			
		(-1.90--1.00) x (153.26+153.26) / 2	-137.93			
		(-1.40--1.90) x (153.76+153.26) / 2	76.75			
		(-2.50--1.40) x (153.76+153.76) / 2	-169.14			
					85.53	
R2-8 120.00	R1	(20.77--4.72) x (147.83+147.37) / 2	3762.32			
		(20.91-20.77) x (147.93+147.83) / 2	20.70			
		(17.66-20.91) x (149.79+147.93) / 2	-483.80			
		(15.66-17.66) x (149.79+149.79) / 2	-299.58			
		(6.91-15.66) x (154.79+149.79) / 2	-1332.54			
		(5.90-6.91) x (154.79+154.79) / 2	-156.34			
		(6.42-5.90) x (154.26+154.79) / 2	80.35			
		(5.50-6.42) x (154.30+154.26) / 2	-141.94			
		(-1.00-5.50) x (154.52+154.30) / 2	-1003.67			
		(-1.88--1.00) x (154.55+154.52) / 2	-135.99			
		(-1.40--1.88) x (155.02+154.55) / 2	74.30			
		(-2.41--1.40) x (155.02+155.02) / 2	-156.57			
		(-3.23--2.41) x (155.02+155.02) / 2	-127.12			
		(-3.92--3.23) x (155.02+155.02) / 2	-106.96			
(-4.32--3.92) x (155.02+155.02) / 2	-62.01					
(-4.72--4.32) x (155.02+155.02) / 2	-62.01					
			130.86			
R2-9	R1	(22.76--7.07) x (147.84+147.26) / 2	4401.42			
		(22.78-22.76) x (147.86+147.84) / 2	2.96			
		(17.66-22.78) x (150.78+147.86) / 2	-764.52			
		(15.66-17.66) x (150.78+150.78) / 2	-301.56			
		(6.91-15.66) x (155.78+150.78) / 2	-1341.20			
		(5.90-6.91) x (155.78+155.78) / 2	-157.34			
		(6.45-5.90) x (155.23+155.78) / 2	85.53			
		(5.50-6.45) x (155.29+155.23) / 2	-147.50			
		(-1.00-5.50) x (155.70+155.29) / 2	-1010.72			
		(-1.86--1.00) x (155.75+155.70) / 2	-133.92			
		(-1.40--1.86) x (156.21+155.75) / 2	71.75			
		(-2.41--1.40) x (156.21+156.21) / 2	-157.77			
		(-5.23--2.41) x (156.21+156.21) / 2	-440.51			
		(-6.62--5.23) x (156.21+156.21) / 2	-217.13			
		(-6.82--6.62) x (156.21+156.21) / 2	-31.24			
		(-7.07--6.82) x (156.21+156.21) / 2	-39.05			
		(23.18--7.67) x (147.89+147.32) / 2	4553.61			
				180.80		
A RIPORTARE mq			4553.61			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		Codice documento SS0760_F0.doc	Rev F0	Data 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE AREE		Foglio n. 4	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			4553.61		
125.59		$(17.66-23.18) \times (151.04+147.89) / 2$ $(15.66-17.66) \times (151.04+151.04) / 2$ $(6.91-15.66) \times (156.04+151.04) / 2$ $(5.90-6.91) \times (156.04+156.04) / 2$ $(6.45-5.90) \times (155.49+156.04) / 2$ $(5.50-6.45) \times (155.56+155.49) / 2$ $(-1.00-5.50) \times (156.01+155.56) / 2$ $(-1.85--1.00) \times (156.07+156.01) / 2$ $(-1.40--1.85) \times (156.52+156.07) / 2$ $(-2.50--1.40) \times (156.52+156.52) / 2$ $(-5.92--2.50) \times (156.52+156.52) / 2$ $(-7.22--5.92) \times (156.52+156.52) / 2$ $(-7.42--7.22) \times (156.52+156.52) / 2$ $(-7.67--7.42) \times (156.52+156.52) / 2$	-825.05 -302.08 -1343.47 -157.60 85.67 -147.75 -1012.60 -132.63 70.33 -172.17 -535.30 -203.48 -31.30 -39.13	192.95	
R2-10 140.00	R1	$(14.72--8.18) \times (148.00+147.60) / 2$ $(24.22-14.72) \times (148.05+148.00) / 2$ $(17.66-24.22) \times (151.80+148.05) / 2$ $(15.66-17.66) \times (151.80+151.80) / 2$ $(6.91-15.66) \times (156.80+151.80) / 2$ $(5.90-6.91) \times (156.80+156.80) / 2$ $(6.45-5.90) \times (156.25+156.80) / 2$ $(5.50-6.45) \times (156.32+156.25) / 2$ $(-1.00-5.50) \times (156.77+156.32) / 2$ $(-1.85--1.00) \times (156.83+156.77) / 2$ $(-1.40--1.85) \times (157.29+156.83) / 2$ $(-2.41--1.40) \times (157.29+157.29) / 2$ $(-6.34--2.41) \times (157.29+157.29) / 2$ $(-7.73--6.34) \times (157.29+157.29) / 2$ $(-7.93--7.73) \times (157.29+157.29) / 2$ $(-8.18--7.93) \times (157.29+157.29) / 2$	3384.62 1406.24 -983.51 -303.60 -1350.13 -158.37 86.09 -148.47 -1017.54 -133.28 70.68 -158.86 -618.15 -218.63 -31.46 -39.32	213.69	
R2-11 160.00	R1	$(23.01--8.59) \times (148.79+148.02) / 2$ $(24.48-23.01) \times (148.89+148.79) / 2$ $(17.66-24.48) \times (152.79+148.89) / 2$ $(15.66-17.66) \times (152.79+152.79) / 2$ $(6.91-15.66) \times (157.79+152.79) / 2$ $(5.90-6.91) \times (157.79+157.79) / 2$ $(6.45-5.90) \times (157.23+157.79) / 2$ $(5.50-6.45) \times (157.30+157.23) / 2$ $(-1.00-5.50) \times (157.75+157.30) / 2$ $(-1.85--1.00) \times (157.81+157.75) / 2$ $(-1.40--1.85) \times (158.27+157.81) / 2$ $(-2.41--1.40) \times (158.27+158.27) / 2$ $(-6.75--2.41) \times (158.27+158.27) / 2$ $(-8.14--6.75) \times (158.27+158.27) / 2$ $(-8.34--8.14) \times (158.27+158.27) / 2$	4689.60 218.79 -1028.73 -305.58 -1358.79 -159.37 86.63 -149.40 -1023.91 -134.11 71.12 -159.85 -686.89 -220.00 -31.65		
A RIPORTARE mq			-192.14		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE AREE				Foglio n. 5
STERRI E RIPORTI						
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE	
RIPORTIO mq			-192.14			
R2-12 168.88	R1	$(-8.59-8.34) \times (158.27+158.27) / 2$ $(25.53-8.56) \times (148.70+148.17) / 2$ $(17.66-25.53) \times (153.20+148.70) / 2$ $(15.66-17.66) \times (153.20+153.20) / 2$ $(6.91-15.66) \times (158.20+153.20) / 2$ $(5.90-6.91) \times (158.20+158.20) / 2$ $(6.45-5.90) \times (157.64+158.20) / 2$ $(5.50-6.45) \times (157.71+157.64) / 2$ $(-1.00-5.50) \times (158.16+157.71) / 2$ $(-1.85-1.00) \times (158.22+158.16) / 2$ $(-1.40-1.85) \times (158.68+158.22) / 2$ $(-2.41-1.40) \times (158.68+158.68) / 2$ $(-6.72-2.41) \times (158.68+158.68) / 2$ $(-8.11-6.72) \times (158.68+158.68) / 2$ $(-8.31-8.11) \times (158.68+158.68) / 2$ $(-8.56-8.31) \times (158.68+158.68) / 2$	-39.57 5060.15 -1187.98 -306.40 -1362.38 -159.78 86.86 -149.79 -1026.58 -134.46 71.30 -160.27 -683.91 -220.57 -31.74 -39.67	231.71		
R2-13 180.00	R1	$(17.07-8.32) \times (148.44+148.49) / 2$ $(26.15-17.07) \times (148.83+148.44) / 2$ $(17.66-26.15) \times (153.69+148.83) / 2$ $(15.66-17.66) \times (153.69+153.69) / 2$ $(6.91-15.66) \times (158.69+153.69) / 2$ $(5.90-6.91) \times (158.69+158.69) / 2$ $(6.45-5.90) \times (158.13+158.69) / 2$ $(5.50-6.45) \times (158.20+158.13) / 2$ $(-1.00-5.50) \times (158.65+158.20) / 2$ $(-1.85-1.00) \times (158.71+158.65) / 2$ $(-1.40-1.85) \times (159.17+158.71) / 2$ $(-2.41-1.40) \times (159.17+159.17) / 2$ $(-6.48-2.41) \times (159.17+159.17) / 2$ $(-7.87-6.48) \times (159.17+159.17) / 2$ $(-8.07-7.87) \times (159.17+159.17) / 2$ $(-8.32-8.07) \times (159.17+159.17) / 2$	3769.53 1349.61 -1284.20 -307.38 -1366.66 -160.28 87.13 -150.26 -1029.76 -134.88 71.52 -160.76 -647.82 -221.25 -31.83 -39.79	245.22		
R2-14 200.00	R1	$(9.99-6.42) \times (155.00+155.00) / 2$ $(13.36-9.99) \times (155.00+155.00) / 2$ $(14.94-13.36) \times (154.85+155.00) / 2$ $(6.91-14.94) \times (159.44+154.85) / 2$ $(5.90-6.91) \times (159.44+159.44) / 2$ $(6.45-5.90) \times (158.89+159.44) / 2$ $(5.50-6.45) \times (158.95+158.89) / 2$ $(-1.00-5.50) \times (159.41+158.95) / 2$ $(-1.85-1.00) \times (159.47+159.41) / 2$ $(-1.40-1.85) \times (159.92+159.47) / 2$ $(-2.41-1.40) \times (159.92+159.92) / 2$ $(-4.59-2.41) \times (159.92+159.92) / 2$	2543.55 522.35 244.78 -1261.87 -161.03 87.54 -150.97 -1034.67 -135.52 71.86 -161.52 -348.63	257.08		
A RIPORTARE mq			215.87			



		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE AREE		Foglio n. 6	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			215.87		
R2-15 212.17	R1	(-5.97--4.59) x (159.92+159.92) / 2	-220.69	76.78	
		(-6.17--5.97) x (159.92+159.92) / 2	-31.98		
		(-6.42--6.17) x (159.92+159.92) / 2	-39.98		
		(8.68--5.00) x (156.04+156.38) / 2	2136.95		
		(13.58--8.68) x (156.01+156.04) / 2	764.52		
		(7.03--13.58) x (159.76+156.01) / 2	-1034.15		
		(6.02--7.03) x (159.76+159.76) / 2	-161.36		
		(6.57--6.02) x (159.21+159.76) / 2	87.72		
		(5.62--6.57) x (159.27+159.21) / 2	-151.28		
		(-1.00--5.62) x (159.74+159.27) / 2	-1055.92		
(-1.85--1.00) x (159.79+159.74) / 2	-135.80				
(-1.40--1.85) x (160.25+159.79) / 2	72.01				
(-2.46--1.40) x (160.25+160.25) / 2	-169.87				
(-4.10--2.46) x (160.25+160.25) / 2	-262.81				
(-4.53--4.10) x (160.25+160.25) / 2	-68.91				
(-4.75--4.53) x (160.25+160.25) / 2	-35.25				
(-5.00--4.75) x (160.25+160.25) / 2	-40.06				
R2-16 220.00	R1	(4.14--2.50) x (156.51+156.72) / 2	1039.92	54.21	
		(13.88--4.14) x (156.25+156.51) / 2	1523.14		
		(7.52--13.88) x (159.88+156.25) / 2	-1005.29		
		(6.51--7.52) x (159.88+159.88) / 2	-161.48		
		(7.07--6.51) x (159.33+159.88) / 2	89.38		
		(6.11--7.07) x (159.40+159.33) / 2	-152.99		
		(-1.00--6.11) x (159.89+159.40) / 2	-1135.08		
		(-1.85--1.00) x (159.95+159.89) / 2	-135.93		
		(-1.40--1.85) x (160.41+159.95) / 2	72.08		
		(-2.50--1.40) x (160.42+160.41) / 2	-176.46		
R2-17 240.00	R1	(-1.85--1.83) x (160.17+160.17) / 2	-3.20	42.71	
		(-1.83--1.85) x (160.20+160.17) / 2	3.20		
		(-2.50--1.83) x (160.63+160.63) / 2	-107.62		
		(-1.83--2.50) x (158.69+158.78) / 2	106.35		
R2-17 240.00	R2	(3.46--1.83) x (158.00+158.69) / 2	837.65	1.27	
		(4.24--3.46) x (158.00+158.00) / 2	123.24		
		(8.32--4.24) x (158.90+158.00) / 2	646.48		
		(10.31--8.32) x (158.94+158.90) / 2	316.25		
		(8.37--10.31) x (160.04+158.94) / 2	-309.41		
		(7.36--8.37) x (160.04+160.04) / 2	-161.64		
		(7.91--7.36) x (159.49+160.04) / 2	87.87		
		(6.96--7.91) x (159.56+159.49) / 2	-151.55		
		(-1.00--6.96) x (160.12+159.56) / 2	-1272.33		
		(-1.83--1.00) x (160.17+160.12) / 2	-132.92		
R2-17	R2	(-1.40--1.83) x (160.63+160.20) / 2	68.98	16.36	
A RIPORTARE mq			68.98		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE AREE	Foglio n. 7		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			68.98		
240.00		$(-1.83--1.40) \times (160.63+160.63) / 2$	-69.07		
R2-18 248.22	R1	$(-1.83--2.99) \times (160.42+160.44) / 2$ $(-1.60--1.83) \times (160.66+160.42) / 2$ $(-2.61--1.60) \times (160.66+160.66) / 2$ $(-2.99--2.61) \times (160.44+160.66) / 2$	186.10 36.92 -162.27 -61.01	0.09	
R2-18 248.22	S1	$(9.82--1.83) \times (160.30+160.42) / 2$ $(9.33-9.82) \times (160.02+160.30) / 2$ $(8.02-9.33) \times (160.02+160.02) / 2$ $(6.99-8.02) \times (159.87+159.87) / 2$ $(-2.05-6.99) \times (160.20+159.57) / 2$ $(-1.83--2.05) \times (160.42+160.20) / 2$	1868.19 -78.48 -209.63 -164.67 -1445.36 35.27	0.26	
R2-19 262.25	S1	$(-2.02--1.83) \times (160.35+160.35) / 2$ $(-3.34--2.02) \times (160.50+160.50) / 2$ $(-4.22--3.34) \times (161.00+160.50) / 2$ $(-1.83--4.22) \times (161.00+161.00) / 2$	-30.47 -211.86 -141.46 384.79	5.32	
R2-19 262.25	S2	$(-0.90--1.83) \times (161.00+161.00) / 2$ $(3.90--0.90) \times (161.27+161.00) / 2$ $(4.85-3.90) \times (162.00+161.27) / 2$ $(6.11-4.85) \times (163.00+162.00) / 2$ $(9.02-6.11) \times (164.04+163.00) / 2$ $(9.17-9.02) \times (164.00+164.04) / 2$ $(16.05-9.17) \times (164.00+164.00) / 2$ $(8.98-16.05) \times (159.96+164.00) / 2$ $(7.67-8.98) \times (159.96+159.96) / 2$ $(6.64-7.67) \times (159.81+159.81) / 2$ $(-1.00-6.64) \times (160.05+159.51) / 2$ $(-1.83--1.00) \times (160.35+160.35) / 2$	149.73 773.45 153.55 204.75 475.84 24.60 1128.32 -1145.20 -209.55 -164.60 -1220.72 -133.09	1.00	
R2-20 276.27	S1	$(15.54--2.52) \times (164.07+164.26) / 2$ $(8.09--15.54) \times (159.81+164.07) / 2$ $(6.77-8.09) \times (159.81+159.81) / 2$ $(5.75-6.77) \times (159.66+159.66) / 2$ $(-1.90-5.75) \times (159.90+159.36) / 2$ $(-1.41--1.90) \times (160.35+159.90) / 2$ $(-2.52--1.41) \times (160.36+160.35) / 2$	2964.82 -1206.45 -210.95 -162.85 -1221.17 78.46 -177.99	37.08	
R2-21 300.00	S1	$(18.79--0.92) \times (164.43+164.72) / 2$ $(18.53-18.79) \times (164.28+164.43) / 2$ $(16.53-18.53) \times (164.28+164.28) / 2$ $(7.78-16.53) \times (159.28+164.28) / 2$ $(6.47-7.78) \times (159.28+159.28) / 2$ $(5.44-6.47) \times (159.13+159.13) / 2$ $(-0.14-5.44) \times (159.12+158.83) / 2$	3243.77 -42.73 -328.56 -1415.58 -208.66 -163.90 -887.08	63.87	
A RIPORTARE mq			197.26		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE AREE				Foglio n. 8
STERRI E RIPORTI						
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE	
RIPORTO mq			197.26			
		$(-0.92 - 0.14) \times (159.09 + 159.12) / 2$	-124.10	73.16		
Il Direttore dei Lavori		L'Impresa				

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO STERRI E RIPORTI				Foglio n. 9			
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO	DISTANZA m	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO mq	RIPORTO mq	(PROGRESSIVA m)		STERRO mc	RIPORTO mc	STERRO mc	RIPORTO mc
R2-1	S1	171.47		(0.00)	20.00	3358.000			
R2-2	S1	164.33		(20.00)					3358.000
R2-2	S1	164.33		(20.00)	20.00	3608.200			
R2-3	S1	196.49		(40.00)					3608.200
R2-3	S1	196.49		(40.00)	9.43	956.108			
R2-4	S1	6.29		(49.43)					956.108
R2-4	S1	6.29		(49.43)	3.02	9.498			
				$6.29 \cdot 8.23$	3.02				
R2-5	R1		10.84	(57.66)	5.21		28.238		
				$6.29 + 10.84$				9.498	28.238
R2-5	R1		10.84	(57.66)	22.34				
R2-6	R1		85.53	(80.00)				1076.453	
R2-6	R1		85.53	(80.00)	20.00				
R2-7	R1		130.86	(100.00)				2163.900	
R2-7	R1		130.86	(100.00)	20.00				
R2-8	R1		180.80	(120.00)				3116.600	
A RIPORTARE :								7931.806	6385.191

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

				COMPUTO STERRI E RIPORTI		Foglio n. 10			
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO mq	RIPORTO mq			STERRO mc	RIPORTO mc	STERRO mc	RIPORTO mc
RIPORTO :						0.000		7931.806	6385.191
R2-8	R1		180.80	(120.00)					
R2-9	R1		192.95	(125.59)	5.59		1044.631		1044.631
R2-9	R1		192.95	(125.59)					
R2-10	R1		213.69	(140.00)	14.41		2929.841		2929.841
R2-10	R1		213.69	(140.00)					
R2-11	R1		231.71	(160.00)	20.00		4454.000		4454.000
R2-11	R1		231.71	(160.00)					
R2-12	R1		245.22	(168.88)	8.88		2117.569		2117.569
R2-12	R1		245.22	(168.88)					
R2-13	R1		257.08	(180.00)	11.12		2792.788		2792.788
R2-13	R1		257.08	(180.00)					
R2-14	R1		76.78	(200.00)	20.00		3338.600		3338.600
R2-14	R1		76.78	(200.00)					
R2-15	R1		54.21	(212.17)	12.17		797.074		797.074
R2-15	R1		54.21	(212.17)					
R2-16	R1		42.71	(220.00)	7.83		379.442		379.442
R2-16	R1		42.71	(220.00)					
R2-17	R1		1.27	(240.00)	20.00		604.300		604.300
A RIPORTARE :							604.300	7931.806	24239.136

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

				COMPUTO STERRI E RIPORTI		Foglio n. 11			
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO mq	RIPORTO mq			STERRO mc	RIPORTO mc	STERRO mc	RIPORTO mc
RIPORTO :						0.000	604.300	7931.806	24239.136
	R2 R2		0.09 16.36						604.300
R2-17	R1		1.27	(240.00)	8.22		6.288		
R2-18	R1		0.26	(248.22)					
R2-17	R2 R2		0.09 16.36	(240.00)	6.21		51.077		
				16.45*8.22	6.21				
R2-18	S1	5.32		16.45+5.32 (248.22)	2.01	5.347		5.347	57.365
R2-18	R1		0.26	(248.22)	2.90		0.377		
				0.26*14.03	2.90				
R2-19	S1	1.00		(262.25)	11.13	5.565			
R2-18	S1	5.32		(248.22)	14.03	297.436			
R2-19	S2	37.08		(262.25)				303.001	0.377
R2-19	S1 S2	1.00 37.08		(262.25)	14.02	714.669			
R2-20	S1	63.87		(276.27)				714.669	
R2-20	S1	63.87		(276.27)	23.73	1625.861			
R2-21	S1	73.16		(300.00)				1625.861	
Il Direttore dei Lavori				L'Impresa	Totale Articoli			10580.684	24901.178
					A dedurre quantita' precedenti:				
					Quantita' da contabilizzare ...				

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE AREE		Foglio n. 12	
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
R2-5 57.66	C1	$(6.91-9.53) \times (152.13+150.63) / 2$ $(5.90-6.91) \times (152.13+152.13) / 2$ $(5.70-5.90) \times (152.33+152.13) / 2$ $(7.00-5.70) \times (152.43+152.43) / 2$ $(10.16-7.00) \times (150.63+152.43) / 2$ $(9.53-10.16) \times (150.63+150.63) / 2$	-396.62 -153.65 -30.45 198.16 478.83 -94.90	1.37	
R2-6 80.00	C1	$(-1.20--2.50) \times (154.06+154.06) / 2$ $(-1.40--1.20) \times (153.76+153.96) / 2$ $(-1.20--1.40) \times (153.96+153.76) / 2$ $(-2.50--1.20) \times (153.76+154.06) / 2$	200.28 -30.77 30.77 -200.08	0.20	
R2-6 80.00	C2	$(17.66-18.29) \times (148.61+148.24) / 2$ $(15.66-17.66) \times (148.61+148.61) / 2$ $(6.91-15.66) \times (153.61+148.61) / 2$ $(5.90-6.91) \times (153.61+153.61) / 2$ $(5.70-5.90) \times (153.81+153.61) / 2$ $(7.00-5.70) \times (153.91+153.91) / 2$ $(15.75-7.00) \times (148.91+153.91) / 2$ $(17.75-15.75) \times (148.91+148.91) / 2$ $(18.62-17.75) \times (148.41+148.91) / 2$ $(18.29-18.62) \times (148.24+148.41) / 2$	-93.51 -297.22 -1322.21 -155.15 -30.74 200.08 1324.84 297.82 129.33 -48.95	4.29	
R2-7 100.00	C2	$(-1.20--1.40) \times (155.22+155.02) / 2$ $(-2.50--1.20) \times (155.32+155.32) / 2$ $(-3.32--2.50) \times (155.32+155.32) / 2$ $(-4.72--3.32) \times (155.32+155.32) / 2$ $(-1.40--4.72) \times (155.02+155.02) / 2$	31.02 -201.92 -127.36 -217.45 514.67	1.04	
R2-7 100.00	C1	$(17.66-20.91) \times (149.79+147.93) / 2$ $(15.66-17.66) \times (149.79+149.79) / 2$ $(6.91-15.66) \times (154.79+149.79) / 2$ $(5.90-6.91) \times (154.79+154.79) / 2$ $(5.70-5.90) \times (154.99+154.79) / 2$ $(7.00-5.70) \times (155.09+155.09) / 2$ $(15.75-7.00) \times (150.09+155.09) / 2$ $(17.75-15.75) \times (150.09+150.09) / 2$ $(21.18-17.75) \times (148.13+150.09) / 2$ $(20.91-21.18) \times (147.93+148.13) / 2$	-483.80 -299.58 -1332.54 -156.34 -30.98 201.62 1335.16 300.18 511.45 -39.97	5.20	
R2-8 120.00	C1	$(-1.20--1.40) \times (156.41+156.21) / 2$ $(-2.50--1.20) \times (156.51+156.51) / 2$ $(-5.32--2.50) \times (156.51+156.51) / 2$ $(-6.32--5.32) \times (156.51+156.51) / 2$ $(-7.07--6.32) \times (156.51+156.51) / 2$ $(-1.40--7.07) \times (156.21+156.21) / 2$	31.26 -203.46 -441.36 -156.51 -117.38 885.71	1.74	
R2-8 120.00	C2	$(17.66-22.78) \times (150.78+147.86) / 2$ $(15.66-17.66) \times (150.78+150.78) / 2$	-764.52 -301.56		
A RIPORTARE mq			-1066.08		

