



PONTE SULLO STRETTO DI MESSINA



PROGETTO DEFINITIVO

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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 LATO SICILIA</p> <p>INFRASTRUTTURE STRADALI - OPERE CIVILI</p> <p>ELEMENTI DI CARATTERE GENERALE</p> <p>VIADOTTO PACE - DIREZIONE REGGIO CALABRIA</p> <p>RELAZIONE DI CALCOLO OPERE PROVVISORIALI</p>	<p>SS0414_F0</p>
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CODICE	C G 0 7 0 0 P C L D S S C 0 0 V I V 1 0 0 0 0 0 2 F 0
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REV	DATA	DESCRIZIONE	REDATTO	VERIFICATO	APPROVATO
F0	20/06/2011	EMISSIONE FINALE	R. PASSADORE	G. SCIUTO	F. COLLA

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1 INTRODUZIONE

Si realizzano opere provvisorie con micropali affiancati a costituire una berlinese a protezione degli scavi. L'analisi delle sollecitazioni e la verifica dei tubi di armatura è svolta con il codice di calcolo non lineare Plaxis.

1.1 DESCRIZIONE DEL CODICE DI CALCOLO PLAXIS

Lo sviluppo del codice di calcolo PLAXIS è iniziato nel 1987 presso il Politecnico di Delft, su iniziativa del Dutch Department of Public Works and Water Management.

Originariamente concepito come un codice di calcolo agli elementi finiti per l'analisi dei corpi arginali e dei terreni molli dei polders olandesi, è stato successivamente ampliato per coprire la maggior parte delle problematiche di ingegneria geotecnica.

Nel 1993 è stata formata una società, denominata PLAXIS BV, per lo sviluppo continuo del codice di calcolo.

La ricerca e lo sviluppo sono finanziati grazie agli introiti da nuove licenze, ma soprattutto grazie al CUR (Center for Civil Engineering Research and Codes), un consorzio di più di 30 società europee interessate allo strumento di calcolo che forniscono, oltre al supporto economico, anche il necessario collegamento con la realtà applicativa e la validazione sul campo.

Il codice di calcolo è supportato da un valido background scientifico ed il suo standard tecnico è mantenuto costantemente elevato grazie al contributo delle numerose strutture di ricerca che collaborano direttamente allo sviluppo. Tra queste si ricorda la Delft University of Technology (Olanda), l'Institut für Geotechnik di Stoccarda (Germania), l'Università di Oxford (Gran Bretagna), il Massachusetts Institute of Technology (USA), l'Università di Grenoble (Francia), ecc.

1.1.1 *Modellazione del comportamento del terreno*

PLAXIS è un codice di calcolo non lineare agli elementi finiti espressamente concepito per i problemi di ingegneria geotecnica (problemi deformativi e filtrazione/consolidazione nei terreni e nelle rocce).

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Il comportamento meccanico dei terreni può essere descritto attraverso diversi modelli che forniscono approcci più o meno accurati.

1.1.2 *Modello elastico lineare ed elastoplastico lineare*

L'approccio più semplice è quello elastico lineare isotropo, che si basa su due soli parametri, il modulo di Young E e il rapporto di Poisson; il modello elastico lineare, tuttavia, non è sempre valido per trattare i problemi deformativi dei terreni, in particolare quando le deformazioni sono significative.

Un approccio più affine al comportamento reale dei terreni è quello descritto dal modello di Mohr-Coulomb; si tratta di un modello elastoplastico lineare (elastico – perfettamente plastico) che si basa su cinque parametri, di cui due descrittivi il comportamento elastico (E , ν) analogamente al modello lineare, due il comportamento plastico (φ e c , rispettivamente angolo di attrito interno e coesione) ed uno (ψ) la dilatanza del materiale. Tale modello è stato utilizzato nella presente analisi.

1.1.3 *Modello incrudente isotropo*

Per descrivere il comportamento dei terreni coesivi, fortemente dipendente dalla storia tensionale, nel codice PLAXIS è disponibile un modello incrudente, in grado di rappresentare l'incrudimento isotropo del materiale mediante l'espansione della superficie di snervamento descritta alla Mohr-Coulomb. Oltre ai parametri impiegati nel modello Mohr-Coulomb, il modello incrudente necessita di ulteriori parametri descrittivi il comportamento elastico (il modulo E è infatti dipendente dallo stato tensionale), cioè $E_{50,ref}$, modulo di deformazione ricavato da compressione in cella triassiale al 50 % della rottura per una tensione di contenimento di 100 kPa, E_{ur} , modulo di deformazione ricavato da prove di estensione per scarico in cella triassiale, e $E_{oed,ref}$, modulo di deformazione in cella edometrica ricavato sulla curva di compressione vergine.

1.1.4 *Modello viscoplastico*

Per lo studio dei terreni coesivi e, in particolare, dei problemi di deformazione viscosa e di consolidazione si fa riferimento al modello SSC (Soft Soil Creep), la cui principale peculiarità consiste nel tener conto di:

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- rigidezza variabile in funzione del livello di sollecitazione (curva di compressione logaritmica);
- distinzione tra curva di carico e di scarico;
- compressione secondaria viscosa;
- memoria della tensione di preconsolidazione;
- rottura secondo il criterio di Mohr-Coulomb.

Il modello necessita di ulteriori parametri per descrivere il comportamento deformativo dei terreni.

2 **NORMATIVE DI RIFERIMENTO E MATERIALI**

2.1 **NORMATIVA ADOTTATA**

I calcoli delle strutture sono stati eseguiti in base alle seguenti disposizioni:

- Legge 5/11/1971 n° 1086: "Norme per le discipline delle opere di conglomerato cementizio armato normale e precompresso ed a struttura metallica".
- D.M. 04/05/1990: "Aggiornamento delle norme tecniche per la progettazione, la esecuzione e il collaudo dei ponti stradali".
- Ministero LL.PP. 25/02/1991: "Istruzioni relative alla normativa tecnica dei ponti stradali".
- D.M. 9/01/1996: "Norme tecniche per il calcolo, l'esecuzione ed il collaudo delle opere in cemento armato normale e precompresso e per le strutture metalliche".
- D.M. 16/01/1996: Norme tecniche per le costruzioni in zone sismiche.
- C.N.R. - U.N.I. 10011 - 97: "Costruzioni in acciaio. Istruzioni per il calcolo, l'esecuzione, il collaudo e la manutenzione".
- C.N.R. - U.N.I. 10016 - 00: "Travi composte di acciaio e calcestruzzo. Istruzioni per l'impiego nelle costruzioni".
- C.N.R. - U.N.I. 10030 - 87: "Costruzioni in acciaio. Anime irrigidite di travi a parete piena".
- Circ. Min. LL.PP. n° 31104 del 16 marzo 1989 "Istruzioni in merito alle norme tecniche per la progettazione, esecuzione e collaudo delle costruzioni prefabbricate"
- Circ. Min. LL.PP. n° 65 del 10 aprile 1997 "Istruzioni per l'applicazione delle Norme Tecniche per le costruzioni in zone sismiche"
- C.N.R. 10018/99 – "Apparecchi d'appoggio per le costruzioni. Istruzioni per l'impiego"
- Ordinanza del Presidente del Consiglio dei Ministri N° 3274 del 20 marzo 2003. Primi elementi in materia di criteri generali per la classificazione sismica del territorio nazionale e di

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normative tecniche per le costruzioni in zona sismica;

- Ordinanza del Presidente del Consiglio dei Ministri del 02/10/2003 N. 3316 – “Modifiche ed integrazioni all’ordinanza del presidente del Consiglio dei Ministri n. 3274 del 20 marzo 2003”
- Ordinanza del Presidente del Consiglio dei Ministri del 02/10/2005 N. 3431 - Ulteriori modifiche e integrazioni alla precedente Ordinanza 3274 del 20 marzo 2003;
- O.P.C.M. n. 3519 28 aprile 2006 - Criteri generali per l'individuazione delle zone sismiche e per la formazione e l'aggiornamento degli elenchi delle medesime zone. (GU n. 108 del 11-5-2006)
- Norma UNI EN 206-1 : 2006 “Calcestruzzo. Parte 1 : specificazione, prestazione, produzione e conformità”
- Norma UNI EN 10025 – 2005 – “Prodotti laminati a caldo di acciai per impieghi strutturali.
- D.M. del 14/01/2008 - “Norme Tecniche per le Costruzioni 2008”

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2.2 MATERIALI

2.2.1 Calcestruzzi (Secondo UNI 11104 - 2004)

Per sottofondazioni

classe di resistenza

C12/15

classe di esposizione

XC0

Cordoli testa opere provvisionali

classe di resistenza

C32/40

modulo elastico

$E_{c\Box} = 36.050 \text{ N/mm}^2$

resistenza caratteristica a compressione cilindrica

$f_{ck} = 33,20 \text{ N/mm}^2$

resistenza media a compressione cilindrica

$f_{cm} = 39,84 \text{ N/mm}^2$

resistenza di calcolo a compressione

$f_{cd} = 18,81 \text{ N/mm}^2$

resistenza a trazione (valore medio)

$f_{ctm} = 3,16 \text{ N/mm}^2$

resistenza caratteristica a trazione

$f_{ctk} = 2,21 \text{ N/mm}^2$

resistenza caratteristica a trazione per flessione

$f_{ctk} = 2,65 \text{ N/mm}^2$

tensione a SLE – combinazione rara

$\sigma_C = 19,92 \text{ N/mm}^2$

tensione a SLE – combinazione quasi permanente

$\sigma_C = 14,94 \text{ N/mm}^2$

copriferro

$C = 40 \text{ mm}$

classe di esposizione

XC2

classe di consistenza slump

S4

max dimensione aggregati

$D_{max} = 32 \text{ mm}$

rapporto A/C massimo

0,50

Per il calcestruzzo ordinario armato si assume il seguente peso per unità di volume:

$$\rho'_{cls} = 25 \text{ kN/m}^3$$

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2.2.2 Acciaio per armature (Secondo NTC 2008 – D.M. 14/01/2008)

		B450C	
tensione caratteristica di snervamento	$f_{yk} =$	450	N/mm ²
tensione caratteristica di rottura	$f_{tk} =$	540	N/mm ²
resistenza di calcolo a trazione	$f_{yd} =$	391,30	N/mm ²
modulo elastico	$E_s =$	206.000	N/mm ²
deformazione caratteristica al carico massimo	$\epsilon_{uk} =$	7,50	%
deformazione di progetto	$\epsilon_{ud} =$	6,75	%
coeff. resistenza a instabilità delle membrature	$\gamma_m =$	1,10	

2.2.3 Acciaio per micropali

Elementi non saldati: acciaio S235 JO (ex 360 C) (UNI EN 10025)

L'acciaio deve essere conforme alle prescrizioni del D.M. 14.01.2008, dovendo presentare le seguenti caratteristiche (Tabella 11.3.IX, D.M. 14.01.2008):

Spessore nominale dell'elemento			
$t \leq 40$		$40 \text{ mm} < t \leq 80 \text{ mm}$	
f_{yk} [MPa]	f_{tk} [MPa]	f_{yk} [MPa]	f_{tk} [MPa]
235	360	215	360

Per la verifica in campo elastico, la resistenza di calcolo dell'acciaio si è assunta pari a :

$$f_{yd} = \frac{f_{yk}}{\gamma_M}$$

essendo

γ_M = coefficiente parziale di sicurezza per la resistenza delle membrature e la stabilità

Per il materiale	Elemento o tipo di verifica	γ_M
	Sezioni di classe 1-2-3-4	$\gamma_{M0} = 1.05$
	Fenomeni di instabilità	$\gamma_{M1} = 1.1$

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	Resistenza delle sezioni tese (indebolite dai fori)	$\gamma_{M2} = 1.25$
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Si sono utilizzati i seguenti valori nominali delle proprietà del materiale:

- modulo di elasticità $E = 210000 \text{ N/mm}^2$
- modulo di elasticità tangenziale $G = E / (2 \times (1 + \nu)) = 80769 \text{ N/mm}^2$
- coefficiente di Poisson $\nu = 0.3$
- coefficiente di espansione termica $\alpha = 12 \times 10^{-6} \text{ per } ^\circ\text{C}$
- densità $\rho = 7850 \text{ kg/m}^3$

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3 OPERE PROVVISORIE

3.1 Generalità

La paratia provvisoria di sostegno dello scavo necessario alla realizzazione delle pile del viadotto Pace, direzione Reggio Calabria, è stata verificata in accordo alla NTC 2008 ed in particolare:

- Stato Limite d'Esercizio SLE per la verifica degli spostamenti;
- Stato Limite Ultimo SLU-GEO per la verifica di stabilità della paratia;
- Stato Limite Ultimo SLU-STR per la verifica strutturale della paratia;
- Stato Limite Ultimo SLU-V (Sisma) per la verifica di stabilità e strutturale della paratia.

E' stato ipotizzato un carico accidentale pari a 10 kPa dovuto alla eventuale presenza di mezzi d'opera a monte della paratia, tale valore è stato incrementato con coefficienti parziali in accordo alle NTC2008 (1.5 per il caso SLU-STR e 1.3 per il caso SLU-GEO).

La paratia è caratterizzata da un'altezza di scavo di 4 m.

3.1.1 Caratterizzazione geotecnica

Dall'esame del profilo geotecnico le fondazioni dell'opera in esame appaiono intercettare solo la formazione denominata Ghiaie di Messina (elaborato grafico CG0800PFZDSSBC8G000000006B e figura precedentemente riportata).

Litologia	Da (m da p.c.)	A (m da p.c.)	Peso di volume γ (kN/m ³)	ϕ' (°)	E ** (MPa)
Ghiaie di Messina	0.00	-	19	38*	$E = (16 \div 42) z^{0.6}$

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Tab. 3.1.1 – Parametri geotecnici utilizzati

*valore cautelativo

** modulo di Young “operativo” – si considerano valori nel range per fronti di scavo sostenuti, opere di sostegno tirantate o puntonate; valori al minimo del range per fondazioni dirette, fondazioni su pali e rilevati.

La falda, analizzando i dati esistenti sui piezometri posizionati nelle vicinanze ed osservando i profili geotecnici, risulta assente.

Il valore della componente orizzontale dell’accelerazione equivalente per la verifica SLU-V (sisma) risulta pari a:

$$a_h = \alpha \cdot \beta \cdot a_{max} = 1 \cdot 0.6 \cdot 0.458 \cdot g = 0.2748 \cdot g$$

con

α = coefficiente di deformabilità del terreno

β = coefficiente funzione della capacità dell’opera di subire spostamenti

a_{max} = accelerazione di picco

I valori della tabella 3.1.1 sono stati ridotti con i coefficienti parziali per i parametri geotecnici secondo la NTC2008 nella verifica SLU-GEO.

3.1.2 Caratterizzazione micropali

- Diametro esterno tubolari: 193.7 mm
- Spessore: 14.2 mm
- Acciaio Fe360 (S235)
- Interasse micropali: 0.30 m
- Lunghezza micropali: 10 m

Nel codice di calcolo si è fatto riferimento ad una struttura a “diaframma”, di caratteristiche geometriche e rigidezza riassunte nella successiva tabella.

D_{ext}	193.7	mm
Spessore	14.2	mm
E_s A_s	5.761E+06	kN/m
E_s J_s	2.334E+04	kNm ² /ml

Tab. 3.1.2 – Caratteristiche paratia

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3.2 Descrizione delle fasi di scavo

La sequenza costruttiva, schematizzata nel modello, può essere così descritta:

1. Presenza di un sovraccarico accidentale (dovuto ai mezzi d'opera)
2. Realizzazione palificata (schematizzata come un diaframma di spessore e rigidità equivalenti a quelle dei micropali)
3. Completamento scavo

3.3 Risultati

3.3.1 Verifica degli spostamenti SLE

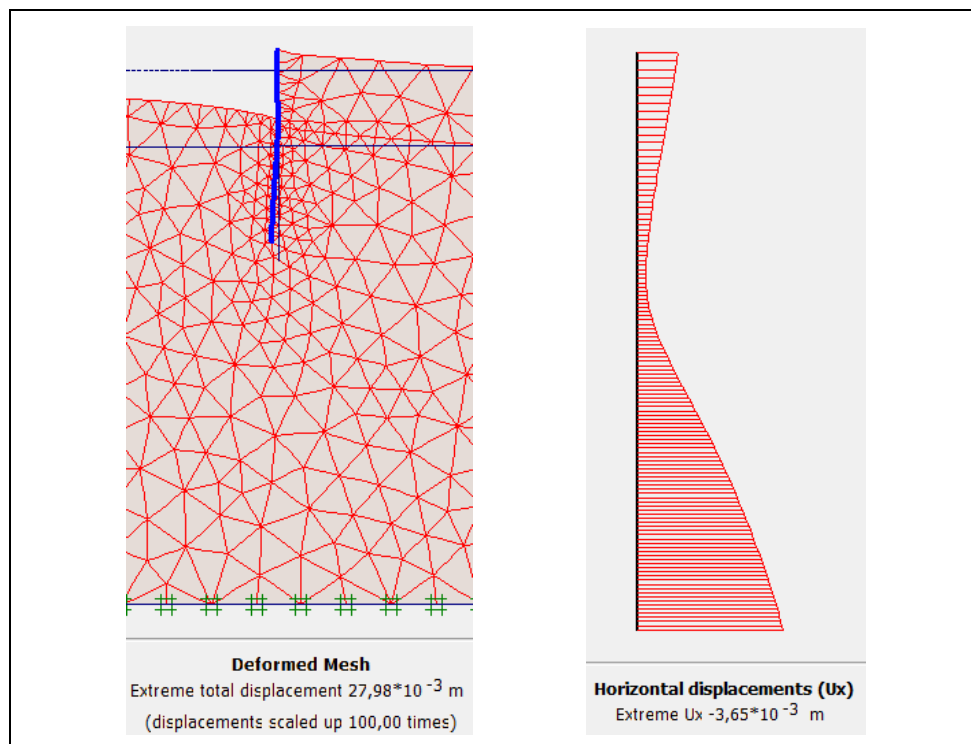


Figura 3.3.1 – Spostamenti totali SLE

Il valore di spostamento massimo orizzontale della paratia risulta pari a circa 0,4 cm, pertanto compatibile con l'opera provvisoria in progetto.

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3.3.2 Verifica di stabilità SLU-GEO

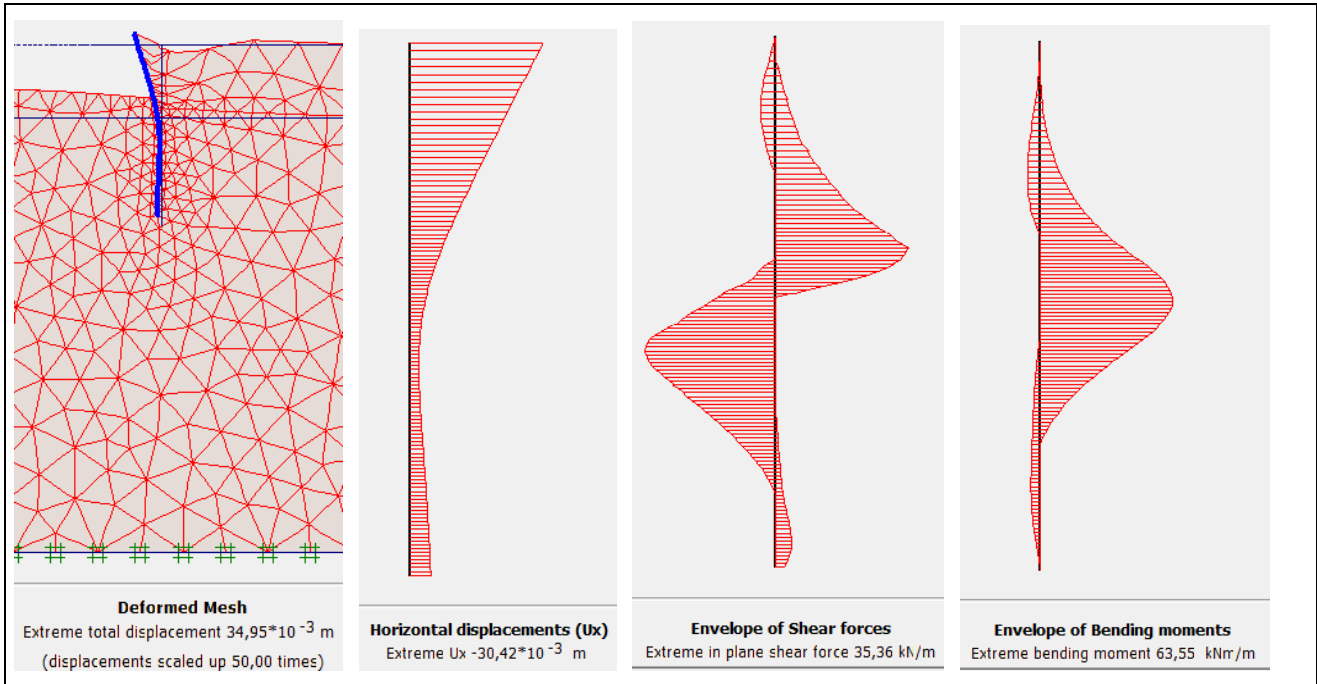


Figura 3.3.2 – Spostamenti, taglio e momento flettente SLU-GEO

Il valore di spostamento massimo orizzontale della paratia risulta pari a circa 3 cm, pertanto compatibile con l'opera provvisoria in progetto.

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3.3.3 Verifica strutturale SLU-STR



Figura 3.3.3 – Spostamenti, taglio e momento flettente SLU-STR

Verifiche di resistenza dei micropali

La verifica a flessione e taglio è stata eseguita secondo quanto indicato nel capitolo 4 delle NTC 2008.