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE AREE	Foglio n. 13		
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			-1066.08		
R2-9 125.59	C1	$(6.91-15.66) \times (155.78+150.78) / 2$ $(5.90-6.91) \times (155.78+155.78) / 2$ $(5.70-5.90) \times (155.98+155.78) / 2$ $(7.00-5.70) \times (156.08+156.08) / 2$ $(15.75-7.00) \times (151.08+156.08) / 2$ $(17.75-15.75) \times (151.08+151.08) / 2$ $(23.08-17.75) \times (148.03+151.08) / 2$ $(22.78-23.08) \times (147.86+148.03) / 2$ $(-1.20--1.40) \times (156.72+156.52) / 2$ $(-2.50--1.20) \times (156.82+156.82) / 2$ $(-5.92--2.50) \times (156.82+156.82) / 2$ $(-6.92--5.92) \times (156.82+156.82) / 2$ $(-7.67--6.92) \times (156.82+156.82) / 2$ $(-1.40--7.67) \times (156.52+156.52) / 2$	-1341.20 -157.34 -31.18 202.90 1343.83 302.16 797.13 -44.38 31.32 -203.87 -536.32 -156.82 -117.61 981.38	5.84	
R2-9 125.59	C2	$(17.66-23.18) \times (151.04+147.89) / 2$ $(15.66-17.66) \times (151.04+151.04) / 2$ $(6.91-15.66) \times (156.04+151.04) / 2$ $(5.90-6.91) \times (156.04+156.04) / 2$ $(5.70-5.90) \times (156.24+156.04) / 2$ $(7.00-5.70) \times (156.34+156.34) / 2$ $(15.75-7.00) \times (151.34+156.34) / 2$ $(17.75-15.75) \times (151.34+151.34) / 2$ $(23.70-17.75) \times (147.94+151.34) / 2$ $(23.18-23.70) \times (147.89+147.94) / 2$	-825.05 -302.08 -1343.47 -157.60 -31.23 203.24 1346.10 302.68 890.36 -76.92	1.92	
R2-10 140.00	C1	$(-1.20--1.40) \times (157.49+157.29) / 2$ $(-2.50--1.20) \times (157.59+157.59) / 2$ $(-6.43--2.50) \times (157.59+157.59) / 2$ $(-8.18--6.43) \times (157.59+157.59) / 2$ $(-1.40--8.18) \times (157.29+157.29) / 2$	31.48 -204.87 -619.33 -275.78 1066.43	6.03	
R2-10 140.00	C2	$(17.66-24.22) \times (151.80+148.05) / 2$ $(15.66-17.66) \times (151.80+151.80) / 2$ $(6.91-15.66) \times (156.80+151.80) / 2$ $(5.90-6.91) \times (156.80+156.80) / 2$ $(5.70-5.90) \times (157.00+156.80) / 2$ $(7.00-5.70) \times (157.10+157.10) / 2$ $(15.75-7.00) \times (152.10+157.10) / 2$ $(17.75-15.75) \times (152.10+152.10) / 2$ $(24.83-17.75) \times (148.06+152.10) / 2$ $(24.22-24.83) \times (148.05+148.06) / 2$	-983.51 -303.60 -1350.13 -158.37 -31.38 204.23 1352.75 304.20 1062.57 -90.31	2.07	
R2-11 160.00	C1	$(-1.20--1.40) \times (158.47+158.27) / 2$ $(-2.50--1.20) \times (158.57+158.57) / 2$ $(-6.84--2.50) \times (158.57+158.57) / 2$	31.67 -206.14 -688.19	6.45	
A RIPORTARE mq			-862.66		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		Codice documento SS0760_F0.doc	Rev F0	Data 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE AREE		Foglio n. 14					
VEGETALE IN RILEVATO									
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE				
RIPORTIO mq			-862.66						
R2-11 160.00	C2	(-8.59--6.84) x (158.57+158.57) / 2	-277.50	2.20					
		(-1.40--8.59) x (158.27+158.27) / 2	1137.96						
		(17.66-24.48) x (152.79+148.89) / 2	-1028.73						
		(15.66-17.66) x (152.79+152.79) / 2	-305.58						
		(6.91-15.66) x (157.79+152.79) / 2	-1358.79						
		(5.90-6.91) x (157.79+157.79) / 2	-159.37						
		(5.70-5.90) x (157.99+157.79) / 2	-31.58						
		(7.00-5.70) x (158.09+158.09) / 2	205.52						
		(15.75-7.00) x (153.09+158.09) / 2	1361.41						
		(17.75-15.75) x (153.09+153.09) / 2	306.18						
R2-12 168.88	C1	(25.03-17.75) x (148.93+153.09) / 2	1099.35	6.51					
		(24.48-25.03) x (148.89+148.93) / 2	-81.90						
		(-1.20--1.40) x (158.88+158.68) / 2	31.76						
		(-2.50--1.20) x (158.98+158.98) / 2	-206.67						
		(-6.81--2.50) x (158.98+158.98) / 2	-685.20						
		(-8.56--6.81) x (158.98+158.98) / 2	-278.22						
		(-1.40--8.56) x (158.68+158.68) / 2	1136.15						
		R2-12 168.88	C2			(17.66-25.53) x (153.20+148.70) / 2	-1187.98	2.18	
						(15.66-17.66) x (153.20+153.20) / 2	-306.40		
						(6.91-15.66) x (158.20+153.20) / 2	-1362.38		
(5.90-6.91) x (158.20+158.20) / 2	-159.78								
(5.70-5.90) x (158.40+158.20) / 2	-31.66								
(7.00-5.70) x (158.50+158.50) / 2	206.05								
(15.75-7.00) x (153.50+158.50) / 2	1365.00								
(17.75-15.75) x (153.50+153.50) / 2	307.00								
(26.13-17.75) x (148.71+153.50) / 2	1266.26								
(25.53-26.13) x (148.70+148.71) / 2	-89.22								
R2-13 180.00	C1	(-1.20--1.40) x (159.37+159.17) / 2	31.85	6.89					
		(-2.50--1.20) x (159.47+159.47) / 2	-207.31						
		(-6.57--2.50) x (159.47+159.47) / 2	-649.04						
		(-8.32--6.57) x (159.47+159.47) / 2	-279.07						
		(-1.40--8.32) x (159.17+159.17) / 2	1101.46						
R2-13 180.00	C2	(17.66-26.15) x (153.69+148.83) / 2	-1284.20	2.11					
		(15.66-17.66) x (153.69+153.69) / 2	-307.38						
		(6.91-15.66) x (158.69+153.69) / 2	-1366.66						
		(5.90-6.91) x (158.69+158.69) / 2	-160.28						
		(5.70-5.90) x (158.89+158.69) / 2	-31.76						
		(7.00-5.70) x (158.99+158.99) / 2	206.69						
		(15.75-7.00) x (153.99+158.99) / 2	1369.29						
		(17.75-15.75) x (153.99+153.99) / 2	307.98						
		(26.50-17.75) x (148.99+153.99) / 2	1325.54						
		(28.50-26.50) x (148.99+148.99) / 2	297.98						
A RIPORTARE mq			357.20						

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE AREE		Foglio n. 15	
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			357.20		
R2-14 200.00	C1	$(28.59-28.50) \times (148.94+148.99) / 2$ $(26.15-28.59) \times (148.83+148.94) / 2$ $(-1.20--1.40) \times (160.12+159.92) / 2$ $(-2.50--1.20) \times (160.22+160.22) / 2$ $(-4.68--2.50) \times (160.22+160.22) / 2$ $(-6.42--4.68) \times (160.22+160.22) / 2$ $(-1.40--6.42) \times (159.92+159.92) / 2$	13.41 -363.28 32.00 -208.29 -349.28 -278.78 802.80	7.33	
R2-14 200.00	C2	$(6.91-14.94) \times (159.44+154.85) / 2$ $(5.90-6.91) \times (159.44+159.44) / 2$ $(5.70-5.90) \times (159.64+159.44) / 2$ $(7.00-5.70) \times (159.74+159.74) / 2$ $(15.68-7.00) \times (154.78+159.74) / 2$ $(14.94-15.68) \times (154.85+154.78) / 2$	-1261.87 -161.03 -31.91 207.66 1365.02 -114.56	1.55	
R2-15 212.17	C1	$(-1.20--1.40) \times (160.45+160.25) / 2$ $(-2.50--1.20) \times (160.55+160.55) / 2$ $(-5.00--2.50) \times (160.55+160.55) / 2$ $(-1.40--5.00) \times (160.25+160.25) / 2$	32.07 -208.72 -401.38 576.90	3.31	
R2-15 212.17	C2	$(7.03-13.58) \times (159.76+156.01) / 2$ $(6.02-7.03) \times (159.76+159.76) / 2$ $(5.82-6.02) \times (159.96+159.76) / 2$ $(7.12-5.82) \times (160.06+160.06) / 2$ $(14.20-7.12) \times (156.01+160.06) / 2$ $(13.58-14.20) \times (156.01+156.01) / 2$	-1034.15 -161.36 -31.97 208.08 1118.89 -96.73	1.13	
R2-16 220.00	C1	$(7.52-13.88) \times (159.88+156.25) / 2$ $(6.51-7.52) \times (159.88+159.88) / 2$ $(6.31-6.51) \times (160.08+159.88) / 2$ $(7.61-6.31) \times (160.18+160.18) / 2$ $(14.52-7.61) \times (156.23+160.18) / 2$ $(13.88-14.52) \times (156.25+156.23) / 2$	-1005.29 -161.48 -32.00 208.23 1093.20 -99.99	2.76	
R2-17 240.00	C1	$(-1.40--2.50) \times (160.63+160.63) / 2$ $(-1.20--1.40) \times (160.83+160.63) / 2$ $(-2.50--1.20) \times (160.93+160.93) / 2$	176.69 32.15 -209.21	2.67	
R2-17 240.00	C2	$(8.37-10.31) \times (160.04+158.94) / 2$ $(7.36-8.37) \times (160.04+160.04) / 2$ $(7.16-7.36) \times (160.24+160.04) / 2$ $(8.46-7.16) \times (160.34+160.34) / 2$ $(10.91-8.46) \times (158.95+160.34) / 2$ $(10.31-10.91) \times (158.94+158.95) / 2$	-309.41 -161.64 -32.03 208.44 391.13 -95.37	0.37	
R2-18	C1	$(-2.61--2.99) \times (160.66+160.44) / 2$	61.01	1.12	
A RIPORTARE mq			61.01		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE AREE		Foglio n. 16	
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTO mq			61.01		
248.22		$(-1.60--2.61) \times (160.66+160.66) / 2$ $(-1.40--1.60) \times (160.86+160.66) / 2$ $(-2.70--1.40) \times (160.96+160.96) / 2$ $(-3.60--2.70) \times (160.44+160.96) / 2$ $(-2.99--3.60) \times (160.44+160.44) / 2$	162.27 32.15 -209.25 -144.63 97.87	0.58	
R2-20 276.27	C1	$(-1.20--2.52) \times (160.65+160.66) / 2$ $(-1.41--1.20) \times (160.35+160.55) / 2$ $(-2.52--1.41) \times (160.36+160.35) / 2$	212.06 -33.69 -177.99	0.38	
Il Direttore dei Lavori		L'Impresa			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE LUNGHEZZE	Foglio n. 17		
SEMINA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R2-5 57.66	a1	$^1 ((7.00-5.70)^2 + (152.43-152.43)^2)$ $^1 ((10.16-7.00)^2 + (150.63-152.43)^2)$	1.30 3.64		
R2-6	a1	$^1 ((-2.50--1.20)^2 + (154.06-154.06)^2)$	1.30	4.94	
R2-6 80.00	a2	$^1 ((7.00-5.70)^2 + (153.91-153.91)^2)$ $^1 ((15.75-7.00)^2 + (148.91-153.91)^2)$ $^1 ((17.75-15.75)^2 + (148.91-148.91)^2)$ $^1 ((18.62-17.75)^2 + (148.41-148.91)^2)$	1.30 10.08 2.00 1.00	1.30	
R2-7 100.00	a1	$^1 ((-2.50--1.20)^2 + (155.32-155.32)^2)$ $^1 ((-3.81--2.50)^2 + (155.32-155.32)^2)$ $^1 ((-4.72--3.81)^2 + (155.32-155.32)^2)$	1.30 1.31 0.91	14.38	
R2-7 100.00	a2	$^1 ((7.00-5.70)^2 + (155.09-155.09)^2)$ $^1 ((15.75-7.00)^2 + (150.09-155.09)^2)$ $^1 ((17.75-15.75)^2 + (150.09-150.09)^2)$ $^1 ((21.18-17.75)^2 + (148.13-150.09)^2)$	1.30 10.08 2.00 3.95	17.33	
R2-8 120.00	a1	$^1 ((-2.50--1.20)^2 + (156.51-156.51)^2)$ $^1 ((-5.32--2.50)^2 + (156.51-156.51)^2)$ $^1 ((-7.07--5.32)^2 + (156.51-156.51)^2)$	1.30 2.82 1.75	5.87	
R2-8 120.00	a2	$^1 ((7.00-5.70)^2 + (156.08-156.08)^2)$ $^1 ((15.75-7.00)^2 + (151.08-156.08)^2)$ $^1 ((17.75-15.75)^2 + (151.08-151.08)^2)$ $^1 ((23.08-17.75)^2 + (148.03-151.08)^2)$	1.30 10.08 2.00 6.14	19.52	
R2-9 125.59	a1	$^1 ((-2.50--1.20)^2 + (156.82-156.82)^2)$ $^1 ((-5.92--2.50)^2 + (156.82-156.82)^2)$ $^1 ((-7.67--5.92)^2 + (156.82-156.82)^2)$	1.30 3.42 1.75	6.47	
R2-9 125.59	a2	$^1 ((7.00-5.70)^2 + (156.34-156.34)^2)$ $^1 ((15.75-7.00)^2 + (151.34-156.34)^2)$ $^1 ((17.75-15.75)^2 + (151.34-151.34)^2)$ $^1 ((23.70-17.75)^2 + (147.94-151.34)^2)$	1.30 10.08 2.00 6.85	20.23	
R2-10 140.00	a1	$^1 ((-2.50--1.20)^2 + (157.59-157.59)^2)$ $^1 ((-6.43--2.50)^2 + (157.59-157.59)^2)$ $^1 ((-8.18--6.43)^2 + (157.59-157.59)^2)$	1.30 3.93 1.75	6.98	
R2-10 140.00	a2	$^1 ((7.00-5.70)^2 + (157.10-157.10)^2)$ $^1 ((15.75-7.00)^2 + (152.10-157.10)^2)$ $^1 ((17.75-15.75)^2 + (152.10-152.10)^2)$ $^1 ((24.83-17.75)^2 + (148.06-152.10)^2)$	1.30 10.08 2.00 8.15	21.53	
R2-11 160.00	a1	$^1 ((-2.50--1.20)^2 + (158.57-158.57)^2)$ $^1 ((-6.84--2.50)^2 + (158.57-158.57)^2)$ $^1 ((-8.59--6.84)^2 + (158.57-158.57)^2)$	1.30 4.34 1.75		
A RIPORTARE ml			7.39		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE LUNGHEZZE		Foglio n. 18	
SEMINA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTIO ml			7.39		
R2-11	a2	$^1 ((-2.50--1.20)^2 + (158.57-158.57)^2)$	1.30	7.39	
R2-11	a3	$^1 ((7.00-5.70)^2 + (158.09-158.09)^2)$	1.30	1.30	
160.00		$^1 ((15.75-7.00)^2 + (153.09-158.09)^2)$	10.08		
		$^1 ((17.75-15.75)^2 + (153.09-153.09)^2)$	2.00		
		$^1 ((25.03-17.75)^2 + (148.93-153.09)^2)$	8.38	21.76	
R2-12	a1	$^1 ((-2.50--1.20)^2 + (158.98-158.98)^2)$	1.30		
168.88		$^1 ((-6.81--2.50)^2 + (158.98-158.98)^2)$	4.31		
		$^1 ((-8.56--6.81)^2 + (158.98-158.98)^2)$	1.75	7.36	
R2-12	a2	$^1 ((7.00-5.70)^2 + (158.50-158.50)^2)$	1.30		
168.88		$^1 ((15.75-7.00)^2 + (153.50-158.50)^2)$	10.08		
		$^1 ((17.75-15.75)^2 + (153.50-153.50)^2)$	2.00		
		$^1 ((26.13-17.75)^2 + (148.71-153.50)^2)$	9.65	23.03	
R2-13	a1	$^1 ((-2.50--1.20)^2 + (159.47-159.47)^2)$	1.30		
180.00		$^1 ((-6.57--2.50)^2 + (159.47-159.47)^2)$	4.07		
		$^1 ((-8.32--6.57)^2 + (159.47-159.47)^2)$	1.75	7.12	
R2-13	a2	$^1 ((7.00-5.70)^2 + (158.99-158.99)^2)$	1.30		
180.00		$^1 ((15.75-7.00)^2 + (153.99-158.99)^2)$	10.08		
		$^1 ((17.75-15.75)^2 + (153.99-153.99)^2)$	2.00		
		$^1 ((26.50-17.75)^2 + (148.99-153.99)^2)$	10.08		
		$^1 ((28.50-26.50)^2 + (148.99-148.99)^2)$	2.00		
		$^1 ((28.59-28.50)^2 + (148.94-148.99)^2)$	0.10	25.56	
R2-14	a1	$^1 ((-2.50--1.20)^2 + (160.22-160.22)^2)$	1.30		
200.00		$^1 ((-4.68--2.50)^2 + (160.22-160.22)^2)$	2.18		
		$^1 ((-6.42--4.68)^2 + (160.22-160.22)^2)$	1.74	5.22	
R2-14	a2	$^1 ((7.00-5.70)^2 + (159.74-159.74)^2)$	1.30		
200.00		$^1 ((15.68-7.00)^2 + (154.78-159.74)^2)$	10.00	11.30	
R2-15	a1	$^1 ((-2.50--1.20)^2 + (160.55-160.55)^2)$	1.30		
212.17		$^1 ((-5.00--2.50)^2 + (160.55-160.55)^2)$	2.50	3.80	
R2-15	a2	$^1 ((7.12-5.82)^2 + (160.06-160.06)^2)$	1.30		
212.17		$^1 ((14.20-7.12)^2 + (156.01-160.06)^2)$	8.16	9.46	
R2-16	a1	$^1 ((-2.50--1.20)^2 + (160.71-160.71)^2)$	1.30	1.30	
R2-16	a2	$^1 ((7.61-6.31)^2 + (160.18-160.18)^2)$	1.30		
220.00		$^1 ((14.52-7.61)^2 + (156.23-160.18)^2)$	7.96	9.26	
R2-17	a1	$^1 ((-2.50--1.20)^2 + (160.93-160.93)^2)$	1.30		
A RIPORTARE ml			1.30		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE LUNGHEZZE		Foglio n. 19	
SEMINA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml			1.30		
R2-17 240.00	a2	$\sqrt{(8.46-7.16)^2 + (160.34-160.34)^2}$ $\sqrt{(10.91-8.46)^2 + (158.95-160.34)^2}$	1.30 2.82	1.30 4.12	
R2-18 248.22	a1	$\sqrt{(-2.70--1.40)^2 + (160.96-160.96)^2}$ $\sqrt{(-3.60--2.70)^2 + (160.44-160.96)^2}$	1.30 1.04	2.34	
Il Direttore dei Lavori		L'Impresa			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE LUNGHEZZE	Foglio n. 20		
SEMINA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R2-1 0.00	b1	$^1 ((7.75-6.52)^2 + (148.61-148.61)^2)$ $^1 ((17.75-7.75)^2 + (153.61-148.61)^2)$ $^1 ((19.75-17.75)^2 + (153.61-153.61)^2)$ $^1 ((29.75-19.75)^2 + (158.61-153.61)^2)$ $^1 ((31.75-29.75)^2 + (158.61-158.61)^2)$ $^1 ((35.57-31.75)^2 + (160.52-158.61)^2)$	1.23 11.18 2.00 11.18 2.00 4.27	31.86	
R2-2 20.00	b1	$^1 ((7.75-6.53)^2 + (149.97-149.97)^2)$ $^1 ((17.75-7.75)^2 + (154.97-149.97)^2)$ $^1 ((19.75-17.75)^2 + (154.97-154.97)^2)$ $^1 ((29.75-19.75)^2 + (159.97-154.97)^2)$ $^1 ((31.75-29.75)^2 + (159.97-159.97)^2)$ $^1 ((36.55-31.75)^2 + (162.37-159.97)^2)$	1.22 11.18 2.00 11.18 2.00 5.37	32.95	
R2-3 40.00	b1	$^1 ((7.75-6.52)^2 + (151.24-151.24)^2)$ $^1 ((17.75-7.75)^2 + (156.24-151.24)^2)$ $^1 ((19.75-17.75)^2 + (156.24-156.24)^2)$ $^1 ((29.75-19.75)^2 + (161.24-156.24)^2)$ $^1 ((31.75-29.75)^2 + (161.24-161.24)^2)$ $^1 ((40.67-31.75)^2 + (165.70-161.24)^2)$	1.23 11.18 2.00 11.18 2.00 9.97	37.56	
R2-4 49.43	b1	$^1 ((7.75-6.52)^2 + (151.81-151.81)^2)$ $^1 ((8.46-7.75)^2 + (152.22-151.81)^2)$	1.23 0.82	2.05	
R2-18 248.22	b1	$^1 ((9.24-8.02)^2 + (160.32-160.32)^2)$ $^1 ((9.27-9.24)^2 + (160.30-160.32)^2)$	1.22 0.04	1.26	
R2-19 262.25	b2	$^1 ((-3.25--2.03)^2 + (160.80-160.80)^2)$ $^1 ((-3.60--3.25)^2 + (161.00-160.80)^2)$	1.22 0.40	1.62	
R2-19 262.25	b1	$^1 ((8.89-7.67)^2 + (160.26-160.26)^2)$ $^1 ((15.44-8.89)^2 + (164.00-160.26)^2)$	1.22 7.54	8.76	
R2-20 276.27	b1	$^1 ((8.00-6.77)^2 + (160.11-160.11)^2)$ $^1 ((14.94-8.00)^2 + (164.08-160.11)^2)$	1.23 8.00	9.23	
R2-21 300.00	b1	$^1 ((7.69-6.47)^2 + (159.58-159.58)^2)$ $^1 ((16.24-7.69)^2 + (164.47-159.58)^2)$	1.22 9.85	11.07	
Il Direttore dei Lavori		L'Impresa			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE LUNGHEZZE		Foglio n. 21	
SCOTICO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R2-5 57.66	c1	$^1 ((-0.68--1.42)^2 + (150.51-150.46)^2)$ $^1 (9.53--0.68)^2 + (150.43-150.51)^2$	0.74 10.21	10.95	
R2-6 80.00	c1	$^1 ((-1.91--2.50)^2 + (147.18-147.80)^2)$ $^1 (8.74--1.91)^2 + (147.42-147.18)^2$ $^1 (9.15-8.74)^2 + (147.43-147.42)^2$ $^1 (17.77-9.15)^2 + (147.79-147.43)^2$ $^1 (17.80-17.77)^2 + (147.80-147.79)^2$ $^1 (18.29-17.80)^2 + (148.04-147.80)^2$	0.86 10.65 0.41 8.63 0.03 0.55	21.13	
R2-7 100.00	c1	$^1 (20.77--4.72)^2 + (147.63-147.17)^2$ $^1 (20.91-20.77)^2 + (147.73-147.63)^2$	25.49 0.17	25.66	
R2-8 120.00	c1	$^1 (22.76--7.07)^2 + (147.64-147.06)^2$ $^1 (22.78-22.76)^2 + (147.66-147.64)^2$	29.84 0.03	29.87	
R2-9	c1	$^1 (23.18--7.67)^2 + (147.69-147.12)^2$	30.86	30.86	
R2-10 140.00	c1	$^1 (14.72--8.18)^2 + (147.80-147.40)^2$ $^1 (24.22-14.72)^2 + (147.85-147.80)^2$	22.90 9.50	32.40	
R2-11 160.00	c1	$^1 (23.01--8.59)^2 + (148.59-147.82)^2$ $^1 (24.48-23.01)^2 + (148.69-148.59)^2$	31.61 1.47	33.08	
R2-12	c1	$^1 (25.53--8.56)^2 + (148.50-147.97)^2$	34.09	34.09	
R2-13 180.00	c1	$^1 (17.07--8.32)^2 + (148.24-148.29)^2$ $^1 (26.15-17.07)^2 + (148.63-148.24)^2$	25.39 9.09	34.48	
R2-14 200.00	c1	$^1 (9.99--6.42)^2 + (154.80-154.80)^2$ $^1 (13.36-9.99)^2 + (154.80-154.80)^2$ $^1 (14.94-13.36)^2 + (154.65-154.80)^2$	16.41 3.37 1.59	21.37	
R2-15 212.17	c1	$^1 (8.68--5.00)^2 + (155.84-156.18)^2$ $^1 (13.58-8.68)^2 + (155.81-155.84)^2$	13.68 4.90	18.58	
R2-16 220.00	c1	$^1 (4.14--2.50)^2 + (156.31-156.52)^2$ $^1 (13.88-4.14)^2 + (156.05-156.31)^2$	6.64 9.74	16.38	
R2-17 240.00	c1	$^1 (3.46--2.50)^2 + (157.80-158.58)^2$ $^1 (4.24-3.46)^2 + (157.80-157.80)^2$ $^1 (8.32-4.24)^2 + (158.70-157.80)^2$ $^1 (10.31-8.32)^2 + (158.74-158.70)^2$	6.01 0.78 4.18 1.99	12.96	
R2-18	c1	$^1 (-1.83--2.99)^2 + (160.22-160.24)^2$	1.16	1.16	
Il Direttore dei Lavori		L'Impresa			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE LUNGHEZZE		Foglio n. 22	
BONIFICA RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R2-5 57.66	f1	$^1 ((-0.68--1.42)^2 + (150.51-150.46)^2)$ $^1 (9.53--0.68)^2 + (150.43-150.51)^2$	0.74 10.21	10.95	
R2-6 80.00	f1	$^1 ((-1.91--2.50)^2 + (147.18-147.80)^2)$ $^1 (8.74--1.91)^2 + (147.42-147.18)^2$ $^1 (9.15-8.74)^2 + (147.43-147.42)^2$ $^1 (17.77-9.15)^2 + (147.79-147.43)^2$ $^1 (17.80-17.77)^2 + (147.80-147.79)^2$ $^1 (18.29-17.80)^2 + (148.04-147.80)^2$	0.86 10.65 0.41 8.63 0.03 0.55	21.13	
R2-7 100.00	f1	$^1 (20.77--4.72)^2 + (147.63-147.17)^2$ $^1 (20.91-20.77)^2 + (147.73-147.63)^2$	25.49 0.17	25.66	
R2-8 120.00	f1	$^1 (22.76--7.07)^2 + (147.64-147.06)^2$ $^1 (22.78-22.76)^2 + (147.66-147.64)^2$	29.84 0.03	29.87	
R2-9	f1	$^1 (23.18--7.67)^2 + (147.69-147.12)^2$	30.86	30.86	
R2-10 140.00	f1	$^1 (14.72--8.18)^2 + (147.80-147.40)^2$ $^1 (24.22-14.72)^2 + (147.85-147.80)^2$	22.90 9.50	32.40	
R2-11 160.00	f1	$^1 (23.01--8.59)^2 + (148.59-147.82)^2$ $^1 (24.48-23.01)^2 + (148.69-148.59)^2$	31.61 1.47	33.08	
R2-12	f1	$^1 (25.53--8.56)^2 + (148.50-147.97)^2$	34.09	34.09	
R2-13 180.00	f1	$^1 (17.07--8.32)^2 + (148.24-148.29)^2$ $^1 (26.15-17.07)^2 + (148.63-148.24)^2$	25.39 9.09	34.48	
R2-14 200.00	f1	$^1 (9.99--6.42)^2 + (154.80-154.80)^2$ $^1 (13.36-9.99)^2 + (154.80-154.80)^2$ $^1 (14.94-13.36)^2 + (154.65-154.80)^2$	16.41 3.37 1.59	21.37	
R2-15 212.17	f1	$^1 (8.68--5.00)^2 + (155.84-156.18)^2$ $^1 (13.58-8.68)^2 + (155.81-155.84)^2$	13.68 4.90	18.58	
R2-16 220.00	f1	$^1 (4.14--2.50)^2 + (156.31-156.52)^2$ $^1 (13.88-4.14)^2 + (156.05-156.31)^2$	6.64 9.74	16.38	
R2-17 240.00	f1	$^1 (3.46--2.50)^2 + (157.80-158.58)^2$ $^1 (4.24-3.46)^2 + (157.80-157.80)^2$ $^1 (8.32-4.24)^2 + (158.70-157.80)^2$ $^1 (10.31-8.32)^2 + (158.74-158.70)^2$	6.01 0.78 4.18 1.99	12.96	
R2-18	f1	$^1 (-1.83--2.99)^2 + (160.22-160.24)^2$	1.16	1.16	
Il Direttore dei Lavori		L'Impresa			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE LUNGHEZZE	Foglio n. 23		
USURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R2-1	g1	$^1 ((5.50-0.00)^2 + (148.51-148.13)^2)$	5.51	5.51	
R2-2	g1	$^1 ((5.50-0.13)^2 + (149.87-149.69)^2)$	5.63	5.63	
R2-3	g1	$^1 ((5.50-0.64)^2 + (151.14-151.16)^2)$	6.14	6.14	
R2-4	g1	$^1 ((5.50-0.98)^2 + (151.71-151.83)^2)$	6.48	6.48	
R2-5	g1	$^1 ((5.50-1.42)^2 + (152.28-152.46)^2)$	6.92	6.92	
R2-6	g1	$^1 ((-1.00-1.20)^2 + (153.91-153.91)^2)$	0.20		
80.00		$^1 ((5.50-1.00)^2 + (153.76-153.91)^2)$	6.50		
		$^1 ((5.70-5.50)^2 + (153.76-153.76)^2)$	0.20	6.90	
R2-7	g1	$^1 ((-1.00-1.20)^2 + (155.17-155.17)^2)$	0.20		
100.00		$^1 ((5.50-1.00)^2 + (154.95-155.17)^2)$	6.50		
		$^1 ((5.70-5.50)^2 + (154.94-154.95)^2)$	0.20	6.90	
R2-8	g1	$^1 ((-1.00-1.20)^2 + (156.35-156.36)^2)$	0.20		
120.00		$^1 ((5.50-1.00)^2 + (155.94-156.35)^2)$	6.51		
		$^1 ((5.70-5.50)^2 + (155.93-155.94)^2)$	0.20	6.91	
R2-9	g1	$^1 ((-1.00-1.20)^2 + (156.66-156.67)^2)$	0.20		
125.59		$^1 ((5.50-1.00)^2 + (156.21-156.66)^2)$	6.52		
		$^1 ((5.70-5.50)^2 + (156.19-156.21)^2)$	0.20	6.92	
R2-10	g1	$^1 ((-1.00-1.20)^2 + (157.42-157.44)^2)$	0.20		
140.00		$^1 ((5.50-1.00)^2 + (156.97-157.42)^2)$	6.52		
		$^1 ((5.70-5.50)^2 + (156.95-156.97)^2)$	0.20	6.92	
R2-11	g1	$^1 ((-1.00-1.20)^2 + (158.40-158.42)^2)$	0.20		
160.00		$^1 ((5.50-1.00)^2 + (157.95-158.40)^2)$	6.52		
		$^1 ((5.70-5.50)^2 + (157.94-157.95)^2)$	0.20	6.92	
R2-12	g1	$^1 ((-1.00-1.20)^2 + (158.81-158.83)^2)$	0.20		
168.88		$^1 ((5.50-1.00)^2 + (158.36-158.81)^2)$	6.52		
		$^1 ((5.70-5.50)^2 + (158.35-158.36)^2)$	0.20	6.92	
R2-13	g1	$^1 ((-1.00-1.20)^2 + (159.30-159.32)^2)$	0.20		
180.00		$^1 ((5.50-1.00)^2 + (158.85-159.30)^2)$	6.52		
		$^1 ((5.70-5.50)^2 + (158.84-158.85)^2)$	0.20	6.92	
R2-14	g1	$^1 ((-1.00-1.20)^2 + (160.06-160.07)^2)$	0.20		
200.00		$^1 ((5.50-1.00)^2 + (159.60-160.06)^2)$	6.52		
		$^1 ((5.70-5.50)^2 + (159.59-159.60)^2)$	0.20	6.92	
R2-15	g1	$^1 ((-1.00-1.20)^2 + (160.39-160.40)^2)$	0.20		
212.17		$^1 ((5.62-1.00)^2 + (159.92-160.39)^2)$	6.64		
		$^1 ((5.82-5.62)^2 + (159.91-159.92)^2)$	0.20		
A RIPORTARE ml			7.04		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE LUNGHEZZE		Foglio n. 24	
USURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml			7.04		
R2-16 220.00	gl	$\frac{1}{2} ((-1.00--1.20)^2 + (160.54-160.56)^2)$ $\frac{1}{2} ((6.11--1.00)^2 + (160.05-160.54)^2)$ $\frac{1}{2} ((6.31-6.11)^2 + (160.03-160.05)^2)$	0.20 7.13 0.20	7.04 7.53	
R2-17 240.00	gl	$\frac{1}{2} ((6.96--1.25)^2 + (160.21-160.78)^2)$ $\frac{1}{2} ((7.16-6.96)^2 + (160.19-160.21)^2)$	8.23 0.20	8.43	
R2-18 248.22	gl	$\frac{1}{2} ((-1.00--1.45)^2 + (160.78-160.81)^2)$ $\frac{1}{2} ((6.99--1.00)^2 + (160.22-160.78)^2)$	0.45 8.01	8.46	
R2-19	gl	$\frac{1}{2} ((6.64--1.00)^2 + (160.16-160.70)^2)$	7.66	7.66	
R2-20	gl	$\frac{1}{2} ((5.75--1.20)^2 + (160.01-160.50)^2)$	6.97	6.97	
R2-21 300.00	gl	$\frac{1}{2} ((0.00--0.92)^2 + (159.76-159.72)^2)$ $\frac{1}{2} ((5.44-0.00)^2 + (159.48-159.76)^2)$	0.92 5.45	6.37	
R2-22 320.00	gl	$\frac{1}{2} ((0.00--0.17)^2 + (159.22-159.21)^2)$ $\frac{1}{2} ((5.79-0.00)^2 + (159.00-159.22)^2)$	0.17 5.79	5.96	
R2-23 340.00	gl	$\frac{1}{2} ((0.00--1.00)^2 + (158.75-158.73)^2)$ $\frac{1}{2} ((6.25-0.00)^2 + (158.62-158.75)^2)$	1.00 6.25	7.25	
R2-24	gl	$\frac{1}{2} ((6.25--1.00)^2 + (158.59-158.72)^2)$	7.25	7.25	
Il Direttore dei Lavori		L'Impresa			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE LUNGHEZZE				Foglio n. 25
BINDER						
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE	
R2-1	h1	$^1 ((5.50-0.00)^2 + (148.46-148.08)^2)$	5.51	5.51		
R2-2	h1	$^1 ((5.50-0.13)^2 + (149.82-149.64)^2)$	5.63	5.63		
R2-3	h1	$^1 ((5.50-0.64)^2 + (151.09-151.11)^2)$	6.14	6.14		
R2-4	h1	$^1 ((5.50-0.98)^2 + (151.66-151.78)^2)$	6.48	6.48		
R2-5	h1	$^1 ((5.50-1.42)^2 + (152.23-152.41)^2)$	6.92	6.92		
R2-6	h1	$^1 ((-1.00-1.20)^2 + (153.86-153.86)^2)$	0.20			
80.00		$^1 ((5.50-1.00)^2 + (153.71-153.86)^2)$	6.50			
		$^1 ((5.70-5.50)^2 + (153.71-153.71)^2)$	0.20	6.90		
R2-7	h1	$^1 ((-1.00-1.20)^2 + (155.12-155.12)^2)$	0.20			
100.00		$^1 ((5.50-1.00)^2 + (154.90-155.12)^2)$	6.50			
		$^1 ((5.70-5.50)^2 + (154.89-154.90)^2)$	0.20	6.90		
R2-8	h1	$^1 ((-1.00-1.20)^2 + (156.30-156.31)^2)$	0.20			
120.00		$^1 ((5.50-1.00)^2 + (155.89-156.30)^2)$	6.51			
		$^1 ((5.70-5.50)^2 + (155.88-155.89)^2)$	0.20	6.91		
R2-9	h1	$^1 ((-1.00-1.20)^2 + (156.61-156.62)^2)$	0.20			
125.59		$^1 ((5.50-1.00)^2 + (156.16-156.61)^2)$	6.52			
		$^1 ((5.70-5.50)^2 + (156.14-156.16)^2)$	0.20	6.92		
R2-10	h1	$^1 ((-1.00-1.20)^2 + (157.37-157.39)^2)$	0.20			
140.00		$^1 ((5.50-1.00)^2 + (156.92-157.37)^2)$	6.52			
		$^1 ((5.70-5.50)^2 + (156.90-156.92)^2)$	0.20	6.92		
R2-11	h1	$^1 ((-1.00-1.20)^2 + (158.35-158.37)^2)$	0.20			
160.00		$^1 ((5.50-1.00)^2 + (157.90-158.35)^2)$	6.52			
		$^1 ((5.70-5.50)^2 + (157.89-157.90)^2)$	0.20	6.92		
R2-12	h1	$^1 ((-1.00-1.20)^2 + (158.76-158.78)^2)$	0.20			
168.88		$^1 ((5.50-1.00)^2 + (158.31-158.76)^2)$	6.52			
		$^1 ((5.70-5.50)^2 + (158.30-158.31)^2)$	0.20	6.92		
R2-13	h1	$^1 ((-1.00-1.20)^2 + (159.25-159.27)^2)$	0.20			
180.00		$^1 ((5.50-1.00)^2 + (158.80-159.25)^2)$	6.52			
		$^1 ((5.70-5.50)^2 + (158.79-158.80)^2)$	0.20	6.92		
R2-14	h1	$^1 ((-1.00-1.20)^2 + (160.01-160.02)^2)$	0.20			
200.00		$^1 ((5.50-1.00)^2 + (159.55-160.01)^2)$	6.52			
		$^1 ((5.70-5.50)^2 + (159.54-159.55)^2)$	0.20	6.92		
R2-15	h1	$^1 ((-1.00-1.20)^2 + (160.34-160.35)^2)$	0.20			
212.17		$^1 ((5.62-1.00)^2 + (159.87-160.34)^2)$	6.64			
		$^1 ((5.82-5.62)^2 + (159.86-159.87)^2)$	0.20			
A RIPORTARE ml			7.04			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE LUNGHEZZE		Foglio n. 26	
BINDER					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml			7.04		
R2-16 220.00	h1	$\frac{1}{2} ((-1.00--1.20)^2 + (160.49-160.51)^2)$ $\frac{1}{2} ((6.11--1.00)^2 + (160.00-160.49)^2)$ $\frac{1}{2} ((6.31-6.11)^2 + (159.98-160.00)^2)$	0.20 7.13 0.20	7.04 7.53	
R2-17 240.00	h1	$\frac{1}{2} ((6.96--1.29)^2 + (160.16-160.74)^2)$ $\frac{1}{2} ((7.16-6.96)^2 + (160.14-160.16)^2)$	8.27 0.20	8.47 7.66	
R2-18 248.22	h1	$\frac{1}{2} ((-1.00--1.49)^2 + (160.73-160.76)^2)$ $\frac{1}{2} ((6.99--1.00)^2 + (160.17-160.73)^2)$	0.49 8.01	8.50 6.97	
R2-19	h1	$\frac{1}{2} ((6.64--1.00)^2 + (160.11-160.65)^2)$	7.66	7.66	
R2-20	h1	$\frac{1}{2} ((5.75--1.20)^2 + (159.96-160.45)^2)$	6.97	6.97	
R2-21 300.00	h1	$\frac{1}{2} ((0.00--0.92)^2 + (159.71-159.67)^2)$ $\frac{1}{2} ((5.44-0.00)^2 + (159.43-159.71)^2)$	0.92 5.45	6.37	
R2-22 320.00	h1	$\frac{1}{2} ((0.00--0.17)^2 + (159.17-159.16)^2)$ $\frac{1}{2} ((5.79-0.00)^2 + (158.95-159.17)^2)$	0.17 5.79	5.96	
R2-23 340.00	h1	$\frac{1}{2} ((0.00--1.00)^2 + (158.70-158.68)^2)$ $\frac{1}{2} ((6.25-0.00)^2 + (158.57-158.70)^2)$	1.00 6.25	7.25	
R2-24	h1	$\frac{1}{2} ((6.25--1.00)^2 + (158.54-158.67)^2)$	7.25	7.25	
Il Direttore dei Lavori		L'Impresa			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		Codice documento SS0760_F0.doc	Rev F0	Data 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE LUNGHEZZE				Foglio n. 27
BASE						
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE	
R2-1	i1	$^1 ((5.50-0.00)^2 + (148.31-147.93)^2)$	5.51	5.51		
R2-2	i1	$^1 ((5.50-0.13)^2 + (149.67-149.49)^2)$	5.63	5.63		
R2-3	i1	$^1 ((5.50-0.64)^2 + (150.94-150.96)^2)$	6.14	6.14		
R2-4	i1	$^1 ((5.50-0.98)^2 + (151.51-151.63)^2)$	6.48	6.48		
R2-5 57.66	i1	$^1 ((5.50-1.42)^2 + (152.08-152.19)^2)$ $^1 ((5.96-5.50)^2 + (152.07-152.08)^2)$	6.92 0.46	7.38		
R2-6 80.00	i1	$^1 ((-1.00-1.45)^2 + (153.71-153.71)^2)$ $^1 ((5.50-1.00)^2 + (153.56-153.71)^2)$ $^1 ((5.96-5.50)^2 + (153.55-153.56)^2)$	0.45 6.50 0.46	7.41		
R2-7 100.00	i1	$^1 ((-1.00-1.44)^2 + (154.97-154.98)^2)$ $^1 ((5.50-1.00)^2 + (154.75-154.97)^2)$ $^1 ((5.96-5.50)^2 + (154.73-154.75)^2)$	0.44 6.50 0.46	7.40		
R2-8 120.00	i1	$^1 ((-1.00-1.44)^2 + (156.15-156.17)^2)$ $^1 ((5.50-1.00)^2 + (155.74-156.15)^2)$ $^1 ((5.97-5.50)^2 + (155.71-155.74)^2)$	0.44 6.51 0.47	7.42		
R2-9 125.59	i1	$^1 ((-1.00-1.43)^2 + (156.46-156.49)^2)$ $^1 ((5.50-1.00)^2 + (156.01-156.46)^2)$ $^1 ((5.97-5.50)^2 + (155.97-156.01)^2)$	0.43 6.52 0.47	7.42		
R2-10 140.00	i1	$^1 ((-1.00-1.43)^2 + (157.22-157.25)^2)$ $^1 ((5.50-1.00)^2 + (156.77-157.22)^2)$ $^1 ((5.97-5.50)^2 + (156.73-156.77)^2)$	0.43 6.52 0.47	7.42		
R2-11 160.00	i1	$^1 ((-1.00-1.43)^2 + (158.20-158.23)^2)$ $^1 ((5.50-1.00)^2 + (157.75-158.20)^2)$ $^1 ((5.97-5.50)^2 + (157.72-157.75)^2)$	0.43 6.52 0.47	7.42		
R2-12 168.88	i1	$^1 ((-1.00-1.43)^2 + (158.61-158.64)^2)$ $^1 ((5.50-1.00)^2 + (158.16-158.61)^2)$ $^1 ((5.97-5.50)^2 + (158.13-158.16)^2)$	0.43 6.52 0.47	7.42		
R2-13 180.00	i1	$^1 ((-1.00-1.43)^2 + (159.10-159.13)^2)$ $^1 ((5.50-1.00)^2 + (158.65-159.10)^2)$ $^1 ((5.97-5.50)^2 + (158.62-158.65)^2)$	0.43 6.52 0.47	7.42		
R2-14 200.00	i1	$^1 ((-1.00-1.43)^2 + (159.86-159.89)^2)$ $^1 ((5.50-1.00)^2 + (159.40-159.86)^2)$ $^1 ((5.97-5.50)^2 + (159.37-159.40)^2)$	0.43 6.52 0.47	7.42		
R2-15 212.17	i1	$^1 ((-1.00-1.43)^2 + (160.19-160.22)^2)$ $^1 ((5.62-1.00)^2 + (159.72-160.19)^2)$	0.43 6.64			
A RIPORTARE ml			7.07			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE LUNGHEZZE		Foglio n. 28	
BASE					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml			7.07		
R2-16 220.00	i1	$^1 ((6.09-5.62)^2 + (159.69-159.72)^2)$ $^1 ((-1.00--1.43)^2 + (160.34-160.37)^2)$ $^1 ((6.11--1.00)^2 + (159.85-160.34)^2)$ $^1 ((6.58-6.11)^2 + (159.81-159.85)^2)$	0.47 0.43 7.13 0.47	7.54 8.03	
R2-17 240.00	i1	$^1 ((6.96--1.43)^2 + (160.01-160.60)^2)$ $^1 ((7.43-6.96)^2 + (159.98-160.01)^2)$	8.41 0.47	8.88	
R2-18 248.22	i1	$^1 ((-1.00--1.63)^2 + (160.58-160.62)^2)$ $^1 ((6.99--1.00)^2 + (160.02-160.58)^2)$	0.63 8.01	8.64	
R2-19	i1	$^1 ((6.64--1.00)^2 + (159.96-160.50)^2)$	7.66	7.66	
R2-20	i1	$^1 ((5.75--1.45)^2 + (159.81-160.32)^2)$	7.22	7.22	
R2-21 300.00	i1	$^1 ((0.00--0.92)^2 + (159.56-159.52)^2)$ $^1 ((5.44-0.00)^2 + (159.28-159.56)^2)$	0.92 5.45	6.37	
R2-22 320.00	i1	$^1 ((0.00--0.17)^2 + (159.02-159.01)^2)$ $^1 ((5.79-0.00)^2 + (158.80-159.02)^2)$	0.17 5.79	5.96	
R2-23 340.00	i1	$^1 ((0.00--1.00)^2 + (158.55-158.53)^2)$ $^1 ((6.25-0.00)^2 + (158.42-158.55)^2)$	1.00 6.25	7.25	
R2-24	i1	$^1 ((6.25--1.00)^2 + (158.39-158.52)^2)$	7.25	7.25	
Il Direttore dei Lavori		L'Impresa			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE LUNGHEZZE	Foglio n. 29		
FONDAZIONE					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R2-1	ml	$^1 ((5.50-0.00)^2 + (147.86-147.48)^2)$	5.51	5.51	
R2-2	ml	$^1 ((5.50-0.13)^2 + (149.22-149.04)^2)$	5.63	5.63	
R2-3	ml	$^1 ((5.50-0.64)^2 + (150.49-150.51)^2)$	6.14	6.14	
R2-4	ml	$^1 ((5.50-0.98)^2 + (151.06-151.18)^2)$	6.48	6.48	
R2-5	ml	$^1 ((5.50-1.42)^2 + (151.63-151.81)^2)$	6.92	6.92	
R2-5 57.66	m2	$^1 ((5.50-1.42)^2 + (151.63-151.81)^2)$ $^1 ((6.42-5.50)^2 + (151.61-151.63)^2)$	6.92 0.92	7.84	
R2-6 80.00	ml	$^1 ((-1.00-1.90)^2 + (153.26-153.26)^2)$ $^1 ((5.50-1.00)^2 + (153.11-153.26)^2)$ $^1 ((6.42-5.50)^2 + (153.09-153.11)^2)$	0.90 6.50 0.92	8.32	
R2-7 100.00	ml	$^1 ((-1.00-1.88)^2 + (154.52-154.55)^2)$ $^1 ((5.50-1.00)^2 + (154.30-154.52)^2)$ $^1 ((6.42-5.50)^2 + (154.26-154.30)^2)$	0.88 6.50 0.92	8.30	
R2-8 120.00	ml	$^1 ((-1.00-1.86)^2 + (155.70-155.75)^2)$ $^1 ((5.50-1.00)^2 + (155.29-155.70)^2)$ $^1 ((6.45-5.50)^2 + (155.23-155.29)^2)$	0.86 6.51 0.95	8.32	
R2-9 125.59	ml	$^1 ((-1.00-1.85)^2 + (156.01-156.07)^2)$ $^1 ((5.50-1.00)^2 + (155.56-156.01)^2)$ $^1 ((6.45-5.50)^2 + (155.49-155.56)^2)$	0.85 6.52 0.95	8.32	
R2-10 140.00	ml	$^1 ((-1.00-1.85)^2 + (156.77-156.83)^2)$ $^1 ((5.50-1.00)^2 + (156.32-156.77)^2)$ $^1 ((6.45-5.50)^2 + (156.25-156.32)^2)$	0.85 6.52 0.95	8.32	
R2-11 160.00	ml	$^1 ((-1.00-1.85)^2 + (157.75-157.81)^2)$ $^1 ((5.50-1.00)^2 + (157.30-157.75)^2)$ $^1 ((6.45-5.50)^2 + (157.23-157.30)^2)$	0.85 6.52 0.95	8.32	
R2-12 168.88	ml	$^1 ((-1.00-1.85)^2 + (158.16-158.22)^2)$ $^1 ((5.50-1.00)^2 + (157.71-158.16)^2)$ $^1 ((6.45-5.50)^2 + (157.64-157.71)^2)$	0.85 6.52 0.95	8.32	
R2-13 180.00	ml	$^1 ((-1.00-1.85)^2 + (158.65-158.71)^2)$ $^1 ((5.50-1.00)^2 + (158.20-158.65)^2)$ $^1 ((6.45-5.50)^2 + (158.13-158.20)^2)$	0.85 6.52 0.95	8.32	
R2-14 200.00	ml	$^1 ((-1.00-1.85)^2 + (159.41-159.47)^2)$ $^1 ((5.50-1.00)^2 + (158.95-159.41)^2)$ $^1 ((6.45-5.50)^2 + (158.89-158.95)^2)$	0.85 6.52 0.95	8.32	
A RIPORTARE ml					

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE LUNGHEZZE		Foglio n. 30	
FONDAZIONE					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml					
R2-15 212.17	ml	$^1 ((-1.00--1.85)^2 + (159.74-159.79)^2)$ $^1 ((5.62--1.00)^2 + (159.27-159.74)^2)$ $^1 ((6.57-5.62)^2 + (159.21-159.27)^2)$	0.85 6.64 0.95	8.44	
R2-16 220.00	ml	$^1 ((-1.00--1.85)^2 + (159.89-159.95)^2)$ $^1 ((6.11--1.00)^2 + (159.40-159.89)^2)$ $^1 ((7.07-6.11)^2 + (159.33-159.40)^2)$	0.85 7.13 0.96	8.94	
R2-17 240.00	ml	$^1 ((6.96--1.85)^2 + (159.56-160.17)^2)$ $^1 ((7.91-6.96)^2 + (159.49-159.56)^2)$	8.83 0.95	9.78	
R2-18 248.22	ml	$^1 ((-1.00--2.05)^2 + (160.13-160.20)^2)$ $^1 ((6.99--1.00)^2 + (159.57-160.13)^2)$	1.05 8.01	9.06	
R2-19	ml	$^1 ((6.64--1.00)^2 + (159.51-160.05)^2)$	7.66	7.66	
R2-20	ml	$^1 ((5.75--1.90)^2 + (159.36-159.90)^2)$	7.67	7.67	
R2-21	ml	$^1 ((-0.14--0.92)^2 + (159.12-159.09)^2)$	0.78	0.78	
R2-21	m2	$^1 ((5.44--0.14)^2 + (158.83-159.12)^2)$	5.59	5.59	
R2-22	ml	$^1 ((5.79--0.17)^2 + (158.35-158.58)^2)$	5.96	5.96	
R2-23	ml	$^1 ((6.25--1.00)^2 + (157.97-158.12)^2)$	7.25	7.25	
R2-24	ml	$^1 ((6.25--1.00)^2 + (157.94-158.07)^2)$	7.25	7.25	
Il Direttore dei Lavori		L'Impresa			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		CALCOLO DELLE LUNGHEZZE	Foglio n. 31		
BONIFICA TRINCEA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R2-1	o1	$^1 ((-0.00-5.50)^2 + (147.48-147.86)^2)$	5.51	5.51	
R2-2	o1	$^1 ((-0.13-5.50)^2 + (149.04-149.22)^2)$	5.63	5.63	
R2-3	o1	$^1 ((-0.64-5.50)^2 + (150.51-150.49)^2)$	6.14	6.14	
R2-4	o1	$^1 ((-0.98-5.50)^2 + (151.18-151.06)^2)$	6.48	6.48	
R2-18 248.22	o1	$^1 ((-1.00-6.99)^2 + (160.13-159.57)^2)$ $^1 ((-2.05--1.00)^2 + (160.20-160.13)^2)$	8.01 1.05	9.06	
R2-19	o1	$^1 ((6.64--1.00)^2 + (159.51-160.05)^2)$	7.66	7.66	
R2-20	o1	$^1 ((5.75--1.90)^2 + (159.36-159.90)^2)$	7.67	7.67	
R2-21 300.00	o1	$^1 ((-0.14--0.92)^2 + (159.12-159.09)^2)$ $^1 ((5.44--0.14)^2 + (158.83-159.12)^2)$	0.78 5.59	6.37	
Il Direttore dei Lavori		L'Impresa			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA	<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO DEI VOLUMI			Foglio n. 32			
VEGETALE IN RILEVATO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
R2-4	R2-5	R2-5	C1	1.37	8.23	4.11	5.631	5.631
R2-5	R2-6	R2-5	C1	1.37	22.34	11.17	15.303	65.456
57.66	80.00	R2-6	C1	0.20	22.34	11.17	2.234	
		R2-6	C2	4.29	22.34	11.17	47.919	
R2-6	R2-7	R2-6	C1	0.20	20.00	10.00	2.000	107.300
80.00	100.00	R2-6	C2	4.29	20.00	10.00	42.900	
		R2-7	C2	1.04	20.00	10.00	10.400	
		R2-7	C1	5.20	20.00	10.00	52.000	
R2-7	R2-8	R2-7	C2	1.04	20.00	10.00	10.400	138.200
100.00	120.00	R2-7	C1	5.20	20.00	10.00	52.000	
		R2-8	C1	1.74	20.00	10.00	17.400	
		R2-8	C2	5.84	20.00	10.00	58.400	
R2-8	R2-9	R2-8	C1	1.74	5.59	2.80	4.872	43.484
120.00	125.59	R2-8	C2	5.84	5.59	2.80	16.352	
		R2-9	C1	1.92	5.59	2.80	5.376	
		R2-9	C2	6.03	5.59	2.80	16.884	
R2-9	R2-10	R2-9	C1	1.92	14.41	7.20	13.824	118.584
125.59	140.00	R2-9	C2	6.03	14.41	7.20	43.416	
		R2-10	C1	2.07	14.41	7.20	14.904	
		R2-10	C2	6.45	14.41	7.20	46.440	
R2-10	R2-11	R2-10	C1	2.07	20.00	10.00	20.700	172.300
140.00	160.00	R2-10	C2	6.45	20.00	10.00	64.500	
		R2-11	C1	2.20	20.00	10.00	22.000	
		R2-11	C2	6.51	20.00	10.00	65.100	
R2-11	R2-12	R2-11	C1	2.20	8.88	4.44	9.768	78.943
160.00	168.88	R2-11	C2	6.51	8.88	4.44	28.904	
		R2-12	C1	2.18	8.88	4.44	9.679	
		R2-12	C2	6.89	8.88	4.44	30.592	
R2-12	R2-13	R2-12	C1	2.18	11.12	5.56	12.121	102.916
168.88	180.00	R2-12	C2	6.89	11.12	5.56	38.308	
		R2-13	C1	2.11	11.12	5.56	11.732	
		R2-13	C2	7.33	11.12	5.56	40.755	
R2-13	R2-14	R2-13	C1	2.11	20.00	10.00	21.100	143.000
180.00	200.00	R2-13	C2	7.33	20.00	10.00	73.300	
		R2-14	C1	1.55	20.00	10.00	15.500	
		R2-14	C2	3.31	20.00	10.00	33.100	
R2-14	R2-15	R2-14	C1	1.55	12.17	6.08	9.424	
200.00	212.17	R2-14	C2	3.31	12.17	6.08	20.125	
		R2-15	C1	1.13	12.17	6.08	6.870	
A RIPORTARE mc							36.419	975.814