La sezione tubolare utilizzata rientra in classe 1, essendo $d/t = 13.64 < 50 \varepsilon^2 = 50$, essendo

d: diametro esterno tubolare (193.7 mm)

t: spessore tubolare (14.2 mm)

$$\varepsilon^2: \frac{235}{f_{yk}}$$

Per le sezioni di classe 1 la verifica a flessione può essere condotta nella forma:

$$E_d = \frac{M_{ed}}{W_{pl}} \leq \frac{f_{yk}}{\gamma_{M0}} = R_d$$

dove:

M_{ed} : momento di calcolo agente

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- A: area della sezione (80.1 cm²)
 W_{pl}: modulo resistente plastico della sezione (335 cm³)
 f_{yk}: tensione di snervamento (235 N/mm²)
 γ_{M0}: coefficiente pari a 1.05.

I micropali hanno interasse pari a 30 cm di conseguenza le sollecitazioni vengono ripartite su 3.33 micropali a metro di paratia.

Il modulo di resistenza della paratia è pari a: $W_{pl} = 3,33 \times 335 = 1115.55 \text{ cm}^3/\text{m}$

L'area della sezione resistente della paratia è pari a: $A = 3,33 \times 80.1 = 266.73 \text{ cm}^2/\text{m}$

$$R_D = \frac{235}{1.05} = 223.80 \text{ N/mm}^2$$

$$M_{ed} = 16.65 \text{ kNm/m}$$

$$E_D = \frac{16650000}{1155550} = 14.40 \text{ N/mm}^2$$

Da cui si verifica: $E_d = 14.4 < R_d = 223.8 \text{ N/mm}^2$

La verifica a taglio impone che:

$$V_{ED} \leq V_{C, RD} = \frac{A_V \cdot f_{yk}}{\sqrt{3} \cdot \gamma_{M0}}$$

dove:

V_{ED}: taglio di calcolo agente

A_v: area pari a $\frac{2A}{\pi} = 169.89 \text{ cm}^2$

$$V_{C, RD} = \frac{16989 \cdot 235}{\sqrt{3} \cdot 1.05} = 2195260 \text{ N} = 2195.26 \text{ kN}$$

$$V_{ED} = 20.65 \text{ kN/m}$$

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RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Da cui si verifica: $V_{ED} = 20.65 < V_{C,RD} = 2195 \text{ kN}$

3.3.4 Verifica strutturale SLU-V (Sisma)

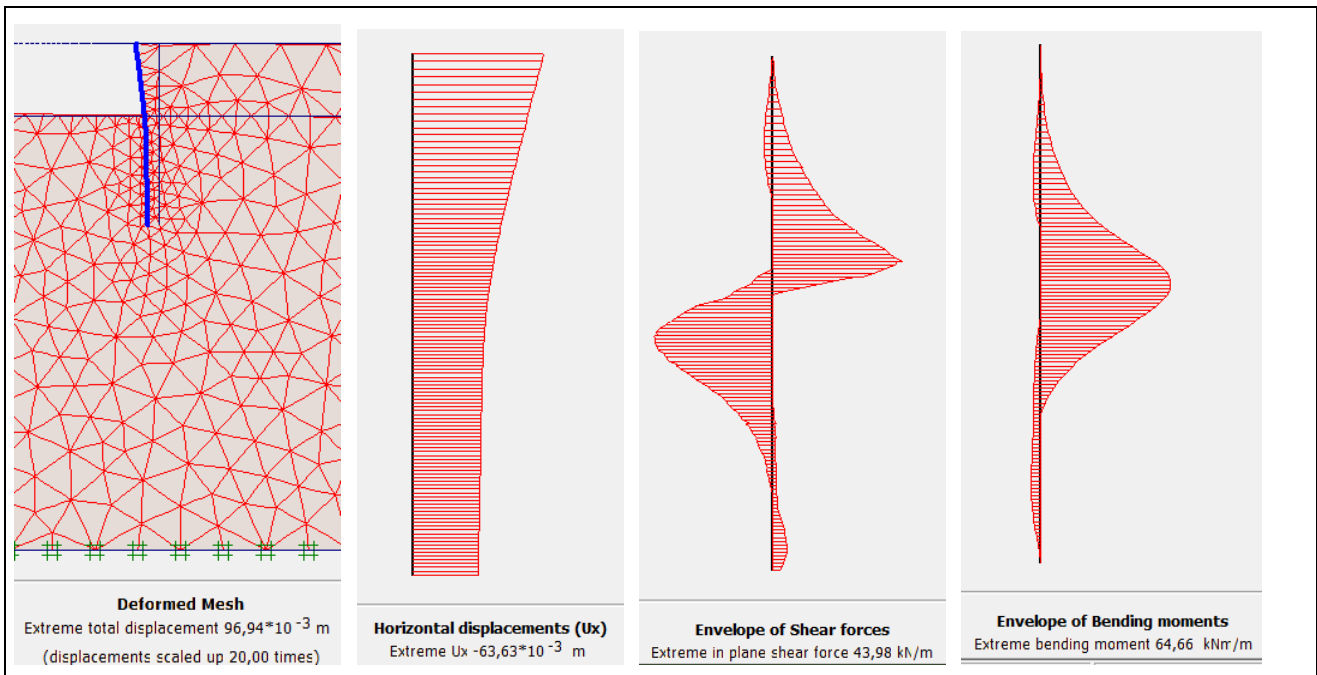


Figura 3.3.4 – Spostamenti, taglio e momento flettente SLU-V (Sisma)

Il valore di spostamento massimo orizzontale della paratia risulta pari a circa 6.4 cm, pertanto compatibile con l'opera provvisoria in progetto in presenza di sisma.

Analogamente alle verifiche flessione e taglio del paragrafo 3.3.3 si ottiene:

$$M_{ed} = 64.66 \text{ kNm/m}$$

$$E_D = \frac{64660000}{1155550} = 55.96 \text{ N/mm}^2$$

Da cui si verifica: $E_d = 55.96 < R_d = 223.8 \text{ N/mm}^2$

$$V_{ED} = 43.98 \text{ kN/m}$$

Da cui si verifica: $V_{ED} = 43.98 < V_{C,RD} = 2195 \text{ kN}$

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

4 ALLEGATI: Tabulati di calcolo

SLU GEO

1. General Information

Table [1] Units

Type	Unit
Length	m
Force	kN
Time	day

Table [2] Model dimensions

	min.	max.
X	-20,000	20,000
Y	-20,000	8,000

Table [3] Model

Model	Plane strain
Element	15-Noded

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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2. Structures

Table [4] Beams

Plate no.	Data set	Length [m]	Nodes
1	MICROPALI 193S	10,000	3515, 6449, 6886.

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3. Material data

Table [5] Soil data sets parameters

Mohr-Coulomb		1
Type		GHIAIE
γ_{unsat}	[kN/m ³]	19,00
γ_{sat}	[kN/m ³]	19,00
k_x	[m/day]	1,000
k_y	[m/day]	1,000
e_{init}	[-]	1,000
c_k	[-]	1E15
E_{ref}	[kN/m ²]	40000,000
ν	[-]	0,300
G_{ref}	[kN/m ²]	15384,615
E_{oed}	[kN/m ²]	53846,154
c_{ref}	[kN/m ²]	0,00
ϕ	[°]	27,50
ψ	[°]	0,00
E_{inc}	[kN/m ² /m]	0,00
y_{ref}	[m]	0,000
$c_{increment}$	[kN/m ² /m]	0,00
$T_{str.}$	[kN/m ²]	0,00
$R_{inter.}$	[-]	1,00
Interface permeability		Neutral

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
		RELAZIONE DI CALCOLO OPERE PROVVISIONALI	<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0

Table [6] Beam data sets parameters

No.	Identification	EA [kN/m]	EI [kNm ² /m]	w [kN/m/m]	v [-]	Mp [kNm/m]	Np [kN/m]
1	MICROPALI 193	5,1215E6	21100,00	1,86	0,20	1E15	1E15
2	MICROPALI 219	5,78E6	31923,00	2,12	0,20	1E15	1E15
3	MICROPALI 193S	5,7614E6	23341,00	2,10	0,20	1E15	1E15

4. Calculation phases

Table [7] List of phases

Phase	Ph-No.	Start phase	Calculation type	Load input	First step	Last step
Initial phase	0	0		-	0	0
CARICO	1	0	Plastic	Staged construction	1	2
MICROPALI	2	1	Plastic	Staged construction	3	4
SCAVO	3	2	Plastic	Staged construction	5	45

Table [8] Staged construction info

Ph-No.	Active clusters	Inactive clusters	Active beams	Active geotextiles	Active anchors
0	1, 2, 3.				
1	1, 2, 3.				
2	1, 2, 3.		1.		
3	1, 3.	2.	1.		