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO DEI VOLUMI					Foglio n. 33	
VEGETALE IN RILEVATO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
A RIPORTARE mc							36.419	975.814
R2-15	R2-16	R2-15	C2	2.76	12.17	6.08	16.781	53.200
212.17	220.00	R2-15	C1	1.13	7.83	3.92	4.430	
		R2-15	C2	2.76	7.83	3.92	10.819	
		R2-16	C1	2.67	7.83	3.92	10.466	
R2-16	R2-17	R2-16	C1	2.67	20.00	10.00	26.700	25.715
220.00	240.00	R2-17	C1	0.37	20.00	10.00	3.700	
		R2-17	C2	1.12	20.00	10.00	11.200	
R2-17	R2-18	R2-17	C1	0.37	8.22	4.11	1.521	41.600
240.00	248.22	R2-17	C2	1.12	8.22	4.11	4.603	
		R2-18	C1	0.58	8.22	4.11	2.384	
R2-18	R2-19	R2-18	C1	0.58	14.03	7.02	4.072	8.508
								4.072
R2-19	R2-20	R2-20	C1	0.38	14.02	7.01	2.664	2.664
R2-20	R2-21	R2-20	C1	0.38	23.73	11.87	4.511	4.511
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO		1116.084	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA	<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO DI SUPERFICI				Foglio n. 34		
SEMINA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R2-4	R2-5	R2-5	a1	4.94	8.23	4.11	20.30	20.30
R2-5	R2-6	R2-5	a1	4.94	22.34	11.17	55.18	230.32
57.66	80.00	R2-6	a1	1.30	22.34	11.17	14.52	
		R2-6	a2	14.38	22.34	11.17	160.62	
R2-6	R2-7	R2-6	a1	1.30	20.00	10.00	13.00	365.30
80.00	100.00	R2-6	a2	14.38	20.00	10.00	143.80	
		R2-7	a1	3.52	20.00	10.00	35.20	
		R2-7	a2	17.33	20.00	10.00	173.30	
R2-7	R2-8	R2-7	a1	3.52	20.00	10.00	35.20	462.40
100.00	120.00	R2-7	a2	17.33	20.00	10.00	173.30	
		R2-8	a1	5.87	20.00	10.00	58.70	
		R2-8	a2	19.52	20.00	10.00	195.20	
R2-8	R2-9	R2-8	a1	5.87	5.59	2.80	16.44	145.86
120.00	125.59	R2-8	a2	19.52	5.59	2.80	54.66	
		R2-9	a1	6.47	5.59	2.80	18.12	
		R2-9	a2	20.23	5.59	2.80	56.64	
R2-9	R2-10	R2-9	a1	6.47	14.41	7.20	46.58	397.52
125.59	140.00	R2-9	a2	20.23	14.41	7.20	145.66	
		R2-10	a1	6.98	14.41	7.20	50.26	
		R2-10	a2	21.53	14.41	7.20	155.02	
R2-10	R2-11	R2-10	a1	6.98	20.00	10.00	69.80	589.60
140.00	160.00	R2-10	a2	21.53	20.00	10.00	215.30	
		R2-11	a1	7.39	20.00	10.00	73.90	
		R2-11	a2	1.30	20.00	10.00	13.00	
		R2-11	a3	21.76	20.00	10.00	217.60	
R2-11	R2-12	R2-11	a1	7.39	8.88	4.44	32.81	270.12
160.00	168.88	R2-11	a2	1.30	8.88	4.44	5.77	
		R2-11	a3	21.76	8.88	4.44	96.61	
		R2-12	a1	7.36	8.88	4.44	32.68	
		R2-12	a2	23.03	8.88	4.44	102.25	
R2-12	R2-13	R2-12	a1	7.36	11.12	5.56	40.92	350.67
168.88	180.00	R2-12	a2	23.03	11.12	5.56	128.05	
		R2-13	a1	7.12	11.12	5.56	39.59	
		R2-13	a2	25.56	11.12	5.56	142.11	
R2-13	R2-14	R2-13	a1	7.12	20.00	10.00	71.20	492.00
180.00	200.00	R2-13	a2	25.56	20.00	10.00	255.60	
		R2-14	a1	5.22	20.00	10.00	52.20	
		R2-14	a2	11.30	20.00	10.00	113.00	
R2-14	R2-15	R2-14	a1	5.22	12.17	6.08	31.74	
A RIPORTARE mq							31.74	3324.09

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO DI SUPERFICI				Foglio n. 35			
SEMINA									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq							31.74	3324.09	
200.00	212.17	R2-14	a2	11.30	12.17	6.08	68.70		
		R2-15	a1	3.80	12.17	6.08	23.10		
		R2-15	a2	9.46	12.17	6.08	57.52		181.06
R2-15	R2-16	R2-15	a1	3.80	7.83	3.92	14.90		
212.17	220.00	R2-15	a2	9.46	7.83	3.92	37.08		
		R2-16	a1	1.30	7.83	3.92	5.10		
		R2-16	a2	9.26	7.83	3.92	36.30		93.38
R2-16	R2-17	R2-16	a1	1.30	20.00	10.00	13.00		
220.00	240.00	R2-16	a2	9.26	20.00	10.00	92.60		
		R2-17	a1	1.30	20.00	10.00	13.00		
		R2-17	a2	4.12	20.00	10.00	41.20		159.80
R2-17	R2-18	R2-17	a1	1.30	8.22	4.11	5.34		
240.00	248.22	R2-17	a2	4.12	8.22	4.11	16.93		
		R2-18	a1	2.34	8.22	4.11	9.62		
R2-18	R2-19	R2-18	a1	2.34	14.03	7.02	16.43		31.89
									16.43
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			3806.65	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO DI SUPERFICI				Foglio n. 36		
SEMINA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R2-1 0.00	R2-2 20.00	R2-1 R2-2	b1 b1	31.86 32.95	20.00 20.00	10.00 10.00	318.60 329.50	648.10
R2-2 20.00	R2-3 40.00	R2-2 R2-3	b1 b1	32.95 37.56	20.00 20.00	10.00 10.00	329.50 375.60	705.10
R2-3 40.00	R2-4 49.43	R2-3 R2-4	b1 b1	37.56 2.05	9.43 9.43	4.71 4.71	176.91 9.66	186.57
R2-4	R2-5	R2-4	b1	2.05	8.23	4.11	8.43	8.43
R2-17	R2-18	R2-18	b1	1.26	8.22	4.11	5.18	5.18
R2-18 248.22	R2-19 262.25	R2-18 R2-19 R2-19	b1 b2 b1	1.26 1.62 8.76	14.03 14.03 14.03	7.02 7.02 7.02	8.85 11.37 61.50	81.72
R2-19 262.25	R2-20 276.27	R2-19 R2-19 R2-20	b2 b1 b1	1.62 8.76 9.23	14.02 14.02 14.02	7.01 7.01 7.01	11.36 61.41 64.70	137.47
R2-20 276.27	R2-21 300.00	R2-20 R2-21	b1 b1	9.23 11.07	23.73 23.73	11.87 11.87	109.56 131.40	240.96
R2-21	R2-22	R2-21	b1	11.07	20.00	10.00	110.70	110.70
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			2124.23

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO DI SUPERFICI				Foglio n. 37		
SCOTICO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R2-4	R2-5	R2-5	c1	10.95	8.23	4.11	45.00	45.00
R2-5	R2-6	R2-5	c1	10.95	22.34	11.17	122.31	358.33
57.66	80.00	R2-6	c1	21.13	22.34	11.17	236.02	
R2-6	R2-7	R2-6	c1	21.13	20.00	10.00	211.30	467.90
80.00	100.00	R2-7	c1	25.66	20.00	10.00	256.60	
R2-7	R2-8	R2-7	c1	25.66	20.00	10.00	256.60	555.30
100.00	120.00	R2-8	c1	29.87	20.00	10.00	298.70	
R2-8	R2-9	R2-8	c1	29.87	5.59	2.80	83.64	170.05
120.00	125.59	R2-9	c1	30.86	5.59	2.80	86.41	
R2-9	R2-10	R2-9	c1	30.86	14.41	7.20	222.19	455.47
125.59	140.00	R2-10	c1	32.40	14.41	7.20	233.28	
R2-10	R2-11	R2-10	c1	32.40	20.00	10.00	324.00	654.80
140.00	160.00	R2-11	c1	33.08	20.00	10.00	330.80	
R2-11	R2-12	R2-11	c1	33.08	8.88	4.44	146.88	298.24
160.00	168.88	R2-12	c1	34.09	8.88	4.44	151.36	
R2-12	R2-13	R2-12	c1	34.09	11.12	5.56	189.54	381.25
168.88	180.00	R2-13	c1	34.48	11.12	5.56	191.71	
R2-13	R2-14	R2-13	c1	34.48	20.00	10.00	344.80	558.50
180.00	200.00	R2-14	c1	21.37	20.00	10.00	213.70	
R2-14	R2-15	R2-14	c1	21.37	12.17	6.08	129.93	242.90
200.00	212.17	R2-15	c1	18.58	12.17	6.08	112.97	
R2-15	R2-16	R2-15	c1	18.58	7.83	3.92	72.83	137.04
212.17	220.00	R2-16	c1	16.38	7.83	3.92	64.21	
R2-16	R2-17	R2-16	c1	16.38	20.00	10.00	163.80	293.40
220.00	240.00	R2-17	c1	12.96	20.00	10.00	129.60	
R2-17	R2-18	R2-17	c1	12.96	8.22	4.11	53.27	58.04
240.00	248.22	R2-18	c1	1.16	8.22	4.11	4.77	
R2-18	R2-19	R2-18	c1	1.16	14.03	7.02	8.14	8.14
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			4684.36

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO DI SUPERFICI			Foglio n. 38			
BONIFICA RILEVATO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R2-4	R2-5	R2-5	f1	10.95	8.23	4.11	45.00	45.00
R2-5	R2-6	R2-5	f1	10.95	22.34	11.17	122.31	
57.66	80.00	R2-6	f1	21.13	22.34	11.17	236.02	358.33
R2-6	R2-7	R2-6	f1	21.13	20.00	10.00	211.30	
80.00	100.00	R2-7	f1	25.66	20.00	10.00	256.60	467.90
R2-7	R2-8	R2-7	f1	25.66	20.00	10.00	256.60	
100.00	120.00	R2-8	f1	29.87	20.00	10.00	298.70	555.30
R2-8	R2-9	R2-8	f1	29.87	5.59	2.80	83.64	
120.00	125.59	R2-9	f1	30.86	5.59	2.80	86.41	170.05
R2-9	R2-10	R2-9	f1	30.86	14.41	7.20	222.19	
125.59	140.00	R2-10	f1	32.40	14.41	7.20	233.28	455.47
R2-10	R2-11	R2-10	f1	32.40	20.00	10.00	324.00	
140.00	160.00	R2-11	f1	33.08	20.00	10.00	330.80	654.80
R2-11	R2-12	R2-11	f1	33.08	8.88	4.44	146.88	
160.00	168.88	R2-12	f1	34.09	8.88	4.44	151.36	298.24
R2-12	R2-13	R2-12	f1	34.09	11.12	5.56	189.54	
168.88	180.00	R2-13	f1	34.48	11.12	5.56	191.71	381.25
R2-13	R2-14	R2-13	f1	34.48	20.00	10.00	344.80	
180.00	200.00	R2-14	f1	21.37	20.00	10.00	213.70	558.50
R2-14	R2-15	R2-14	f1	21.37	12.17	6.08	129.93	
200.00	212.17	R2-15	f1	18.58	12.17	6.08	112.97	242.90
R2-15	R2-16	R2-15	f1	18.58	7.83	3.92	72.83	
212.17	220.00	R2-16	f1	16.38	7.83	3.92	64.21	137.04
R2-16	R2-17	R2-16	f1	16.38	20.00	10.00	163.80	
220.00	240.00	R2-17	f1	12.96	20.00	10.00	129.60	293.40
R2-17	R2-18	R2-17	f1	12.96	8.22	4.11	53.27	
240.00	248.22	R2-18	f1	1.16	8.22	4.11	4.77	58.04
R2-18	R2-19	R2-18	f1	1.16	14.03	7.02	8.14	8.14
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			4684.36

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

				COMPUTO DI SUPERFICI			Foglio n. 39	
USURA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R2-1 0.00	R2-2 20.00	R2-1 R2-2	gl gl	5.51 5.63	20.00 20.00	10.00 10.00	55.10 56.30	111.40
R2-2 20.00	R2-3 40.00	R2-2 R2-3	gl gl	5.63 6.14	20.00 20.00	10.00 10.00	56.30 61.40	117.70
R2-3 40.00	R2-4 49.43	R2-3 R2-4	gl gl	6.14 6.48	9.43 9.43	4.71 4.71	28.92 30.52	59.44
R2-4 49.43	R2-5 57.66	R2-4 R2-5	gl gl	6.48 6.92	8.23 8.23	4.11 4.11	26.63 28.44	55.07
R2-5 57.66	R2-6 80.00	R2-5 R2-6	gl gl	6.92 6.90	22.34 22.34	11.17 11.17	77.30 77.07	154.37
R2-6 80.00	R2-7 100.00	R2-6 R2-7	gl gl	6.90 6.90	20.00 20.00	10.00 10.00	69.00 69.00	138.00
R2-7 100.00	R2-8 120.00	R2-7 R2-8	gl gl	6.90 6.91	20.00 20.00	10.00 10.00	69.00 69.10	138.10
R2-8 120.00	R2-9 125.59	R2-8 R2-9	gl gl	6.91 6.92	5.59 5.59	2.80 2.80	19.35 19.38	38.73
R2-9 125.59	R2-10 140.00	R2-9 R2-10	gl gl	6.92 6.92	14.41 14.41	7.20 7.20	49.82 49.82	99.64
R2-10 140.00	R2-11 160.00	R2-10 R2-11	gl gl	6.92 6.92	20.00 20.00	10.00 10.00	69.20 69.20	138.40
R2-11 160.00	R2-12 168.88	R2-11 R2-12	gl gl	6.92 6.92	8.88 8.88	4.44 4.44	30.72 30.72	61.44
R2-12 168.88	R2-13 180.00	R2-12 R2-13	gl gl	6.92 6.92	11.12 11.12	5.56 5.56	38.48 38.48	76.96
R2-13 180.00	R2-14 200.00	R2-13 R2-14	gl gl	6.92 6.92	20.00 20.00	10.00 10.00	69.20 69.20	138.40
R2-14 200.00	R2-15 212.17	R2-14 R2-15	gl gl	6.92 7.04	12.17 12.17	6.08 6.08	42.07 42.80	84.87
R2-15 212.17	R2-16 220.00	R2-15 R2-16	gl gl	7.04 7.53	7.83 7.83	3.92 3.92	27.60 29.52	57.12
R2-16 220.00	R2-17 240.00	R2-16 R2-17	gl gl	7.53 8.43	20.00 20.00	10.00 10.00	75.30 84.30	159.60
R2-17 240.00	R2-18 240.00	R2-17 R2-18	gl gl	8.43 8.43	8.22 8.22	4.11 4.11	34.65 34.65	159.60
A RIPORTARE mq							34.65	1629.24

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO DI SUPERFICI				Foglio n. 40			
USURA									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq							34.65	1629.24	
240.00	248.22	R2-18	gl	8.46	8.22	4.11	34.77	69.42	
R2-18	R2-19	R2-18	gl	8.46	14.03	7.02	59.39	113.16	
248.22	262.25	R2-19	gl	7.66	14.03	7.02	53.77	102.56	
R2-19	R2-20	R2-19	gl	7.66	14.02	7.01	53.70	158.34	
262.25	276.27	R2-20	gl	6.97	14.02	7.01	48.86	123.30	
R2-20	R2-21	R2-20	gl	6.97	23.73	11.87	82.73	132.10	
276.27	300.00	R2-21	gl	6.37	23.73	11.87	75.61	16.82	
R2-21	R2-22	R2-21	gl	6.37	20.00	10.00	63.70		
300.00	320.00	R2-22	gl	5.96	20.00	10.00	59.60		
R2-22	R2-23	R2-22	gl	5.96	20.00	10.00	59.60		
320.00	340.00	R2-23	gl	7.25	20.00	10.00	72.50		
R2-23	R2-24	R2-23	gl	7.25	2.33	1.16	8.41		
340.00	342.33	R2-24	gl	7.25	2.33	1.16	8.41		
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			2344.94	

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

				COMPUTO DI SUPERFICI			Foglio n. 41	
BINDER								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R2-1 0.00	R2-2 20.00	R2-1 R2-2	h1 h1	5.51 5.63	20.00 20.00	10.00 10.00	55.10 56.30	111.40
R2-2 20.00	R2-3 40.00	R2-2 R2-3	h1 h1	5.63 6.14	20.00 20.00	10.00 10.00	56.30 61.40	117.70
R2-3 40.00	R2-4 49.43	R2-3 R2-4	h1 h1	6.14 6.48	9.43 9.43	4.71 4.71	28.92 30.52	59.44
R2-4 49.43	R2-5 57.66	R2-4 R2-5	h1 h1	6.48 6.92	8.23 8.23	4.11 4.11	26.63 28.44	55.07
R2-5 57.66	R2-6 80.00	R2-5 R2-6	h1 h1	6.92 6.90	22.34 22.34	11.17 11.17	77.30 77.07	154.37
R2-6 80.00	R2-7 100.00	R2-6 R2-7	h1 h1	6.90 6.90	20.00 20.00	10.00 10.00	69.00 69.00	138.00
R2-7 100.00	R2-8 120.00	R2-7 R2-8	h1 h1	6.90 6.91	20.00 20.00	10.00 10.00	69.00 69.10	138.10
R2-8 120.00	R2-9 125.59	R2-8 R2-9	h1 h1	6.91 6.92	5.59 5.59	2.80 2.80	19.35 19.38	38.73
R2-9 125.59	R2-10 140.00	R2-9 R2-10	h1 h1	6.92 6.92	14.41 14.41	7.20 7.20	49.82 49.82	99.64
R2-10 140.00	R2-11 160.00	R2-10 R2-11	h1 h1	6.92 6.92	20.00 20.00	10.00 10.00	69.20 69.20	138.40
R2-11 160.00	R2-12 168.88	R2-11 R2-12	h1 h1	6.92 6.92	8.88 8.88	4.44 4.44	30.72 30.72	61.44
R2-12 168.88	R2-13 180.00	R2-12 R2-13	h1 h1	6.92 6.92	11.12 11.12	5.56 5.56	38.48 38.48	76.96
R2-13 180.00	R2-14 200.00	R2-13 R2-14	h1 h1	6.92 6.92	20.00 20.00	10.00 10.00	69.20 69.20	138.40
R2-14 200.00	R2-15 212.17	R2-14 R2-15	h1 h1	6.92 7.04	12.17 12.17	6.08 6.08	42.07 42.80	84.87
R2-15 212.17	R2-16 220.00	R2-15 R2-16	h1 h1	7.04 7.53	7.83 7.83	3.92 3.92	27.60 29.52	57.12
R2-16 220.00	R2-17 240.00	R2-16 R2-17	h1 h1	7.53 8.47	20.00 20.00	10.00 10.00	75.30 84.70	160.00
R2-17 240.00	R2-18 240.00	R2-17 R2-18	h1 h1	8.47 8.47	8.22 8.22	4.11 4.11	34.81 34.81	160.00
A RIPORTARE mq							34.81	1629.64

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO DI SUPERFICI				Foglio n. 42				
BINDER										
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq		
A RIPORTARE mq							34.81	1629.64		
240.00	248.22	R2-18	h1	8.50	8.22	4.11	34.94	69.75		
R2-18	R2-19	R2-18	h1	8.50	14.03	7.02	59.67	113.44		
248.22	262.25	R2-19	h1	7.66	14.03	7.02	53.77	102.56		
R2-19	R2-20	R2-19	h1	7.66	14.02	7.01	53.70	158.34		
262.25	276.27	R2-20	h1	6.97	14.02	7.01	48.86	123.30		
R2-20	R2-21	R2-20	h1	6.97	23.73	11.87	82.73	132.10		
276.27	300.00	R2-21	h1	6.37	23.73	11.87	75.61	16.82		
R2-21	R2-22	R2-21	h1	6.37	20.00	10.00	63.70			
300.00	320.00	R2-22	h1	5.96	20.00	10.00	59.60			
R2-22	R2-23	R2-22	h1	5.96	20.00	10.00	59.60			
320.00	340.00	R2-23	h1	7.25	20.00	10.00	72.50			
R2-23	R2-24	R2-23	h1	7.25	2.33	1.16	8.41			
340.00	342.33	R2-24	h1	7.25	2.33	1.16	8.41			
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			2345.95		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO DI SUPERFICI			Foglio n. 43			
BASE								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R2-1 0.00	R2-2 20.00	R2-1 R2-2	i1 i1	5.51 5.63	20.00 20.00	10.00 10.00	55.10 56.30	111.40
R2-2 20.00	R2-3 40.00	R2-2 R2-3	i1 i1	5.63 6.14	20.00 20.00	10.00 10.00	56.30 61.40	
R2-3 40.00	R2-4 49.43	R2-3 R2-4	i1 i1	6.14 6.48	9.43 9.43	4.71 4.71	28.92 30.52	59.44
R2-4 49.43	R2-5 57.66	R2-4 R2-5	i1 i1	6.48 7.38	8.23 8.23	4.11 4.11	26.63 30.33	56.96
R2-5 57.66	R2-6 80.00	R2-5 R2-6	i1 i1	7.38 7.41	22.34 22.34	11.17 11.17	82.43 82.77	165.20
R2-6 80.00	R2-7 100.00	R2-6 R2-7	i1 i1	7.41 7.40	20.00 20.00	10.00 10.00	74.10 74.00	148.10
R2-7 100.00	R2-8 120.00	R2-7 R2-8	i1 i1	7.40 7.42	20.00 20.00	10.00 10.00	74.00 74.20	148.20
R2-8 120.00	R2-9 125.59	R2-8 R2-9	i1 i1	7.42 7.42	5.59 5.59	2.80 2.80	20.78 20.78	41.56
R2-9 125.59	R2-10 140.00	R2-9 R2-10	i1 i1	7.42 7.42	14.41 14.41	7.20 7.20	53.42 53.42	106.84
R2-10 140.00	R2-11 160.00	R2-10 R2-11	i1 i1	7.42 7.42	20.00 20.00	10.00 10.00	74.20 74.20	148.40
R2-11 160.00	R2-12 168.88	R2-11 R2-12	i1 i1	7.42 7.42	8.88 8.88	4.44 4.44	32.94 32.94	65.88
R2-12 168.88	R2-13 180.00	R2-12 R2-13	i1 i1	7.42 7.42	11.12 11.12	5.56 5.56	41.26 41.26	82.52
R2-13 180.00	R2-14 200.00	R2-13 R2-14	i1 i1	7.42 7.42	20.00 20.00	10.00 10.00	74.20 74.20	148.40
R2-14 200.00	R2-15 212.17	R2-14 R2-15	i1 i1	7.42 7.54	12.17 12.17	6.08 6.08	45.11 45.84	90.95
R2-15 212.17	R2-16 220.00	R2-15 R2-16	i1 i1	7.54 8.03	7.83 7.83	3.92 3.92	29.56 31.48	61.04
R2-16 220.00	R2-17 240.00	R2-16 R2-17	i1 i1	8.03 8.88	20.00 20.00	10.00 10.00	80.30 88.80	169.10
R2-17 240.00	R2-18 260.00	R2-17 R2-18	i1 i1	8.88 8.88	8.22 8.22	4.11 4.11	36.50 36.50	73.00
A RIPORTARE mq							36.50	1721.69

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO DI SUPERFICI				Foglio n. 44			
BASE									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
A RIPORTARE mq							36.50	1721.69	
240.00	248.22	R2-18	i1	8.64	8.22	4.11	35.51		
R2-18	R2-19	R2-18	i1	8.64	14.03	7.02	60.65	72.01	
248.22	262.25	R2-19	i1	7.66	14.03	7.02	53.77	114.42	
R2-19	R2-20	R2-19	i1	7.66	14.02	7.01	53.70	104.31	
262.25	276.27	R2-20	i1	7.22	14.02	7.01	50.61	161.31	
R2-20	R2-21	R2-20	i1	7.22	23.73	11.87	85.70	161.31	
276.27	300.00	R2-21	i1	6.37	23.73	11.87	75.61	123.30	
R2-21	R2-22	R2-21	i1	6.37	20.00	10.00	63.70	132.10	
300.00	320.00	R2-22	i1	5.96	20.00	10.00	59.60	132.10	
R2-22	R2-23	R2-22	i1	5.96	20.00	10.00	59.60	16.82	
320.00	340.00	R2-23	i1	7.25	20.00	10.00	72.50		
R2-23	R2-24	R2-23	i1	7.25	2.33	1.16	8.41		
340.00	342.33	R2-24	i1	7.25	2.33	1.16	8.41		
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			2445.96	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO DI SUPERFICI			Foglio n. 45			
FONDAZIONE								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R2-1 0.00	R2-2 20.00	R2-1 R2-2	m1 m1	5.51 5.63	20.00 20.00	10.00 10.00	55.10 56.30	111.40
R2-2 20.00	R2-3 40.00	R2-2 R2-3	m1 m1	5.63 6.14	20.00 20.00	10.00 10.00	56.30 61.40	117.70
R2-3 40.00	R2-4 49.43	R2-3 R2-4	m1 m1	6.14 6.48	9.43 9.43	4.71 4.71	28.92 30.52	59.44
R2-4 49.43	R2-5 57.66	R2-4 R2-5 R2-5	m1 m1 m2	6.48 6.92 7.84	8.23 8.23 8.23	4.11 4.11 4.11	26.63 28.44 32.22	87.29
R2-5 57.66	R2-6 80.00	R2-5 R2-5 R2-6	m1 m2 m1	6.92 7.84 8.32	22.34 22.34 22.34	11.17 11.17 11.17	77.30 87.57 92.93	257.80
R2-6 80.00	R2-7 100.00	R2-6 R2-7	m1 m1	8.32 8.30	20.00 20.00	10.00 10.00	83.20 83.00	166.20
R2-7 100.00	R2-8 120.00	R2-7 R2-8	m1 m1	8.30 8.32	20.00 20.00	10.00 10.00	83.00 83.20	166.20
R2-8 120.00	R2-9 125.59	R2-8 R2-9	m1 m1	8.32 8.32	5.59 5.59	2.80 2.80	23.30 23.30	46.60
R2-9 125.59	R2-10 140.00	R2-9 R2-10	m1 m1	8.32 8.32	14.41 14.41	7.20 7.20	59.90 59.90	119.80
R2-10 140.00	R2-11 160.00	R2-10 R2-11	m1 m1	8.32 8.32	20.00 20.00	10.00 10.00	83.20 83.20	166.40
R2-11 160.00	R2-12 168.88	R2-11 R2-12	m1 m1	8.32 8.32	8.88 8.88	4.44 4.44	36.94 36.94	73.88
R2-12 168.88	R2-13 180.00	R2-12 R2-13	m1 m1	8.32 8.32	11.12 11.12	5.56 5.56	46.26 46.26	92.52
R2-13 180.00	R2-14 200.00	R2-13 R2-14	m1 m1	8.32 8.32	20.00 20.00	10.00 10.00	83.20 83.20	166.40
R2-14 200.00	R2-15 212.17	R2-14 R2-15	m1 m1	8.32 8.44	12.17 12.17	6.08 6.08	50.59 51.32	101.91
R2-15 212.17	R2-16 220.00	R2-15 R2-16	m1 m1	8.44 8.94	7.83 7.83	3.92 3.92	33.08 35.04	68.12
R2-16 220.00	R2-17 240.00	R2-16 R2-17	m1 m1	8.94 9.78	20.00 20.00	10.00 10.00	89.40 97.80	
A RIPORTARE mq							187.20	1988.86

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO DI SUPERFICI				Foglio n. 46		
FONDAZIONE								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
A RIPORTARE mq							187.20	1988.86
R2-17 240.00	R2-18 248.22	R2-17 R2-18	m1 m1	9.78 9.06	8.22 8.22	4.11 4.11	40.20 37.24	187.20
R2-18 248.22	R2-19 262.25	R2-18 R2-19	m1 m1	9.06 7.66	14.03 14.03	7.02 7.02	63.60 53.77	77.44
R2-19 262.25	R2-20 276.27	R2-19 R2-20	m1 m1	7.66 7.67	14.02 14.02	7.01 7.01	53.70 53.77	117.37
R2-20 276.27	R2-21 300.00	R2-20 R2-21 R2-21	m1 m1 m2	7.67 0.78 5.59	23.73 23.73 23.73	11.87 11.87 11.87	91.04 9.26 66.35	107.47
R2-21 300.00	R2-22 320.00	R2-21 R2-21 R2-22	m1 m2 m1	0.78 5.59 5.96	20.00 20.00 20.00	10.00 10.00 10.00	7.80 55.90 59.60	166.65
R2-22 320.00	R2-23 340.00	R2-22 R2-23	m1 m1	5.96 7.25	20.00 20.00	10.00 10.00	59.60 72.50	123.30
R2-23 340.00	R2-24 342.33	R2-23 R2-24	m1 m1	7.25 7.25	2.33 2.33	1.16 1.16	8.41 8.41	132.10
								16.82
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			2730.01

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO DI SUPERFICI				Foglio n. 47		
BONIFICA TRINCEA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R2-1 0.00	R2-2 20.00	R2-1 R2-2	o1 o1	5.51 5.63	20.00 20.00	10.00 10.00	55.10 56.30	111.40
R2-2 20.00	R2-3 40.00	R2-2 R2-3	o1 o1	5.63 6.14	20.00 20.00	10.00 10.00	56.30 61.40	117.70
R2-3 40.00	R2-4 49.43	R2-3 R2-4	o1 o1	6.14 6.48	9.43 9.43	4.71 4.71	28.92 30.52	59.44
R2-4	R2-5	R2-4	o1	6.48	8.23	4.11	26.63	26.63
R2-17	R2-18	R2-18	o1	9.06	8.22	4.11	37.24	37.24
R2-18 248.22	R2-19 262.25	R2-18 R2-19	o1 o1	9.06 7.66	14.03 14.03	7.02 7.02	63.60 53.77	117.37
R2-19 262.25	R2-20 276.27	R2-19 R2-20	o1 o1	7.66 7.67	14.02 14.02	7.01 7.01	53.70 53.77	107.47
R2-20 276.27	R2-21 300.00	R2-20 R2-21	o1 o1	7.67 6.37	23.73 23.73	11.87 11.87	91.04 75.61	166.65
R2-21	R2-22	R2-21	o1	6.37	20.00	10.00	63.70	63.70
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			807.60

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

		COMPUTO DEI VOLUMI	Foglio n. 48
Volume dalla sezione R2-1 alla sezione R2-24			
ARTICOLO			VOLUME
STERRO	mc	10580.684	
RIPORTO	mc	24901.178	
VEGETALE IN RILEVATO	mc	1116.084	
SEMINA	mq	3806.65	
SEMINA	mq	2124.23	
SCOTICO	mq	4684.36	
BONIFICA RILEVATO	mq	4684.36	
USURA	mq	2344.94	
BINDER	mq	2345.95	
BASE	mq	2445.96	
FONDAZIONE	mq	2730.01	
BONIFICA TRINCEA	mq	807.60	
<p>Nota : I valori di sterro e riporto calcolati si riferiscono ad un pacchetto di pavimentazione da 70 cm. Di seguito si riporta la tabella con il calcolo dei movimenti materia riferiti al pacchetto di pavimentazione di spessore 57 cm.</p>			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Modifica valori movimenti materia

Di seguito si riporta il calcolo per la determinazione dei valori di sterro e riporto riferiti al pacchetto di pavimentazione da 57 cm.