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5. Results for phase

Table [9] Table of deformations phase no: 0

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
1	-20,000	-18,333	0,000	0,000	0,000	0,000
2	-20,000	-18,889	0,000	0,000	0,000	0,000
3	-20,000	-19,444	0,000	0,000	0,000	0,000
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	0,000	0,000
18	-20,000	-16,667	0,000	0,000	0,000	0,000
19	-20,000	-17,222	0,000	0,000	0,000	0,000
26	-20,000	-17,778	0,000	0,000	0,000	0,000
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
49	-20,000	-15,556	0,000	0,000	0,000	0,000
53	-20,000	-13,889	0,000	0,000	0,000	0,000
54	-20,000	-14,444	0,000	0,000	0,000	0,000
55	-20,000	-15,000	0,000	0,000	0,000	0,000
59	-15,294	-20,000	0,000	0,000	0,000	0,000
63	-14,706	-20,000	0,000	0,000	0,000	0,000
64	-14,118	-20,000	0,000	0,000	0,000	0,000
65	-13,529	-20,000	0,000	0,000	0,000	0,000
125	-20,000	-13,333	0,000	0,000	0,000	0,000
129	-20,000	-11,667	0,000	0,000	0,000	0,000
130	-20,000	-12,222	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
131	-20,000	-12,778	0,000	0,000	0,000	0,000
215	-12,941	-20,000	0,000	0,000	0,000	0,000
219	-12,353	-20,000	0,000	0,000	0,000	0,000
220	-11,765	-20,000	0,000	0,000	0,000	0,000
221	-11,176	-20,000	0,000	0,000	0,000	0,000
225	-10,588	-20,000	0,000	0,000	0,000	0,000
229	-10,000	-20,000	0,000	0,000	0,000	0,000
230	-9,412	-20,000	0,000	0,000	0,000	0,000
231	-8,824	-20,000	0,000	0,000	0,000	0,000
263	-20,000	-11,111	0,000	0,000	0,000	0,000
264	-20,000	-9,444	0,000	0,000	0,000	0,000
265	-20,000	-10,000	0,000	0,000	0,000	0,000
266	-20,000	-10,556	0,000	0,000	0,000	0,000
407	-8,235	-20,000	0,000	0,000	0,000	0,000
411	-7,647	-20,000	0,000	0,000	0,000	0,000
412	-7,059	-20,000	0,000	0,000	0,000	0,000
413	-6,471	-20,000	0,000	0,000	0,000	0,000
417	-20,000	-8,889	0,000	0,000	0,000	0,000
421	-20,000	-7,222	0,000	0,000	0,000	0,000
422	-20,000	-7,778	0,000	0,000	0,000	0,000
423	-20,000	-8,333	0,000	0,000	0,000	0,000
471	-5,882	-20,000	0,000	0,000	0,000	0,000
475	-5,294	-20,000	0,000	0,000	0,000	0,000
476	-4,706	-20,000	0,000	0,000	0,000	0,000
477	-4,118	-20,000	0,000	0,000	0,000	0,000
625	-20,000	-6,667	0,000	0,000	0,000	0,000
626	-20,000	-5,000	0,000	0,000	0,000	0,000
627	-20,000	-5,556	0,000	0,000	0,000	0,000
628	-20,000	-6,111	0,000	0,000	0,000	0,000
785	-3,529	-20,000	0,000	0,000	0,000	0,000
789	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
790	-2,353	-20,000	0,000	0,000	0,000	0,000
791	-1,765	-20,000	0,000	0,000	0,000	0,000
795	-1,176	-20,000	0,000	0,000	0,000	0,000
799	-0,588	-20,000	0,000	0,000	0,000	0,000
800	0,000	-20,000	0,000	0,000	0,000	0,000
801	0,588	-20,000	0,000	0,000	0,000	0,000
830	-20,000	-4,444	0,000	0,000	0,000	0,000
831	-20,000	-2,778	0,000	0,000	0,000	0,000
832	-20,000	-3,333	0,000	0,000	0,000	0,000
833	-20,000	-3,889	0,000	0,000	0,000	0,000
1057	1,765	-20,000	0,000	0,000	0,000	0,000
1058	2,353	-20,000	0,000	0,000	0,000	0,000
1059	2,941	-20,000	0,000	0,000	0,000	0,000
1063	1,176	-20,000	0,000	0,000	0,000	0,000
1067	3,529	-20,000	0,000	0,000	0,000	0,000
1071	4,118	-20,000	0,000	0,000	0,000	0,000
1072	4,706	-20,000	0,000	0,000	0,000	0,000
1073	5,294	-20,000	0,000	0,000	0,000	0,000
1133	5,882	-20,000	0,000	0,000	0,000	0,000
1134	6,471	-20,000	0,000	0,000	0,000	0,000
1135	7,059	-20,000	0,000	0,000	0,000	0,000
1136	7,647	-20,000	0,000	0,000	0,000	0,000
1143	8,235	-20,000	0,000	0,000	0,000	0,000
1147	8,824	-20,000	0,000	0,000	0,000	0,000
1148	9,412	-20,000	0,000	0,000	0,000	0,000
1149	10,000	-20,000	0,000	0,000	0,000	0,000
1165	-20,000	-2,222	0,000	0,000	0,000	0,000
1166	-20,000	-0,556	0,000	0,000	0,000	0,000
1167	-20,000	-1,111	0,000	0,000	0,000	0,000
1168	-20,000	-1,667	0,000	0,000	0,000	0,000
1352	-20,000	0,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
1353	-20,000	1,500	0,000	0,000	0,000	0,000
1354	-20,000	1,000	0,000	0,000	0,000	0,000
1355	-20,000	0,500	0,000	0,000	0,000	0,000
1505	11,176	-20,000	0,000	0,000	0,000	0,000
1506	11,765	-20,000	0,000	0,000	0,000	0,000
1507	12,353	-20,000	0,000	0,000	0,000	0,000
1511	10,588	-20,000	0,000	0,000	0,000	0,000
1515	12,941	-20,000	0,000	0,000	0,000	0,000
1519	13,529	-20,000	0,000	0,000	0,000	0,000
1520	14,118	-20,000	0,000	0,000	0,000	0,000
1521	14,706	-20,000	0,000	0,000	0,000	0,000
1531	15,294	-20,000	0,000	0,000	0,000	0,000
1535	15,882	-20,000	0,000	0,000	0,000	0,000
1536	16,471	-20,000	0,000	0,000	0,000	0,000
1537	17,059	-20,000	0,000	0,000	0,000	0,000
1585	17,647	-20,000	0,000	0,000	0,000	0,000
1589	18,235	-20,000	0,000	0,000	0,000	0,000
1590	18,824	-20,000	0,000	0,000	0,000	0,000
1591	19,412	-20,000	0,000	0,000	0,000	0,000
1592	20,000	-20,000	0,000	0,000	0,000	0,000
1593	20,000	-19,400	0,000	0,000	0,000	0,000
1594	20,000	-18,800	0,000	0,000	0,000	0,000
1595	20,000	-18,200	0,000	0,000	0,000	0,000
1871	-20,000	3,500	0,000	0,000	0,000	0,000
1872	-20,000	3,000	0,000	0,000	0,000	0,000
1873	-20,000	2,500	0,000	0,000	0,000	0,000
1877	-20,000	2,000	0,000	0,000	0,000	0,000
1881	-20,000	4,000	0,000	0,000	0,000	0,000
1882	-18,249	4,000	0,000	0,000	0,000	0,000
1883	-18,833	4,000	0,000	0,000	0,000	0,000
1884	-19,416	4,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
1885	-20,000	5,500	0,000	0,000	0,000	0,000
1886	-20,000	5,000	0,000	0,000	0,000	0,000
1887	-20,000	4,500	0,000	0,000	0,000	0,000
2009	20,000	-17,599	0,000	0,000	0,000	0,000
2013	20,000	-16,999	0,000	0,000	0,000	0,000
2014	20,000	-16,399	0,000	0,000	0,000	0,000
2015	20,000	-15,799	0,000	0,000	0,000	0,000
2019	-16,095	4,001	0,000	0,000	0,000	0,000
2020	-16,619	4,001	0,000	0,000	0,000	0,000
2021	-17,142	4,000	0,000	0,000	0,000	0,000
2031	-17,665	4,000	0,000	0,000	0,000	0,000
2047	-20,000	8,000	0,000	0,000	0,000	0,000
2048	-20,000	7,500	0,000	0,000	0,000	0,000
2049	-20,000	7,000	0,000	0,000	0,000	0,000
2050	-20,000	6,500	0,000	0,000	0,000	0,000
2051	-18,285	8,000	0,000	0,000	0,000	0,000
2052	-18,857	8,000	0,000	0,000	0,000	0,000
2053	-19,428	8,000	0,000	0,000	0,000	0,000
2057	-20,000	6,000	0,000	0,000	0,000	0,000
2061	-17,713	8,000	0,000	0,000	0,000	0,000
2065	-16,150	8,000	0,000	0,000	0,000	0,000
2066	-16,671	8,000	0,000	0,000	0,000	0,000
2067	-17,192	8,000	0,000	0,000	0,000	0,000
2363	20,000	-15,199	0,000	0,000	0,000	0,000
2367	20,000	-14,599	0,000	0,000	0,000	0,000
2368	20,000	-13,998	0,000	0,000	0,000	0,000
2369	20,000	-13,398	0,000	0,000	0,000	0,000
2427	-15,572	4,001	0,000	0,000	0,000	0,000
2431	-14,165	4,001	0,000	0,000	0,000	0,000
2432	-14,634	4,001	0,000	0,000	0,000	0,000
2433	-15,103	4,001	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
2525	-15,628	8,000	0,000	0,000	0,000	0,000
2529	-14,203	8,000	0,000	0,000	0,000	0,000
2530	-14,678	8,000	0,000	0,000	0,000	0,000
2531	-15,153	8,000	0,000	0,000	0,000	0,000
2803	20,000	-12,798	0,000	0,000	0,000	0,000
2807	20,000	-12,198	0,000	0,000	0,000	0,000
2808	20,000	-11,598	0,000	0,000	0,000	0,000
2809	20,000	-10,998	0,000	0,000	0,000	0,000
2829	-13,696	4,001	0,000	0,000	0,000	0,000
2830	-12,435	4,001	0,000	0,000	0,000	0,000
2831	-12,855	4,001	0,000	0,000	0,000	0,000
2832	-13,276	4,001	0,000	0,000	0,000	0,000
2839	-13,727	8,000	0,000	0,000	0,000	0,000
2843	-12,428	8,000	0,000	0,000	0,000	0,000
2844	-12,861	8,000	0,000	0,000	0,000	0,000
2845	-13,294	8,000	0,000	0,000	0,000	0,000
3247	-12,015	4,001	0,000	0,000	0,000	0,000
3251	-10,884	4,001	0,000	0,000	0,000	0,000
3252	-11,261	4,001	0,000	0,000	0,000	0,000
3253	-11,638	4,001	0,000	0,000	0,000	0,000
3305	-11,994	8,000	0,000	0,000	0,000	0,000
3306	-10,809	8,000	0,000	0,000	0,000	0,000
3307	-11,204	8,000	0,000	0,000	0,000	0,000
3308	-11,599	8,000	0,000	0,000	0,000	0,000
3441	20,000	-10,397	0,000	0,000	0,000	0,000
3442	20,000	-9,797	0,000	0,000	0,000	0,000
3443	20,000	-9,197	0,000	0,000	0,000	0,000
3444	20,000	-8,597	0,000	0,000	0,000	0,000
3483	0,000	-1,929	0,000	0,000	0,000	0,000
3484	0,000	-1,857	0,000	0,000	0,000	0,000
3485	0,000	-1,786	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
3489	0,000	-1,714	0,000	0,000	0,000	0,000
3490	0,000	-1,643	0,000	0,000	0,000	0,000
3491	0,000	-1,571	0,000	0,000	0,000	0,000
3492	0,000	-1,500	0,000	0,000	0,000	0,000
3515	0,000	-2,000	0,000	0,000	0,000	0,000
3525	0,000	-1,357	0,000	0,000	0,000	0,000
3526	0,000	-1,285	0,000	0,000	0,000	0,000
3527	0,000	-1,214	0,000	0,000	0,000	0,000
3531	0,000	-1,428	0,000	0,000	0,000	0,000
3547	0,000	-1,142	0,000	0,000	0,000	0,000
3548	0,000	-1,071	0,000	0,000	0,000	0,000
3549	0,000	-0,999	0,000	0,000	0,000	0,000
3550	0,000	-0,928	0,000	0,000	0,000	0,000
3633	20,000	-7,997	0,000	0,000	0,000	0,000
3637	20,000	-7,397	0,000	0,000	0,000	0,000
3638	20,000	-6,796	0,000	0,000	0,000	0,000
3639	20,000	-6,196	0,000	0,000	0,000	0,000
3789	-10,508	4,002	0,000	0,000	0,000	0,000
3790	-9,494	4,002	0,000	0,000	0,000	0,000
3791	-9,832	4,002	0,000	0,000	0,000	0,000
3792	-10,170	4,002	0,000	0,000	0,000	0,000
3809	-10,414	8,000	0,000	0,000	0,000	0,000
3813	-9,334	8,000	0,000	0,000	0,000	0,000
3814	-9,694	8,000	0,000	0,000	0,000	0,000
3815	-10,054	8,000	0,000	0,000	0,000	0,000
3835	-9,157	4,002	0,000	0,000	0,000	0,000
3839	-8,248	4,002	0,000	0,000	0,000	0,000
3840	-8,551	4,002	0,000	0,000	0,000	0,000
3841	-8,854	4,002	0,000	0,000	0,000	0,000
3993	0,000	-0,785	0,000	0,000	0,000	0,000
3994	0,000	-0,714	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
3995	0,000	-0,642	0,000	0,000	0,000	0,000
3999	0,000	-0,857	0,000	0,000	0,000	0,000
4009	0,000	-0,571	0,000	0,000	0,000	0,000
4013	0,000	-0,499	0,000	0,000	0,000	0,000
4014	0,000	-0,428	0,000	0,000	0,000	0,000
4015	0,000	-0,356	0,000	0,000	0,000	0,000
4189	20,000	-5,596	0,000	0,000	0,000	0,000
4193	20,000	-4,996	0,000	0,000	0,000	0,000
4194	20,000	-4,396	0,000	0,000	0,000	0,000
4195	20,000	-3,796	0,000	0,000	0,000	0,000
4215	0,000	-0,213	0,000	0,000	0,000	0,000
4216	0,000	-0,142	0,000	0,000	0,000	0,000
4217	0,000	-0,070	0,000	0,000	0,000	0,000
4221	0,000	-0,285	0,000	0,000	0,000	0,000
4303	-8,974	8,000	0,000	0,000	0,000	0,000
4307	-7,989	8,000	0,000	0,000	0,000	0,000
4308	-8,317	8,000	0,000	0,000	0,000	0,000
4309	-8,645	8,000	0,000	0,000	0,000	0,000
4415	-7,132	4,002	0,000	0,000	0,000	0,000
4416	-7,403	4,002	0,000	0,000	0,000	0,000
4417	-7,674	4,002	0,000	0,000	0,000	0,000
4421	-7,946	4,002	0,000	0,000	0,000	0,000
4447	-6,860	4,002	0,000	0,000	0,000	0,000
4451	-6,131	4,002	0,000	0,000	0,000	0,000
4452	-6,374	4,002	0,000	0,000	0,000	0,000
4453	-6,617	4,002	0,000	0,000	0,000	0,000
4505	20,000	-3,195	0,000	0,000	0,000	0,000
4509	20,000	-2,595	0,000	0,000	0,000	0,000
4510	20,000	-1,995	0,000	0,000	0,000	0,000
4511	20,000	-1,395	0,000	0,000	0,000	0,000
4589	0,000	0,001	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
4590	0,000	0,073	0,000	0,000	0,000	0,000
4591	0,000	0,144	0,000	0,000	0,000	0,000
4592	0,000	0,215	0,000	0,000	0,000	0,000
4631	-7,660	8,000	0,000	0,000	0,000	0,000
4635	-6,762	8,000	0,000	0,000	0,000	0,000
4636	-7,062	8,000	0,000	0,000	0,000	0,000
4637	-7,361	8,000	0,000	0,000	0,000	0,000
4685	0,000	0,287	0,000	0,000	0,000	0,000
4686	0,000	0,358	0,000	0,000	0,000	0,000
4687	0,000	0,430	0,000	0,000	0,000	0,000
4688	0,000	0,501	0,000	0,000	0,000	0,000
4847	-5,234	4,002	0,000	0,000	0,000	0,000
4848	-5,452	4,002	0,000	0,000	0,000	0,000
4849	-5,670	4,002	0,000	0,000	0,000	0,000
4850	-5,888	4,002	0,000	0,000	0,000	0,000
4857	-5,016	4,002	0,000	0,000	0,000	0,000
4858	-4,429	4,003	0,000	0,000	0,000	0,000
4859	-4,625	4,003	0,000	0,000	0,000	0,000
4860	-4,820	4,002	0,000	0,000	0,000	0,000
4993	-3,709	4,003	0,000	0,000	0,000	0,000
4994	-3,884	4,003	0,000	0,000	0,000	0,000
4995	-4,059	4,003	0,000	0,000	0,000	0,000
4999	-4,234	4,003	0,000	0,000	0,000	0,000
5015	-3,534	4,003	0,000	0,000	0,000	0,000
5016	-3,063	4,003	0,000	0,000	0,000	0,000
5017	-3,220	4,003	0,000	0,000	0,000	0,000
5018	-3,377	4,003	0,000	0,000	0,000	0,000
5115	20,000	-0,795	0,000	0,000	0,000	0,000
5119	20,000	-0,195	0,000	0,000	0,000	0,000
5120	20,000	0,406	0,000	0,000	0,000	0,000
5121	20,000	1,006	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
5141	0,000	0,573	0,000	0,000	0,000	0,000
5142	0,000	0,644	0,000	0,000	0,000	0,000
5143	0,000	0,716	0,000	0,000	0,000	0,000
5144	0,000	0,787	0,000	0,000	0,000	0,000
5151	0,000	0,859	0,000	0,000	0,000	0,000
5152	0,000	0,930	0,000	0,000	0,000	0,000
5153	0,000	1,002	0,000	0,000	0,000	0,000
5154	0,000	1,073	0,000	0,000	0,000	0,000
5187	0,000	1,216	0,000	0,000	0,000	0,000
5188	0,000	1,288	0,000	0,000	0,000	0,000
5189	0,000	1,359	0,000	0,000	0,000	0,000
5193	0,000	1,145	0,000	0,000	0,000	0,000
5203	0,000	1,430	0,000	0,000	0,000	0,000
5204	0,000	1,502	0,000	0,000	0,000	0,000
5205	0,000	1,573	0,000	0,000	0,000	0,000
5206	0,000	1,645	0,000	0,000	0,000	0,000
5213	-6,463	8,000	0,000	0,000	0,000	0,000
5217	-5,644	8,000	0,000	0,000	0,000	0,000
5218	-5,917	8,000	0,000	0,000	0,000	0,000
5219	-6,190	8,000	0,000	0,000	0,000	0,000
5277	-5,371	8,000	0,000	0,000	0,000	0,000
5281	-4,625	8,000	0,000	0,000	0,000	0,000
5282	-4,873	8,000	0,000	0,000	0,000	0,000
5283	-5,122	8,000	0,000	0,000	0,000	0,000
5287	0,000	1,788	0,000	0,000	0,000	0,000
5288	0,000	1,859	0,000	0,000	0,000	0,000
5289	0,000	1,931	0,000	0,000	0,000	0,000
5293	0,000	1,716	0,000	0,000	0,000	0,000
5309	0,000	2,002	0,000	0,000	0,000	0,000
5313	0,000	2,074	0,000	0,000	0,000	0,000
5314	0,000	2,145	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
5315	0,000	2,217	0,000	0,000	0,000	0,000
5351	-2,483	4,003	0,000	0,000	0,000	0,000
5352	-2,624	4,003	0,000	0,000	0,000	0,000
5353	-2,765	4,003	0,000	0,000	0,000	0,000
5357	-2,906	4,003	0,000	0,000	0,000	0,000
5373	-2,343	4,003	0,000	0,000	0,000	0,000
5374	-1,964	4,003	0,000	0,000	0,000	0,000
5375	-2,091	4,003	0,000	0,000	0,000	0,000
5376	-2,217	4,003	0,000	0,000	0,000	0,000
5437	20,000	1,606	0,000	0,000	0,000	0,000
5441	20,000	2,206	0,000	0,000	0,000	0,000
5442	20,000	2,806	0,000	0,000	0,000	0,000
5443	20,000	3,406	0,000	0,000	0,000	0,000
5599	0,000	2,360	0,000	0,000	0,000	0,000
5600	0,000	2,431	0,000	0,000	0,000	0,000
5601	0,000	2,502	0,000	0,000	0,000	0,000
5605	0,000	2,288	0,000	0,000	0,000	0,000
5621	0,000	2,574	0,000	0,000	0,000	0,000
5622	0,000	2,645	0,000	0,000	0,000	0,000
5623	0,000	2,717	0,000	0,000	0,000	0,000
5624	0,000	2,788	0,000	0,000	0,000	0,000
5679	-4,376	8,000	0,000	0,000	0,000	0,000
5683	-3,695	8,000	0,000	0,000	0,000	0,000
5684	-3,922	8,000	0,000	0,000	0,000	0,000
5685	-4,149	8,000	0,000	0,000	0,000	0,000
5727	20,000	4,007	0,000	0,000	0,000	0,000
5728	19,416	4,006	0,000	0,000	0,000	0,000
5729	18,833	4,006	0,000	0,000	0,000	0,000
5730	18,249	4,006	0,000	0,000	0,000	0,000
5731	20,000	4,506	0,000	0,000	0,000	0,000
5732	20,000	5,005	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
5733	20,000	5,504	0,000	0,000	0,000	0,000
5753	-3,468	8,000	0,000	0,000	0,000	0,000
5757	-2,848	8,000	0,000	0,000	0,000	0,000
5758	-3,055	8,000	0,000	0,000	0,000	0,000
5759	-3,261	8,000	0,000	0,000	0,000	0,000
5769	20,000	6,003	0,000	0,000	0,000	0,000
5773	20,000	6,502	0,000	0,000	0,000	0,000
5774	20,000	7,002	0,000	0,000	0,000	0,000
5775	20,000	7,501	0,000	0,000	0,000	0,000
5776	20,000	8,000	0,000	0,000	0,000	0,000
5777	19,375	8,000	0,000	0,000	0,000	0,000
5778	18,750	8,000	0,000	0,000	0,000	0,000
5779	18,125	8,000	0,000	0,000	0,000	0,000
5815	-1,499	4,003	0,000	0,000	0,000	0,000
5816	-1,612	4,003	0,000	0,000	0,000	0,000
5817	-1,725	4,003	0,000	0,000	0,000	0,000
5821	-1,838	4,003	0,000	0,000	0,000	0,000
5837	-1,386	4,003	0,000	0,000	0,000	0,000
5841	-1,082	4,003	0,000	0,000	0,000	0,000
5842	-1,183	4,003	0,000	0,000	0,000	0,000
5843	-1,285	4,003	0,000	0,000	0,000	0,000
6021	0,000	2,931	0,000	0,000	0,000	0,000
6022	0,000	3,003	0,000	0,000	0,000	0,000
6023	0,000	3,074	0,000	0,000	0,000	0,000
6027	0,000	2,860	0,000	0,000	0,000	0,000
6043	0,000	3,146	0,000	0,000	0,000	0,000
6047	0,000	3,217	0,000	0,000	0,000	0,000
6048	0,000	3,289	0,000	0,000	0,000	0,000
6049	0,000	3,360	0,000	0,000	0,000	0,000
6085	15,103	4,006	0,000	0,000	0,000	0,000
6086	14,634	4,006	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
6087	14,165	4,006	0,000	0,000	0,000	0,000
6091	15,572	4,006	0,000	0,000	0,000	0,000
6092	17,142	4,006	0,000	0,000	0,000	0,000
6093	16,619	4,006	0,000	0,000	0,000	0,000
6094	16,095	4,006	0,000	0,000	0,000	0,000
6101	17,665	4,006	0,000	0,000	0,000	0,000
6111	17,500	8,000	0,000	0,000	0,000	0,000
6115	16,875	8,000	0,000	0,000	0,000	0,000
6116	16,250	8,000	0,000	0,000	0,000	0,000
6117	15,625	8,000	0,000	0,000	0,000	0,000
6149	-2,641	8,000	0,000	0,000	0,000	0,000
6153	-2,075	8,000	0,000	0,000	0,000	0,000
6154	-2,264	8,000	0,000	0,000	0,000	0,000
6155	-2,452	8,000	0,000	0,000	0,000	0,000
6159	-1,887	8,000	0,000	0,000	0,000	0,000
6163	-1,371	8,000	0,000	0,000	0,000	0,000
6164	-1,543	8,000	0,000	0,000	0,000	0,000
6165	-1,715	8,000	0,000	0,000	0,000	0,000
6191	-0,708	4,003	0,000	0,000	0,000	0,000
6192	-0,799	4,003	0,000	0,000	0,000	0,000
6193	-0,890	4,003	0,000	0,000	0,000	0,000
6197	-0,618	4,003	0,000	0,000	0,000	0,000
6198	-0,373	4,003	0,000	0,000	0,000	0,000
6199	-0,455	4,003	0,000	0,000	0,000	0,000
6200	-0,536	4,003	0,000	0,000	0,000	0,000
6207	-0,981	4,003	0,000	0,000	0,000	0,000
6297	0,000	3,503	0,000	0,000	0,000	0,000
6298	0,000	3,574	0,000	0,000	0,000	0,000
6299	0,000	3,646	0,000	0,000	0,000	0,000
6303	0,000	3,432	0,000	0,000	0,000	0,000
6313	0,000	3,717	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
6317	0,000	3,789	0,000	0,000	0,000	0,000
6318	0,000	3,860	0,000	0,000	0,000	0,000
6319	0,000	3,932	0,000	0,000	0,000	0,000
6391	15,000	8,000	0,000	0,000	0,000	0,000
6395	14,375	8,000	0,000	0,000	0,000	0,000
6396	13,750	8,000	0,000	0,000	0,000	0,000
6397	13,125	8,000	0,000	0,000	0,000	0,000
6401	-1,199	8,000	0,000	0,000	0,000	0,000
6405	-0,728	8,000	0,000	0,000	0,000	0,000
6406	-0,885	8,000	0,000	0,000	0,000	0,000
6407	-1,042	8,000	0,000	0,000	0,000	0,000
6439	-0,292	4,003	0,000	0,000	0,000	0,000
6440	-0,073	4,003	0,000	0,000	0,000	0,000
6441	-0,146	4,003	0,000	0,000	0,000	0,000
6442	-0,219	4,003	0,000	0,000	0,000	0,000
6449	0,000	4,003	0,000	0,000	0,000	0,000
6450	0,000	4,080	0,000	0,000	0,000	0,000
6451	0,000	4,156	0,000	0,000	0,000	0,000
6452	0,000	4,233	0,000	0,000	0,000	0,000
6453	0,219	4,003	0,000	0,000	0,000	0,000
6454	0,146	4,003	0,000	0,000	0,000	0,000
6455	0,073	4,003	0,000	0,000	0,000	0,000
6481	11,638	4,005	0,000	0,000	0,000	0,000
6482	11,261	4,005	0,000	0,000	0,000	0,000
6483	10,884	4,005	0,000	0,000	0,000	0,000
6487	12,015	4,005	0,000	0,000	0,000	0,000
6488	13,276	4,005	0,000	0,000	0,000	0,000
6489	12,855	4,005	0,000	0,000	0,000	0,000
6490	12,435	4,005	0,000	0,000	0,000	0,000
6497	13,696	4,006	0,000	0,000	0,000	0,000
6563	8,854	4,005	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
6564	8,551	4,005	0,000	0,000	0,000	0,000
6565	8,248	4,005	0,000	0,000	0,000	0,000
6569	9,157	4,005	0,000	0,000	0,000	0,000
6570	10,170	4,005	0,000	0,000	0,000	0,000
6571	9,832	4,005	0,000	0,000	0,000	0,000
6572	9,494	4,005	0,000	0,000	0,000	0,000
6579	10,508	4,005	0,000	0,000	0,000	0,000
6606	12,500	8,000	0,000	0,000	0,000	0,000
6610	11,875	8,000	0,000	0,000	0,000	0,000
6611	11,250	8,000	0,000	0,000	0,000	0,000
6612	10,625	8,000	0,000	0,000	0,000	0,000
6653	0,292	4,003	0,000	0,000	0,000	0,000
6654	0,536	4,003	0,000	0,000	0,000	0,000
6655	0,455	4,003	0,000	0,000	0,000	0,000
6656	0,373	4,003	0,000	0,000	0,000	0,000
6663	0,000	4,310	0,000	0,000	0,000	0,000
6664	0,000	4,393	0,000	0,000	0,000	0,000
6665	0,000	4,477	0,000	0,000	0,000	0,000
6666	0,000	4,560	0,000	0,000	0,000	0,000
6673	0,618	4,003	0,000	0,000	0,000	0,000
6674	0,890	4,003	0,000	0,000	0,000	0,000
6675	0,799	4,003	0,000	0,000	0,000	0,000
6676	0,708	4,003	0,000	0,000	0,000	0,000
6689	-0,572	8,000	0,000	0,000	0,000	0,000
6693	-0,143	8,000	0,000	0,000	0,000	0,000
6694	-0,286	8,000	0,000	0,000	0,000	0,000
6695	-0,429	8,000	0,000	0,000	0,000	0,000
6699	6,617	4,004	0,000	0,000	0,000	0,000
6700	6,374	4,004	0,000	0,000	0,000	0,000
6701	6,131	4,004	0,000	0,000	0,000	0,000
6705	6,860	4,004	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
6706	7,674	4,005	0,000	0,000	0,000	0,000
6707	7,403	4,004	0,000	0,000	0,000	0,000
6708	7,132	4,004	0,000	0,000	0,000	0,000
6715	7,946	4,005	0,000	0,000	0,000	0,000
6837	0,000	5,513	0,000	0,000	0,000	0,000
6838	0,000	5,622	0,000	0,000	0,000	0,000
6839	0,000	5,730	0,000	0,000	0,000	0,000
6843	0,000	5,956	0,000	0,000	0,000	0,000
6844	0,000	6,074	0,000	0,000	0,000	0,000
6845	0,000	6,192	0,000	0,000	0,000	0,000
6849	0,000	5,838	0,000	0,000	0,000	0,000
6859	0,000	6,311	0,000	0,000	0,000	0,000
6860	0,000	6,439	0,000	0,000	0,000	0,000
6861	0,000	6,568	0,000	0,000	0,000	0,000
6862	0,000	6,697	0,000	0,000	0,000	0,000
6869	0,000	6,966	0,000	0,000	0,000	0,000
6870	0,000	7,107	0,000	0,000	0,000	0,000
6871	0,000	7,247	0,000	0,000	0,000	0,000
6875	0,000	6,826	0,000	0,000	0,000	0,000
6885	0,000	7,387	0,000	0,000	0,000	0,000
6886	0,000	8,000	0,000	0,000	0,000	0,000
6887	0,000	7,541	0,000	0,000	0,000	0,000
6888	0,000	7,694	0,000	0,000	0,000	0,000
6889	0,000	7,847	0,000	0,000	0,000	0,000
6893	0,750	8,000	0,000	0,000	0,000	0,000
6894	0,500	8,000	0,000	0,000	0,000	0,000
6895	0,250	8,000	0,000	0,000	0,000	0,000
6899	2,217	4,004	0,000	0,000	0,000	0,000
6900	2,091	4,004	0,000	0,000	0,000	0,000
6901	1,964	4,004	0,000	0,000	0,000	0,000
6905	2,343	4,004	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
6906	2,765	4,004	0,000	0,000	0,000	0,000
6907	2,624	4,004	0,000	0,000	0,000	0,000
6908	2,483	4,004	0,000	0,000	0,000	0,000
6915	3,377	4,004	0,000	0,000	0,000	0,000
6916	3,220	4,004	0,000	0,000	0,000	0,000
6917	3,063	4,004	0,000	0,000	0,000	0,000
6921	2,906	4,004	0,000	0,000	0,000	0,000
6931	3,534	4,004	0,000	0,000	0,000	0,000
6932	4,059	4,004	0,000	0,000	0,000	0,000
6933	3,884	4,004	0,000	0,000	0,000	0,000
6934	3,709	4,004	0,000	0,000	0,000	0,000
6941	4,820	4,004	0,000	0,000	0,000	0,000
6942	4,625	4,004	0,000	0,000	0,000	0,000
6943	4,429	4,004	0,000	0,000	0,000	0,000
6947	4,234	4,004	0,000	0,000	0,000	0,000
6957	5,016	4,004	0,000	0,000	0,000	0,000
6958	5,670	4,004	0,000	0,000	0,000	0,000
6959	5,452	4,004	0,000	0,000	0,000	0,000
6960	5,234	4,004	0,000	0,000	0,000	0,000
6967	5,888	4,004	0,000	0,000	0,000	0,000
6977	10,000	8,000	0,000	0,000	0,000	0,000
6981	9,375	8,000	0,000	0,000	0,000	0,000
6982	8,750	8,000	0,000	0,000	0,000	0,000
6983	8,125	8,000	0,000	0,000	0,000	0,000
6987	1,285	4,003	0,000	0,000	0,000	0,000
6988	1,183	4,003	0,000	0,000	0,000	0,000
6989	1,082	4,003	0,000	0,000	0,000	0,000
6993	0,981	4,003	0,000	0,000	0,000	0,000
7003	1,386	4,003	0,000	0,000	0,000	0,000
7004	1,725	4,004	0,000	0,000	0,000	0,000
7005	1,612	4,004	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
7006	1,499	4,004	0,000	0,000	0,000	0,000
7013	1,838	4,004	0,000	0,000	0,000	0,000
7049	0,000	4,735	0,000	0,000	0,000	0,000
7050	0,000	4,826	0,000	0,000	0,000	0,000
7051	0,000	4,917	0,000	0,000	0,000	0,000
7055	0,000	4,644	0,000	0,000	0,000	0,000
7075	0,000	5,008	0,000	0,000	0,000	0,000
7076	0,000	5,107	0,000	0,000	0,000	0,000
7077	0,000	5,206	0,000	0,000	0,000	0,000
7078	0,000	5,306	0,000	0,000	0,000	0,000
7085	0,000	5,405	0,000	0,000	0,000	0,000
7155	7,500	8,000	0,000	0,000	0,000	0,000
7160	1,000	8,000	0,000	0,000	0,000	0,000
7188	6,875	8,000	0,000	0,000	0,000	0,000
7192	6,250	8,000	0,000	0,000	0,000	0,000
7193	5,625	8,000	0,000	0,000	0,000	0,000
7194	5,000	8,000	0,000	0,000	0,000	0,000
7204	2,500	8,000	0,000	0,000	0,000	0,000
7208	2,000	8,000	0,000	0,000	0,000	0,000
7209	1,500	8,000	0,000	0,000	0,000	0,000
7213	3,000	8,000	0,000	0,000	0,000	0,000
7227	4,500	8,000	0,000	0,000	0,000	0,000
7228	4,000	8,000	0,000	0,000	0,000	0,000
7230	3,500	8,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

6. Results for phase 1

Table [10] Table of deformations phase no: 1

Node No.	x-coord.	y-coord.	dUx [10⁻⁶ m]	Ux [10⁻⁶ m]	dUy [10⁻³ m]	Uy [10⁻³ m]
1	-20,000	-18,333	0,000	0,000	-10,493	-20,983
2	-20,000	-18,889	0,000	0,000	-7,284	-14,567
3	-20,000	-19,444	0,000	0,000	-3,804	-7,606
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	-21,974	-43,941
18	-20,000	-16,667	0,000	0,000	-19,463	-38,921
19	-20,000	-17,222	0,000	0,000	-16,756	-33,508
26	-20,000	-17,778	0,000	0,000	-13,595	-27,188
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
49	-20,000	-15,556	0,000	0,000	-24,362	-48,715
53	-20,000	-13,889	0,000	0,000	-30,506	-60,998
54	-20,000	-14,444	0,000	0,000	-28,627	-57,243
55	-20,000	-15,000	0,000	0,000	-26,580	-53,150
59	-15,294	-20,000	0,000	0,000	0,000	0,000
63	-14,706	-20,000	0,000	0,000	0,000	0,000
64	-14,118	-20,000	0,000	0,000	0,000	0,000
65	-13,529	-20,000	0,000	0,000	0,000	0,000
125	-20,000	-13,333	0,000	0,000	-32,215	-64,415
129	-20,000	-11,667	0,000	0,000	-36,392	-72,761
130	-20,000	-12,222	0,000	0,000	-35,156	-70,293

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
131	-20,000	-12,778	0,000	0,000	-33,763	-67,509
215	-12,941	-20,000	0,000	0,000	0,000	0,000
219	-12,353	-20,000	0,000	0,000	0,000	0,000
220	-11,765	-20,000	0,000	0,000	0,000	0,000
221	-11,176	-20,000	0,000	0,000	0,000	0,000
225	-10,588	-20,000	0,000	0,000	0,000	0,000
229	-10,000	-20,000	0,000	0,000	0,000	0,000
230	-9,412	-20,000	0,000	0,000	0,000	0,000
231	-8,824	-20,000	0,000	0,000	0,000	0,000
263	-20,000	-11,111	0,000	0,000	-37,468	-74,911
264	-20,000	-9,444	0,000	0,000	-39,801	-79,568
265	-20,000	-10,000	0,000	0,000	-39,170	-78,310
266	-20,000	-10,556	0,000	0,000	-38,392	-76,756
407	-8,235	-20,000	0,000	0,000	0,000	0,000
411	-7,647	-20,000	0,000	0,000	0,000	0,000
412	-7,059	-20,000	0,000	0,000	0,000	0,000
413	-6,471	-20,000	0,000	0,000	0,000	0,000
417	-20,000	-8,889	0,000	0,000	-40,283	-80,529
421	-20,000	-7,222	0,000	0,000	-40,895	-81,743
422	-20,000	-7,778	0,000	0,000	-40,826	-81,609
423	-20,000	-8,333	0,000	0,000	-40,622	-81,204
471	-5,882	-20,000	0,000	0,000	0,000	0,000
475	-5,294	-20,000	0,000	0,000	0,000	0,000
476	-4,706	-20,000	0,000	0,000	0,000	0,000
477	-4,118	-20,000	0,000	0,000	0,000	0,000
625	-20,000	-6,667	0,000	0,000	-40,832	-81,612
626	-20,000	-5,000	0,000	0,000	-39,942	-79,819
627	-20,000	-5,556	0,000	0,000	-40,347	-80,634
628	-20,000	-6,111	0,000	0,000	-40,645	-81,235
785	-3,529	-20,000	0,000	0,000	0,000	0,000
789	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
790	-2,353	-20,000	0,000	0,000	0,000	0,000
791	-1,765	-20,000	0,000	0,000	0,000	0,000
795	-1,176	-20,000	0,000	0,000	0,000	0,000
799	-0,588	-20,000	0,000	0,000	0,000	0,000
800	0,000	-20,000	0,000	0,000	0,000	0,000
801	0,588	-20,000	0,000	0,000	0,000	0,000
830	-20,000	-4,444	0,000	0,000	-39,437	-78,804
831	-20,000	-2,778	0,000	0,000	-37,453	-74,824
832	-20,000	-3,333	0,000	0,000	-38,180	-76,282
833	-20,000	-3,889	0,000	0,000	-38,845	-77,616
1057	1,765	-20,000	0,000	0,000	0,000	0,000
1058	2,353	-20,000	0,000	0,000	0,000	0,000
1059	2,941	-20,000	0,000	0,000	0,000	0,000
1063	1,176	-20,000	0,000	0,000	0,000	0,000
1067	3,529	-20,000	0,000	0,000	0,000	0,000
1071	4,118	-20,000	0,000	0,000	0,000	0,000
1072	4,706	-20,000	0,000	0,000	0,000	0,000
1073	5,294	-20,000	0,000	0,000	0,000	0,000
1133	5,882	-20,000	0,000	0,000	0,000	0,000
1134	6,471	-20,000	0,000	0,000	0,000	0,000
1135	7,059	-20,000	0,000	0,000	0,000	0,000
1136	7,647	-20,000	0,000	0,000	0,000	0,000
1143	8,235	-20,000	0,000	0,000	0,000	0,000
1147	8,824	-20,000	0,000	0,000	0,000	0,000
1148	9,412	-20,000	0,000	0,000	0,000	0,000
1149	10,000	-20,000	0,000	0,000	0,000	0,000
1165	-20,000	-2,222	0,000	0,000	-36,677	-73,266
1166	-20,000	-0,556	0,000	0,000	-34,233	-68,363
1167	-20,000	-1,111	0,000	0,000	-35,049	-70,001
1168	-20,000	-1,667	0,000	0,000	-35,869	-71,645
1352	-20,000	0,000	0,000	0,000	-33,436	-66,767

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
1353	-20,000	1,500	0,000	0,000	-31,549	-62,983
1354	-20,000	1,000	0,000	0,000	-32,121	-64,129
1355	-20,000	0,500	0,000	0,000	-32,754	-65,399
1505	11,176	-20,000	0,000	0,000	0,000	0,000
1506	11,765	-20,000	0,000	0,000	0,000	0,000
1507	12,353	-20,000	0,000	0,000	0,000	0,000
1511	10,588	-20,000	0,000	0,000	0,000	0,000
1515	12,941	-20,000	0,000	0,000	0,000	0,000
1519	13,529	-20,000	0,000	0,000	0,000	0,000
1520	14,118	-20,000	0,000	0,000	0,000	0,000
1521	14,706	-20,000	0,000	0,000	0,000	0,000
1531	15,294	-20,000	0,000	0,000	0,000	0,000
1535	15,882	-20,000	0,000	0,000	0,000	0,000
1536	16,471	-20,000	0,000	0,000	0,000	0,000
1537	17,059	-20,000	0,000	0,000	0,000	0,000
1585	17,647	-20,000	0,000	0,000	0,000	0,000
1589	18,235	-20,000	0,000	0,000	0,000	0,000
1590	18,824	-20,000	0,000	0,000	0,000	0,000
1591	19,412	-20,000	0,000	0,000	0,000	0,000
1592	20,000	-20,000	0,000	0,000	0,000	0,000
1593	20,000	-19,400	0,000	0,000	-7,416	-14,831
1594	20,000	-18,800	0,000	0,000	-14,744	-29,486
1595	20,000	-18,200	0,000	0,000	-21,970	-43,937
1871	-20,000	3,500	0,000	0,000	-30,163	-60,208
1872	-20,000	3,000	0,000	0,000	-30,346	-60,573
1873	-20,000	2,500	0,000	0,000	-30,646	-61,174
1877	-20,000	2,000	0,000	0,000	-31,052	-61,988
1881	-20,000	4,000	0,000	0,000	-30,110	-60,102
1882	-18,249	4,000	-78,256	-126,736	-32,636	-65,155
1883	-18,833	4,000	-38,521	-57,050	-31,230	-62,344
1884	-19,416	4,000	-15,087	-20,137	-30,389	-60,662

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
1885	-20,000	5,500	0,000	0,000	-30,837	-61,566
1886	-20,000	5,000	0,000	0,000	-30,437	-60,763
1887	-20,000	4,500	0,000	0,000	-30,197	-60,280
2009	20,000	-17,599	0,000	0,000	-28,979	-57,953
2013	20,000	-16,999	0,000	0,000	-35,997	-71,987
2014	20,000	-16,399	0,000	0,000	-42,815	-85,621
2015	20,000	-15,799	0,000	0,000	-49,489	-98,968
2019	-16,095	4,001	-509,078	-955,799	-42,838	-85,562
2020	-16,619	4,001	-348,584	-641,974	-39,615	-79,116
2021	-17,142	4,000	-228,717	-409,978	-36,877	-73,638
2031	-17,665	4,000	-142,694	-246,112	-34,613	-69,109
2047	-20,000	8,000	0,000	0,000	-35,422	-70,765
2048	-20,000	7,500	0,000	0,000	-34,153	-68,219
2049	-20,000	7,000	0,000	0,000	-33,059	-66,026
2050	-20,000	6,500	0,000	0,000	-32,143	-64,188
2051	-18,285	8,000	10,880	21,814	-37,816	-75,553
2052	-18,857	8,000	7,247	14,531	-36,485	-72,890
2053	-19,428	8,000	3,622	7,262	-35,688	-71,296
2057	-20,000	6,000	0,000	0,000	-31,404	-62,704
2061	-17,713	8,000	14,521	29,116	-39,688	-79,297
2065	-16,150	8,000	24,559	49,249	-47,636	-95,194
2066	-16,671	8,000	21,198	42,507	-44,518	-88,957
2067	-17,192	8,000	17,853	35,798	-41,872	-83,664
2363	20,000	-15,199	0,000	0,000	-56,035	-112,058
2367	20,000	-14,599	0,000	0,000	-62,445	-124,876
2368	20,000	-13,998	0,000	0,000	-68,718	-137,420
2369	20,000	-13,398	0,000	0,000	-74,838	-149,659
2427	-15,572	4,001	-717,371	-1,366	-46,556	-93,000
2431	-14,165	4,001	-1,579	-3,077	-59,128	-118,155
2432	-14,634	4,001	-1,236	-2,395	-54,508	-108,910
2433	-15,103	4,001	-951,310	-1,829	-50,321	-100,534

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
2525	-15,628	8,000	27,937	56,027	-51,237	-102,396
2529	-14,203	8,000	37,281	74,786	-63,659	-127,241
2530	-14,678	8,000	34,148	68,494	-59,088	-118,097
2531	-15,153	8,000	31,034	62,242	-54,951	-109,824
2803	20,000	-12,798	0,000	0,000	-80,789	-161,559
2807	20,000	-12,198	0,000	0,000	-86,563	-173,103
2808	20,000	-11,598	0,000	0,000	-92,148	-184,273
2809	20,000	-10,998	0,000	0,000	-97,526	-195,026
2829	-13,696	4,001	-1,986	-3,888	-64,196	-128,298
2830	-12,435	4,001	-3,462	-6,839	-80,178	-160,290
2831	-12,855	4,001	-2,902	-5,718	-74,455	-148,833
2832	-13,276	4,001	-2,412	-4,738	-69,132	-138,179
2839	-13,727	8,000	40,433	81,120	-68,680	-137,283
2843	-12,428	8,000	49,137	98,658	-84,838	-169,603
2844	-12,861	8,000	46,227	92,781	-79,045	-158,013
2845	-13,294	8,000	43,323	86,933	-73,663	-147,249
3247	-12,015	4,001	-4,100	-8,114	-86,317	-172,581
3251	-10,884	4,001	-6,257	-12,432	-105,034	-210,054
3252	-11,261	4,001	-5,460	-10,837	-98,422	-196,817
3253	-11,638	4,001	-4,743	-9,402	-92,188	-184,336
3305	-11,994	8,000	52,034	104,545	-91,066	-182,058
3306	-10,809	8,000	60,521	121,338	-110,327	-220,699
3307	-11,204	8,000	57,570	115,597	-103,424	-206,938
3308	-11,599	8,000	54,661	109,919	-97,036	-194,096
3441	20,000	-10,397	0,000	0,000	-102,676	-205,325
3442	20,000	-9,797	0,000	0,000	-107,588	-215,145
3443	20,000	-9,197	0,000	0,000	-112,248	-224,465
3444	20,000	-8,597	0,000	0,000	-116,639	-233,244
3483	0,000	-1,929	-57,974	-115,933	-375,330	-750,740
3484	0,000	-1,857	-58,186	-116,357	-377,573	-755,227
3485	0,000	-1,786	-58,399	-116,784	-379,826	-759,733

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
3489	0,000	-1,714	-58,613	-117,212	-382,089	-764,259
3490	0,000	-1,643	-58,828	-117,642	-384,361	-768,804
3491	0,000	-1,571	-59,044	-118,074	-386,643	-773,369
3492	0,000	-1,500	-59,261	-118,508	-388,936	-777,955
3515	0,000	-2,000	-57,763	-115,511	-373,097	-746,273
3525	0,000	-1,357	-59,698	-119,382	-393,550	-787,184
3526	0,000	-1,285	-59,918	-119,821	-395,872	-791,829
3527	0,000	-1,214	-60,138	-120,263	-398,204	-796,495
3531	0,000	-1,428	-59,479	-118,944	-391,238	-782,559
3547	0,000	-1,142	-60,360	-120,706	-400,547	-801,179
3548	0,000	-1,071	-60,582	-121,151	-402,899	-805,884
3549	0,000	-0,999	-60,805	-121,597	-405,261	-810,610
3550	0,000	-0,928	-61,029	-122,046	-407,634	-815,356
3633	20,000	-7,997	0,000	0,000	-120,739	-241,443
3637	20,000	-7,397	0,000	0,000	-124,537	-249,037
3638	20,000	-6,796	0,000	0,000	-128,023	-256,006
3639	20,000	-6,196	0,000	0,000	-131,180	-262,317
3789	-10,508	4,002	-7,139	-14,200	-112,038	-224,080
3790	-9,494	4,002	-9,993	-19,915	-132,971	-265,987
3791	-9,832	4,002	-8,959	-17,843	-125,639	-251,309
3792	-10,170	4,002	-8,009	-15,941	-118,666	-237,349
3809	-10,414	8,000	63,165	126,794	-117,684	-235,336
3813	-9,334	8,000	71,094	142,535	-139,810	-279,689
3814	-9,694	8,000	68,365	137,183	-131,946	-264,022
3815	-10,054	8,000	65,588	131,802	-124,602	-249,275
3835	-9,157	4,002	-11,119	-22,169	-140,678	-281,418
3839	-8,248	4,002	-14,645	-29,228	-163,409	-326,917
3840	-8,551	4,002	-13,384	-26,704	-155,493	-311,072
3841	-8,854	4,002	-12,211	-24,354	-147,921	-295,916
3993	0,000	-0,785	-61,480	-122,947	-412,409	-824,907
3994	0,000	-0,714	-61,706	-123,399	-414,812	-829,714

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
3995	0,000	-0,642	-61,933	-123,853	-417,225	-834,540
3999	0,000	-0,857	-61,254	-122,495	-410,016	-820,121
4009	0,000	-0,571	-62,161	-124,309	-419,648	-839,387
4013	0,000	-0,499	-62,389	-124,766	-422,081	-844,253
4014	0,000	-0,428	-62,618	-125,223	-424,524	-849,141
4015	0,000	-0,356	-62,847	-125,682	-426,978	-854,048
4189	20,000	-5,596	0,000	0,000	-133,995	-267,946
4193	20,000	-4,996	0,000	0,000	-136,465	-272,885
4194	20,000	-4,396	0,000	0,000	-138,590	-277,132
4195	20,000	-3,796	0,000	0,000	-140,366	-280,682
4215	0,000	-0,213	-63,307	-126,603	-431,914	-863,923
4216	0,000	-0,142	-63,538	-127,064	-434,398	-868,890
4217	0,000	-0,070	-63,769	-127,526	-436,892	-873,878
4221	0,000	-0,285	-63,077	-126,142	-429,441	-858,975
4303	-8,974	8,000	73,386	147,470	-148,140	-296,242
4307	-7,989	8,000	81,371	162,790	-172,651	-345,563
4308	-8,317	8,000	78,438	157,395	-163,852	-328,097
4309	-8,645	8,000	75,573	152,085	-155,724	-311,705
4415	-7,132	4,002	-20,120	-40,192	-195,858	-391,853
4416	-7,403	4,002	-18,663	-37,274	-187,476	-375,081
4417	-7,674	4,002	-17,289	-34,524	-179,423	-358,966
4421	-7,946	4,002	-15,996	-31,935	-171,686	-343,481
4447	-6,860	4,002	-21,663	-43,285	-204,583	-409,311
4451	-6,131	4,002	-26,269	-52,513	-229,867	-459,902
4452	-6,374	4,002	-24,658	-49,285	-221,131	-442,422
4453	-6,617	4,002	-23,123	-46,210	-212,707	-425,567
4505	20,000	-3,195	0,000	0,000	-141,793	-283,535
4509	20,000	-2,595	0,000	0,000	-142,885	-285,716
4510	20,000	-1,995	0,000	0,000	-143,658	-287,260
4511	20,000	-1,395	0,000	0,000	-144,131	-288,204
4589	0,000	0,001	-64,000	-127,989	-439,395	-878,885

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
4590	0,000	0,073	-64,231	-128,452	-441,908	-883,912
4591	0,000	0,144	-64,462	-128,915	-444,431	-888,959
4592	0,000	0,215	-64,694	-129,377	-446,964	-894,026
4631	-7,660	8,000	83,556	167,455	-181,942	-363,945
4635	-6,762	8,000	91,080	181,852	-208,899	-418,125
4636	-7,062	8,000	88,224	176,690	-199,279	-399,026
4637	-7,361	8,000	85,408	171,583	-190,365	-381,045
4685	0,000	0,287	-64,925	-129,840	-449,507	-899,112
4686	0,000	0,358	-65,156	-130,302	-452,059	-904,217
4687	0,000	0,430	-65,387	-130,764	-454,621	-909,342
4688	0,000	0,501	-65,617	-131,225	-457,193	-914,485
4847	-5,234	4,002	-32,896	-65,793	-265,013	-530,226
4848	-5,452	4,002	-31,185	-62,365	-256,028	-512,248
4849	-5,670	4,002	-29,539	-59,067	-247,337	-494,857
4850	-5,888	4,002	-27,958	-55,898	-238,928	-478,032
4857	-5,016	4,002	-34,672	-69,349	-274,303	-548,815
4858	-4,429	4,003	-39,759	-79,535	-300,889	-602,009
4859	-4,625	4,003	-38,014	-76,042	-291,758	-583,739
4860	-4,820	4,002	-36,318	-72,645	-282,899	-566,014
4993	-3,709	4,003	-46,567	-93,161	-337,079	-674,409
4994	-3,884	4,003	-44,865	-89,755	-327,909	-656,065
4995	-4,059	4,003	-43,191	-86,405	-318,985	-638,214
4999	-4,234	4,003	-41,549	-83,119	-310,302	-620,841
5015	-3,534	4,003	-48,293	-96,614	-346,502	-693,258
5016	-3,063	4,003	-53,010	-106,051	-373,138	-746,533
5017	-3,220	4,003	-51,430	-102,890	-364,045	-728,347
5018	-3,377	4,003	-49,856	-99,741	-355,167	-710,591
5115	20,000	-0,795	0,000	0,000	-144,330	-288,599
5119	20,000	-0,195	0,000	0,000	-144,290	-288,517
5120	20,000	0,406	0,000	0,000	-144,056	-288,045
5121	20,000	1,006	0,000	0,000	-143,672	-287,276

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
5141	0,000	0,573	-65,847	-131,685	-459,774	-919,647
5142	0,000	0,644	-66,076	-132,144	-462,364	-924,828
5143	0,000	0,716	-66,304	-132,601	-464,963	-930,028
5144	0,000	0,787	-66,531	-133,056	-467,572	-935,246
5151	0,000	0,859	-66,757	-133,509	-470,190	-940,482
5152	0,000	0,930	-66,983	-133,959	-472,816	-945,735
5153	0,000	1,002	-67,206	-134,407	-475,451	-951,006
5154	0,000	1,073	-67,428	-134,852	-478,095	-956,294
5187	0,000	1,216	-67,867	-135,730	-483,407	-966,920
5188	0,000	1,288	-68,083	-136,162	-486,076	-972,258
5189	0,000	1,359	-68,296	-136,590	-488,752	-977,611
5193	0,000	1,145	-67,648	-135,293	-480,747	-961,599
5203	0,000	1,430	-68,507	-137,012	-491,436	-982,979
5204	0,000	1,502	-68,715	-137,429	-494,128	-988,363
5205	0,000	1,573	-68,920	-137,839	-496,826	-993,760
5206	0,000	1,645	-69,121	-138,242	-499,532	-999,172
5213	-6,463	8,000	93,123	186,215	-219,127	-438,266
5217	-5,644	8,000	99,457	198,972	-248,536	-497,222
5218	-5,917	8,000	97,099	194,461	-238,203	-476,622
5219	-6,190	8,000	94,846	190,067	-228,433	-457,011
5277	-5,371	8,000	101,356	203,037	-259,353	-518,759
5281	-4,625	8,000	107,137	214,804	-291,102	-582,375
5282	-4,873	8,000	105,239	210,901	-280,018	-560,230
5283	-5,122	8,000	103,098	206,764	-269,451	-539,048
5287	0,000	1,788	-69,511	-139,025	-504,962	-1,010
5288	0,000	1,859	-69,700	-139,403	-507,687	-1,015
5289	0,000	1,931	-69,884	-139,772	-510,418	-1,021
5293	0,000	1,716	-69,318	-138,638	-502,244	-1,005
5309	0,000	2,002	-70,063	-140,130	-513,153	-1,026
5313	0,000	2,074	-70,236	-140,477	-515,894	-1,032
5314	0,000	2,145	-70,403	-140,812	-518,640	-1,037