RIF.	ARTICOLO	SUPERFICIE (m ²)	Δh Pavimentazione (m)	VOLUME (m ³)	NOTE
A	STERRO (Da computazione sezioni trasversali con spessore cassonetto = 70 cm)	-	-	10580,684	
B	RIPORTO (Da computazione sezioni trasversali con spessore cassonetto = 70 cm)	-	-	24901,178	
C	SUPERFICIE DI IMPOSTA CASSONETTO (Da computo computo sezioni trasversali)	2730,01	-	-	(1)
D	SUPERFICIE DI IMPOSTA CASSONETTO IN TRINCEA (Da computo computo sezioni trasversali)	807,6	-	-	(2)
E	SUPERFICIE DI IMPOSTA CASSONETTO IN RILEVATO	1922,41	-	-	(3)
F	VARIAZIONE STERRO (Per pavimentazione spessore = 57 cm)	807,6	0,13	104,99	(4)
G	VARIAZIONE RIPORTO (Per pavimentazione spessore = 57 cm)	1922,41	0,13	249,91	(5)
H	STERRO (Pavimentazione spessore = 57 cm)	-	-	10475,696	(6)
I	RIPORTO (Pavimentazione spessore = 57 cm)	-	-	25151,091	(7)

Nota 1 : Il valore (C) è coincidente con la superficie dell'articolo di computo "Fondazione" (vedi tabella riassuntiva pagina precedente)

Nota 2 : Il valore (D) è coincidente con la superficie dell'articolo di computo "Bonifica trincea" (vedi tabella riassuntiva pagina precedente)

Nota 3 : Il valore (E) è determinato dalla differenza fra la superfici C - D

Nota 4 : Il valore (F) è il volume calcolato dal prodotto tra la superficie "D" e la variazione di spessore tra il pacchetto di pavimentazione da 70 cm e 57 cm

Nota 5 : Il valore (G) è il volume calcolato dal prodotto tra la superficie "E" e la variazione di spessore tra il pacchetto di pavimentazione da 70 cm e 57 cm

Nota 6 : Il valore (H) è il volume totale di sterro calcolato come A-H

Nota 7 : Il valore (I) è il volume totale di riporto calcolato come B+G



		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

TABELLA RIEPILOGATIVA COMPUTI

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 2

COMPUTO DEI VOLUMI		Foglio n. 48	
Volume dalla sezione R2-1 alla sezione R2-24			
ARTICOLO	VOLUME		
STERRO	mc	10475.696	
RIFORTO	mc	25151.091	
VEGETALE IN RILEVATO	mc	1116.084	
SEMINA	mq	3806.65	
SEMINA	mq	2124.23	
SCOTICO	mq	4684.36	
BONIFICA RILEVATO	mq	4684.36	
USURA	mq	2344.94	
BINDER	mq	2345.95	
BASE	mq	2445.96	
FONDAZIONE	mq	2730.01	
BONIFICA TRINCEA	mq	807.60	

		<p align="center">Ponte sullo Stretto di Messina PROGETTO DEFINITIVO</p>		
<p align="center">TABULATI MOVIMENTI MATERIA</p>		<p><i>Codice documento</i> SS0760_F0.doc</p>	<p><i>Rev</i> F0</p>	<p><i>Data</i> 20/06/2011</p>

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

MOVIMENTI MATERIA SVINCOLO ANNUNZIATA
RAMPA 3

		<p align="center">Ponte sullo Stretto di Messina PROGETTO DEFINITIVO</p>		
<p align="center">TABULATI MOVIMENTI MATERIA</p>	<p><i>Codice documento</i> SS0760_F0.doc</p>	<p><i>Rev</i> F0</p>	<p><i>Data</i> 20/06/2011</p>	

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE AREE				Foglio n. 1
STERRI E RIPORTI						
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE	
R3-1 0.00	R1	(1.26-0.00)x(170.15+170.10)/2 (2.08-1.26)x(170.16+170.15)/2 (2.98-2.08)x(170.32+170.16)/2 (4.32-2.98)x(170.36+170.32)/2 (4.35-4.32)x(170.32+170.36)/2 (4.60-4.35)x(170.36+170.32)/2 (5.66-4.60)x(170.50+170.36)/2 (6.30-5.66)x(170.68+170.50)/2 (8.09-6.30)x(170.88+170.68)/2 (8.44-8.09)x(170.90+170.88)/2 (9.18-8.44)x(171.00+170.90)/2 (10.40-9.18)x(171.00+171.00)/2 (10.63-10.40)x(171.04+171.00)/2 (6.69-10.63)x(173.30+171.04)/2 (5.68-6.69)x(173.30+173.30)/2 (6.13-5.68)x(172.84+173.30)/2 (5.28-6.13)x(172.78+172.84)/2 (0.00-5.28)x(172.41+172.78)/2	214.36 139.53 153.22 228.26 5.11 42.59 180.66 109.18 305.70 59.81 126.50 208.62 39.33 -678.35 -175.03 77.88 -146.89 -911.30			
R3-2 20.00	S1	(1.05-0.00)x(173.59+173.38)/2 (3.07-1.05)x(174.00+173.59)/2 (4.13-3.07)x(174.12+174.00)/2 (7.05-4.13)x(174.40+174.12)/2 (9.13-7.05)x(174.60+174.40)/2 (10.55-9.13)x(174.73+174.60)/2 (12.83-10.55)x(174.96+174.73)/2 (7.84-12.83)x(172.11+174.96)/2 (6.52-7.84)x(172.11+172.11)/2 (5.50-6.52)x(171.96+171.96)/2 (-0.00-5.50)x(171.27+171.66)/2	182.16 351.07 184.50 508.84 362.96 248.02 398.65 -865.94 -227.19 -175.40 -943.06	20.82		
R3-3 26.12	S1	(0.99-0.00)x(173.58+173.37)/2 (2.80-0.99)x(174.00+173.58)/2 (4.35-2.80)x(174.22+174.00)/2 (9.99-4.35)x(174.95+174.22)/2 (10.30-9.99)x(174.99+174.95)/2 (10.40-10.30)x(175.00+174.99)/2 (14.11-10.40)x(175.32+175.00)/2 (7.84-14.11)x(171.74+175.32)/2 (6.52-7.84)x(171.74+171.74)/2 (5.50-6.52)x(171.59+171.59)/2 (-0.00-5.50)x(170.91+171.29)/2	171.74 314.56 269.87 984.66 54.24 17.50 649.84 -1088.03 -226.70 -175.02 -941.05	24.61		
R3-4 40.00	S1	(7.84-10.32)x(170.96+172.37)/2 (6.53-7.84)x(170.96+170.96)/2 (5.50-6.53)x(170.81+170.81)/2 (0.00-5.50)x(170.12+170.51)/2 (0.50-0.00)x(172.61+172.53)/2 (2.97-0.50)x(173.00+172.61)/2 (3.81-2.97)x(173.23+173.00)/2 (6.54-3.81)x(174.00+173.23)/2	-425.73 -223.96 -175.93 -936.73 86.28 426.83 145.42 473.97	31.61		
A RIPORTARE mq			-629.85			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE AREE	Foglio n. 2		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			-629.85		
R3-4 40.00	S2	$(7.02-6.54) \times (174.09+174.00) / 2$ $(7.38-7.02) \times (174.14+174.09) / 2$ $(9.66-7.38) \times (174.53+174.14) / 2$ $(10.32-9.66) \times (174.64+174.53) / 2$ $(10.32-10.66) \times (172.37+172.57) / 2$ $(10.66-10.32) \times (174.70+174.64) / 2$	83.54 62.68 397.48 115.23 -58.64 59.39	29.08 0.75	
R3-4 40.00	S3	$(11.71-10.66) \times (174.88+174.70) / 2$ $(12.44-11.71) \times (175.00+174.88) / 2$ $(12.87-12.44) \times (175.05+175.00) / 2$ $(15.44-12.87) \times (175.30+175.05) / 2$ $(10.66-15.44) \times (172.57+175.30) / 2$	183.53 127.71 75.26 450.20 -831.41	5.29	
R3-5 52.25	S1	$(-2.70--3.67) \times (171.78+171.54) / 2$ $(-1.33--2.70) \times (172.03+171.78) / 2$ $(-1.14--1.33) \times (172.00+172.03) / 2$ $(-1.07--1.14) \times (172.02+172.00) / 2$ $(1.13--1.07) \times (172.85+172.02) / 2$ $(1.82-1.13) \times (173.00+172.85) / 2$ $(2.12-1.82) \times (173.27+173.00) / 2$ $(3.08-2.12) \times (174.00+173.27) / 2$ $(3.61-3.08) \times (174.19+174.00) / 2$ $(4.78-3.61) \times (174.61+174.19) / 2$ $(5.50-4.78) \times (174.89+174.61) / 2$ $(5.87-5.50) \times (175.00+174.89) / 2$ $(6.78-5.87) \times (175.63+175.00) / 2$ $(7.30-6.78) \times (176.00+175.63) / 2$ $(7.58-7.30) \times (176.06+176.00) / 2$ $(7.82-7.58) \times (176.10+176.06) / 2$ $(10.32-7.82) \times (176.51+176.10) / 2$ $(7.03-10.32) \times (170.58+176.51) / 2$ $(6.52-7.03) \times (170.58+170.58) / 2$ $(5.50-6.52) \times (170.13+170.13) / 2$ $(-2.78-5.50) \times (169.25+169.83) / 2$ $(-2.28--2.78) \times (169.80+169.25) / 2$ $(-3.29--2.28) \times (169.80+169.80) / 2$ $(-3.67--3.29) \times (169.93+169.80) / 2$	166.51 235.51 32.68 12.04 379.36 119.32 51.94 166.69 92.27 204.05 125.82 64.73 159.54 91.42 49.29 42.26 440.76 -570.96 -87.00 -173.53 -1403.79 84.76 -171.50 -64.55	47.62	
R3-5 52.25	R1	$(10.34-10.32) \times (176.51+176.51) / 2$ $(10.66-10.34) \times (176.58+176.51) / 2$ $(10.36-10.66) \times (176.58+176.58) / 2$ $(10.32-10.36) \times (176.51+176.58) / 2$	3.53 56.49 -52.97 -7.06	0.01	
R3-5 52.25	S2	$(12.57-10.66) \times (176.96+176.58) / 2$ $(12.36-12.57) \times (176.58+176.96) / 2$ $(10.66-12.36) \times (176.58+176.58) / 2$	337.63 -37.12 -300.19	0.32	
R3-6	S1	$(7.02-10.32) \times (170.06+175.99) / 2$	-570.98		
A RIPORTARE mq			-570.98		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		Codice documento SS0760_F0.doc	Rev F0	Data 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE AREE		Foglio n. 3	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			-570.98		
60.00		$(6.52-7.02) \times (170.06+170.06) / 2$ $(5.50-6.52) \times (169.61+169.61) / 2$ $(-2.24-5.50) \times (168.89+169.31) / 2$ $(-1.74--2.24) \times (169.43+168.89) / 2$ $(-2.75--1.74) \times (169.43+169.43) / 2$ $(-3.25--2.75) \times (169.14+169.43) / 2$ $(-4.28--3.25) \times (169.14+169.14) / 2$ $(-3.76--4.28) \times (172.00+171.69) / 2$ $(-3.18--3.76) \times (172.46+172.00) / 2$ $(-2.46--3.18) \times (173.00+172.46) / 2$ $(-2.10--2.46) \times (173.41+173.00) / 2$ $(-1.34--2.10) \times (174.00+173.41) / 2$ $(-0.51--1.34) \times (174.72+174.00) / 2$ $(-0.22--0.51) \times (175.00+174.72) / 2$ $(0.04--0.22) \times (175.26+175.00) / 2$ $(0.99-0.04) \times (176.00+175.26) / 2$ $(2.81-0.99) \times (176.46+176.00) / 2$ $(5.01-2.81) \times (177.00+176.46) / 2$ $(5.64-5.01) \times (177.43+177.00) / 2$ $(6.69-5.64) \times (178.00+177.43) / 2$ $(7.31-6.69) \times (178.55+178.00) / 2$ $(7.90-7.31) \times (179.00+178.55) / 2$ $(8.33-7.90) \times (179.37+179.00) / 2$ $(8.96-8.33) \times (180.01+179.37) / 2$ $(9.58-8.96) \times (180.21+180.01) / 2$ $(10.20-9.58) \times (181.00+180.21) / 2$ $(10.32-10.20) \times (181.05+181.00) / 2$	-85.03 -173.00 -1308.83 84.58 -171.12 -84.64 -174.21 89.36 99.89 124.37 62.35 132.02 144.72 50.71 45.53 166.85 320.74 388.81 111.65 186.60 110.53 105.48 77.05 113.20 111.67 111.98 21.72	92.00	
R3-6 60.00	S2	$(10.36-10.66) \times (176.06+176.06) / 2$ $(10.32-10.36) \times (175.99+176.06) / 2$ $(10.66-10.32) \times (181.21+181.05) / 2$	-52.82 -7.04 61.58	1.72	
R3-6 60.00	S3	$(11.54-10.66) \times (181.59+181.21) / 2$ $(12.42-11.54) \times (182.00+181.59) / 2$ $(13.56-12.42) \times (182.36+182.00) / 2$ $(14.43-13.56) \times (182.61+182.36) / 2$ $(14.90-14.43) \times (182.73+182.61) / 2$ $(15.21-14.90) \times (182.79+182.73) / 2$ $(15.98-15.21) \times (183.00+182.79) / 2$ $(16.99-15.98) \times (183.27+183.00) / 2$ $(17.56-16.99) \times (183.47+183.27) / 2$ $(18.68-17.56) \times (183.83+183.47) / 2$ $(17.69-18.68) \times (182.06+183.83) / 2$ $(15.69-17.69) \times (182.06+182.06) / 2$ $(12.36-15.69) \times (176.06+182.06) / 2$ $(10.66-12.36) \times (176.06+176.06) / 2$	159.63 159.98 207.69 158.76 85.85 56.66 140.83 184.97 104.52 205.69 -181.12 -364.12 -596.27 -299.30	23.77	
R3-7 80.00	S1	$(-3.71--8.54) \times (174.85+174.04) / 2$ $(-2.90--3.71) \times (175.00+174.85) / 2$	842.57 141.69		
A RIPORTARE mq			984.26		

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE AREE	Foglio n. 4		
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			984.26		
		(-2.78--2.90) x (175.07+175.00) / 2	21.00		
		(-1.23--2.78) x (175.99+175.07) / 2	272.07		
		(-1.21--1.23) x (176.00+175.99) / 2	3.52		
		(1.02--1.21) x (177.00+176.00) / 2	393.59		
		(1.64--1.02) x (177.74+177.00) / 2	109.97		
		(2.08--1.64) x (176.84+177.74) / 2	78.01		
		(2.53--2.08) x (177.02+176.84) / 2	79.62		
		(3.98--2.53) x (178.04+177.02) / 2	257.42		
		(4.48--3.98) x (178.17+178.04) / 2	89.05		
		(5.34--4.48) x (178.36+178.17) / 2	153.31		
		(5.88--5.34) x (178.12+178.36) / 2	96.25		
		(6.19--5.88) x (178.32+178.12) / 2	55.25		
		(6.48--6.19) x (178.31+178.32) / 2	51.71		
		(7.82--6.48) x (178.27+178.31) / 2	238.91		
		(9.26--7.82) x (178.26+178.27) / 2	256.70		
		(9.78--9.26) x (178.46+178.26) / 2	92.75		
		(11.37--9.78) x (178.47+178.46) / 2	283.76		
		(11.73--11.37) x (178.61+178.47) / 2	64.27		
		(13.36--11.73) x (178.63+178.61) / 2	291.15		
		(13.63--13.36) x (178.75+178.63) / 2	48.25		
		(16.10--13.63) x (178.54+178.75) / 2	441.25		
		(18.07--16.10) x (178.58+178.54) / 2	351.76		
		(18.65--18.07) x (178.63+178.58) / 2	103.59		
		(20.33--18.65) x (178.66+178.63) / 2	300.12		
		(21.08--20.33) x (178.73+178.66) / 2	134.02		
		(22.52--21.08) x (178.76+178.73) / 2	257.39		
		(23.64--22.52) x (178.88+178.76) / 2	200.28		
		(24.74--23.64) x (178.91+178.88) / 2	196.78		
		(26.30--24.74) x (179.12+178.91) / 2	279.26		
		(26.87--26.30) x (179.14+179.12) / 2	102.10		
		(28.42--26.87) x (179.23+179.14) / 2	277.74		
		(19.59--28.42) x (174.18+179.23) / 2	-1560.31		
		(18.59--19.59) x (173.61+174.18) / 2	-173.90		
		(16.59--18.59) x (173.61+173.61) / 2	-347.22		
		(7.84--16.59) x (168.61+173.61) / 2	-1497.21		
		(6.52--7.84) x (168.61+168.61) / 2	-222.57		
		(5.50--6.52) x (168.46+168.46) / 2	-171.83		
		(-1.90--5.50) x (168.09+168.16) / 2	-1244.13		
		(-1.40--1.90) x (168.59+168.09) / 2	84.17		
		(-2.41--1.40) x (168.59+168.59) / 2	-170.28		
		(-3.47--2.41) x (167.98+168.59) / 2	-178.38		
		(-8.54--3.47) x (167.98+167.98) / 2	-851.66		
R3-8 85.26	S1	(-9.98--10.59) x (173.90+173.78) / 2	106.04	231.79	
		(-9.50--9.98) x (174.00+173.90) / 2	83.50		
		(-8.35--9.50) x (174.11+174.00) / 2	200.16		
		(-5.63--8.35) x (174.34+174.11) / 2	473.89		
		(-4.86--5.63) x (174.39+174.34) / 2	134.26		
		(-3.50--4.86) x (174.59+174.39) / 2	237.31		
A RIPORTARE mq			1235.16		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE AREE		Foglio n. 5	
STERRI E RIPORTI					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			1235.16		
R3-10 118.27	R1	$(-2.70--3.50) \times (175.00+174.59) / 2$	139.84		
		$(-2.46--2.70) \times (175.00+175.00) / 2$	42.00		
		$(-2.44--2.46) \times (175.07+175.00) / 2$	3.50		
		$(1.19--2.44) \times (175.86+175.07) / 2$	636.94		
		$(1.65--1.19) \times (176.00+175.86) / 2$	80.93		
		$(2.12--1.65) \times (176.18+176.00) / 2$	82.76		
		$(4.19--2.12) \times (176.47+176.18) / 2$	364.99		
		$(8.90--4.19) \times (176.81+176.47) / 2$	831.97		
		$(9.82--8.90) \times (176.99+176.81) / 2$	162.75		
		$(11.77--9.82) \times (177.11+176.99) / 2$	345.25		
		$(12.01--11.77) \times (177.15+177.11) / 2$	42.51		
		$(13.54--12.01) \times (177.23+177.15) / 2$	271.10		
		$(14.25--13.54) \times (177.28+177.23) / 2$	125.85		
		$(14.37--14.25) \times (177.29+177.28) / 2$	21.27		
		$(16.22--14.37) \times (177.41+177.29) / 2$	328.10		
		$(16.64--16.22) \times (177.44+177.41) / 2$	74.52		
		$(17.90--16.64) \times (177.67+177.44) / 2$	223.72		
		$(18.92--17.90) \times (177.71+177.67) / 2$	181.24		
		$(19.79--18.92) \times (177.85+177.71) / 2$	154.67		
		$(21.21--19.79) \times (177.90+177.85) / 2$	252.58		
		$(21.83--21.21) \times (177.96+177.90) / 2$	110.32		
		$(23.54--21.83) \times (178.02+177.96) / 2$	304.36		
		$(23.99--23.54) \times (178.04+178.02) / 2$	80.11		
		$(25.95--23.99) \times (178.13+178.04) / 2$	349.05		
		$(26.14--25.95) \times (178.14+178.13) / 2$	33.85		
		$(27.00--26.14) \times (178.17+178.14) / 2$	153.21		
		$(18.59--27.00) \times (173.37+178.17) / 2$	-1478.23		
		$(16.59--18.59) \times (173.37+173.37) / 2$	-346.74		
		$(7.84--16.59) \times (168.37+173.37) / 2$	-1495.11		
		$(6.52--7.84) \times (168.37+168.37) / 2$	-222.25		
		$(5.50--6.52) \times (168.22+168.22) / 2$	-171.58		
		$(-1.90--5.50) \times (167.92+167.92) / 2$	-1242.61		
		$(-1.40--1.90) \times (168.42+167.92) / 2$	84.08		
$(-2.41--1.40) \times (168.42+168.42) / 2$	-170.10				
$(-3.73--2.41) \times (167.67+168.42) / 2$	-221.82				
$(-10.59--3.73) \times (167.67+167.67) / 2$	-1150.22				
				217.97	
		$(-10.07--14.49) \times (163.00+162.53) / 2$	719.42		
		$(-9.15--10.07) \times (163.00+163.00) / 2$	149.96		
		$(-7.71--9.15) \times (163.00+163.00) / 2$	234.72		
		$(-6.84--7.71) \times (163.00+163.00) / 2$	141.81		
		$(-5.97--6.84) \times (163.00+163.00) / 2$	141.81		
		$(-5.61--5.97) \times (163.00+163.00) / 2$	58.68		
		$(-4.58--5.61) \times (163.25+163.00) / 2$	168.02		
		$(-0.18--4.58) \times (163.79+163.25) / 2$	719.49		
		$(0.72--0.18) \times (163.93+163.79) / 2$	147.47		
		$(1.41--0.72) \times (164.00+163.93) / 2$	113.14		
		$(3.58--1.41) \times (164.70+164.00) / 2$	356.64		
		$(4.60--3.58) \times (165.00+164.70) / 2$	168.15		
A RIPORTARE mq			3119.31		

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE AREE	Foglio n. 6				
STERRI E RIPORTI							
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE		
RIPORTIO mq			3119.31				
R3-11 120.00	RI	$(5.26-4.60) \times (165.08+165.00) / 2$	108.93				
		$(5.44-5.26) \times (165.09+165.08) / 2$	29.72				
		$(7.41-5.44) \times (165.30+165.09) / 2$	325.43				
		$(8.24-7.41) \times (165.36+165.30) / 2$	137.22				
		$(9.50-8.24) \times (165.46+165.36) / 2$	208.42				
		$(10.96-9.50) \times (165.60+165.46) / 2$	241.67				
		$(11.31-10.96) \times (165.64+165.60) / 2$	57.97				
		$(8.10-11.31) \times (167.48+165.64) / 2$	-534.66				
		$(7.09-8.10) \times (167.48+167.48) / 2$	-169.15				
		$(7.64-7.09) \times (166.92+167.48) / 2$	91.96				
		$(6.69-7.64) \times (166.99+166.92) / 2$	-158.61				
		$(-1.00-6.69) \times (167.53+166.99) / 2$	-1286.23				
		$(-1.85--1.00) \times (167.59+167.53) / 2$	-142.43				
		$(-1.40--1.85) \times (168.04+167.59) / 2$	75.52				
		$(-2.41--1.40) \times (168.04+168.04) / 2$	-169.72				
		$(-3.69--2.41) \times (167.31+168.04) / 2$	-214.62				
		$(-14.49--3.69) \times (167.31+167.31) / 2$	-1806.95				
					86.22		
		R3-12 135.85	RI	$(-9.82--13.20) \times (163.00+162.64) / 2$	550.33		
				$(-8.52--9.82) \times (163.00+163.00) / 2$	211.90		
				$(-7.66--8.52) \times (163.00+163.00) / 2$	140.18		
				$(-6.25--7.66) \times (163.00+163.00) / 2$	229.83		
				$(-5.72--6.25) \times (163.00+163.00) / 2$	86.39		
$(-3.50--5.72) \times (163.34+163.00) / 2$	362.24						
$(2.95--3.50) \times (164.00+163.34) / 2$	1055.67						
$(3.64-2.95) \times (164.23+164.00) / 2$	113.24						
$(4.23-3.64) \times (164.41+164.23) / 2$	96.95						
$(6.02-4.23) \times (165.00+164.41) / 2$	294.82						
$(6.60-6.02) \times (165.07+165.00) / 2$	95.72						
$(6.79-6.60) \times (165.08+165.07) / 2$	31.36						
$(7.08-6.79) \times (165.11+165.08) / 2$	47.88						
$(9.59-7.08) \times (165.35+165.11) / 2$	414.73						
$(11.03-9.59) \times (165.51+165.35) / 2$	238.22						
$(11.56-11.03) \times (165.56+165.51) / 2$	87.73						
$(8.21-11.56) \times (167.47+165.56) / 2$	-557.83						
$(7.20-8.21) \times (167.47+167.47) / 2$	-169.14						
$(7.76-7.20) \times (166.92+167.47) / 2$	93.63						
$(6.80-7.76) \times (166.99+166.92) / 2$	-160.28						
$(-1.00-6.80) \times (167.53+166.99) / 2$	-1304.63						
$(-1.85--1.00) \times (167.59+167.53) / 2$	-142.43						
$(-1.40--1.85) \times (168.05+167.59) / 2$	75.52						
$(-2.41--1.40) \times (168.05+168.05) / 2$	-169.73						
$(-3.53--2.41) \times (167.41+168.05) / 2$	-187.86						
$(-13.20--3.53) \times (167.41+167.41) / 2$	-1618.85						
			84.41				
A RIPORTARE mq			533.11				