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
5315	0,000	2,217	-70,563	-141,134	-521,390	-1,043
5351	-2,483	4,003	-58,786	-117,604	-408,589	-817,428
5352	-2,624	4,003	-57,402	-114,835	-399,696	-799,645
5353	-2,765	4,003	-56,001	-112,033	-390,983	-782,221
5357	-2,906	4,003	-54,590	-109,211	-382,449	-765,155
5373	-2,343	4,003	-60,147	-120,327	-417,662	-835,570
5374	-1,964	4,003	-63,637	-127,308	-442,945	-886,122
5375	-2,091	4,003	-62,507	-125,049	-434,375	-868,988
5376	-2,217	4,003	-61,342	-122,718	-425,947	-852,136
5437	20,000	1,606	0,000	0,000	-143,193	-286,313
5441	20,000	2,206	0,000	0,000	-142,676	-285,277
5442	20,000	2,806	0,000	0,000	-142,190	-284,302
5443	20,000	3,406	0,000	0,000	-141,800	-283,518
5599	0,000	2,360	-70,862	-141,734	-526,901	-1,054
5600	0,000	2,431	-71,000	-142,011	-529,661	-1,059
5601	0,000	2,502	-71,129	-142,270	-532,424	-1,065
5605	0,000	2,288	-70,716	-141,442	-524,144	-1,048
5621	0,000	2,574	-71,249	-142,511	-535,189	-1,070
5622	0,000	2,645	-71,358	-142,732	-537,955	-1,076
5623	0,000	2,717	-71,458	-142,932	-540,722	-1,082
5624	0,000	2,788	-71,546	-143,109	-543,489	-1,087
5679	-4,376	8,000	108,383	218,066	-302,607	-605,422
5683	-3,695	8,000	115,156	230,405	-336,461	-673,556
5684	-3,922	8,000	112,976	226,361	-324,526	-649,722
5685	-4,149	8,000	110,654	222,184	-313,156	-626,936
5727	20,000	4,007	0,000	0,000	-141,571	-283,057
5728	19,416	4,006	919,436	1,835	-142,138	-284,192
5729	18,833	4,006	1,867	3,726	-143,843	-287,603
5730	18,249	4,006	2,871	5,730	-146,697	-293,314
5731	20,000	4,506	0,000	0,000	-141,552	-283,018
5732	20,000	5,005	0,000	0,000	-141,730	-283,372

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
5733	20,000	5,504	0,000	0,000	-142,137	-284,187
5753	-3,468	8,000	117,060	234,182	-348,924	-698,432
5757	-2,848	8,000	122,920	245,204	-385,822	-772,233
5758	-3,055	8,000	120,834	241,390	-372,939	-746,534
5759	-3,261	8,000	118,811	237,646	-360,676	-721,982
5769	20,000	6,003	0,000	0,000	-142,804	-285,523
5773	20,000	6,502	0,000	0,000	-143,758	-287,436
5774	20,000	7,002	0,000	0,000	-145,023	-289,971
5775	20,000	7,501	0,000	0,000	-146,614	-293,160
5776	20,000	8,000	0,000	0,000	-148,542	-297,024
5777	19,375	8,000	-6,131	-12,284	-149,168	-298,276
5778	18,750	8,000	-12,261	-24,567	-151,051	-302,041
5779	18,125	8,000	-18,388	-36,846	-154,204	-308,347
5815	-1,499	4,003	-67,377	-134,792	-475,731	-951,673
5816	-1,612	4,003	-66,541	-133,120	-467,601	-935,419
5817	-1,725	4,003	-65,655	-131,346	-459,574	-919,371
5821	-1,838	4,003	-64,723	-129,482	-451,653	-903,533
5837	-1,386	4,003	-68,155	-136,349	-483,958	-968,123
5841	-1,082	4,003	-69,913	-139,868	-506,528	-1,013
5842	-1,183	4,003	-69,386	-138,814	-498,937	-998,070
5843	-1,285	4,003	-68,798	-137,637	-491,413	-983,026
6021	0,000	2,931	-71,684	-143,390	-549,023	-1,098
6022	0,000	3,003	-71,734	-143,490	-551,787	-1,104
6023	0,000	3,074	-71,768	-143,561	-554,549	-1,109
6027	0,000	2,860	-71,621	-143,263	-546,257	-1,093
6043	0,000	3,146	-71,787	-143,600	-557,308	-1,115
6047	0,000	3,217	-71,789	-143,607	-560,063	-1,120
6048	0,000	3,289	-71,774	-143,578	-562,813	-1,126
6049	0,000	3,360	-71,740	-143,512	-565,558	-1,131
6085	15,103	4,006	10,537	21,051	-183,001	-365,983
6086	14,634	4,006	12,207	24,387	-191,719	-383,430

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
6087	14,165	4,006	14,069	28,104	-201,400	-402,803
6091	15,572	4,006	9,040	18,059	-175,203	-350,375
6092	17,142	4,006	5,033	10,049	-155,332	-310,598
6093	16,619	4,006	6,221	12,425	-160,930	-321,803
6094	16,095	4,006	7,548	15,078	-167,541	-335,037
6101	17,665	4,006	3,959	7,905	-150,717	-301,360
6111	17,500	8,000	-24,509	-49,118	-158,649	-317,237
6115	16,875	8,000	-30,625	-61,383	-164,418	-328,778
6116	16,250	8,000	-36,730	-73,633	-171,557	-343,056
6117	15,625	8,000	-42,803	-85,849	-180,122	-360,186
6149	-2,641	8,000	124,699	248,718	-399,548	-799,344
6153	-2,075	8,000	129,564	258,362	-439,234	-878,933
6154	-2,264	8,000	127,534	254,733	-425,269	-851,087
6155	-2,452	8,000	125,619	251,225	-412,104	-824,636
6159	-1,887	8,000	130,859	261,260	-453,927	-908,150
6163	-1,371	8,000	136,004	270,822	-497,334	-995,084
6164	-1,543	8,000	134,062	267,403	-482,046	-964,611
6165	-1,715	8,000	132,148	264,016	-467,655	-935,731
6191	-0,708	4,003	-71,246	-142,539	-535,003	-1,070
6192	-0,799	4,003	-71,019	-142,083	-528,026	-1,056
6193	-0,890	4,003	-70,727	-141,498	-521,083	-1,042
6197	-0,618	4,003	-71,404	-142,857	-542,008	-1,084
6198	-0,373	4,003	-71,460	-142,971	-560,933	-1,122
6199	-0,455	4,003	-71,505	-143,059	-554,615	-1,109
6200	-0,536	4,003	-71,485	-143,019	-548,305	-1,097
6207	-0,981	4,003	-70,374	-140,791	-514,179	-1,029
6297	0,000	3,503	-71,610	-143,257	-571,026	-1,142
6298	0,000	3,574	-71,512	-143,063	-573,748	-1,148
6299	0,000	3,646	-71,390	-142,822	-576,461	-1,153
6303	0,000	3,432	-71,686	-143,406	-568,296	-1,137
6313	0,000	3,717	-71,243	-142,529	-579,162	-1,158

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
6317	0,000	3,789	-71,068	-142,183	-581,852	-1,164
6318	0,000	3,860	-70,865	-141,779	-584,529	-1,169
6319	0,000	3,932	-70,631	-141,314	-587,192	-1,175
6391	15,000	8,000	-48,813	-97,997	-190,179	-380,302
6395	14,375	8,000	-54,768	-110,085	-201,617	-403,382
6396	13,750	8,000	-61,320	-122,765	-214,829	-429,924
6397	13,125	8,000	-67,815	-135,382	-230,096	-460,341
6401	-1,199	8,000	137,426	273,724	-513,621	-1,027
6405	-0,728	8,000	140,424	280,807	-561,885	-1,124
6406	-0,885	8,000	139,424	278,438	-545,040	-1,090
6407	-1,042	8,000	138,400	276,053	-528,968	-1,058
6439	-0,292	4,003	-71,349	-142,750	-567,253	-1,135
6440	-0,073	4,003	-70,701	-141,456	-584,212	-1,169
6441	-0,146	4,003	-70,975	-142,004	-578,569	-1,157
6442	-0,219	4,003	-71,191	-142,435	-572,914	-1,146
6449	0,000	4,003	-70,365	-140,785	-589,839	-1,180
6450	0,000	4,080	-70,041	-140,141	-592,657	-1,185
6451	0,000	4,156	-69,676	-139,414	-595,453	-1,191
6452	0,000	4,233	-69,266	-138,598	-598,226	-1,197
6453	0,219	4,003	-68,975	-138,008	-606,571	-1,213
6454	0,146	4,003	-69,503	-139,064	-601,024	-1,202
6455	0,073	4,003	-69,966	-139,988	-595,445	-1,191
6481	11,638	4,005	28,218	56,365	-272,643	-545,281
6482	11,261	4,005	31,020	61,965	-286,464	-572,915
6483	10,884	4,005	34,014	67,949	-301,255	-602,488
6487	12,015	4,005	25,609	51,150	-259,737	-519,477
6488	13,276	4,005	18,197	36,346	-222,593	-445,199
6489	12,855	4,005	20,451	40,847	-233,997	-468,006
6490	12,435	4,005	22,918	45,774	-246,360	-492,728
6497	13,696	4,006	16,143	32,245	-212,096	-424,202
6563	8,854	4,005	52,801	105,512	-400,121	-800,171

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
6564	8,551	4,005	55,739	111,387	-417,956	-835,834
6565	8,248	4,005	58,588	117,084	-436,644	-873,206
6569	9,157	4,005	49,834	99,579	-383,134	-766,202
6570	10,170	4,005	40,193	80,301	-332,171	-664,301
6571	9,832	4,005	43,317	86,548	-348,187	-696,323
6572	9,494	4,005	46,543	92,998	-365,161	-730,264
6579	10,508	4,005	37,194	74,306	-317,073	-634,114
6606	12,500	8,000	-73,704	-147,383	-247,401	-494,781
6610	11,875	8,000	-79,669	-159,447	-266,617	-533,312
6611	11,250	8,000	-85,980	-171,847	-288,318	-576,758
6612	10,625	8,000	-92,202	-184,155	-312,911	-625,859
6653	0,292	4,003	-68,380	-136,818	-612,081	-1,224
6654	0,536	4,003	-65,884	-131,831	-630,179	-1,260
6655	0,455	4,003	-66,803	-133,668	-624,213	-1,249
6656	0,373	4,003	-67,635	-135,329	-618,178	-1,236
6663	0,000	4,310	-68,809	-137,687	-600,975	-1,202
6664	0,000	4,393	-68,252	-136,577	-603,941	-1,208
6665	0,000	4,477	-67,630	-135,339	-606,873	-1,214
6666	0,000	4,560	-66,940	-133,963	-609,767	-1,220
6673	0,618	4,003	-64,877	-129,816	-636,066	-1,272
6674	0,890	4,003	-60,849	-121,765	-655,094	-1,310
6675	0,799	4,003	-62,304	-124,673	-648,880	-1,298
6676	0,708	4,003	-63,646	-127,357	-642,533	-1,285
6689	-0,572	8,000	141,316	283,076	-579,543	-1,159
6693	-0,143	8,000	146,591	292,117	-634,250	-1,269
6694	-0,286	8,000	144,843	289,112	-614,676	-1,230
6695	-0,429	8,000	142,989	285,997	-596,458	-1,193
6699	6,617	4,004	68,630	137,160	-550,487	-1,101
6700	6,374	4,004	68,648	137,194	-568,726	-1,137
6701	6,131	4,004	68,076	136,047	-586,991	-1,174
6705	6,860	4,004	68,094	136,089	-532,412	-1,065

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
6706	7,674	4,005	63,479	126,863	-474,383	-948,678
6707	7,403	4,004	65,407	130,718	-493,203	-986,316
6708	7,132	4,004	66,977	133,855	-512,576	-1,025
6715	7,946	4,005	61,277	122,460	-456,178	-912,271
6837	0,000	5,513	-52,325	-104,810	-639,060	-1,278
6838	0,000	5,622	-49,600	-99,372	-641,801	-1,284
6839	0,000	5,730	-46,583	-93,351	-644,386	-1,289
6843	0,000	5,956	-39,217	-78,647	-649,231	-1,299
6844	0,000	6,074	-34,725	-69,681	-651,432	-1,303
6845	0,000	6,192	-29,733	-59,715	-653,389	-1,307
6849	0,000	5,838	-43,247	-86,692	-646,804	-1,294
6859	0,000	6,311	-24,192	-48,652	-655,085	-1,310
6860	0,000	6,439	-17,455	-35,201	-656,619	-1,313
6861	0,000	6,568	-9,923	-20,160	-657,812	-1,316
6862	0,000	6,697	-1,480	-3,300	-658,662	-1,317
6869	0,000	6,966	19,091	37,789	-659,124	-1,318
6870	0,000	7,107	32,002	63,585	-658,776	-1,318
6871	0,000	7,247	46,473	92,501	-658,159	-1,316
6875	0,000	6,826	8,062	15,762	-659,185	-1,319
6885	0,000	7,387	62,417	124,360	-657,290	-1,315
6886	0,000	8,000	147,683	294,426	-655,244	-1,311
6887	0,000	7,541	81,483	162,511	-656,318	-1,313
6888	0,000	7,694	102,307	204,117	-655,489	-1,311
6889	0,000	7,847	124,570	248,499	-655,133	-1,310
6893	0,750	8,000	156,809	312,135	-800,811	-1,602
6894	0,500	8,000	152,276	303,999	-741,873	-1,484
6895	0,250	8,000	148,918	297,544	-695,396	-1,391
6899	2,217	4,004	-27,864	-55,814	-723,368	-1,447
6900	2,091	4,004	-31,797	-63,678	-719,161	-1,438
6901	1,964	4,004	-35,598	-71,279	-714,402	-1,429
6905	2,343	4,004	-23,815	-47,718	-727,004	-1,454

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
6906	2,765	4,004	-9,650	-19,395	-734,827	-1,470
6907	2,624	4,004	-14,452	-28,997	-732,979	-1,466
6908	2,483	4,004	-19,183	-38,455	-730,367	-1,461
6915	3,377	4,004	11,404	22,707	-733,818	-1,468
6916	3,220	4,004	6,041	11,983	-735,479	-1,471
6917	3,063	4,004	626,754	1,156	-736,175	-1,472
6921	2,906	4,004	-4,802	-9,701	-735,899	-1,472
6931	3,534	4,004	16,679	33,255	-731,205	-1,462
6932	4,059	4,004	33,237	66,368	-715,859	-1,432
6933	3,884	4,004	27,949	55,793	-722,061	-1,444
6934	3,709	4,004	22,415	44,726	-727,193	-1,454
6941	4,820	4,004	52,465	104,822	-678,042	-1,356
6942	4,625	4,004	48,189	96,271	-689,243	-1,378
6943	4,429	4,004	43,436	86,765	-699,481	-1,399
6947	4,234	4,004	38,239	76,371	-708,644	-1,417
6957	5,016	4,004	56,240	112,372	-665,996	-1,332
6958	5,670	4,004	65,131	130,156	-621,110	-1,242
6959	5,452	4,004	62,805	125,503	-636,692	-1,273
6960	5,234	4,004	59,844	119,581	-651,709	-1,303
6967	5,888	4,004	66,844	133,584	-605,123	-1,210
6977	10,000	8,000	-98,148	-196,173	-340,707	-681,349
6981	9,375	8,000	-104,081	-208,128	-372,101	-744,140
6982	8,750	8,000	-110,066	-220,152	-407,931	-815,796
6983	8,125	8,000	-116,107	-232,271	-449,302	-898,539
6987	1,285	4,003	-53,232	-106,537	-680,276	-1,361
6988	1,183	4,003	-55,385	-110,840	-674,129	-1,348
6989	1,082	4,003	-57,402	-114,874	-667,753	-1,336
6993	0,981	4,003	-59,282	-118,633	-661,165	-1,322
7003	1,386	4,003	-50,948	-101,969	-686,178	-1,372
7004	1,725	4,004	-42,392	-84,863	-703,941	-1,408
7005	1,612	4,004	-45,393	-90,862	-698,381	-1,397

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
7006	1,499	4,004	-48,247	-96,569	-692,453	-1,385
7013	1,838	4,004	-39,253	-78,586	-709,113	-1,418
7049	0,000	4,735	-65,252	-130,598	-615,682	-1,231
7050	0,000	4,826	-64,227	-128,555	-618,687	-1,238
7051	0,000	4,917	-63,094	-126,294	-621,632	-1,243
7055	0,000	4,644	-66,176	-132,440	-612,620	-1,225
7075	0,000	5,008	-61,843	-123,800	-624,510	-1,249
7076	0,000	5,107	-60,335	-120,791	-627,569	-1,255
7077	0,000	5,206	-58,664	-117,459	-630,538	-1,261
7078	0,000	5,306	-56,818	-113,776	-633,408	-1,267
7085	0,000	5,405	-54,782	-109,713	-636,173	-1,272
7155	7,500	8,000	-122,176	-244,443	-498,239	-996,411
7160	1,000	8,000	151,684	302,233	-893,277	-1,787
7188	6,875	8,000	-127,209	-254,543	-556,451	-1,113
7192	6,250	8,000	-134,164	-268,486	-627,847	-1,256
7193	5,625	8,000	-141,341	-282,874	-722,887	-1,446
7194	5,000	8,000	-140,033	-280,298	-893,950	-1,788
7204	2,500	8,000	42,386	84,310	-1,139	-2,278
7208	2,000	8,000	82,097	163,642	-1,102	-2,205
7209	1,500	8,000	119,109	237,477	-1,031	-2,063
7213	3,000	8,000	5,085	9,770	-1,151	-2,302
7227	4,500	8,000	-109,266	-218,797	-1,036	-2,071
7228	4,000	8,000	-71,160	-142,622	-1,104	-2,208
7230	3,500	8,000	-32,046	-64,439	-1,140	-2,280

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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7. Results for phase 2

Table [11] Table of deformations phase no: 2

Node No.	x-coord.	y-coord.	dUx [10⁻⁶ m]	Ux [10⁻⁶ m]	dUy [10⁻⁶ m]	Uy [10⁻³ m]
1	-20,000	-18,333	0,000	0,000	-1,899	-31,544
2	-20,000	-18,889	0,000	0,000	-1,299	-21,794
3	-20,000	-19,444	0,000	0,000	-667,253	-11,318
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	-4,001	-66,198
18	-20,000	-16,667	0,000	0,000	-3,517	-58,484
19	-20,000	-17,222	0,000	0,000	-3,006	-50,228
26	-20,000	-17,778	0,000	0,000	-2,467	-40,909
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
49	-20,000	-15,556	0,000	0,000	-4,460	-73,522
53	-20,000	-13,889	0,000	0,000	-5,686	-92,627
54	-20,000	-14,444	0,000	0,000	-5,301	-86,733
55	-20,000	-15,000	0,000	0,000	-4,893	-80,367
59	-15,294	-20,000	0,000	0,000	0,000	0,000
63	-14,706	-20,000	0,000	0,000	0,000	0,000
64	-14,118	-20,000	0,000	0,000	0,000	0,000
65	-13,529	-20,000	0,000	0,000	0,000	0,000
125	-20,000	-13,333	0,000	0,000	-6,047	-98,051
129	-20,000	-11,667	0,000	0,000	-6,989	-111,639
130	-20,000	-12,222	0,000	0,000	-6,698	-107,552