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE AREE	Foglio n. 7						
STERRI E RIPORTI									
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE				
RIPORTIO mq			533.11						
R3-13 140.00	R1	$(-0.01--1.76) \times (164.25+164.12) / 2$	287.32	47.13					
		$(0.52--0.01) \times (164.26+164.25) / 2$	87.06						
		$(2.07-0.52) \times (164.32+164.26) / 2$	254.65						
		$(2.81-2.07) \times (164.38+164.32) / 2$	121.62						
		$(3.92-2.81) \times (164.49+164.38) / 2$	182.52						
		$(6.17-3.92) \times (164.79+164.49) / 2$	370.44						
		$(6.77-6.17) \times (164.87+164.79) / 2$	98.90						
		$(11.54-6.77) \times (165.90+164.87) / 2$	788.89						
		$(8.48-11.54) \times (167.65+165.90) / 2$	-510.33						
		$(7.47-8.48) \times (167.65+167.65) / 2$	-169.33						
		$(8.03-7.47) \times (167.10+167.65) / 2$	93.73						
		$(7.07-8.03) \times (167.16+167.10) / 2$	-160.44						
		$(-1.00-7.07) \times (167.73+167.16) / 2$	-1351.28						
		$(-1.85--1.00) \times (167.79+167.73) / 2$	-142.60						
		$(-1.40--1.85) \times (168.24+167.79) / 2$	75.61						
		$(-2.41--1.40) \times (168.24+168.24) / 2$	-169.92						
		$(-2.65--2.41) \times (168.10+168.24) / 2$	-40.36						
		$(-5.01--2.65) \times (168.10+168.10) / 2$	-396.72						
		R3-14 153.43	S1			$(-3.17--3.66) \times (164.66+164.66) / 2$	80.68	30.49	
						$(-1.81--3.17) \times (164.89+164.66) / 2$	224.09		
$(-1.59--1.81) \times (164.90+164.89) / 2$	36.28								
$(0.26--1.59) \times (164.91+164.90) / 2$	305.07								
$(0.45-0.26) \times (164.92+164.91) / 2$	31.33								
$(2.33-0.45) \times (164.92+164.92) / 2$	310.05								
$(2.51-2.33) \times (164.92+164.92) / 2$	29.69								
$(3.83-2.51) \times (165.00+164.92) / 2$	217.75								
$(4.41-3.83) \times (165.14+165.00) / 2$	95.74								
$(4.84-4.41) \times (165.29+165.14) / 2$	71.04								
$(5.86-4.84) \times (165.70+165.29) / 2$	168.80								
$(7.87-5.86) \times (166.50+165.70) / 2$	333.86								
$(8.86-7.87) \times (166.67+166.50) / 2$	164.92								
$(9.46-8.86) \times (166.72+166.67) / 2$	100.02								
$(10.20-9.46) \times (166.69+166.72) / 2$	123.36								
$(8.35-10.20) \times (167.75+166.69) / 2$	-309.36								
$(7.34-8.35) \times (167.75+167.75) / 2$	-169.43								
$(7.89-7.34) \times (167.20+167.75) / 2$	92.11								
$(6.94-7.89) \times (167.26+167.20) / 2$	-158.87								
$(-1.00-6.94) \times (167.82+167.26) / 2$	-1330.27								
$(-1.85--1.00) \times (167.88+167.82) / 2$	-142.67								
$(-1.40--1.85) \times (168.33+167.88) / 2$	75.65								
$(-2.41--1.40) \times (168.33+168.33) / 2$	-170.01								
$(-2.55--2.41) \times (168.25+168.33) / 2$	-23.56								
$(-3.66--2.55) \times (168.25+168.25) / 2$	-186.76								
A RIPORTARE mq			921.49						

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE AREE		Foglio n. 8			
STERRI E RIPORTI							
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE		
RIPORTIO mq			921.49				
R3-15 160.00	SI	(6.85-5.46)x(169.00+168.88)/2	234.83				
		(7.30-6.85)x(169.23+169.00)/2	76.10				
		(8.30-7.30)x(169.64+169.23)/2	169.44				
		(8.84-8.30)x(169.89+169.64)/2	91.67				
		(9.20-8.84)x(170.00+169.89)/2	61.18				
		(10.15-9.20)x(170.26+170.00)/2	161.62				
		(11.35-10.15)x(170.19+170.26)/2	204.27				
		(12.03-11.35)x(170.26+170.19)/2	115.75				
		(12.24-12.03)x(170.27+170.26)/2	35.76				
		(8.57-12.24)x(168.18+170.27)/2	-621.06				
		(7.25-8.57)x(168.18+168.18)/2	-222.00				
		(6.23-7.25)x(168.03+168.03)/2	-171.39				
		(0.00-6.23)x(168.16+167.73)/2	-1046.30				
					11.36		
				(0.08-0.00)x(171.98+171.98)/2	13.76		
				(0.20-0.08)x(171.87+171.98)/2	20.63		
				(1.26-0.20)x(171.07+171.87)/2	181.76		
				(1.35-1.26)x(171.01+171.07)/2	15.39		
				(1.40-1.35)x(171.00+171.01)/2	8.55		
				(3.23-1.40)x(170.80+171.00)/2	312.75		
				(4.03-3.23)x(171.26+170.80)/2	136.82		
				(4.05-4.03)x(171.26+171.26)/2	3.43		
				(4.10-4.05)x(171.25+171.26)/2	8.56		
				(5.34-4.10)x(170.82+171.25)/2	212.08		
				(5.82-5.34)x(171.00+170.82)/2	82.04		
				(7.58-5.82)x(171.19+171.00)/2	301.13		
				(9.15-7.58)x(171.15+171.19)/2	268.74		
				(9.53-9.15)x(171.00+171.15)/2	65.01		
				(10.15-9.53)x(171.00+171.00)/2	106.02		
				(11.47-10.15)x(171.00+171.00)/2	225.72		
				(12.43-11.47)x(171.00+171.00)/2	164.16		
				(12.61-12.43)x(171.00+171.00)/2	30.78		
				(8.18-12.61)x(168.46+171.00)/2	-751.90		
				(6.86-8.18)x(168.46+168.46)/2	-222.37		
				(5.84-6.86)x(168.31+168.31)/2	-171.68		
				(0.00-5.84)x(168.40+168.01)/2	-982.32		
						29.06	
		Il Direttore dei Lavori		L'Impresa			

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		COMPUTO STERRI E RIPORTI				Foglio n. 9			
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO	DISTANZA	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO	RIPORTO	(PROGRESSIVA m)	m	STERRO	RIPORTO	STERRO	RIPORTO
		mq	mq			mc	mc	mc	mc
R3-1	R1		20.82	(0.00)	9.17		95.460		
				20.82*20.00	9.17				
				20.82+24.61	9.17				
R3-2	S1	24.61		(20.00)	10.83	133.263		133.263	95.460
R3-2	S1	24.61		(20.00)	6.12	172.033		172.033	
R3-3	S1	31.61		(26.12)					
R3-3	S1	31.61		(26.12)	13.88	463.106		463.106	
R3-4	S1	29.08		(40.00)	12.25	469.787			
	S2	0.75							
	S3	5.29							
R3-4	S1	29.08		(40.00)	12.09	4.534			
R3-5	S1	47.62		(52.25)	12.09				
R3-4	S2	0.75		(40.00)					
				0.75*12.25					
				0.75+0.01					
R3-5	R1		0.01	(52.25)	0.16		0.001		
R3-4	S3	5.29		(40.00)	12.25	34.361			
R3-5	S2	0.32		(52.25)				508.682	0.001
R3-5	S1	47.62		(52.25)	7.75	541.028			
R3-6	S1	92.00		(60.00)					
R3-5	R1		0.01	(52.25)	0.04		0.000		
A RIPORTARE :						541.028		1277.084	95.461

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		COMPUTO STERRI E RIPORTI					Foglio n. 10		
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO mq	RIPORTO mq			STERRO mc	RIPORTO mc	STERRO mc	RIPORTO mc
RIPORTO :						541.028		1277.084	95.461
				0.01*7.75					
				-----	0.04				
				0.01+1.72					
R3-6	S2	1.72		(60.00)	7.71	6.631			
R3-5	S2	0.32		(52.25)					
R3-6	S3	23.77		(60.00)	7.75	93.349			
								641.008	
R3-6	S1	92.00		(60.00)					
	S2	1.72							
	S3	23.77			20.00	3492.800			
R3-7	S1	231.79		(80.00)				3492.800	
R3-7	S1	231.79		(80.00)					
R3-8	S1	217.97		(85.26)	5.26	1182.869			
								1182.869	
R3-10	R1		86.22	(118.27)					
R3-11	R1		84.41	(120.00)	1.73		147.595		
									147.595
R3-11	R1		84.41	(120.00)					
R3-12	R1		47.13	(135.85)	15.85		1042.454		
									1042.454
R3-12	R1		47.13	(135.85)					
R3-13	R1		30.49	(140.00)	4.15		161.062		
									161.062
R3-13	R1		30.49	(140.00)	9.78		149.096		
				30.49*13.43					
				-----	9.78				
R3-14	S1	11.36		(153.43)	3.65	20.732			
A RIPORTARE :						20.732	149.096	6593.761	1446.572

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

				COMPUTO STERRI E RIPORTI		Foglio n. 11			
N. SEZ.	FIG.	SUPERFICIE		PUNTI DI PASSAGGIO (PROGRESSIVA m)	DISTANZA m	VOLUMI PARZIALI		VOLUMI TOTALI	
		STERRO mq	RIPORTO mq			STERRO mc	RIPORTO mc	STERRO mc	RIPORTO mc
RIPORTO :						20.732	149.096	6593.761	1446.572
R3-14	S1	11.36		(153.43)				20.732	149.096
R3-15	S1	29.06		(160.00)	6.57	132.780		132.780	
Il Direttore dei Lavori				L'Impresa		Totale Articoli		6747.273	1595.668
						A dedurre quantita' precedenti:			
						Quantita' da contabilizzare ...			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE AREE	Foglio n. 12		
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
R3-1 0.00	C1	(6.69-10.63)x(173.30+171.04)/2 (5.68-6.69)x(173.30+173.30)/2 (5.48-5.68)x(173.50+173.30)/2 (6.78-5.48)x(173.60+173.60)/2 (11.08-6.78)x(171.14+173.60)/2 (10.63-11.08)x(171.04+171.14)/2	-678.35 -175.03 -34.68 225.68 741.19 -76.99		
R3-5 52.25	C1	(-2.28--3.29)x(169.80+169.80)/2 (-2.08--2.28)x(170.00+169.80)/2 (-3.38--2.08)x(170.10+170.10)/2 (-3.67--3.38)x(169.93+170.10)/2 (-3.29--3.67)x(169.80+169.93)/2	171.50 33.98 -221.13 -49.30 64.55	1.82	
R3-6 60.00	C1	(-3.25--4.28)x(169.14+169.14)/2 (-2.75--3.25)x(169.43+169.14)/2 (-1.74--2.75)x(169.43+169.43)/2 (-1.54--1.74)x(169.63+169.43)/2 (-2.84--1.54)x(169.73+169.73)/2 (-3.34--2.84)x(169.44+169.73)/2 (-4.28--3.34)x(169.44+169.44)/2	174.21 84.64 171.12 33.91 -220.65 -84.79 -159.27	0.40	
R3-7 80.00	C1	(-3.47--8.54)x(167.98+167.98)/2 (-2.41--3.47)x(168.59+167.98)/2 (-1.40--2.41)x(168.59+168.59)/2 (-1.20--1.40)x(168.79+168.59)/2 (-2.50--1.20)x(168.89+168.89)/2 (-3.56--2.50)x(168.28+168.89)/2 (-8.54--3.56)x(168.28+168.28)/2	851.66 178.38 170.28 33.74 -219.56 -178.70 -838.03	0.83	
R3-8 85.26	C1	(-3.73--10.59)x(167.67+167.67)/2 (-2.41--3.73)x(168.42+167.67)/2 (-1.40--2.41)x(168.42+168.42)/2 (-1.20--1.40)x(168.62+168.42)/2 (-2.50--1.20)x(168.72+168.72)/2 (-3.82--2.50)x(167.97+168.72)/2 (-10.59--3.82)x(167.97+167.97)/2	1150.22 221.82 170.10 33.70 -219.34 -222.22 -1137.16	2.23	
R3-9 100.00	C1	(-3.73--10.59)x(167.37+167.37)/2 (-2.41--3.73)x(168.12+167.37)/2 (-1.40--2.41)x(168.12+168.12)/2 (-1.20--1.40)x(168.32+168.12)/2 (-2.50--1.20)x(168.42+168.42)/2 (-3.82--2.50)x(167.67+168.42)/2 (-10.59--3.82)x(167.67+167.67)/2	1148.16 221.42 169.80 33.64 -218.95 -221.82 -1135.13	2.88	
R3-10 118.27	C1	(-3.69--14.49)x(167.31+167.31)/2 (-2.41--3.69)x(168.04+167.31)/2 (-1.40--2.41)x(168.04+168.04)/2 (-1.20--1.40)x(168.24+168.04)/2 (-2.50--1.20)x(168.34+168.34)/2 (-3.78--2.50)x(167.61+168.34)/2	1806.95 214.62 169.72 33.63 -218.84 -215.01	2.88	
A RIPORTARE mq			1791.07		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE AREE		Foglio n. 13	
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
RIPORTIO mq			1791.07		
R3-10 118.27	C2	$(-14.49-3.78) \times (167.61+167.61) / 2$ $(8.10-11.31) \times (167.48+165.64) / 2$ $(7.09-8.10) \times (167.48+167.48) / 2$ $(6.89-7.09) \times (167.68+167.48) / 2$ $(8.19-6.89) \times (167.78+167.78) / 2$ $(11.83-8.19) \times (165.70+167.78) / 2$ $(11.31-11.83) \times (165.64+165.70) / 2$	-1795.10 -534.66 -169.15 -33.52 218.11 606.93 -86.15	4.03 1.56	
R3-11 120.00	C1	$(-3.53-13.20) \times (167.41+167.41) / 2$ $(-2.41-3.53) \times (168.05+167.41) / 2$ $(-1.40-2.41) \times (168.05+168.05) / 2$ $(-1.20-1.40) \times (168.25+168.05) / 2$ $(-2.50-1.20) \times (168.35+168.35) / 2$ $(-3.62-2.50) \times (167.71+168.35) / 2$ $(-13.20-3.62) \times (167.71+167.71) / 2$	1618.85 187.86 169.73 33.63 -218.85 -188.19 -1606.66	3.63	
R3-11 120.00	C2	$(8.21-11.56) \times (167.47+165.56) / 2$ $(7.20-8.21) \times (167.47+167.47) / 2$ $(7.00-7.20) \times (167.67+167.47) / 2$ $(8.30-7.00) \times (167.77+167.77) / 2$ $(12.08-8.30) \times (165.62+167.77) / 2$ $(11.56-12.08) \times (165.56+165.62) / 2$	-557.83 -169.14 -33.51 218.10 630.11 -86.11	1.62	
R3-12 135.85	C1	$(-2.65-5.01) \times (168.10+168.10) / 2$ $(-2.41-2.65) \times (168.24+168.10) / 2$ $(-1.40-2.41) \times (168.24+168.24) / 2$ $(-1.20-1.40) \times (168.44+168.24) / 2$ $(-2.50-1.20) \times (168.54+168.54) / 2$ $(-2.74-2.50) \times (168.40+168.54) / 2$ $(-5.01-2.74) \times (168.40+168.40) / 2$	396.72 40.36 169.92 33.67 -219.10 -40.43 -382.27	1.13	
R3-12 135.85	C2	$(8.48-11.54) \times (167.65+165.90) / 2$ $(7.47-8.48) \times (167.65+167.65) / 2$ $(7.27-7.47) \times (167.85+167.65) / 2$ $(8.57-7.27) \times (167.95+167.95) / 2$ $(11.99-8.57) \times (166.00+167.95) / 2$ $(11.54-11.99) \times (165.90+166.00) / 2$	-510.33 -169.33 -33.55 218.34 571.05 -74.68	1.50	
R3-13 140.00	C1	$(-2.55-3.66) \times (168.25+168.25) / 2$ $(-2.41-2.55) \times (168.33+168.25) / 2$ $(-1.40-2.41) \times (168.33+168.33) / 2$ $(-1.20-1.40) \times (168.53+168.33) / 2$ $(-2.50-1.20) \times (168.63+168.63) / 2$ $(-2.64-2.50) \times (168.55+168.63) / 2$ $(-3.66-2.64) \times (168.55+168.55) / 2$	186.76 23.56 170.01 33.69 -219.22 -23.60 -171.92	0.72	
R3-13 140.00	C2	$(8.35-10.20) \times (167.75+166.69) / 2$ $(7.34-8.35) \times (167.75+167.75) / 2$	-309.36 -169.43		
A RIPORTARE mq			-478.79		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE AREE		Foglio n. 14	
VEGETALE IN RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
		RIPORIO mq	-478.79		
		$(7.14-7.34) \times (167.95+167.75) / 2$ $(8.44-7.14) \times (168.05+168.05) / 2$ $(10.87-8.44) \times (166.66+168.05) / 2$ $(10.20-10.87) \times (166.69+166.66) / 2$	-33.57 218.46 406.67 -111.67	1.10	
Il Direttore dei Lavori		L'Impresa			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE AREE		Foglio n. 15	
GRADONATURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	AREA ELEMENTARE mq	AREA FIGURA mq	NOTE
R3-10 118.27	01	$(3.58-1.41) \times (164.50+163.80) / 2$	356.21	1.63	
		$(4.60-3.58) \times (164.80+164.50) / 2$	167.94		
		$(1.41-4.60) \times (163.80+163.80) / 2$	-522.52		
R3-11 120.00	01	$(4.23-2.95) \times (164.21+163.80) / 2$	209.93	1.52	
		$(6.02-4.23) \times (164.80+164.21) / 2$	294.46		
		$(2.95-6.02) \times (163.80+163.80) / 2$	-502.87		
R3-13 140.00	01	$(4.41-3.83) \times (164.94+164.80) / 2$	95.62	1.29	
		$(4.84-4.41) \times (165.09+164.94) / 2$	70.96		
		$(5.86-4.84) \times (165.50+165.09) / 2$	168.60		
		$(6.63-5.86) \times (165.80+165.50) / 2$	127.55		
		$(3.83-6.63) \times (164.80+164.80) / 2$	-461.44		
R3-13 140.00	02	$(7.87-6.63) \times (166.30+165.80) / 2$	205.90	0.31	
		$(6.63-7.87) \times (165.80+165.80) / 2$	-205.59		
Il Direttore dei Lavori		L'Impresa			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE LUNGHEZZE				Foglio n. 16
SEMINA						
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE	
R3-1 0.00	a1	$^1 ((6.78-5.48)^2 + (173.60-173.60)^2)$ $^1 ((11.08-6.78)^2 + (171.14-173.60)^2)$	1.30 4.95			
R3-5 52.25	a1	$^1 ((-3.38--2.08)^2 + (170.10-170.10)^2)$ $^1 ((-3.67--3.38)^2 + (169.93-170.10)^2)$	1.30 0.34	6.25		
R3-6 60.00	a1	$^1 ((-2.84--1.54)^2 + (169.73-169.73)^2)$ $^1 ((-3.34--2.84)^2 + (169.44-169.73)^2)$ $^1 ((-4.28--3.34)^2 + (169.44-169.44)^2)$	1.30 0.58 0.94	1.64		
R3-7 80.00	a1	$^1 ((-2.50--1.20)^2 + (168.89-168.89)^2)$ $^1 ((-3.56--2.50)^2 + (168.28-168.89)^2)$ $^1 ((-8.54--3.56)^2 + (168.28-168.28)^2)$	1.30 1.22 4.98	2.82		
R3-8 85.26	a1	$^1 ((-2.50--1.20)^2 + (168.72-168.72)^2)$ $^1 ((-3.82--2.50)^2 + (167.97-168.72)^2)$ $^1 ((-10.59--3.82)^2 + (167.97-167.97)^2)$	1.30 1.52 6.77	7.50		
R3-9 100.00	a1	$^1 ((-2.50--1.20)^2 + (168.42-168.42)^2)$ $^1 ((-3.82--2.50)^2 + (167.67-168.42)^2)$ $^1 ((-10.59--3.82)^2 + (167.67-167.67)^2)$	1.30 1.52 6.77	9.59		
R3-10 118.27	a1	$^1 ((-2.50--1.20)^2 + (168.34-168.34)^2)$ $^1 ((-3.78--2.50)^2 + (167.61-168.34)^2)$ $^1 ((-14.49--3.78)^2 + (167.61-167.61)^2)$	1.30 1.47 10.71	9.59		
R3-10 118.27	a2	$^1 ((8.19-6.89)^2 + (167.78-167.78)^2)$ $^1 ((11.83-8.19)^2 + (165.70-167.78)^2)$	1.30 4.19	13.48		
R3-11 120.00	a1	$^1 ((-2.50--1.20)^2 + (168.35-168.35)^2)$ $^1 ((-3.62--2.50)^2 + (167.71-168.35)^2)$ $^1 ((-13.20--3.62)^2 + (167.71-167.71)^2)$	1.30 1.29 9.58	5.49		
R3-11 120.00	a2	$^1 ((8.30-7.00)^2 + (167.77-167.77)^2)$ $^1 ((12.08-8.30)^2 + (165.62-167.77)^2)$	1.30 4.35	12.17		
R3-12 135.85	a1	$^1 ((-2.50--1.20)^2 + (168.54-168.54)^2)$ $^1 ((-2.74--2.50)^2 + (168.40-168.54)^2)$ $^1 ((-5.01--2.74)^2 + (168.40-168.40)^2)$	1.30 0.28 2.27	3.85		
R3-12 135.85	a2	$^1 ((8.57-7.27)^2 + (167.95-167.95)^2)$ $^1 ((11.99-8.57)^2 + (166.00-167.95)^2)$	1.30 3.94	5.24		
R3-13 140.00	a1	$^1 ((-2.50--1.20)^2 + (168.63-168.63)^2)$ $^1 ((-2.64--2.50)^2 + (168.55-168.63)^2)$ $^1 ((-3.66--2.64)^2 + (168.55-168.55)^2)$	1.30 0.16 1.02	2.48		
R3-13 140.00	a2	$^1 ((8.44-7.14)^2 + (168.05-168.05)^2)$ $^1 ((10.87-8.44)^2 + (166.66-168.05)^2)$	1.30 2.80	4.10		
Il Direttore dei Lavori		L'Impresa				

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE LUNGHEZZE		Foglio n. 17	
SEMINA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R3-2 20.00	b1	$^1 ((7.75-6.52)^2 + (172.41-172.41)^2)$ $^1 ((12.08-7.75)^2 + (174.88-172.41)^2)$	1.23 4.98	6.21	
R3-3 26.12	b1	$^1 ((7.75-6.52)^2 + (172.04-172.04)^2)$ $^1 ((13.39-7.75)^2 + (175.26-172.04)^2)$	1.23 6.49	7.72	
R3-4 40.00	b1	$^1 ((7.75-6.53)^2 + (171.26-171.26)^2)$ $^1 ((14.70-7.75)^2 + (175.23-171.26)^2)$	1.22 8.00	9.22	
R3-6	b1	$^1 ((7.03-6.53)^2 + (170.06-170.06)^2)$	0.50	0.50	
R3-7 80.00	b1	$^1 ((7.75-6.52)^2 + (168.91-168.91)^2)$ $^1 ((16.50-7.75)^2 + (173.91-168.91)^2)$ $^1 ((18.50-16.50)^2 + (173.91-173.91)^2)$ $^1 ((27.74-18.50)^2 + (179.19-173.91)^2)$	1.23 10.08 2.00 10.64	23.95	
R3-8 85.26	b1	$^1 ((7.75-6.52)^2 + (168.67-168.67)^2)$ $^1 ((16.50-7.75)^2 + (173.67-168.67)^2)$ $^1 ((18.50-16.50)^2 + (173.67-173.67)^2)$ $^1 ((26.33-18.50)^2 + (178.15-173.67)^2)$	1.23 10.08 2.00 9.02	22.33	
R3-9 100.00	b1	$^1 ((7.75-6.53)^2 + (168.16-168.16)^2)$ $^1 ((16.50-7.75)^2 + (173.16-168.16)^2)$ $^1 ((18.50-16.50)^2 + (173.16-173.16)^2)$ $^1 ((24.99-18.50)^2 + (176.87-173.16)^2)$	1.22 10.08 2.00 7.48	20.78	
R3-14 153.43	b1	$^1 ((8.48-7.25)^2 + (168.48-168.48)^2)$ $^1 ((11.50-8.48)^2 + (170.21-168.48)^2)$	1.23 3.48	4.71	
R3-15 160.00	b1	$^1 ((8.09-6.86)^2 + (168.76-168.76)^2)$ $^1 ((12.00-8.09)^2 + (171.00-168.76)^2)$	1.23 4.51	5.74	
R3-16 180.00	b1	$^1 ((8.39-7.17)^2 + (169.46-169.46)^2)$ $^1 ((13.86-8.39)^2 + (172.59-169.46)^2)$	1.22 6.30	7.52	
Il Direttore dei Lavori		L'Impresa			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE LUNGHEZZE	Foglio n. 18		
SCOTICO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R3-1 0.00	c1	$^1 ((1.26-0.00)^2 + (169.95-169.90)^2)$ $^1 ((2.08-1.26)^2 + (169.96-169.95)^2)$ $^1 ((2.98-2.08)^2 + (170.12-169.96)^2)$ $^1 ((4.32-2.98)^2 + (170.16-170.12)^2)$ $^1 ((4.35-4.32)^2 + (170.12-170.16)^2)$ $^1 ((4.60-4.35)^2 + (170.16-170.12)^2)$ $^1 ((5.66-4.60)^2 + (170.30-170.16)^2)$ $^1 ((6.30-5.66)^2 + (170.48-170.30)^2)$ $^1 ((8.09-6.30)^2 + (170.68-170.48)^2)$ $^1 ((8.44-8.09)^2 + (170.70-170.68)^2)$ $^1 ((9.18-8.44)^2 + (170.80-170.70)^2)$ $^1 ((10.40-9.18)^2 + (170.80-170.80)^2)$ $^1 ((10.63-10.40)^2 + (170.84-170.80)^2)$	1.26 0.82 0.91 1.34 0.05 0.25 1.07 0.66 1.80 0.35 0.75 1.22 0.23	10.71	
R3-5 52.25	c1	$^1 ((10.34-10.32)^2 + (176.31-176.31)^2)$ $^1 ((10.66-10.34)^2 + (176.38-176.31)^2)$	0.02 0.33	0.35	
R3-10 118.27	c1	$^1 ((-10.07--14.49)^2 + (162.80-162.33)^2)$ $^1 ((-9.15--10.07)^2 + (162.80-162.80)^2)$ $^1 ((-7.71--9.15)^2 + (162.80-162.80)^2)$ $^1 ((-6.84--7.71)^2 + (162.80-162.80)^2)$ $^1 ((-5.97--6.84)^2 + (162.80-162.80)^2)$ $^1 ((-5.61--5.97)^2 + (162.80-162.80)^2)$ $^1 ((-4.58--5.61)^2 + (163.05-162.80)^2)$ $^1 ((-0.18--4.58)^2 + (163.59-163.05)^2)$ $^1 ((0.72--0.18)^2 + (163.73-163.59)^2)$ $^1 ((1.41-0.72)^2 + (163.80-163.73)^2)$	4.44 0.92 1.44 0.87 0.87 0.36 1.06 4.43 0.91 0.69	15.99	
R3-10 118.27	c2	$^1 ((5.26-4.60)^2 + (164.88-164.80)^2)$ $^1 ((5.44-5.26)^2 + (164.89-164.88)^2)$ $^1 ((7.41-5.44)^2 + (165.10-164.89)^2)$ $^1 ((8.24-7.41)^2 + (165.16-165.10)^2)$ $^1 ((9.50-8.24)^2 + (165.26-165.16)^2)$ $^1 ((10.96-9.50)^2 + (165.40-165.26)^2)$ $^1 ((11.31-10.96)^2 + (165.44-165.40)^2)$	0.66 0.18 1.98 0.83 1.26 1.47 0.35	6.73	
R3-11 120.00	c1	$^1 ((-9.82--13.20)^2 + (162.80-162.44)^2)$ $^1 ((-8.52--9.82)^2 + (162.80-162.80)^2)$ $^1 ((-7.66--8.52)^2 + (162.80-162.80)^2)$ $^1 ((-6.25--7.66)^2 + (162.80-162.80)^2)$ $^1 ((-5.72--6.25)^2 + (162.80-162.80)^2)$ $^1 ((-3.50--5.72)^2 + (163.14-162.80)^2)$ $^1 ((2.95--3.50)^2 + (163.80-163.14)^2)$	3.40 1.30 0.86 1.41 0.53 2.25 6.48	16.23	
R3-11 120.00	c2	$^1 ((6.60-6.02)^2 + (164.87-164.80)^2)$ $^1 ((6.79-6.60)^2 + (164.88-164.87)^2)$ $^1 ((7.08-6.79)^2 + (164.91-164.88)^2)$ $^1 ((9.59-7.08)^2 + (165.15-164.91)^2)$ $^1 ((11.03-9.59)^2 + (165.31-165.15)^2)$ $^1 ((11.56-11.03)^2 + (165.36-165.31)^2)$	0.58 0.19 0.29 2.52 1.45 0.53	5.56	
A RIPORTARE ml					

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE LUNGHEZZE		Foglio n. 19	
SCOTICO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml					
R3-12 135.85	c1	$^1 ((-4.83--5.01)^2 + (163.80-163.80)^2)$	0.18		
		$^1 ((-3.49--4.83)^2 + (163.80-163.80)^2)$	1.34		
		$^1 ((-2.00--3.49)^2 + (163.91-163.80)^2)$	1.49		
		$^1 ((-1.76--2.00)^2 + (163.92-163.91)^2)$	0.24		
		$^1 ((-0.01--1.76)^2 + (164.05-163.92)^2)$	1.75		
		$^1 ((0.52--0.01)^2 + (164.06-164.05)^2)$	0.53		
		$^1 ((2.07-0.52)^2 + (164.12-164.06)^2)$	1.55		
		$^1 ((2.81-2.07)^2 + (164.18-164.12)^2)$	0.74		
		$^1 ((3.92-2.81)^2 + (164.29-164.18)^2)$	1.12		
		$^1 ((6.17-3.92)^2 + (164.59-164.29)^2)$	2.27		
		$^1 ((6.77-6.17)^2 + (164.67-164.59)^2)$	0.61		
		$^1 ((11.54-6.77)^2 + (165.70-164.67)^2)$	4.88		
R3-13 140.00	c1	$^1 ((-3.17--3.66)^2 + (164.46-164.46)^2)$	0.49		
		$^1 ((-1.81--3.17)^2 + (164.69-164.46)^2)$	1.38		
		$^1 ((-1.59--1.81)^2 + (164.70-164.69)^2)$	0.22		
		$^1 ((0.26--1.59)^2 + (164.71-164.70)^2)$	1.85		
		$^1 ((0.45-0.26)^2 + (164.72-164.71)^2)$	0.19		
		$^1 ((2.33-0.45)^2 + (164.72-164.72)^2)$	1.88		
		$^1 ((2.51-2.33)^2 + (164.72-164.72)^2)$	0.18		
		$^1 ((3.83-2.51)^2 + (164.80-164.72)^2)$	1.32		
R3-13 140.00	c2	$^1 ((8.86-7.87)^2 + (166.47-166.30)^2)$	1.00		
		$^1 ((9.46-8.86)^2 + (166.52-166.47)^2)$	0.60		
		$^1 ((10.20-9.46)^2 + (166.49-166.52)^2)$	0.74		
Il Direttore dei Lavori			L'Impresa		

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE LUNGHEZZE		Foglio n. 20	
SCOTICO SU GRADONATURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R3-10 118.27	e1	$^1 (3.58-1.41)^2 + (164.50-163.80)^2$	2.28	3.34	
		$^1 (4.60-3.58)^2 + (164.80-164.50)^2$	1.06		
R3-11 120.00	e1	$^1 (4.23-6.02)^2 + (164.21-164.80)^2$	1.88	3.22	
		$^1 (2.95-4.23)^2 + (163.80-164.21)^2$	1.34		
R3-13 140.00	e1	$^1 (5.86-7.87)^2 + (165.50-166.30)^2$	2.16	4.32	
		$^1 (4.84-5.86)^2 + (165.09-165.50)^2$	1.10		
		$^1 (4.41-4.84)^2 + (164.94-165.09)^2$	0.46		
		$^1 (3.83-4.41)^2 + (164.80-164.94)^2$	0.60		
Il Direttore dei Lavori		L'Impresa			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE LUNGHEZZE	Foglio n. 21		
BONIFICA RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R3-1 0.00	f1	$^1 (1.26-0.00)^2 + (169.95-169.90)^2$ $^1 (2.08-1.26)^2 + (169.96-169.95)^2$ $^1 (2.98-2.08)^2 + (170.12-169.96)^2$ $^1 (4.32-2.98)^2 + (170.16-170.12)^2$ $^1 (4.35-4.32)^2 + (170.12-170.16)^2$ $^1 (4.60-4.35)^2 + (170.16-170.12)^2$ $^1 (5.66-4.60)^2 + (170.30-170.16)^2$ $^1 (6.30-5.66)^2 + (170.48-170.30)^2$ $^1 (8.09-6.30)^2 + (170.68-170.48)^2$ $^1 (8.44-8.09)^2 + (170.70-170.68)^2$ $^1 (9.18-8.44)^2 + (170.80-170.70)^2$ $^1 (10.40-9.18)^2 + (170.80-170.80)^2$ $^1 (10.63-10.40)^2 + (170.84-170.80)^2$	1.26 0.82 0.91 1.34 0.05 0.25 1.07 0.66 1.80 0.35 0.75 1.22 0.23	10.71	
R3-5 52.25	f1	$^1 (10.34-10.32)^2 + (176.31-176.31)^2$ $^1 (10.66-10.34)^2 + (176.38-176.31)^2$	0.02 0.33	0.35	
R3-10 118.27	f1	$^1 (-10.07--14.49)^2 + (162.80-162.33)^2$ $^1 (-9.15--10.07)^2 + (162.80-162.80)^2$ $^1 (-7.71--9.15)^2 + (162.80-162.80)^2$ $^1 (-6.84--7.71)^2 + (162.80-162.80)^2$ $^1 (-5.97--6.84)^2 + (162.80-162.80)^2$ $^1 (-5.61--5.97)^2 + (162.80-162.80)^2$ $^1 (-4.58--5.61)^2 + (163.05-162.80)^2$ $^1 (-0.18--4.58)^2 + (163.59-163.05)^2$ $^1 (0.72--0.18)^2 + (163.73-163.59)^2$ $^1 (1.41-0.72)^2 + (163.80-163.73)^2$	4.44 0.92 1.44 0.87 0.87 0.36 1.06 4.43 0.91 0.69	15.99	
R3-10 118.27	f2	$^1 (5.26-4.60)^2 + (164.88-164.80)^2$ $^1 (5.44-5.26)^2 + (164.89-164.88)^2$ $^1 (7.41-5.44)^2 + (165.10-164.89)^2$ $^1 (8.24-7.41)^2 + (165.16-165.10)^2$ $^1 (9.50-8.24)^2 + (165.26-165.16)^2$ $^1 (10.96-9.50)^2 + (165.40-165.26)^2$ $^1 (11.31-10.96)^2 + (165.44-165.40)^2$	0.66 0.18 1.98 0.83 1.26 1.47 0.35	6.73	
R3-11 120.00	f1	$^1 (-9.82--13.20)^2 + (162.80-162.44)^2$ $^1 (-8.52--9.82)^2 + (162.80-162.80)^2$ $^1 (-7.66--8.52)^2 + (162.80-162.80)^2$ $^1 (-6.25--7.66)^2 + (162.80-162.80)^2$ $^1 (-5.72--6.25)^2 + (162.80-162.80)^2$ $^1 (-3.50--5.72)^2 + (163.14-162.80)^2$ $^1 (2.95--3.50)^2 + (163.80-163.14)^2$	3.40 1.30 0.86 1.41 0.53 2.25 6.48	16.23	
R3-11 120.00	f2	$^1 (6.60-6.02)^2 + (164.87-164.80)^2$ $^1 (6.79-6.60)^2 + (164.88-164.87)^2$ $^1 (7.08-6.79)^2 + (164.91-164.88)^2$ $^1 (9.59-7.08)^2 + (165.15-164.91)^2$ $^1 (11.03-9.59)^2 + (165.31-165.15)^2$ $^1 (11.56-11.03)^2 + (165.36-165.31)^2$	0.58 0.19 0.29 2.52 1.45 0.53	5.56	
A RIPORTARE ml					

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE LUNGHEZZE		Foglio n. 22	
BONIFICA RILEVATO					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
RIPORTO ml					
R3-12 135.85	f1	$^1 ((-4.83--5.01)^2 + (163.80-163.80)^2)$	0.18		
		$^1 ((-3.49--4.83)^2 + (163.80-163.80)^2)$	1.34		
		$^1 ((-2.00--3.49)^2 + (163.91-163.80)^2)$	1.49		
		$^1 ((-1.76--2.00)^2 + (163.92-163.91)^2)$	0.24		
		$^1 ((-0.01--1.76)^2 + (164.05-163.92)^2)$	1.75		
		$^1 ((0.52--0.01)^2 + (164.06-164.05)^2)$	0.53		
		$^1 ((2.07-0.52)^2 + (164.12-164.06)^2)$	1.55		
		$^1 ((2.81-2.07)^2 + (164.18-164.12)^2)$	0.74		
		$^1 ((3.92-2.81)^2 + (164.29-164.18)^2)$	1.12		
		$^1 ((6.17-3.92)^2 + (164.59-164.29)^2)$	2.27		
		$^1 ((6.77-6.17)^2 + (164.67-164.59)^2)$	0.61		
		$^1 ((11.54-6.77)^2 + (165.70-164.67)^2)$	4.88		
R3-13 140.00	f1	$^1 ((-3.17--3.66)^2 + (164.46-164.46)^2)$	0.49		
		$^1 ((-1.81--3.17)^2 + (164.69-164.46)^2)$	1.38		
		$^1 ((-1.59--1.81)^2 + (164.70-164.69)^2)$	0.22		
		$^1 ((0.26--1.59)^2 + (164.71-164.70)^2)$	1.85		
		$^1 ((0.45-0.26)^2 + (164.72-164.71)^2)$	0.19		
		$^1 ((2.33-0.45)^2 + (164.72-164.72)^2)$	1.88		
		$^1 ((2.51-2.33)^2 + (164.72-164.72)^2)$	0.18		
		$^1 ((3.83-2.51)^2 + (164.80-164.72)^2)$	1.32		
				7.51	
R3-13 140.00	f2	$^1 ((8.86-7.87)^2 + (166.47-166.30)^2)$	1.00		
		$^1 ((9.46-8.86)^2 + (166.52-166.47)^2)$	0.60		
		$^1 ((10.20-9.46)^2 + (166.49-166.52)^2)$	0.74		
				2.34	
Il Direttore dei Lavori		L'Impresa			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE LUNGHEZZE		Foglio n. 23	
USURA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R3-1 0.00	g1	$^1 ((0.00-0.01)^2 + (173.06-173.06)^2)$	0.01		
		$^1 ((5.28-0.00)^2 + (173.43-173.06)^2)$	5.29		
		$^1 ((5.38-5.28)^2 + (173.44-173.43)^2)$	0.10		
R3-2	g1	$^1 ((5.50-0.00)^2 + (172.31-171.92)^2)$	5.51	5.40	
R3-3	g1	$^1 ((5.50-0.00)^2 + (171.94-171.56)^2)$	5.51	5.51	
R3-4	g1	$^1 ((5.50-0.00)^2 + (171.16-170.77)^2)$	5.51	5.51	
R3-5	g1	$^1 ((5.50-2.13)^2 + (170.48-169.94)^2)$	7.65	7.65	
R3-6	g1	$^1 ((5.50-1.59)^2 + (169.96-169.58)^2)$	7.10	7.10	
R3-7	g1	$^1 ((5.50-1.25)^2 + (168.81-168.73)^2)$	6.75	6.75	
R3-8	g1	$^1 ((5.50-1.25)^2 + (168.57-168.57)^2)$	6.75	6.75	
R3-9	g1	$^1 ((5.50-1.25)^2 + (168.06-168.27)^2)$	6.75	6.75	
R3-10 118.27	g1	$^1 ((-1.00-1.10)^2 + (168.18-168.19)^2)$	0.10		
		$^1 ((6.69-1.00)^2 + (167.64-168.18)^2)$	7.71		
		$^1 ((6.79-6.69)^2 + (167.63-167.64)^2)$	0.10		
R3-11 120.00	g1	$^1 ((-1.00-1.10)^2 + (168.18-168.19)^2)$	0.10		
		$^1 ((6.80-1.00)^2 + (167.64-168.18)^2)$	7.82		
		$^1 ((6.90-6.80)^2 + (167.63-167.64)^2)$	0.10		
R3-12 135.85	g1	$^1 ((-1.00-1.10)^2 + (168.38-168.38)^2)$	0.10		
		$^1 ((7.07-1.00)^2 + (167.81-168.38)^2)$	8.09		
		$^1 ((7.17-7.07)^2 + (167.81-167.81)^2)$	0.10		
R3-13 140.00	g1	$^1 ((-1.00-1.10)^2 + (168.47-168.48)^2)$	0.10		
		$^1 ((6.94-1.00)^2 + (167.91-168.47)^2)$	7.96		
		$^1 ((7.04-6.94)^2 + (167.91-167.91)^2)$	0.10		
R3-14	g1	$^1 ((6.23-0.00)^2 + (168.38-168.81)^2)$	6.24	8.16	
R3-15	g1	$^1 ((5.84-0.00)^2 + (168.66-169.05)^2)$	5.85	6.24	
R3-16	g1	$^1 ((6.14-0.00)^2 + (169.36-169.69)^2)$	6.15	5.85	
R3-17	g1	$^1 ((6.25-0.00)^2 + (169.73-170.02)^2)$	6.26	6.15	
			6.26		
Il Direttore dei Lavori		L'Impresa			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE LUNGHEZZE		Foglio n. 24	
BINDER					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R3-1 0.00	h1	$^1 ((0.00-0.01)^2 + (173.01-173.01)^2)$ $^1 ((5.28-0.00)^2 + (173.38-173.01)^2)$ $^1 ((5.48-5.28)^2 + (173.40-173.38)^2)$	0.01 5.29 0.20	5.50	
R3-2	h1	$^1 ((5.50-0.00)^2 + (172.26-171.87)^2)$	5.51	5.51	
R3-3	h1	$^1 ((5.50-0.00)^2 + (171.89-171.51)^2)$	5.51	5.51	
R3-4	h1	$^1 ((5.50-0.00)^2 + (171.11-170.72)^2)$	5.51	5.51	
R3-5	h1	$^1 ((5.50-2.18)^2 + (170.43-169.89)^2)$	7.70	7.70	
R3-6	h1	$^1 ((5.50-1.64)^2 + (169.91-169.53)^2)$	7.15	7.15	
R3-7	h1	$^1 ((5.50-1.30)^2 + (168.76-168.68)^2)$	6.80	6.80	
R3-8	h1	$^1 ((5.50-1.30)^2 + (168.52-168.52)^2)$	6.80	6.80	
R3-9	h1	$^1 ((5.50-1.30)^2 + (168.01-168.22)^2)$	6.80	6.80	
R3-10 118.27	h1	$^1 ((-1.00-1.20)^2 + (168.13-168.14)^2)$ $^1 ((6.69-1.00)^2 + (167.59-168.13)^2)$ $^1 ((6.89-6.69)^2 + (167.58-167.59)^2)$	0.20 7.71 0.20	8.11	
R3-11 120.00	h1	$^1 ((-1.00-1.20)^2 + (168.13-168.15)^2)$ $^1 ((6.80-1.00)^2 + (167.59-168.13)^2)$ $^1 ((7.00-6.80)^2 + (167.57-167.59)^2)$	0.20 7.82 0.20	8.22	
R3-12 135.85	h1	$^1 ((-1.00-1.20)^2 + (168.33-168.34)^2)$ $^1 ((7.07-1.00)^2 + (167.76-168.33)^2)$ $^1 ((7.27-7.07)^2 + (167.75-167.76)^2)$	0.20 8.09 0.20	8.49	
R3-13 140.00	h1	$^1 ((-1.00-1.20)^2 + (168.42-168.43)^2)$ $^1 ((6.94-1.00)^2 + (167.86-168.42)^2)$ $^1 ((7.14-6.94)^2 + (167.85-167.86)^2)$	0.20 7.96 0.20	8.36	
R3-14	h1	$^1 ((6.23-0.00)^2 + (168.33-168.76)^2)$	6.24	6.24	
R3-15	h1	$^1 ((5.84-0.00)^2 + (168.61-169.00)^2)$	5.85	5.85	
R3-16	h1	$^1 ((6.14-0.00)^2 + (169.31-169.64)^2)$	6.15	6.15	
R3-17	h1	$^1 ((6.25-0.00)^2 + (169.68-169.97)^2)$	6.26	6.26	
Il Direttore dei Lavori		L'Impresa			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE LUNGHEZZE		Foglio n. 25	
BASE					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R3-1 0.00	i1	$^1 ((0.00-0.01)^2 + (172.86-172.86)^2)$ $^1 ((5.28-0.00)^2 + (173.23-172.86)^2)$ $^1 ((5.71-5.28)^2 + (173.26-173.23)^2)$	0.01 5.29 0.43	5.73	
R3-2	i1	$^1 ((5.50-0.00)^2 + (172.11-171.72)^2)$	5.51	5.51	
R3-3	i1	$^1 ((5.50-0.00)^2 + (171.74-171.36)^2)$	5.51	5.51	
R3-4	i1	$^1 ((5.50-0.00)^2 + (170.96-170.57)^2)$	5.51	5.51	
R3-5	i1	$^1 ((5.50-2.33)^2 + (170.28-169.73)^2)$	7.85	7.85	
R3-6	i1	$^1 ((5.50-1.79)^2 + (169.76-169.37)^2)$	7.30	7.30	
R3-7	i1	$^1 ((5.50-1.46)^2 + (168.61-168.53)^2)$	6.96	6.96	
R3-8	i1	$^1 ((5.50-1.45)^2 + (168.37-168.37)^2)$	6.95	6.95	
R3-9	i1	$^1 ((5.50-1.44)^2 + (167.86-168.08)^2)$	6.94	6.94	
R3-10 118.27	i1	$^1 ((-1.00-1.43)^2 + (167.98-168.01)^2)$ $^1 ((6.69-1.00)^2 + (167.44-167.98)^2)$ $^1 ((7.16-6.69)^2 + (167.41-167.44)^2)$	0.43 7.71 0.47	8.61	
R3-11 120.00	i1	$^1 ((-1.00-1.43)^2 + (167.98-168.02)^2)$ $^1 ((6.80-1.00)^2 + (167.44-167.98)^2)$ $^1 ((7.27-6.80)^2 + (167.41-167.44)^2)$	0.43 7.82 0.47	8.72	
R3-12 135.85	i1	$^1 ((-1.00-1.43)^2 + (168.18-168.21)^2)$ $^1 ((7.07-1.00)^2 + (167.61-168.18)^2)$ $^1 ((7.54-7.07)^2 + (167.58-167.61)^2)$	0.43 8.09 0.47	8.99	
R3-13 140.00	i1	$^1 ((-1.00-1.43)^2 + (168.27-168.30)^2)$ $^1 ((6.94-1.00)^2 + (167.71-168.27)^2)$ $^1 ((7.41-6.94)^2 + (167.68-167.71)^2)$	0.43 7.96 0.47	8.86	
R3-14	i1	$^1 ((6.23-0.00)^2 + (168.18-168.61)^2)$	6.24	6.24	
R3-15	i1	$^1 ((5.84-0.00)^2 + (168.46-168.85)^2)$	5.85	5.85	
R3-16	i1	$^1 ((6.14-0.00)^2 + (169.16-169.49)^2)$	6.15	6.15	
R3-17	i1	$^1 ((6.25-0.00)^2 + (169.53-169.82)^2)$	6.26	6.26	
Il Direttore dei Lavori		L'Impresa			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE LUNGHEZZE		Foglio n. 26	
FONDAZIONE					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R3-1 0.00	ml	$^1 ((0.00-0.01)^2 + (172.41-172.41)^2)$ $^1 ((5.28-0.00)^2 + (172.78-172.41)^2)$ $^1 ((6.13-5.28)^2 + (172.84-172.78)^2)$	0.01 5.29 0.85	6.15	
R3-2	ml	$^1 ((5.50-0.00)^2 + (171.66-171.27)^2)$	5.51	5.51	
R3-3	ml	$^1 ((5.50-0.00)^2 + (171.29-170.91)^2)$	5.51	5.51	
R3-4	ml	$^1 ((5.50-0.00)^2 + (170.51-170.12)^2)$	5.51	5.51	
R3-5	ml	$^1 ((5.50-2.78)^2 + (169.83-169.25)^2)$	8.30	8.30	
R3-6	ml	$^1 ((5.50-2.24)^2 + (169.31-168.89)^2)$	7.75	7.75	
R3-7	ml	$^1 ((5.50-1.90)^2 + (168.16-168.09)^2)$	7.40	7.40	
R3-8	ml	$^1 ((5.50-1.90)^2 + (167.92-167.92)^2)$	7.40	7.40	
R3-9	ml	$^1 ((5.50-1.88)^2 + (167.41-167.64)^2)$	7.38	7.38	
R3-10 118.27	ml	$^1 ((-1.00-1.85)^2 + (167.53-167.59)^2)$ $^1 ((6.69-1.00)^2 + (166.99-167.53)^2)$ $^1 ((7.64-6.69)^2 + (166.92-166.99)^2)$	0.85 7.71 0.95	9.51	
R3-11 120.00	ml	$^1 ((-1.00-1.85)^2 + (167.53-167.59)^2)$ $^1 ((6.80-1.00)^2 + (166.99-167.53)^2)$ $^1 ((7.76-6.80)^2 + (166.92-166.99)^2)$	0.85 7.82 0.96	9.63	
R3-12 135.85	ml	$^1 ((-1.00-1.85)^2 + (167.73-167.79)^2)$ $^1 ((7.07-1.00)^2 + (167.16-167.73)^2)$ $^1 ((8.03-7.07)^2 + (167.10-167.16)^2)$	0.85 8.09 0.96	9.90	
R3-13 140.00	ml	$^1 ((-1.00-1.85)^2 + (167.82-167.88)^2)$ $^1 ((6.94-1.00)^2 + (167.26-167.82)^2)$ $^1 ((7.89-6.94)^2 + (167.20-167.26)^2)$	0.85 7.96 0.95	9.76	
R3-14	ml	$^1 ((6.23-0.00)^2 + (167.73-168.16)^2)$	6.24	6.24	
R3-15	ml	$^1 ((5.84-0.00)^2 + (168.01-168.40)^2)$	5.85	5.85	
R3-16	ml	$^1 ((6.14-0.00)^2 + (168.71-169.04)^2)$	6.15	6.15	
R3-17	ml	$^1 ((6.25-0.00)^2 + (169.08-169.37)^2)$	6.26	6.26	
Il Direttore dei Lavori		L'Impresa			

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		CALCOLO DELLE LUNGHEZZE	Foglio n. 27		
BONIFICA TRINCEA					
N. SEZIONE PROG.	FIG.	ELEMENTI DI CALCOLO	LUNGHEZZA ELEMENTARE ml	LUNGHEZZA FIGURA ml	NOTE
R3-2	o1	$^1 ((5.50-0.00)^2 + (171.66-171.27)^2)$	5.51	5.51	
R3-3	o1	$^1 ((5.50-0.00)^2 + (171.29-170.91)^2)$	5.51	5.51	
R3-4	o1	$^1 ((5.50-0.00)^2 + (170.51-170.12)^2)$	5.51	5.51	
R3-5	o1	$^1 ((5.50-2.78)^2 + (169.83-169.25)^2)$	8.30	8.30	
R3-6	o1	$^1 ((5.50-2.24)^2 + (169.31-168.89)^2)$	7.75	7.75	
R3-7	o1	$^1 ((5.50-1.90)^2 + (168.16-168.09)^2)$	7.40	7.40	
R3-8	o1	$^1 ((5.50-1.90)^2 + (167.92-167.92)^2)$	7.40	7.40	
R3-9	o1	$^1 ((5.50-1.88)^2 + (167.41-167.64)^2)$	7.38	7.38	
R3-14	o1	$^1 ((6.23-0.00)^2 + (167.73-168.16)^2)$	6.24	6.24	
R3-15	o1	$^1 ((5.84-0.08)^2 + (168.01-168.39)^2)$	5.77	5.77	
R3-16	o1	$^1 ((6.14-0.00)^2 + (168.71-169.04)^2)$	6.15	6.15	
Il Direttore dei Lavori		L'Impresa			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		COMPUTO DEI VOLUMI			Foglio n. 28			
VEGETALE IN RILEVATO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
R3-1	R3-2	R3-1	C1	1.82	20.00	10.00	18.200	18.200
R3-4	R3-5	R3-5	C1	0.40	12.25	6.13	2.452	2.452
R3-5	R3-6	R3-5	C1	0.40	7.75	3.88	1.552	4.772
52.25	60.00	R3-6	C1	0.83	7.75	3.88	3.220	
R3-6	R3-7	R3-6	C1	0.83	20.00	10.00	8.300	30.600
60.00	80.00	R3-7	C1	2.23	20.00	10.00	22.300	
R3-7	R3-8	R3-7	C1	2.23	5.26	2.63	5.865	13.439
80.00	85.26	R3-8	C1	2.88	5.26	2.63	7.574	
R3-8	R3-9	R3-8	C1	2.88	14.74	7.37	21.226	42.452
85.26	100.00	R3-9	C1	2.88	14.74	7.37	21.226	
R3-9	R3-10	R3-9	C1	2.88	18.27	9.13	26.294	77.331
100.00	118.27	R3-10	C1	4.03	18.27	9.13	36.794	
		R3-10	C2	1.56	18.27	9.13	14.243	
R3-10	R3-11	R3-10	C1	4.03	1.73	0.87	3.506	9.430
118.27	120.00	R3-10	C2	1.56	1.73	0.87	1.357	
		R3-11	C1	3.63	1.73	0.87	3.158	
		R3-11	C2	1.62	1.73	0.87	1.409	
R3-11	R3-12	R3-11	C1	3.63	15.85	7.92	28.750	62.410
120.00	135.85	R3-11	C2	1.62	15.85	7.92	12.830	
		R3-12	C1	1.13	15.85	7.92	8.950	
		R3-12	C2	1.50	15.85	7.92	11.880	
R3-12	R3-13	R3-12	C1	1.13	4.15	2.08	2.350	9.256
135.85	140.00	R3-12	C2	1.50	4.15	2.08	3.120	
		R3-13	C1	0.72	4.15	2.08	1.498	
		R3-13	C2	1.10	4.15	2.08	2.288	
R3-13	R3-14	R3-13	C1	0.72	13.43	6.72	4.838	12.230
140.00	153.43	R3-13	C2	1.10	13.43	6.72	7.392	
Il Direttore dei Lavori			L'Impresa		TOTALE ARTICOLO			282.572