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011


Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
131	-20,000	-12,778	0,000	0,000	-6,384	-103,021
215	-12,941	-20,000	0,000	0,000	0,000	0,000
219	-12,353	-20,000	0,000	0,000	0,000	0,000
220	-11,765	-20,000	0,000	0,000	0,000	0,000
221	-11,176	-20,000	0,000	0,000	0,000	0,000
225	-10,588	-20,000	0,000	0,000	0,000	0,000
229	-10,000	-20,000	0,000	0,000	0,000	0,000
230	-9,412	-20,000	0,000	0,000	0,000	0,000
231	-8,824	-20,000	0,000	0,000	0,000	0,000
263	-20,000	-11,111	0,000	0,000	-7,257	-115,280
264	-20,000	-9,444	0,000	0,000	-7,926	-123,665
265	-20,000	-10,000	0,000	0,000	-7,725	-121,287
266	-20,000	-10,556	0,000	0,000	-7,502	-118,491
407	-8,235	-20,000	0,000	0,000	0,000	0,000
411	-7,647	-20,000	0,000	0,000	0,000	0,000
412	-7,059	-20,000	0,000	0,000	0,000	0,000
413	-6,471	-20,000	0,000	0,000	0,000	0,000
417	-20,000	-8,889	0,000	0,000	-8,106	-125,626
421	-20,000	-7,222	0,000	0,000	-8,523	-129,158
422	-20,000	-7,778	0,000	0,000	-8,403	-128,361
423	-20,000	-8,333	0,000	0,000	-8,265	-127,186
471	-5,882	-20,000	0,000	0,000	0,000	0,000
475	-5,294	-20,000	0,000	0,000	0,000	0,000
476	-4,706	-20,000	0,000	0,000	0,000	0,000
477	-4,118	-20,000	0,000	0,000	0,000	0,000
625	-20,000	-6,667	0,000	0,000	-8,623	-129,586
626	-20,000	-5,000	0,000	0,000	-8,824	-128,912
627	-20,000	-5,556	0,000	0,000	-8,773	-129,439
628	-20,000	-6,111	0,000	0,000	-8,706	-129,670
785	-3,529	-20,000	0,000	0,000	0,000	0,000
789	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
790	-2,353	-20,000	0,000	0,000	0,000	0,000
791	-1,765	-20,000	0,000	0,000	0,000	0,000
795	-1,176	-20,000	0,000	0,000	0,000	0,000
799	-0,588	-20,000	0,000	0,000	0,000	0,000
800	0,000	-20,000	0,000	0,000	0,000	0,000
801	0,588	-20,000	0,000	0,000	0,000	0,000
830	-20,000	-4,444	0,000	0,000	-8,863	-128,108
831	-20,000	-2,778	0,000	0,000	-8,915	-124,408
832	-20,000	-3,333	0,000	0,000	-8,906	-125,822
833	-20,000	-3,889	0,000	0,000	-8,889	-127,066
1057	1,765	-20,000	0,000	0,000	0,000	0,000
1058	2,353	-20,000	0,000	0,000	0,000	0,000
1059	2,941	-20,000	0,000	0,000	0,000	0,000
1063	1,176	-20,000	0,000	0,000	0,000	0,000
1067	3,529	-20,000	0,000	0,000	0,000	0,000
1071	4,118	-20,000	0,000	0,000	0,000	0,000
1072	4,706	-20,000	0,000	0,000	0,000	0,000
1073	5,294	-20,000	0,000	0,000	0,000	0,000
1133	5,882	-20,000	0,000	0,000	0,000	0,000
1134	6,471	-20,000	0,000	0,000	0,000	0,000
1135	7,059	-20,000	0,000	0,000	0,000	0,000
1136	7,647	-20,000	0,000	0,000	0,000	0,000
1143	8,235	-20,000	0,000	0,000	0,000	0,000
1147	8,824	-20,000	0,000	0,000	0,000	0,000
1148	9,412	-20,000	0,000	0,000	0,000	0,000
1149	10,000	-20,000	0,000	0,000	0,000	0,000
1165	-20,000	-2,222	0,000	0,000	-8,918	-122,863
1166	-20,000	-0,556	0,000	0,000	-8,916	-117,926
1167	-20,000	-1,111	0,000	0,000	-8,916	-119,572
1168	-20,000	-1,667	0,000	0,000	-8,917	-121,233
1352	-20,000	0,000	0,000	0,000	-8,920	-116,340

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1353	-20,000	1,500	0,000	0,000	-8,973	-112,816
1354	-20,000	1,000	0,000	0,000	-8,946	-113,827
1355	-20,000	0,500	0,000	0,000	-8,929	-115,014
1505	11,176	-20,000	0,000	0,000	0,000	0,000
1506	11,765	-20,000	0,000	0,000	0,000	0,000
1507	12,353	-20,000	0,000	0,000	0,000	0,000
1511	10,588	-20,000	0,000	0,000	0,000	0,000
1515	12,941	-20,000	0,000	0,000	0,000	0,000
1519	13,529	-20,000	0,000	0,000	0,000	0,000
1520	14,118	-20,000	0,000	0,000	0,000	0,000
1521	14,706	-20,000	0,000	0,000	0,000	0,000
1531	15,294	-20,000	0,000	0,000	0,000	0,000
1535	15,882	-20,000	0,000	0,000	0,000	0,000
1536	16,471	-20,000	0,000	0,000	0,000	0,000
1537	17,059	-20,000	0,000	0,000	0,000	0,000
1585	17,647	-20,000	0,000	0,000	0,000	0,000
1589	18,235	-20,000	0,000	0,000	0,000	0,000
1590	18,824	-20,000	0,000	0,000	0,000	0,000
1591	19,412	-20,000	0,000	0,000	0,000	0,000
1592	20,000	-20,000	0,000	0,000	0,000	0,000
1593	20,000	-19,400	0,000	0,000	-716,323	-18,824
1594	20,000	-18,800	0,000	0,000	-1,392	-37,245
1595	20,000	-18,200	0,000	0,000	-2,029	-55,250
1871	-20,000	3,500	0,000	0,000	-9,223	-111,356
1872	-20,000	3,000	0,000	0,000	-9,135	-111,251
1873	-20,000	2,500	0,000	0,000	-9,066	-111,485
1877	-20,000	2,000	0,000	0,000	-9,013	-112,021
1881	-20,000	4,000	0,000	0,000	-9,331	-111,833
1882	-18,249	4,000	794,684	4,284	-9,835	-119,726
1883	-18,833	4,000	531,558	2,896	-9,555	-115,335
1884	-19,416	4,000	266,280	1,460	-9,387	-112,707

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1885	-20,000	5,500	0,000	0,000	-9,796	-115,846
1886	-20,000	5,000	0,000	0,000	-9,616	-114,048
1887	-20,000	4,500	0,000	0,000	-9,462	-112,719
2009	20,000	-17,599	0,000	0,000	-2,631	-72,623
2013	20,000	-16,999	0,000	0,000	-3,198	-89,825
2014	20,000	-16,399	0,000	0,000	-3,734	-106,450
2015	20,000	-15,799	0,000	0,000	-4,239	-122,616
2019	-16,095	4,001	1,722	8,586	-11,856	-151,565
2020	-16,619	4,001	1,506	7,702	-11,219	-141,512
2021	-17,142	4,000	1,283	6,701	-10,676	-132,967
2031	-17,665	4,000	1,054	5,602	-10,227	-125,899
2047	-20,000	8,000	0,000	0,000	-11,133	-132,568
2048	-20,000	7,500	0,000	0,000	-10,802	-128,150
2049	-20,000	7,000	0,000	0,000	-10,505	-124,276
2050	-20,000	6,500	0,000	0,000	-10,239	-120,941
2051	-18,285	8,000	2,779	37,554	-11,615	-140,042
2052	-18,857	8,000	1,855	25,030	-11,347	-135,884
2053	-19,428	8,000	928,097	12,513	-11,186	-133,396
2057	-20,000	6,000	0,000	0,000	-10,003	-118,137
2061	-17,713	8,000	3,698	50,088	-11,992	-145,886
2065	-16,150	8,000	6,143	84,405	-13,588	-170,687
2066	-16,671	8,000	5,351	72,971	-12,964	-160,960
2067	-17,192	8,000	4,529	61,525	-12,431	-152,701
2363	20,000	-15,199	0,000	0,000	-4,714	-138,359
2367	20,000	-14,599	0,000	0,000	-5,160	-153,670
2368	20,000	-13,998	0,000	0,000	-5,577	-168,549
2369	20,000	-13,398	0,000	0,000	-5,967	-182,968
2427	-15,572	4,001	1,930	9,332	-12,593	-163,160
2431	-14,165	4,001	2,440	10,476	-15,090	-202,335
2432	-14,634	4,001	2,278	10,252	-14,171	-187,944
2433	-15,103	4,001	2,108	9,864	-13,339	-174,899

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2525	-15,628	8,000	6,869	95,792	-14,306	-181,914
2529	-14,203	8,000	9,665	127,822	-16,622	-220,453
2530	-14,678	8,000	8,600	117,005	-15,628	-206,135
2531	-15,153	8,000	7,518	106,177	-14,882	-193,325
2803	20,000	-12,798	0,000	0,000	-6,329	-196,895
2807	20,000	-12,198	0,000	0,000	-6,664	-210,315
2808	20,000	-11,598	0,000	0,000	-6,972	-223,211
2809	20,000	-10,998	0,000	0,000	-7,253	-235,542
2829	-13,696	4,001	2,591	10,518	-16,099	-218,112
2830	-12,435	4,001	2,946	9,555	-19,279	-267,808
2831	-12,855	4,001	2,837	10,068	-18,141	-250,023
2832	-13,276	4,001	2,719	10,383	-17,082	-233,472
2839	-13,727	8,000	10,252	138,161	-17,742	-236,194
2843	-12,428	8,000	12,274	166,525	-20,933	-286,379
2844	-12,861	8,000	11,675	157,291	-19,734	-268,385
2845	-13,294	8,000	10,832	147,627	-18,673	-251,649
3247	-12,015	4,001	3,044	8,826	-20,499	-286,875
3251	-10,884	4,001	3,248	5,651	-24,209	-344,935
3252	-11,261	4,001	3,190	6,920	-22,900	-324,438
3253	-11,638	4,001	3,122	7,974	-21,664	-305,100
3305	-11,994	8,000	12,477	174,966	-22,115	-305,487
3306	-10,809	8,000	14,997	204,275	-25,808	-364,701
3307	-11,204	8,000	14,285	194,435	-24,419	-343,233
3308	-11,599	8,000	13,444	184,338	-23,117	-323,438
3441	20,000	-10,397	0,000	0,000	-7,507	-247,272
3442	20,000	-9,797	0,000	0,000	-7,736	-258,380
3443	20,000	-9,197	0,000	0,000	-7,939	-268,846
3444	20,000	-8,597	0,000	0,000	-8,117	-278,632
3483	0,000	-1,929	-40,765	-116,049	-96,322	-1,286
3484	0,000	-1,857	-40,799	-116,472	-96,327	-1,291
3485	0,000	-1,786	-40,939	-116,898	-96,333	-1,295

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3489	0,000	-1,714	-41,183	-117,326	-96,339	-1,300
3490	0,000	-1,643	-41,401	-117,756	-96,345	-1,305
3491	0,000	-1,571	-41,645	-118,188	-96,352	-1,309
3492	0,000	-1,500	-41,917	-118,623	-96,360	-1,314
3515	0,000	-2,000	-40,936	-115,629	-96,319	-1,282
3525	0,000	-1,357	-42,527	-119,497	-96,376	-1,323
3526	0,000	-1,285	-42,859	-119,937	-96,384	-1,328
3527	0,000	-1,214	-43,207	-120,379	-96,393	-1,333
3531	0,000	-1,428	-42,212	-119,059	-96,368	-1,318
3547	0,000	-1,142	-43,567	-120,823	-96,402	-1,337
3548	0,000	-1,071	-43,940	-121,268	-96,411	-1,342
3549	0,000	-0,999	-44,322	-121,716	-96,421	-1,347
3550	0,000	-0,928	-44,715	-122,165	-96,430	-1,352
3633	20,000	-7,997	0,000	0,000	-8,271	-287,705
3637	20,000	-7,397	0,000	0,000	-8,402	-296,043
3638	20,000	-6,796	0,000	0,000	-8,511	-303,633
3639	20,000	-6,196	0,000	0,000	-8,598	-310,451
3789	-10,508	4,002	3,297	4,154	-25,593	-366,635
3790	-9,494	4,002	3,376	-1,118	-29,704	-431,334
3791	-9,832	4,002	3,358	852,512	-28,269	-408,700
3792	-10,170	4,002	3,331	2,606	-26,899	-387,146
3809	-10,414	8,000	15,552	212,623	-27,274	-387,564
3813	-9,334	8,000	17,217	237,408	-31,623	-455,834
3814	-9,694	8,000	16,646	228,922	-30,068	-431,556
3815	-10,054	8,000	16,034	220,147	-28,627	-408,903
3835	-9,157	4,002	3,386	-3,317	-31,206	-455,090
3839	-8,248	4,002	3,370	-10,464	-35,585	-524,877
3840	-8,551	4,002	3,382	-7,873	-34,069	-500,622
3841	-8,854	4,002	3,388	-5,493	-32,609	-477,371
3993	0,000	-0,785	-45,523	-123,068	-96,450	-1,361
3994	0,000	-0,714	-45,937	-123,522	-96,459	-1,366

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3995	0,000	-0,642	-46,357	-123,977	-96,469	-1,371
3999	0,000	-0,857	-45,115	-122,616	-96,440	-1,356
4009	0,000	-0,571	-46,781	-124,433	-96,480	-1,376
4013	0,000	-0,499	-47,209	-124,891	-96,490	-1,381
4014	0,000	-0,428	-47,640	-125,350	-96,500	-1,386
4015	0,000	-0,356	-48,073	-125,810	-96,510	-1,391
4189	20,000	-5,596	0,000	0,000	-8,667	-316,478
4193	20,000	-4,996	0,000	0,000	-8,717	-321,717
4194	20,000	-4,396	0,000	0,000	-8,752	-326,178
4195	20,000	-3,796	0,000	0,000	-8,773	-329,865
4215	0,000	-0,213	-48,945	-126,733	-96,531	-1,401
4216	0,000	-0,142	-49,383	-127,195	-96,542	-1,406
4217	0,000	-0,070	-49,820	-127,658	-96,552	-1,411
4221	0,000	-0,285	-48,509	-126,271	-96,521	-1,396
4303	-8,974	8,000	17,541	244,051	-33,295	-481,526
4307	-7,989	8,000	18,596	265,724	-37,932	-556,662
4308	-8,317	8,000	18,242	258,283	-36,309	-530,126
4309	-8,645	8,000	17,857	250,753	-34,744	-505,034
4415	-7,132	4,002	3,265	-22,015	-41,686	-623,671
4416	-7,403	4,002	3,299	-18,906	-40,128	-598,253
4417	-7,674	4,002	3,328	-15,996	-38,619	-573,764
4421	-7,946	4,002	3,351	-13,278	-37,159	-550,173
4447	-6,860	4,002	3,225	-25,330	-43,292	-650,050
4451	-6,131	4,002	3,089	-35,305	-47,862	-726,022
4452	-6,374	4,002	3,139	-31,804	-46,298	-699,855
4453	-6,617	4,002	3,184	-28,480	-44,775	-674,540
4505	20,000	-3,195	0,000	0,000	-8,783	-332,794
4509	20,000	-2,595	0,000	0,000	-8,783	-335,001
4510	20,000	-1,995	0,000	0,000	-8,778	-336,538
4511	20,000	-1,395	0,000	0,000	-8,770	-337,459
4589	0,000	0,001	-50,258	-128,122	-96,563	-1,416

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011


Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4590	0,000	0,073	-50,695	-128,586	-96,574	-1,421
4591	0,000	0,144	-51,130	-129,050	-96,584	-1,426
4592	0,000	0,215	-51,565	-129,514	-96,595	-1,431
4631	-7,660	8,000	18,943	272,177	-39,629	-584,505
4635	-6,762	8,000	19,625	290,373	-44,632	-666,370
4636	-7,062	8,000	19,410	284,033	-42,903	-637,687
4637	-7,361	8,000	19,174	277,565	-41,242	-610,502
4685	0,000	0,287	-51,998	-129,978	-96,606	-1,436
4686	0,000	0,358	-52,428	-130,441	-96,616	-1,442
4687	0,000	0,430	-52,856	-130,904	-96,627	-1,447
4688	0,000	0,501	-53,282	-131,366	-96,638	-1,452
4847	-5,234	4,002	2,869	-49,800	-53,985	-830,377
4848	-5,452	4,002	2,928	-46,047	-52,446	-803,843
4849	-5,670	4,002	2,983	-42,443	-50,940	-778,081
4850	-5,888	4,002	3,035	-38,987	-49,466	-753,068
4857	-5,016	4,002	2,806	-53,701	-55,557	-857,705
4858	-4,429	4,003	2,621	-64,906	-59,944	-935,294
4859	-4,625	4,003	2,685	-61,058	-58,456	-908,749
4860	-4,820	4,002	2,747	-57,322	-56,994	-882,892
4993	-3,709	4,003	2,358	-79,977	-65,644	-1,039
4994	-3,884	4,003	2,425	-76,201	-64,230	-1,013
4995	-4,059	4,003	2,490	-72,493	-62,834	-987,568
4999	-4,234	4,003	2,553	-68,861	-61,457	-962,539
5015	-3,534	4,003	2,288	-83,814	-67,075	-1,066
5016	-3,063	4,003	2,087	-94,352	-71,004	-1,141
5017	-3,220	4,003	2,156	-90,813	-69,682	-1,116
5018	-3,377	4,003	2,223	-87,297	-68,373	-1,091
5115	20,000	-0,795	0,000	0,000	-8,761	-337,831
5119	20,000	-0,195	0,000	0,000	-8,756	-337,744
5120	20,000	0,406	0,000	0,000	-8,757	-337,307
5121	20,000	1,006	0,000	0,000	-8,768	-336,629

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5141	0,000	0,573	-53,705	-131,827	-96,649	-1,457
5142	0,000	0,644	-54,124	-132,287	-96,659	-1,462
5143	0,000	0,716	-54,540	-132,745	-96,670	-1,468
5144	0,000	0,787	-54,953	-133,201	-96,681	-1,473
5151	0,000	0,859	-55,361	-133,655	-96,691	-1,478
5152	0,000	0,930	-55,766	-134,107	-96,702	-1,484
5153	0,000	1,002	-56,166	-134,555	-96,713	-1,489
5154	0,000	1,073	-56,562	-135,001	-96,723	-1,494
5187	0,000	1,216	-57,339	-135,881	-96,744	-1,505
5188	0,000	1,288	-57,721	-136,314	-96,755	-1,510
5189	0,000	1,359	-58,097	-136,743	-96,765	-1,516
5193	0,000	1,145	-56,953	-135,443	-96,734	-1,500
5203	0,000	1,430	-58,468	-137,166	-96,776	-1,521
5204	0,000	1,502	-58,833	-137,584	-96,786	-1,527
5205	0,000	1,573	-59,193	-137,995	-96,796	-1,532
5206	0,000	1,645	-59,547	-138,399	-96,806	-1,538
5213	-6,463	8,000	19,752	295,489	-46,440	-696,504
5217	-5,644	8,000	19,760	308,643	-51,546	-783,840
5218	-5,917	8,000	19,776	304,160	-49,807	-753,542
5219	-6,190	8,000	19,770	299,554	-48,105	-724,458
5277	-5,371	8,000	19,717	312,476	-53,328	-815,304
5281	-4,625	8,000	19,352	322,296	-58,442	-907,364
5282	-4,873	8,000	19,520	319,304	-56,703	-875,546
5283	-5,122	8,000	19,643	315,819	-54,997	-844,876
5287	0,000	1,788	-60,237	-139,183	-96,827	-1,549
5288	0,000	1,859	-60,573	-139,562	-96,837	-1,554
5289	0,000	1,931	-60,903	-139,931	-96,847	-1,560
5293	0,000	1,716	-59,895	-138,795	-96,817	-1,543
5309	0,000	2,002	-61,226	-140,290	-96,857	-1,565
5313	0,000	2,074	-61,543	-140,638	-96,867	-1,571
5314	0,000	2,145	-61,853	-140,974	-96,876	-1,576

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5315	0,000	2,217	-62,156	-141,296	-96,886	-1,582
5351	-2,483	4,003	1,812	-107,413	-75,961	-1,240
5352	-2,624	4,003	1,882	-104,261	-74,746	-1,215
5353	-2,765	4,003	1,950	-101,087	-73,538	-1,191
5357	-2,906	4,003	2,016	-97,903	-72,335	-1,167
5373	-2,343	4,003	1,740	-110,533	-77,181	-1,265
5374	-1,964	4,003	1,534	-118,647	-80,478	-1,334
5375	-2,091	4,003	1,605	-115,998	-79,377	-1,310
5376	-2,217	4,003	1,673	-113,289	-78,278	-1,287
5437	20,000	1,606	0,000	0,000	-8,793	-335,837
5441	20,000	2,206	0,000	0,000	-8,834	-335,069
5442	20,000	2,806	0,000	0,000	-8,895	-334,482
5443	20,000	3,406	0,000	0,000	-8,980	-334,224
5599	0,000	2,360	-62,742	-141,898	-96,905	-1,593
5600	0,000	2,431	-63,024	-142,175	-96,915	-1,598
5601	0,000	2,502	-63,300	-142,435	-96,924	-1,604
5605	0,000	2,288	-62,453	-141,604	-96,896	-1,587
5621	0,000	2,574	-63,567	-142,676	-96,934	-1,610
5622	0,000	2,645	-63,828	-142,897	-96,943	-1,615
5623	0,000	2,717	-64,081	-143,098	-96,952	-1,621
5624	0,000	2,788	-64,326	-143,275	-96,961	-1,626
5679	-4,376	8,000	19,146	324,442	-60,212	-940,259
5683	-3,695	8,000	18,331	332,312	-65,239	-1,036
5684	-3,922	8,000	18,650	330,024	-63,535	-1,003
5685	-4,149	8,000	18,920	327,326	-61,859	-970,935
5727	20,000	4,007	0,000	0,000	-9,092	-334,447
5728	19,416	4,006	-271,505	327,424	-9,154	-335,902
5729	18,833	4,006	-542,801	716,185	-9,338	-340,275
5730	18,249	4,006	-814,882	1,225	-9,643	-347,588
5731	20,000	4,506	0,000	0,000	-9,208	-335,111
5732	20,000	5,005	0,000	0,000	-9,346	-336,301

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5733	20,000	5,504	0,000	0,000	-9,508	-338,091
5753	-3,468	8,000	17,954	334,014	-66,970	-1,071
5757	-2,848	8,000	16,650	337,835	-71,818	-1,172
5758	-3,055	8,000	17,132	336,682	-70,181	-1,137
5759	-3,261	8,000	17,564	335,323	-68,566	-1,103
5769	20,000	6,003	0,000	0,000	-9,698	-340,557
5773	20,000	6,502	0,000	0,000	-10,019	-343,921
5774	20,000	7,002	0,000	0,000	-10,328	-348,012
5775	20,000	7,501	0,000	0,000	-10,735	-353,041
5776	20,000	8,000	0,000	0,000	-11,008	-358,665
5777	19,375	8,000	-587,293	-17,302	-10,761	-359,781
5778	18,750	8,000	-2,366	-36,482	-10,754	-364,300
5779	18,125	8,000	-4,133	-55,614	-11,298	-372,750
5815	-1,499	4,003	1,249	-127,695	-84,535	-1,422
5816	-1,612	4,003	1,322	-125,623	-83,551	-1,400
5817	-1,725	4,003	1,392	-123,463	-82,565	-1,378
5821	-1,838	4,003	1,460	-121,225	-81,579	-1,357
5837	-1,386	4,003	1,174	-129,667	-85,517	-1,444
5841	-1,082	4,003	956,250	-134,385	-88,140	-1,503
5842	-1,183	4,003	1,031	-132,916	-87,269	-1,483
5843	-1,285	4,003	1,104	-131,341	-86,395	-1,463
6021	0,000	2,931	-64,794	-143,557	-96,979	-1,637
6022	0,000	3,003	-65,016	-143,657	-96,988	-1,643
6023	0,000	3,074	-65,230	-143,728	-96,997	-1,649
6027	0,000	2,860	-64,564	-143,429	-96,970	-1,632
6043	0,000	3,146	-65,437	-143,768	-97,005	-1,654
6047	0,000	3,217	-65,635	-143,775	-97,014	-1,660
6048	0,000	3,289	-65,826	-143,746	-97,022	-1,665
6049	0,000	3,360	-66,008	-143,680	-97,030	-1,671
6085	15,103	4,006	-2,239	8,967	-13,247	-439,937
6086	14,634	4,006	-2,420	11,332	-14,075	-462,001

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6087	14,165	4,006	-2,588	14,143	-14,990	-486,479
6091	15,572	4,006	-2,046	7,003	-12,501	-420,179
6092	17,142	4,006	-1,336	2,743	-10,543	-369,661
6093	16,619	4,006	-1,580	3,828	-11,108	-383,926
6094	16,095	4,006	-1,818	5,228	-11,760	-400,735
6101	17,665	4,006	-1,090	1,914	-10,069	-357,878
6111	17,500	8,000	-4,806	-72,999	-12,178	-384,823
6115	16,875	8,000	-5,493	-90,376	-12,741	-399,580
6116	16,250	8,000	-6,316	-107,877	-13,486	-417,906
6117	15,625	8,000	-7,035	-125,032	-14,337	-439,783
6149	-2,641	8,000	16,112	338,370	-73,476	-1,208
6153	-2,075	8,000	14,315	338,062	-78,078	-1,313
6154	-2,264	8,000	14,960	338,003	-76,528	-1,277
6155	-2,452	8,000	15,550	337,768	-74,996	-1,242
6159	-1,887	8,000	13,586	336,919	-79,642	-1,351
6163	-1,371	8,000	11,287	333,724	-83,954	-1,462
6164	-1,543	8,000	12,111	334,879	-82,504	-1,423
6165	-1,715	8,000	12,870	335,702	-81,068	-1,387
6191	-0,708	4,003	652,986	-138,728	-91,315	-1,578
6192	-0,799	4,003	730,791	-137,843	-90,550	-1,560
6193	-0,890	4,003	805,842	-136,844	-89,780	-1,542
6197	-0,618	4,003	572,262	-139,491	-92,075	-1,596
6198	-0,373	4,003	339,406	-140,891	-94,095	-1,645
6199	-0,455	4,003	419,711	-140,535	-93,426	-1,629
6200	-0,536	4,003	497,288	-140,067	-92,753	-1,613
6207	-0,981	4,003	878,295	-135,738	-89,007	-1,523
6297	0,000	3,503	-66,349	-143,425	-97,047	-1,682
6298	0,000	3,574	-66,508	-143,232	-97,055	-1,687
6299	0,000	3,646	-66,658	-142,990	-97,063	-1,693
6303	0,000	3,432	-66,183	-143,574	-97,039	-1,676
6313	0,000	3,717	-66,801	-142,698	-97,071	-1,698

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6317	0,000	3,789	-66,935	-142,351	-97,078	-1,704
6318	0,000	3,860	-67,062	-141,947	-97,086	-1,709
6319	0,000	3,932	-67,180	-141,482	-97,093	-1,714
6391	15,000	8,000	-7,441	-141,266	-15,084	-464,898
6395	14,375	8,000	-9,094	-159,918	-15,978	-493,297
6396	13,750	8,000	-10,473	-180,097	-17,309	-526,763
6397	13,125	8,000	-11,705	-199,911	-18,822	-565,680
6401	-1,199	8,000	10,379	331,587	-85,413	-1,502
6405	-0,728	8,000	7,480	322,577	-89,482	-1,621
6406	-0,885	8,000	8,532	326,048	-88,108	-1,580
6407	-1,042	8,000	9,493	328,996	-86,753	-1,540
6439	-0,292	4,003	256,247	-141,130	-94,759	-1,662
6440	-0,073	4,003	17,500	-141,155	-96,521	-1,705
6441	-0,146	4,003	99,627	-141,250	-95,938	-1,691
6442	-0,219	4,003	179,180	-141,240	-95,350	-1,676
6449	0,000	4,003	-67,291	-140,953	-97,101	-1,720
6450	0,000	4,080	-67,401	-140,309	-97,109	-1,725
6451	0,000	4,156	-67,503	-139,582	-97,116	-1,731
6452	0,000	4,233	-67,596	-138,766	-97,124	-1,737
6453	0,219	4,003	-313,867	-139,539	-95,352	-1,744
6454	0,146	4,003	-234,270	-140,155	-95,939	-1,736
6455	0,073	4,003	-152,108	-140,626	-96,522	-1,728
6481	11,638	4,005	-3,263	38,658	-21,619	-665,790
6482	11,261	4,005	-3,331	43,877	-22,874	-700,372
6483	10,884	4,005	-3,390	49,530	-24,204	-737,299
6487	12,015	4,005	-3,187	33,872	-20,436	-633,434
6488	13,276	4,005	-2,869	20,842	-16,983	-539,983
6489	12,855	4,005	-2,985	24,696	-18,050	-568,722
6490	12,435	4,005	-3,091	29,031	-19,200	-599,830
6497	13,696	4,006	-2,742	17,440	-15,997	-513,496
6563	8,854	4,005	-3,549	86,213	-32,692	-981,943

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6564	8,551	4,005	-3,547	92,100	-34,157	-1,026
6565	8,248	4,005	-3,538	97,849	-35,677	-1,072
6569	9,157	4,005	-3,543	80,308	-31,281	-940,158
6570	10,170	4,005	-3,477	61,393	-26,932	-814,200
6571	9,832	4,005	-3,507	67,474	-28,318	-853,888
6572	9,494	4,005	-3,529	73,803	-29,768	-895,845
6579	10,508	4,005	-3,440	55,607	-25,608	-776,692
6606	12,500	8,000	-12,610	-216,594	-20,506	-609,771
6610	11,875	8,000	-13,614	-233,635	-22,246	-657,724
6611	11,250	8,000	-14,796	-252,819	-24,192	-711,838
6612	10,625	8,000	-16,039	-271,716	-26,387	-773,381
6653	0,292	4,003	-390,986	-138,775	-94,761	-1,751
6654	0,536	4,003	-632,272	-135,120	-92,756	-1,776
6655	0,455	4,003	-554,601	-136,529	-93,429	-1,768
6656	0,373	4,003	-474,215	-137,746	-94,097	-1,760
6663	0,000	4,310	-67,681	-137,854	-97,131	-1,742
6664	0,000	4,393	-67,764	-136,745	-97,139	-1,748
6665	0,000	4,477	-67,838	-135,506	-97,147	-1,754
6666	0,000	4,560	-67,903	-134,130	-97,154	-1,760
6673	0,618	4,003	-707,351	-133,520	-92,079	-1,784
6674	0,890	4,003	-941,377	-126,760	-89,786	-1,810
6675	0,799	4,003	-866,161	-129,254	-90,555	-1,801
6676	0,708	4,003	-788,207	-131,507	-91,319	-1,793
6689	-0,572	8,000	6,315	318,375	-90,873	-1,665
6693	-0,143	8,000	2,194	304,525	-95,151	-1,798
6694	-0,286	8,000	3,902	311,006	-93,593	-1,750
6695	-0,429	8,000	5,203	315,118	-92,192	-1,706
6699	6,617	4,004	-3,359	118,927	-44,854	-1,350
6700	6,374	4,004	-3,313	119,214	-46,372	-1,395
6701	6,131	4,004	-3,262	118,346	-47,931	-1,440
6705	6,860	4,004	-3,400	117,630	-43,375	-1,306

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6706	7,674	4,005	-3,501	107,842	-38,712	-1,164
6707	7,403	4,004	-3,473	111,851	-40,218	-1,210
6708	7,132	4,004	-3,440	115,175	-41,773	-1,257
6715	7,946	4,005	-3,522	103,319	-37,252	-1,119
6837	0,000	5,513	-68,178	-104,972	-97,228	-1,819
6838	0,000	5,622	-68,185	-99,535	-97,235	-1,824
6839	0,000	5,730	-68,194	-93,513	-97,242	-1,830
6843	0,000	5,956	-68,239	-78,809	-97,255	-1,839
6844	0,000	6,074	-68,283	-69,843	-97,261	-1,844
6845	0,000	6,192	-68,348	-59,877	-97,266	-1,848
6849	0,000	5,838	-68,210	-86,854	-97,248	-1,835
6859	0,000	6,311	-68,439	-48,814	-97,271	-1,851
6860	0,000	6,439	-68,577	-35,363	-97,277	-1,854
6861	0,000	6,568	-68,765	-20,323	-97,281	-1,857
6862	0,000	6,697	-69,010	-3,464	-97,286	-1,858
6869	0,000	6,966	-69,763	37,620	-97,293	-1,859
6870	0,000	7,107	-70,215	63,413	-97,296	-1,859
6871	0,000	7,247	-70,768	92,327	-97,298	-1,858
6875	0,000	6,826	-69,325	15,595	-97,289	-1,860
6885	0,000	7,387	-71,525	124,181	-97,300	-1,856
6886	0,000	8,000	-77,538	294,212	-97,301	-1,852
6887	0,000	7,541	-72,662	162,325	-97,301	-1,854
6888	0,000	7,694	-74,029	203,924	-97,302	-1,852
6889	0,000	7,847	-75,648	248,297	-97,302	-1,851
6893	0,750	8,000	-7,770	269,190	-89,291	-2,099
6894	0,500	8,000	-5,971	271,042	-91,545	-1,993
6895	0,250	8,000	-3,556	278,005	-94,002	-1,914
6899	2,217	4,004	-1,813	-65,602	-78,293	-1,882
6900	2,091	4,004	-1,744	-73,086	-79,391	-1,880
6901	1,964	4,004	-1,672	-80,294	-80,491	-1,876
6905	2,343	4,004	-1,881	-57,875	-77,197	-1,883

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6906	2,765	4,004	-2,093	-30,713	-73,557	-1,879
6907	2,624	4,004	-2,024	-39,940	-74,765	-1,882
6908	2,483	4,004	-1,954	-49,011	-75,979	-1,883
6915	3,377	4,004	-2,370	9,873	-68,398	-1,848
6916	3,220	4,004	-2,302	-478,804	-69,706	-1,858
6917	3,063	4,004	-2,232	-10,923	-71,026	-1,867
6921	2,906	4,004	-2,160	-21,384	-72,356	-1,874
6931	3,534	4,004	-2,436	20,060	-67,103	-1,835
6932	4,059	4,004	-2,644	52,041	-62,868	-1,781
6933	3,884	4,004	-2,577	41,831	-64,261	-1,801
6934	3,709	4,004	-2,508	31,141	-65,673	-1,819
6941	4,820	4,004	-2,908	89,052	-57,038	-1,673
6942	4,625	4,004	-2,844	80,849	-58,498	-1,704
6943	4,429	4,004	-2,778	71,706	-59,983	-1,732
6947	4,234	4,004	-2,708	61,691	-61,493	-1,759
6957	5,016	4,004	-2,969	96,270	-55,605	-1,641
6958	5,670	4,004	-3,152	113,053	-51,000	-1,526
6959	5,452	4,004	-3,095	108,714	-52,502	-1,565
6960	5,234	4,004	-3,034	103,126	-54,037	-1,604
6967	5,888	4,004	-3,206	116,186	-49,531	-1,485
6977	10,000	8,000	-17,148	-288,401	-29,002	-842,999
6981	9,375	8,000	-17,555	-303,767	-31,671	-920,163
6982	8,750	8,000	-18,106	-319,388	-34,450	-1,007
6983	8,125	8,000	-18,675	-334,911	-37,425	-1,107
6987	1,285	4,003	-1,240	-113,177	-86,403	-1,841
6988	1,183	4,003	-1,168	-117,081	-87,277	-1,834
6989	1,082	4,003	-1,092	-120,699	-88,147	-1,826
6993	0,981	4,003	-1,014	-124,027	-89,013	-1,817
7003	1,386	4,003	-1,311	-108,996	-85,526	-1,848
7004	1,725	4,004	-1,530	-93,096	-82,577	-1,867
7005	1,612	4,004	-1,459	-98,708	-83,562	-1,861

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
7006	1,499	4,004	-1,386	-104,013	-84,545	-1,855
7013	1,838	4,004	-1,599	-87,195	-81,591	-1,872
7049	0,000	4,735	-68,011	-130,764	-97,170	-1,772
7050	0,000	4,826	-68,054	-128,721	-97,177	-1,778
7051	0,000	4,917	-68,089	-126,460	-97,185	-1,784
7055	0,000	4,644	-67,959	-132,606	-97,162	-1,766
7075	0,000	5,008	-68,116	-123,964	-97,192	-1,790
7076	0,000	5,107	-68,139	-120,956	-97,200	-1,796
7077	0,000	5,206	-68,154	-117,623	-97,207	-1,802
7078	0,000	5,306	-68,165	-113,940	-97,214	-1,808
7085	0,000	5,405	-68,172	-109,876	-97,221	-1,813
7155	7,500	8,000	-19,173	-350,005	-40,636	-1,222
7160	1,000	8,000	-9,375	250,374	-87,136	-2,271
7188	6,875	8,000	-19,553	-362,360	-44,083	-1,358
7192	6,250	8,000	-19,792	-377,745	-47,765	-1,521
7193	5,625	8,000	-19,853	-392,572	-51,686	-1,733
7194	5,000	8,000	-19,697	-389,208	-55,844	-2,098
7204	2,500	8,000	-15,827	-3,329	-74,618	-2,693
7208	2,000	8,000	-14,163	85,224	-78,700	-2,642
7209	1,500	8,000	-12,054	170,750	-82,871	-2,524
7213	3,000	8,000	-17,139	-85,124	-70,624	-2,694
7227	4,500	8,000	-19,384	-326,026	-59,337	-2,401
7228	4,000	8,000	-18,875	-247,076	-62,970	-2,559
7230	3,500	8,000	-18,139	-164,848	-66,737	-2,651

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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8. Results for phase 3

Table [12] Table of deformations phase no: 3

Node No.	x-coord.	y-coord.	dUx [10⁻³ m]	Ux [10⁻³ m]	dUy [10⁻⁶ m]	Uy [10⁻³ m]
1	-20,000	-18,333	0,000	0,000	7,114	2,107
2	-20,000	-18,889	0,000	0,000	4,703	1,391
3	-20,000	-19,444	0,000	0,000	2,330	688,766
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	17,114	5,090
18	-20,000	-16,667	0,000	0,000	14,565	4,328
19	-20,000	-17,222	0,000	0,000	12,048	3,576
26	-20,000	-17,778	0,000	0,000	9,563	2,836
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
49	-20,000	-15,556	0,000	0,000	19,691	5,862
53	-20,000	-13,889	0,000	0,000	27,576	8,234
54	-20,000	-14,444	0,000	0,000	24,924	7,435
55	-20,000	-15,000	0,000	0,000	22,296	6,644
59	-15,294	-20,000	0,000	0,000	0,000	0,000
63	-14,706	-20,000	0,000	0,000	0,000	0,000
64	-14,118	-20,000	0,000	0,000	0,000	0,000
65	-13,529	-20,000	0,000	0,000	0,000	0,000
125	-20,000	-13,333	0,000	0,000	30,248	9,040
129	-20,000	-11,667	0,000	0,000	38,365	11,501
130	-20,000	-12,222	0,000	0,000	35,644	10,674

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
131	-20,000	-12,778	0,000	0,000	32,938	9,854
215	-12,941	-20,000	0,000	0,000	0,000	0,000
219	-12,353	-20,000	0,000	0,000	0,000	0,000
220	-11,765	-20,000	0,000	0,000	0,000	0,000
221	-11,176	-20,000	0,000	0,000	0,000	0,000
225	-10,588	-20,000	0,000	0,000	0,000	0,000
229	-10,000	-20,000	0,000	0,000	0,000	0,000
230	-9,412	-20,000	0,000	0,000	0,000	0,000
231	-8,824	-20,000	0,000	0,000	0,000	0,000
263	-20,000	-11,111	0,000	0,000	41,099	12,333
264	-20,000	-9,444	0,000	0,000	49,357	14,858
265	-20,000	-10,000	0,000	0,000	46,596	14,012
266	-20,000	-10,556	0,000	0,000	43,843	13,170
407	-8,235	-20,000	0,000	0,000	0,000	0,000
411	-7,647	-20,000	0,000	0,000	0,000	0,000
412	-7,059	-20,000	0,000	0,000	0,000	0,000
413	-6,471	-20,000	0,000	0,000	0,000	0,000
417	-20,000	-8,889	0,000	0,000	52,123	15,706
421	-20,000	-7,222	0,000	0,000	60,441	18,267
422	-20,000	-7,778	0,000	0,000	57,666	17,412
423	-20,000	-8,333	0,000	0,000	54,893	16,558
471	-5,882	-20,000	0,000	0,000	0,000	0,000
475	-5,294	-20,000	0,000	0,000	0,000	0,000
476	-4,706	-20,000	0,000	0,000	0,000	0,000
477	-4,118	-20,000	0,000	0,000	0,000	0,000
625	-20,000	-6,667	0,000	0,000	63,215	19,123
626	-20,000	-5,000	0,000	0,000	71,529	21,691
627	-20,000	-5,556	0,000	0,000	68,761	20,836
628	-20,000	-6,111	0,000	0,000	65,989	19,980
785	-3,529	-20,000	0,000	0,000	0,000	0,000
789	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
790	-2,353	-20,000	0,000	0,000	0,000	0,000
791	-1,765	-20,000	0,000	0,000	0,000	0,000
795	-1,176	-20,000	0,000	0,000	0,000	0,000
799	-0,588	-20,000	0,000	0,000	0,000	0,000
800	0,000	-20,000	0,000	0,000	0,000	0,000
801	0,588	-20,000	0,000	0,000	0,000	0,000
830	-20,000	-4,444	0,000	0,000	74,295	22,545
831	-20,000	-2,778	0,000	0,000	82,561	25,090
832	-20,000	-3,333	0,000	0,000	79,811	24,245
833	-20,000	-3,889	0,000	0,000	77,055	23,397
1057	1,765	-20,000	0,000	0,000	0,000	0,000
1058	2,353	-20,000	0,000	0,000	0,000	0,000
1059	2,941	-20,000	0,000	0,000	0,000	0,000
1063	1,176	-20,000	0,000	0,000	0,000	0,000
1067	3,529	-20,000	0,000	0,000	0,000	0,000
1071	4,118	-20,000	0,000	0,000	0,000	0,000
1072	4,706	-20,000	0,000	0,000	0,000	0,000
1073	5,294	-20,000	0,000	0,000	0,000	0,000
1133	5,882	-20,000	0,000	0,000	0,000	0,000
1134	6,471	-20,000	0,000	0,000	0,000	0,000
1135	7,059	-20,000	0,000	0,000	0,000	0,000
1136	7,647	-20,000	0,000	0,000	0,000	0,000
1143	8,235	-20,000	0,000	0,000	0,000	0,000
1147	8,824	-20,000	0,000	0,000	0,000	0,000
1148	9,412	-20,000	0,000	0,000	0,000	0,000
1149	10,000	-20,000	0,000	0,000	0,000	0,000
1165	-20,000	-2,222	0,000	0,000	85,305	25,931
1166	-20,000	-0,556	0,000	0,000	93,492	28,425
1167	-20,000	-1,111	0,000	0,000	90,771	27,599
1168	-20,000	-1,667	0,000	0,000	88,041	26,768
1352	-20,000	0,000	0,000	0,000	96,203	29,245

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1353	-20,000	1,500	0,000	0,000	103,474	31,426
1354	-20,000	1,000	0,000	0,000	101,059	30,704
1355	-20,000	0,500	0,000	0,000	98,636	29,977
1505	11,176	-20,000	0,000	0,000	0,000	0,000
1506	11,765	-20,000	0,000	0,000	0,000	0,000
1507	12,353	-20,000	0,000	0,000	0,000	0,000
1511	10,588	-20,000	0,000	0,000	0,000	0,000
1515	12,941	-20,000	0,000	0,000	0,000	0,000
1519	13,529	-20,000	0,000	0,000	0,000	0,000
1520	14,118	-20,000	0,000	0,000	0,000	0,000
1521	14,706	-20,000	0,000	0,000	0,000	0,000
1531	15,294	-20,000	0,000	0,000	0,000	0,000
1535	15,882	-20,000	0,000	0,000	0,000	0,000
1536	16,471	-20,000	0,000	0,000	0,000	0,000
1537	17,059	-20,000	0,000	0,000	0,000	0,000
1585	17,647	-20,000	0,000	0,000	0,000	0,000
1589	18,235	-20,000	0,000	0,000	0,000	0,000
1590	18,824	-20,000	0,000	0,000	0,000	0,000
1591	19,412	-20,000	0,000	0,000	0,000	0,000
1592	20,000	-20,000	0,000	0,000	0,000	0,000
1593	20,000	-19,400	0,000	0,000	307,313	112,661
1594	20,000	-18,800	0,000	0,000	569,275	210,342
1595	20,000	-18,200	0,000	0,000	788,297	293,828
1871	-20,000	3,500	0,000	0,000	113,024	34,257
1872	-20,000	3,000	0,000	0,000	110,654	33,557
1873	-20,000	2,500	0,000	0,000	108,272	32,852
1877	-20,000	2,000	0,000	0,000	105,878	32,142
1881	-20,000	4,000	0,000	0,000	115,381	34,952
1882	-18,249	4,000	-110,501	112,614	115,203	34,886
1883	-18,833	4,000	-73,310	74,510	115,303	34,923
1884	-19,416	4,000	-36,588	37,080	115,362	34,944