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		COMPUTO DEI VOLUMI			Foglio n. 29			
GRADONATURA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	AREA	DISTANZA SEZIONI m	DISTANZA DI CALCOLO m	VOLUME PARZIALE mc	VOLUME TOTALE mc
R3-9	R3-10	R3-10	O1	1.63	18.27	9.13	14.882	14.882
R3-10	R3-11	R3-10	O1	1.63	1.73	0.87	1.418	
118.27	120.00	R3-11	O1	1.52	1.73	0.87	1.322	2.740
R3-11	R3-12	R3-11	O1	1.52	15.85	7.92	12.038	12.038
R3-12	R3-13	R3-13	O1	1.29	4.15	2.08	2.683	
135.85	140.00	R3-13	O2	0.31	4.15	2.08	0.645	3.328
R3-13	R3-14	R3-13	O1	1.29	13.43	6.72	8.669	
140.00	153.43	R3-13	O2	0.31	13.43	6.72	2.083	10.752
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			43.740

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		COMPUTO DI SUPERFICI				Foglio n. 30			
SEMINA									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
R3-1	R3-2	R3-1	a1	6.25	20.00	10.00	62.50		62.50
R3-4	R3-5	R3-5	a1	1.64	12.25	6.13	10.05		10.05
R3-5	R3-6	R3-5	a1	1.64	7.75	3.88	6.36		17.30
52.25	60.00	R3-6	a1	2.82	7.75	3.88	10.94		
R3-6	R3-7	R3-6	a1	2.82	20.00	10.00	28.20		103.20
60.00	80.00	R3-7	a1	7.50	20.00	10.00	75.00		
R3-7	R3-8	R3-7	a1	7.50	5.26	2.63	19.72		44.94
80.00	85.26	R3-8	a1	9.59	5.26	2.63	25.22		
R3-8	R3-9	R3-8	a1	9.59	14.74	7.37	70.68		141.36
85.26	100.00	R3-9	a1	9.59	14.74	7.37	70.68		
R3-9	R3-10	R3-9	a1	9.59	18.27	9.13	87.56		260.75
100.00	118.27	R3-10	a1	13.48	18.27	9.13	123.07		
R3-10	R3-11	R3-10	a2	5.49	18.27	9.13	50.12		
118.27	120.00	R3-10	a1	13.48	1.73	0.87	11.73		32.02
R3-10	R3-11	R3-10	a2	5.49	1.73	0.87	4.78		
120.00	135.85	R3-11	a1	12.17	1.73	0.87	10.59		
R3-11	R3-12	R3-11	a2	5.65	1.73	0.87	4.92		
120.00	135.85	R3-11	a1	12.17	15.85	7.92	96.39		213.13
R3-11	R3-12	R3-11	a2	5.65	15.85	7.92	44.75		
135.85	140.00	R3-12	a1	3.85	15.85	7.92	30.49		
R3-12	R3-13	R3-12	a2	5.24	15.85	7.92	41.50		
135.85	140.00	R3-12	a1	3.85	4.15	2.08	8.01		32.60
R3-12	R3-13	R3-12	a2	5.24	4.15	2.08	10.90		
140.00	153.43	R3-13	a1	2.48	4.15	2.08	5.16		
R3-12	R3-13	R3-13	a2	4.10	4.15	2.08	8.53		
140.00	153.43	R3-13	a1	2.48	13.43	6.72	16.67		44.22
R3-13	R3-14	R3-13	a2	4.10	13.43	6.72	27.55		
140.00	153.43	R3-13	a2	4.10	13.43	6.72	27.55		
Il Direttore dei Lavori			L'Impresa			TOTALE ARTICOLO		962.07	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		COMPUTO DI SUPERFICI				Foglio n. 31			
SEMINA									
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq	
R3-1	R3-2	R3-2	b1	6.21	20.00	10.00	62.10	62.10	
R3-2	R3-3	R3-2	b1	6.21	6.12	3.06	19.00		
20.00	26.12	R3-3	b1	7.72	6.12	3.06	23.62	42.62	
R3-3	R3-4	R3-3	b1	7.72	13.88	6.94	53.58		
26.12	40.00	R3-4	b1	9.22	13.88	6.94	63.99	117.57	
R3-4	R3-5	R3-4	b1	9.22	12.25	6.13	56.52	56.52	
R3-5	R3-6	R3-6	b1	0.50	7.75	3.88	1.94	1.94	
R3-6	R3-7	R3-6	b1	0.50	20.00	10.00	5.00		
60.00	80.00	R3-7	b1	23.95	20.00	10.00	239.50	244.50	
R3-7	R3-8	R3-7	b1	23.95	5.26	2.63	62.99		
80.00	85.26	R3-8	b1	22.33	5.26	2.63	58.73	121.72	
R3-8	R3-9	R3-8	b1	22.33	14.74	7.37	164.57		
85.26	100.00	R3-9	b1	20.78	14.74	7.37	153.15	317.72	
R3-9	R3-10	R3-9	b1	20.78	18.27	9.13	189.72	189.72	
R3-13	R3-14	R3-14	b1	4.71	13.43	6.72	31.65	31.65	
R3-14	R3-15	R3-14	b1	4.71	6.57	3.28	15.45		
153.43	160.00	R3-15	b1	5.74	6.57	3.28	18.83	34.28	
R3-15	R3-16	R3-15	b1	5.74	20.00	10.00	57.40		
160.00	180.00	R3-16	b1	7.52	20.00	10.00	75.20	132.60	
R3-16	R3-17	R3-16	b1	7.52	11.78	5.89	44.29	44.29	
Il Direttore dei Lavori			L'Impresa			TOTALE ARTICOLO		1397.23	

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		COMPUTO DI SUPERFICI			Foglio n. 32			
SCOTICO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R3-1	R3-2	R3-1	c1	10.71	20.00	10.00	107.10	107.10
R3-4	R3-5	R3-5	c1	0.35	12.25	6.13	2.15	2.15
R3-5	R3-6	R3-5	c1	0.35	7.75	3.88	1.36	1.36
R3-9	R3-10	R3-10	c1	15.99	18.27	9.13	145.99	207.43
100.00	118.27	R3-10	c2	6.73	18.27	9.13	61.44	
R3-10	R3-11	R3-10	c1	15.99	1.73	0.87	13.91	38.73
118.27	120.00	R3-10	c2	6.73	1.73	0.87	5.86	
		R3-11	c1	16.23	1.73	0.87	14.12	
		R3-11	c2	5.56	1.73	0.87	4.84	
R3-11	R3-12	R3-11	c1	16.23	15.85	7.92	128.54	304.84
120.00	135.85	R3-11	c2	5.56	15.85	7.92	44.04	
		R3-12	c1	16.70	15.85	7.92	132.26	
R3-12	R3-13	R3-12	c1	16.70	4.15	2.08	34.74	55.23
135.85	140.00	R3-13	c1	7.51	4.15	2.08	15.62	
		R3-13	c2	2.34	4.15	2.08	4.87	
R3-13	R3-14	R3-13	c1	7.51	13.43	6.72	50.47	66.19
140.00	153.43	R3-13	c2	2.34	13.43	6.72	15.72	
Il Direttore dei Lavori			L'Impresa		TOTALE ARTICOLO			783.03

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		COMPUTO DI SUPERFICI			Foglio n. 33			
SCOTICO SU GRADONATURA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R3-9	R3-10	R3-10	e1	3.34	18.27	9.13	30.49	30.49
R3-10	R3-11	R3-10	e1	3.34	1.73	0.87	2.91	
118.27	120.00	R3-11	e1	3.22	1.73	0.87	2.80	5.71
R3-11	R3-12	R3-11	e1	3.22	15.85	7.92	25.50	25.50
R3-12	R3-13	R3-13	e1	4.32	4.15	2.08	8.99	8.99
R3-13	R3-14	R3-13	e1	4.32	13.43	6.72	29.03	29.03
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			99.72

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		COMPUTO DI SUPERFICI			Foglio n. 34			
BONIFICA RILEVATO								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R3-1	R3-2	R3-1	f1	10.71	20.00	10.00	107.10	107.10
R3-4	R3-5	R3-5	f1	0.35	12.25	6.13	2.15	2.15
R3-5	R3-6	R3-5	f1	0.35	7.75	3.88	1.36	1.36
R3-9	R3-10	R3-10	f1	15.99	18.27	9.13	145.99	207.43
100.00	118.27	R3-10	f2	6.73	18.27	9.13	61.44	
R3-10	R3-11	R3-10	f1	15.99	1.73	0.87	13.91	38.73
118.27	120.00	R3-10	f2	6.73	1.73	0.87	5.86	
		R3-11	f1	16.23	1.73	0.87	14.12	
		R3-11	f2	5.56	1.73	0.87	4.84	
R3-11	R3-12	R3-11	f1	16.23	15.85	7.92	128.54	304.84
120.00	135.85	R3-11	f2	5.56	15.85	7.92	44.04	
		R3-12	f1	16.70	15.85	7.92	132.26	
R3-12	R3-13	R3-12	f1	16.70	4.15	2.08	34.74	55.23
135.85	140.00	R3-13	f1	7.51	4.15	2.08	15.62	
		R3-13	f2	2.34	4.15	2.08	4.87	
R3-13	R3-14	R3-13	f1	7.51	13.43	6.72	50.47	66.19
140.00	153.43	R3-13	f2	2.34	13.43	6.72	15.72	
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			783.03

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		COMPUTO DI SUPERFICI				Foglio n. 35		
USURA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R3-1 0.00	R3-2 20.00	R3-1 R3-2	gl gl	5.40 5.51	20.00 20.00	10.00 10.00	54.00 55.10	109.10
R3-2 20.00	R3-3 26.12	R3-2 R3-3	gl gl	5.51 5.51	6.12 6.12	3.06 3.06	16.86 16.86	
R3-3 26.12	R3-4 40.00	R3-3 R3-4	gl gl	5.51 5.51	13.88 13.88	6.94 6.94	38.24 38.24	76.48
R3-4 40.00	R3-5 52.25	R3-4 R3-5	gl gl	5.51 7.65	12.25 12.25	6.13 6.13	33.78 46.89	
R3-5 52.25	R3-6 60.00	R3-5 R3-6	gl gl	7.65 7.10	7.75 7.75	3.88 3.88	29.68 27.55	57.23
R3-6 60.00	R3-7 80.00	R3-6 R3-7	gl gl	7.10 6.75	20.00 20.00	10.00 10.00	71.00 67.50	
R3-7 80.00	R3-8 85.26	R3-7 R3-8	gl gl	6.75 6.75	5.26 5.26	2.63 2.63	17.75 17.75	35.50
R3-8 85.26	R3-9 100.00	R3-8 R3-9	gl gl	6.75 6.75	14.74 14.74	7.37 7.37	49.75 49.75	
R3-9 100.00	R3-10 118.27	R3-9 R3-10	gl gl	6.75 7.91	18.27 18.27	9.13 9.13	61.63 72.22	133.85
R3-10 118.27	R3-11 120.00	R3-10 R3-11	gl gl	7.91 8.02	1.73 1.73	0.87 0.87	6.88 6.98	
R3-11 120.00	R3-12 135.85	R3-11 R3-12	gl gl	8.02 8.29	15.85 15.85	7.92 7.92	63.52 65.66	129.18
R3-12 135.85	R3-13 140.00	R3-12 R3-13	gl gl	8.29 8.16	4.15 4.15	2.08 2.08	17.24 16.97	
R3-13 140.00	R3-14 153.43	R3-13 R3-14	gl gl	8.16 6.24	13.43 13.43	6.72 6.72	54.84 41.93	96.77
R3-14 153.43	R3-15 160.00	R3-14 R3-15	gl gl	6.24 5.85	6.57 6.57	3.28 3.28	20.47 19.19	
R3-15 160.00	R3-16 180.00	R3-15 R3-16	gl gl	5.85 6.15	20.00 20.00	10.00 10.00	58.50 61.50	120.00
R3-16 180.00	R3-17 191.78	R3-16 R3-17	gl gl	6.15 6.26	11.78 11.78	5.89 5.89	36.22 36.87	
								73.09
Il Direttore dei Lavori			L'Impresa			TOTALE ARTICOLO		1271.32

TABULATI MOVIMENTI MATERIA

Codice documento
SS0760_F0.doc

Rev
F0

Data
20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		COMPUTO DI SUPERFICI				Foglio n. 36		
BINDER								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R3-1 0.00	R3-2 20.00	R3-1 R3-2	h1 h1	5.50 5.51	20.00 20.00	10.00 10.00	55.00 55.10	110.10
R3-2 20.00	R3-3 26.12	R3-2 R3-3	h1 h1	5.51 5.51	6.12 6.12	3.06 3.06	16.86 16.86	33.72
R3-3 26.12	R3-4 40.00	R3-3 R3-4	h1 h1	5.51 5.51	13.88 13.88	6.94 6.94	38.24 38.24	76.48
R3-4 40.00	R3-5 52.25	R3-4 R3-5	h1 h1	5.51 7.70	12.25 12.25	6.13 6.13	33.78 47.20	80.98
R3-5 52.25	R3-6 60.00	R3-5 R3-6	h1 h1	7.70 7.15	7.75 7.75	3.88 3.88	29.88 27.74	57.62
R3-6 60.00	R3-7 80.00	R3-6 R3-7	h1 h1	7.15 6.80	20.00 20.00	10.00 10.00	71.50 68.00	139.50
R3-7 80.00	R3-8 85.26	R3-7 R3-8	h1 h1	6.80 6.80	5.26 5.26	2.63 2.63	17.88 17.88	35.76
R3-8 85.26	R3-9 100.00	R3-8 R3-9	h1 h1	6.80 6.80	14.74 14.74	7.37 7.37	50.12 50.12	100.24
R3-9 100.00	R3-10 118.27	R3-9 R3-10	h1 h1	6.80 8.11	18.27 18.27	9.13 9.13	62.08 74.04	136.12
R3-10 118.27	R3-11 120.00	R3-10 R3-11	h1 h1	8.11 8.22	1.73 1.73	0.87 0.87	7.06 7.15	14.21
R3-11 120.00	R3-12 135.85	R3-11 R3-12	h1 h1	8.22 8.49	15.85 15.85	7.92 7.92	65.10 67.24	132.34
R3-12 135.85	R3-13 140.00	R3-12 R3-13	h1 h1	8.49 8.36	4.15 4.15	2.08 2.08	17.66 17.39	35.05
R3-13 140.00	R3-14 153.43	R3-13 R3-14	h1 h1	8.36 6.24	13.43 13.43	6.72 6.72	56.18 41.93	98.11
R3-14 153.43	R3-15 160.00	R3-14 R3-15	h1 h1	6.24 5.85	6.57 6.57	3.28 3.28	20.47 19.19	39.66
R3-15 160.00	R3-16 180.00	R3-15 R3-16	h1 h1	5.85 6.15	20.00 20.00	10.00 10.00	58.50 61.50	120.00
R3-16 180.00	R3-17 191.78	R3-16 R3-17	h1 h1	6.15 6.26	11.78 11.78	5.89 5.89	36.22 36.87	73.09
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			1282.98

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		COMPUTO DI SUPERFICI				Foglio n. 37		
BASE								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R3-1 0.00	R3-2 20.00	R3-1 R3-2	i1 i1	5.73 5.51	20.00 20.00	10.00 10.00	57.30 55.10	112.40
R3-2 20.00	R3-3 26.12	R3-2 R3-3	i1 i1	5.51 5.51	6.12 6.12	3.06 3.06	16.86 16.86	
R3-3 26.12	R3-4 40.00	R3-3 R3-4	i1 i1	5.51 5.51	13.88 13.88	6.94 6.94	38.24 38.24	76.48
R3-4 40.00	R3-5 52.25	R3-4 R3-5	i1 i1	5.51 7.85	12.25 12.25	6.13 6.13	33.78 48.12	81.90
R3-5 52.25	R3-6 60.00	R3-5 R3-6	i1 i1	7.85 7.30	7.75 7.75	3.88 3.88	30.46 28.32	58.78
R3-6 60.00	R3-7 80.00	R3-6 R3-7	i1 i1	7.30 6.96	20.00 20.00	10.00 10.00	73.00 69.60	142.60
R3-7 80.00	R3-8 85.26	R3-7 R3-8	i1 i1	6.96 6.95	5.26 5.26	2.63 2.63	18.30 18.28	36.58
R3-8 85.26	R3-9 100.00	R3-8 R3-9	i1 i1	6.95 6.94	14.74 14.74	7.37 7.37	51.22 51.15	102.37
R3-9 100.00	R3-10 118.27	R3-9 R3-10	i1 i1	6.94 8.61	18.27 18.27	9.13 9.13	63.36 78.61	141.97
R3-10 118.27	R3-11 120.00	R3-10 R3-11	i1 i1	8.61 8.72	1.73 1.73	0.87 0.87	7.49 7.59	15.08
R3-11 120.00	R3-12 135.85	R3-11 R3-12	i1 i1	8.72 8.99	15.85 15.85	7.92 7.92	69.06 71.20	140.26
R3-12 135.85	R3-13 140.00	R3-12 R3-13	i1 i1	8.99 8.86	4.15 4.15	2.08 2.08	18.70 18.43	37.13
R3-13 140.00	R3-14 153.43	R3-13 R3-14	i1 i1	8.86 6.24	13.43 13.43	6.72 6.72	59.54 41.93	101.47
R3-14 153.43	R3-15 160.00	R3-14 R3-15	i1 i1	6.24 5.85	6.57 6.57	3.28 3.28	20.47 19.19	39.66
R3-15 160.00	R3-16 180.00	R3-15 R3-16	i1 i1	5.85 6.15	20.00 20.00	10.00 10.00	58.50 61.50	120.00
R3-16 180.00	R3-17 191.78	R3-16 R3-17	i1 i1	6.15 6.26	11.78 11.78	5.89 5.89	36.22 36.87	73.09
Il Direttore dei Lavori			L'Impresa			TOTALE ARTICOLO		1313.49

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		COMPUTO DI SUPERFICI				Foglio n. 38		
FONDAZIONE								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R3-1 0.00	R3-2 20.00	R3-1 R3-2	mL mL	6.15 5.51	20.00 20.00	10.00 10.00	61.50 55.10	116.60
R3-2 20.00	R3-3 26.12	R3-2 R3-3	mL mL	5.51 5.51	6.12 6.12	3.06 3.06	16.86 16.86	
R3-3 26.12	R3-4 40.00	R3-3 R3-4	mL mL	5.51 5.51	13.88 13.88	6.94 6.94	38.24 38.24	76.48
R3-4 40.00	R3-5 52.25	R3-4 R3-5	mL mL	5.51 8.30	12.25 12.25	6.13 6.13	33.78 50.88	84.66
R3-5 52.25	R3-6 60.00	R3-5 R3-6	mL mL	8.30 7.75	7.75 7.75	3.88 3.88	32.20 30.07	62.27
R3-6 60.00	R3-7 80.00	R3-6 R3-7	mL mL	7.75 7.40	20.00 20.00	10.00 10.00	77.50 74.00	151.50
R3-7 80.00	R3-8 85.26	R3-7 R3-8	mL mL	7.40 7.40	5.26 5.26	2.63 2.63	19.46 19.46	38.92
R3-8 85.26	R3-9 100.00	R3-8 R3-9	mL mL	7.40 7.38	14.74 14.74	7.37 7.37	54.54 54.39	108.93
R3-9 100.00	R3-10 118.27	R3-9 R3-10	mL mL	7.38 9.51	18.27 18.27	9.13 9.13	67.38 86.83	154.21
R3-10 118.27	R3-11 120.00	R3-10 R3-11	mL mL	9.51 9.63	1.73 1.73	0.87 0.87	8.27 8.38	16.65
R3-11 120.00	R3-12 135.85	R3-11 R3-12	mL mL	9.63 9.90	15.85 15.85	7.92 7.92	76.27 78.41	154.68
R3-12 135.85	R3-13 140.00	R3-12 R3-13	mL mL	9.90 9.76	4.15 4.15	2.08 2.08	20.59 20.30	40.89
R3-13 140.00	R3-14 153.43	R3-13 R3-14	mL mL	9.76 6.24	13.43 13.43	6.72 6.72	65.59 41.93	107.52
R3-14 153.43	R3-15 160.00	R3-14 R3-15	mL mL	6.24 5.85	6.57 6.57	3.28 3.28	20.47 19.19	39.66
R3-15 160.00	R3-16 180.00	R3-15 R3-16	mL mL	5.85 6.15	20.00 20.00	10.00 10.00	58.50 61.50	120.00
R3-16 180.00	R3-17 191.78	R3-16 R3-17	mL mL	6.15 6.26	11.78 11.78	5.89 5.89	36.22 36.87	73.09
Il Direttore dei Lavori		L'Impresa			TOTALE ARTICOLO			1379.78

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		COMPUTO DI SUPERFICI			Foglio n. 39			
BONIFICA TRINCEA								
DALLA SEZ. DA PROG.	ALLA SEZ. A PROG.	SEZIONE	FIGURA	LUNGHEZZA	DISTANZA SEZIONI mL	DISTANZA DI CALCOLO mL	AREA PARZIALE mq	AREA TOTALE mq
R3-1	R3-2	R3-2	o1	5.51	20.00	10.00	55.10	55.10
R3-2	R3-3	R3-2	o1	5.51	6.12	3.06	16.86	33.72
20.00	26.12	R3-3	o1	5.51	6.12	3.06	16.86	
R3-3	R3-4	R3-3	o1	5.51	13.88	6.94	38.24	76.48
26.12	40.00	R3-4	o1	5.51	13.88	6.94	38.24	
R3-4	R3-5	R3-4	o1	5.51	12.25	6.13	33.78	84.66
40.00	52.25	R3-5	o1	8.30	12.25	6.13	50.88	
R3-5	R3-6	R3-5	o1	8.30	7.75	3.88	32.20	62.27
52.25	60.00	R3-6	o1	7.75	7.75	3.88	30.07	
R3-6	R3-7	R3-6	o1	7.75	20.00	10.00	77.50	151.50
60.00	80.00	R3-7	o1	7.40	20.00	10.00	74.00	
R3-7	R3-8	R3-7	o1	7.40	5.26	2.63	19.46	38.92
80.00	85.26	R3-8	o1	7.40	5.26	2.63	19.46	
R3-8	R3-9	R3-8	o1	7.40	14.74	7.37	54.54	108.93
85.26	100.00	R3-9	o1	7.38	14.74	7.37	54.39	
R3-9	R3-10	R3-9	o1	7.38	18.27	9.13	67.38	67.38
R3-13	R3-14	R3-14	o1	6.24	13.43	6.72	41.93	41.93
R3-14	R3-15	R3-14	o1	6.24	6.57	3.28	20.47	39.40
153.43	160.00	R3-15	o1	5.77	6.57	3.28	18.93	
R3-15	R3-16	R3-15	o1	5.77	20.00	10.00	57.70	119.20
160.00	180.00	R3-16	o1	6.15	20.00	10.00	61.50	
R3-16	R3-17	R3-16	o1	6.15	11.78	5.89	36.22	36.22
Il Direttore dei Lavori			L'Impresa		TOTALE ARTICOLO			915.71

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

		COMPUTO DEI VOLUMI	Foglio n. 40
Volume dalla sezione R3-1 alla sezione R3-17			
ARTICOLO		VOLUME	
STERRO	mc	6747.273	
RIPORTO	mc	1595.668	
VEGETALE IN RILEVATO	mc	282.572	
GRADONATURA	mc	43.740	
SEMINA	mq	962.07	
SEMINA	mq	1397.23	
SCOTICO	mq	783.03	
SCOTICO SU GRADONATURA	mq	99.72	
BONIFICA RILEVATO	mq	783.03	
USURA	mq	1271.32	
BINDER	mq	1282.98	
BASE	mq	1313.49	
FONDAZIONE	mq	1379.78	
BONIFICA TRINCEA	mq	915.71	
<p>Nota : I valori di sterro e riporto calcolati si riferiscono ad un pacchetto di pavimentazione da 70 cm. Di seguito si riporta la tabella con il calcolo dei movimenti materia riferiti al pacchetto di pavimentazione di spessore 57 cm.</p>			

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
TABULATI MOVIMENTI MATERIA		<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Modifica valori movimenti materia

Di seguito si riporta il calcolo per la determinazione dei valori di sterro e riporto riferiti al pacchetto di pavimentazione da 57 cm.

RIF.	ARTICOLO	SUPERFICIE (m ²)	Δh Pavimentazione (m)	VOLUME (m ³)	NOTE
A	STERRO (Da computazione sezioni trasversali con spessore cassonetto = 70 cm)	-	-	6747,273	
B	RIPORTO (Da computazione sezioni trasversali con spessore cassonetto = 70 cm)	-	-	1595,668	
C	SUPERFICIE DI IMPOSTA CASSONETTO (Da computo computo sezioni trasversali)	1379,78	-	-	(1)
D	SUPERFICIE DI IMPOSTA CASSONETTO IN TRINCEA (Da computo computo sezioni trasversali)	915,71	-	-	(2)
E	SUPERFICIE DI IMPOSTA CASSONETTO IN RILEVATO	464,07	-	-	(3)
F	VARIAZIONE STERRO (Per pavimentazione spessore = 57 cm)	915,71	0,13	119,04	(4)
G	VARIAZIONE RIPORTO (Per pavimentazione spessore = 57 cm)	464,07	0,13	60,33	(5)
H	STERRO (Pavimentazione spessore = 57 cm)	-	-	6628,231	(6)
I	RIPORTO (Pavimentazione spessore = 57 cm)	-	-	1655,997	(7)

Nota 1 : Il valore (C) è coincidente con la superficie dell'articolo di computo "Fondazione"
(vedi tabella riassuntiva pagina precedente)

Nota 2 : Il valore (D) è coincidente con la superficie dell'articolo di computo "Bonifica trincea"
(vedi tabella riassuntiva pagina precedente)

Nota 3 : Il valore (E) è determinato dalla differenza fra la superfici C - D

Nota 4 : Il valore (F) è il volume calcolato dal prodotto tra la superficie "D" e la variazione di spessore tra il pacchetto di pavimentazione da 70 cm e 57 cm

Nota 5 : Il valore (G) è il volume calcolato dal prodotto tra la superficie "E" e la variazione di spessore tra il pacchetto di pavimentazione da 70 cm e 57 cm

Nota 6 : Il valore (H) è il volume totale di sterro calcolato come A-H

Nota 7 : Il valore (I) è il volume totale di riporto calcolato come B+G

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO	
TABULATI MOVIMENTI MATERIA	<i>Codice documento</i> SS0760_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

TABELLA RIEPILOGATIVA COMPUTI

COLLEGAMENTI VERSANTE SICILIA - SVINCOLO ANNUNZIATA - RAMPA 3

COMPUTO DEI VOLUMI		Foglio n. 40	
Volume dalla sezione R3-1 alla sezione R3-17			
ARTICOLO	VOLUME		
STERRO	mc	6628.231	
RIPORTO	mc	1655.997	
VEGETALE IN RILEVATO	mc	282.572	
GRADONATURA	mc	43.740	
SEMINA	mq	962.07	
SEMINA	mq	1397.23	
SCOTICO	mq	783.03	
SCOTICO SU GRADONATURA	mq	99.72	
BONIFICA RILEVATO	mq	783.03	
USURA	mq	1271.32	
BINDER	mq	1282.98	
BASE	mq	1313.49	
FONDAZIONE	mq	1379.78	
BONIFICA TRINCEA	mq	915.71	

		<p align="center">Ponte sullo Stretto di Messina PROGETTO DEFINITIVO</p>		
<p align="center">TABULATI MOVIMENTI MATERIA</p>		<p><i>Codice documento</i> SS0760_F0.doc</p>	<p><i>Rev</i> F0</p>	<p><i>Data</i> 20/06/2011</p>