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2009	20,000	-17,599	0,000	0,000	966,907	363,887
2013	20,000	-16,999	0,000	0,000	1,108	421,271
2014	20,000	-16,399	0,000	0,000	1,213	466,710
2015	20,000	-15,799	0,000	0,000	1,287	500,918
2019	-16,095	4,001	-259,076	264,306	114,480	34,619
2020	-16,619	4,001	-220,352	225,340	114,708	34,704
2021	-17,142	4,000	-183,708	187,883	114,903	34,776
2031	-17,665	4,000	-148,544	151,717	115,063	34,835
2363	20,000	-15,199	0,000	0,000	1,330	524,592
2367	20,000	-14,599	0,000	0,000	1,347	538,413
2368	20,000	-13,998	0,000	0,000	1,339	543,046
2369	20,000	-13,398	0,000	0,000	1,310	539,144
2427	-15,572	4,001	-300,655	304,988	114,215	34,521
2431	-14,165	4,001	-434,982	424,367	113,323	34,188
2432	-14,634	4,001	-385,532	382,825	113,651	34,311
2433	-15,103	4,001	-341,126	343,071	113,948	34,422
2803	20,000	-12,798	0,000	0,000	1,262	527,351
2807	20,000	-12,198	0,000	0,000	1,198	508,295
2808	20,000	-11,598	0,000	0,000	1,121	482,601
2809	20,000	-10,998	0,000	0,000	1,033	450,885
2829	-13,696	4,001	-490,810	467,804	112,964	34,052
2830	-12,435	4,001	-685,833	594,691	111,837	33,620
2831	-12,855	4,001	-611,971	550,709	112,239	33,775
2832	-13,276	4,001	-547,515	508,427	112,615	33,919
3247	-12,015	4,001	-770,993	640,399	111,409	33,453
3251	-10,884	4,001	-1,075	771,916	110,121	32,939
3252	-11,261	4,001	-959,339	726,698	110,572	33,121
3253	-11,638	4,001	-858,787	682,853	111,001	33,292
3441	20,000	-10,397	0,000	0,000	936,291	413,755
3442	20,000	-9,797	0,000	0,000	833,763	371,815
3443	20,000	-9,197	0,000	0,000	727,537	325,664

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3444	20,000	-8,597	0,000	0,000	619,752	275,897
3483	0,000	-1,929	-13,041	-4,679	36,920	12,652
3484	0,000	-1,857	-12,468	-4,634	36,919	12,653
3485	0,000	-1,786	-11,894	-4,589	36,917	12,653
3489	0,000	-1,714	-11,318	-4,543	36,916	12,653
3490	0,000	-1,643	-10,740	-4,498	36,914	12,653
3491	0,000	-1,571	-10,159	-4,452	36,913	12,654
3492	0,000	-1,500	-9,574	-4,406	36,910	12,654
3515	0,000	-2,000	-13,614	-4,724	36,920	12,652
3525	0,000	-1,357	-8,390	-4,312	36,905	12,655
3526	0,000	-1,285	-7,790	-4,265	36,902	12,655
3527	0,000	-1,214	-7,185	-4,217	36,899	12,655
3531	0,000	-1,428	-8,984	-4,359	36,908	12,654
3547	0,000	-1,142	-6,575	-4,168	36,895	12,656
3548	0,000	-1,071	-5,959	-4,118	36,890	12,656
3549	0,000	-0,999	-5,339	-4,068	36,885	12,656
3550	0,000	-0,928	-4,716	-4,017	36,879	12,657
3633	20,000	-7,997	0,000	0,000	512,364	223,101
3637	20,000	-7,397	0,000	0,000	407,138	167,859
3638	20,000	-6,796	0,000	0,000	305,620	110,747
3639	20,000	-6,196	0,000	0,000	209,091	52,334
3789	-10,508	4,002	-1,208	818,465	109,649	32,745
3790	-9,494	4,002	-1,676	949,701	108,280	32,163
3791	-9,832	4,002	-1,499	905,039	108,752	32,367
3792	-10,170	4,002	-1,344	861,269	109,208	32,561
3835	-9,157	4,002	-1,877	995,157	107,795	31,947
3839	-8,248	4,002	-2,566	1,120	106,438	31,309
3840	-8,551	4,002	-2,309	1,078	106,897	31,531
3841	-8,854	4,002	-2,081	1,036	107,350	31,744
3993	0,000	-0,785	-3,467	-3,913	36,863	12,657
3994	0,000	-0,714	-2,846	-3,859	36,853	12,658

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3995	0,000	-0,642	-2,230	-3,805	36,843	12,658
3999	0,000	-0,857	-4,091	-3,965	36,871	12,657
4009	0,000	-0,571	-1,621	-3,749	36,832	12,658
4013	0,000	-0,499	-1,023	-3,693	36,820	12,659
4014	0,000	-0,428	-436,150	-3,636	36,808	12,659
4015	0,000	-0,356	136,794	-3,578	36,796	12,659
4189	20,000	-5,596	0,000	0,000	118,560	-6,823
4193	20,000	-4,996	0,000	0,000	34,721	-66,176
4194	20,000	-4,396	0,000	0,000	-42,044	-125,191
4195	20,000	-3,796	0,000	0,000	-111,697	-183,351
4215	0,000	-0,213	1,234	-3,460	36,773	12,660
4216	0,000	-0,142	1,754	-3,399	36,762	12,660
4217	0,000	-0,070	2,251	-3,338	36,751	12,660
4221	0,000	-0,285	694,236	-3,519	36,784	12,659
4415	-7,132	4,002	-3,816	1,276	104,744	30,391
4416	-7,403	4,002	-3,462	1,238	105,150	30,629
4417	-7,674	4,002	-3,143	1,200	105,561	30,856
4421	-7,946	4,002	-2,855	1,163	105,976	31,075
4447	-6,860	4,002	-4,207	1,312	104,349	30,144
4451	-6,131	4,002	-5,470	1,407	103,380	29,426
4452	-6,374	4,002	-5,012	1,377	103,683	29,674
4453	-6,617	4,002	-4,592	1,345	104,008	29,914
4505	20,000	-3,195	0,000	0,000	-174,541	-240,151
4509	20,000	-2,595	0,000	0,000	-231,213	-295,108
4510	20,000	-1,995	0,000	0,000	-282,676	-347,755
4511	20,000	-1,395	0,000	0,000	-330,173	-397,647
4589	0,000	0,001	2,722	-3,276	36,740	12,660
4590	0,000	0,073	3,162	-3,213	36,731	12,660
4591	0,000	0,144	3,568	-3,150	36,721	12,661
4592	0,000	0,215	3,934	-3,087	36,713	12,661
4685	0,000	0,287	4,254	-3,023	36,704	12,661

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4686	0,000	0,358	4,523	-2,959	36,696	12,661
4687	0,000	0,430	4,732	-2,895	36,688	12,661
4688	0,000	0,501	4,877	-2,831	36,680	12,661
4847	-5,234	4,002	-7,521	1,507	102,555	28,429
4848	-5,452	4,002	-6,968	1,485	102,700	28,684
4849	-5,670	4,002	-6,451	1,462	102,885	28,930
4850	-5,888	4,002	-5,968	1,436	103,103	29,169
4857	-5,016	4,002	-8,109	1,527	102,456	28,166
4858	-4,429	4,003	-9,855	1,567	102,496	27,414
4859	-4,625	4,003	-9,250	1,556	102,426	27,672
4860	-4,820	4,002	-8,667	1,542	102,415	27,922
4993	-3,709	4,003	-12,161	1,583	103,408	26,400
4994	-3,884	4,003	-11,611	1,583	103,078	26,656
4995	-4,059	4,003	-11,045	1,581	102,820	26,906
4999	-4,234	4,003	-10,477	1,576	102,633	27,149
5015	-3,534	4,003	-12,676	1,579	103,810	26,137
5016	-3,063	4,003	-13,656	1,552	105,309	25,402
5017	-3,220	4,003	-13,438	1,564	104,754	25,652
5018	-3,377	4,003	-13,096	1,573	104,252	25,897
5115	20,000	-0,795	0,000	0,000	-375,182	-444,355
5119	20,000	-0,195	0,000	0,000	-419,361	-487,473
5120	20,000	0,406	0,000	0,000	-464,485	-526,610
5121	20,000	1,006	0,000	0,000	-512,309	-561,391
5141	0,000	0,573	4,948	-2,768	36,673	12,662
5142	0,000	0,644	4,937	-2,704	36,665	12,662
5143	0,000	0,716	4,836	-2,642	36,658	12,662
5144	0,000	0,787	4,637	-2,580	36,650	12,662
5151	0,000	0,859	4,329	-2,520	36,643	12,662
5152	0,000	0,930	3,905	-2,460	36,637	12,662
5153	0,000	1,002	3,353	-2,403	36,630	12,662
5154	0,000	1,073	2,664	-2,347	36,624	12,662

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5187	0,000	1,216	829,515	-2,243	36,613	12,662
5188	0,000	1,288	-340,290	-2,195	36,608	12,662
5189	0,000	1,359	-1,694	-2,150	36,603	12,662
5193	0,000	1,145	1,827	-2,294	36,618	12,662
5203	0,000	1,430	-3,243	-2,109	36,598	12,662
5204	0,000	1,502	-5,003	-2,072	36,593	12,662
5205	0,000	1,573	-6,985	-2,040	36,589	12,662
5206	0,000	1,645	-9,203	-2,012	36,585	12,662
5287	0,000	1,788	-14,403	-1,973	36,578	12,662
5288	0,000	1,859	-17,414	-1,963	36,575	12,662
5289	0,000	1,931	-20,718	-1,960	36,571	12,662
5293	0,000	1,716	-11,671	-1,990	36,581	12,662
5309	0,000	2,002	-24,329	-1,963	36,568	12,662
5313	0,000	2,074	-28,260	-1,975	36,565	12,662
5314	0,000	2,145	-32,523	-1,995	36,562	12,662
5315	0,000	2,217	-37,129	-2,024	36,558	12,662
5351	-2,483	4,003	-13,933	1,481	108,904	24,442
5352	-2,624	4,003	-13,308	1,502	107,592	24,681
5353	-2,765	4,003	-13,462	1,520	106,392	24,916
5357	-2,906	4,003	-13,688	1,537	105,878	25,148
5373	-2,343	4,003	-15,202	1,458	110,030	24,198
5374	-1,964	4,003	-20,649	1,354	116,387	23,549
5375	-2,091	4,003	-17,053	1,398	112,183	23,761
5376	-2,217	4,003	-15,201	1,431	109,857	23,979
5437	20,000	1,606	0,000	0,000	-564,490	-591,458
5441	20,000	2,206	0,000	0,000	-622,453	-616,464
5442	20,000	2,806	0,000	0,000	-687,348	-636,075
5443	20,000	3,406	0,000	0,000	-759,825	-649,966
5599	0,000	2,360	-47,402	-2,111	36,552	12,662
5600	0,000	2,431	-53,081	-2,170	36,548	12,662
5601	0,000	2,502	-59,128	-2,240	36,545	12,661

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5605	0,000	2,288	-42,086	-2,063	36,555	12,662
5621	0,000	2,574	-65,541	-2,321	36,541	12,661
5622	0,000	2,645	-72,320	-2,414	36,537	12,661
5623	0,000	2,717	-79,459	-2,519	36,532	12,661
5624	0,000	2,788	-86,953	-2,637	36,528	12,661
5727	20,000	4,007	0,000	0,000	-839,935	-657,828
5728	19,416	4,006	-280,985	-12,361	-821,409	-649,816
5729	18,833	4,006	-561,920	-24,796	-765,901	-625,749
5730	18,249	4,006	-842,717	-37,373	-673,524	-585,529
5731	20,000	4,506	0,000	0,000	-911,996	-659,558
5732	20,000	5,005	0,000	0,000	-988,246	-656,747
5733	20,000	5,504	0,000	0,000	-1,068	-649,250
5769	20,000	6,003	0,000	0,000	-1,149	-636,932
5773	20,000	6,502	0,000	0,000	-1,229	-619,697
5774	20,000	7,002	0,000	0,000	-1,307	-597,431
5775	20,000	7,501	0,000	0,000	-1,381	-570,099
5776	20,000	8,000	0,000	0,000	-1,446	-537,659
5777	19,375	8,000	-176,939	102,230	-1,426	-528,370
5778	18,750	8,000	-357,746	204,341	-1,367	-500,573
5779	18,125	8,000	-545,205	306,568	-1,268	-454,197
5815	-1,499	4,003	-55,562	1,001	152,814	22,896
5816	-1,612	4,003	-42,138	1,121	139,045	23,030
5817	-1,725	4,003	-32,224	1,218	129,223	23,181
5821	-1,838	4,003	-25,602	1,293	122,012	23,347
5837	-1,386	4,003	-73,243	863,449	171,466	22,777
5841	-1,082	4,003	-102,088	346,154	201,001	22,586
5842	-1,183	4,003	-93,064	552,246	193,141	22,624
5843	-1,285	4,003	-82,828	735,761	183,457	22,679
6021	0,000	2,931	-102,983	-2,911	36,518	12,660
6022	0,000	3,003	-111,498	-3,068	36,514	12,660
6023	0,000	3,074	-120,329	-3,239	36,509	12,660

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6027	0,000	2,860	-94,797	-2,768	36,524	12,661
6043	0,000	3,146	-129,458	-3,423	36,505	12,659
6047	0,000	3,217	-138,871	-3,621	36,498	12,659
6048	0,000	3,289	-148,541	-3,832	36,492	12,659
6049	0,000	3,360	-158,454	-4,056	36,485	12,658
6085	15,103	4,006	-2,344	-110,408	443,756	-80,822
6086	14,634	4,006	-2,564	-122,418	695,228	38,170
6087	14,165	4,006	-2,782	-134,791	966,591	169,215
6091	15,572	4,006	-2,123	-98,743	213,166	-188,031
6092	17,142	4,006	-1,374	-61,856	-397,873	-464,258
6093	16,619	4,006	-1,625	-73,821	-222,397	-386,025
6094	16,095	4,006	-1,874	-86,104	-18,505	-294,043
6101	17,665	4,006	-1,123	-50,163	-544,457	-528,989
6111	17,500	8,000	-742,217	409,141	-1,131	-389,024
6115	16,875	8,000	-953,352	511,888	-955,791	-304,679
6116	16,250	8,000	-1,183	614,801	-742,989	-200,869
6117	15,625	8,000	-1,435	717,761	-494,205	-77,171
6191	-0,708	4,003	-122,119	-338,864	224,512	22,339
6192	-0,799	4,003	-116,967	-191,487	217,808	22,428
6193	-0,890	4,003	-112,659	-30,030	212,710	22,496
6197	-0,618	4,003	-125,787	-431,571	238,067	22,252
6198	-0,373	4,003	-161,595	-963,432	242,155	21,855
6199	-0,455	4,003	-151,517	-750,369	244,039	22,073
6200	-0,536	4,003	-138,881	-564,903	241,556	22,189
6207	-0,981	4,003	-108,655	140,154	207,472	22,546
6297	0,000	3,503	-178,929	-4,543	36,475	12,657
6298	0,000	3,574	-189,464	-4,805	36,473	12,657
6299	0,000	3,646	-200,181	-5,079	36,472	12,656
6303	0,000	3,432	-168,589	-4,293	36,478	12,658
6313	0,000	3,717	-211,067	-5,365	36,472	12,656
6317	0,000	3,789	-222,111	-5,661	36,471	12,655

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6318	0,000	3,860	-233,303	-5,968	36,472	12,655
6319	0,000	3,932	-244,639	-6,285	36,474	12,654
6391	15,000	8,000	-1,715	820,671	-211,227	66,923
6395	14,375	8,000	-2,031	923,035	103,028	231,876
6396	13,750	8,000	-2,387	1,025	445,082	418,284
6397	13,125	8,000	-2,793	1,126	810,266	626,860
6439	-0,292	4,003	-165,896	-1,210	231,695	21,431
6440	-0,073	4,003	-217,580	-4,850	225,849	17,359
6441	-0,146	4,003	-179,728	-2,388	231,157	19,147
6442	-0,219	4,003	-179,224	-1,411	237,952	20,862
6449	0,000	4,003	-256,113	-6,612	36,475	12,654
6450	0,000	4,080	-268,557	-6,971	36,477	12,653
6451	0,000	4,156	-281,153	-7,340	36,479	12,653
6452	0,000	4,233	-293,897	-7,719	36,480	12,652
6453	0,219	4,003	-250,772	-5,938	-96,334	10,449
6454	0,146	4,003	-253,548	-6,199	-101,824	10,728
6455	0,073	4,003	-255,726	-6,452	-81,504	11,352
6481	11,638	4,005	-3,892	-207,966	2,705	1,096
6482	11,261	4,005	-4,045	-219,718	2,991	1,267
6483	10,884	4,005	-4,192	-231,622	3,279	1,448
6487	12,015	4,005	-3,736	-196,399	2,424	932,845
6488	13,276	4,005	-3,187	-159,302	1,531	451,861
6489	12,855	4,005	-3,373	-171,372	1,818	601,503
6490	12,435	4,005	-3,557	-183,743	2,116	761,755
6497	13,696	4,006	-2,997	-147,542	1,257	312,601
6563	8,854	4,005	-4,886	-296,314	4,771	2,587
6564	8,551	4,005	-4,970	-305,677	4,968	2,780
6565	8,248	4,005	-5,047	-314,874	5,153	2,980
6569	9,157	4,005	-4,796	-286,815	4,564	2,399
6570	10,170	4,005	-4,458	-254,460	3,823	1,817
6571	9,832	4,005	-4,576	-265,295	4,076	2,004

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6572	9,494	4,005	-4,689	-276,096	4,324	2,198
6579	10,508	4,005	-4,335	-243,636	3,567	1,639
6606	12,500	8,000	-3,257	1,225	1,192	858,227
6610	11,875	8,000	-3,790	1,322	1,581	1,113
6611	11,250	8,000	-4,404	1,415	1,966	1,392
6612	10,625	8,000	-5,110	1,503	2,330	1,695
6653	0,292	4,003	-250,950	-5,692	-87,006	10,354
6654	0,536	4,003	-220,060	-4,907	-133,683	9,846
6655	0,455	4,003	-240,417	-5,219	-88,723	10,151
6656	0,373	4,003	-251,091	-5,469	-76,167	10,296
6663	0,000	4,310	-306,782	-8,105	36,481	12,652
6664	0,000	4,393	-320,988	-8,535	36,483	12,651
6665	0,000	4,477	-335,349	-8,974	36,485	12,651
6666	0,000	4,560	-349,860	-9,421	36,486	12,650
6673	0,618	4,003	-201,746	-4,553	-169,111	9,490
6674	0,890	4,003	-159,417	-3,114	-125,744	9,206
6675	0,799	4,003	-180,127	-3,681	-155,631	9,087
6676	0,708	4,003	-191,348	-4,137	-165,900	9,225
6699	6,617	4,004	-5,236	-361,749	5,772	4,162
6700	6,374	4,004	-5,209	-368,769	5,766	4,352
6701	6,131	4,004	-5,161	-376,069	5,715	4,547
6705	6,860	4,004	-5,244	-354,873	5,742	3,975
6706	7,674	4,005	-5,166	-331,808	5,459	3,376
6707	7,403	4,004	-5,206	-339,584	5,578	3,571
6708	7,132	4,004	-5,233	-347,250	5,674	3,770
6715	7,946	4,005	-5,114	-323,888	5,323	3,186
6837	0,000	5,513	-523,892	-14,923	36,503	12,646
6838	0,000	5,622	-544,418	-15,579	36,504	12,646
6839	0,000	5,730	-565,062	-16,239	36,506	12,645
6843	0,000	5,956	-608,561	-17,630	36,509	12,645
6844	0,000	6,074	-631,413	-18,360	36,510	12,644

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6845	0,000	6,192	-654,363	-19,093	36,511	12,644
6849	0,000	5,838	-585,815	-16,903	36,507	12,645
6859	0,000	6,311	-677,402	-19,828	36,512	12,644
6860	0,000	6,439	-702,615	-20,631	36,513	12,643
6861	0,000	6,568	-727,909	-21,436	36,514	12,643
6862	0,000	6,697	-753,275	-22,242	36,515	12,643
6869	0,000	6,966	-806,494	-23,930	36,517	12,642
6870	0,000	7,107	-834,335	-24,811	36,517	12,642
6871	0,000	7,247	-862,219	-25,693	36,518	12,642
6875	0,000	6,826	-778,704	-23,049	36,516	12,643
6885	0,000	7,387	-890,135	-26,575	36,518	12,642
6886	0,000	8,000	-1,012	-30,421	36,519	12,642
6887	0,000	7,541	-920,604	-27,536	36,519	12,642
6888	0,000	7,694	-951,088	-28,498	36,519	12,642
6889	0,000	7,847	-981,579	-29,460	36,519	12,642
6893	0,750	8,000	-507,666	-12,003	-482,485	-3,975
6894	0,500	8,000	-480,500	-11,264	-487,723	-4,358
6895	0,250	8,000	-429,792	-9,865	-316,648	1,178
6899	2,217	4,004	-12,271	-802,546	8,870	8,535
6900	2,091	4,004	-14,239	-842,096	6,811	8,700
6901	1,964	4,004	-16,686	-901,314	1,574	8,856
6905	2,343	4,004	-11,128	-769,507	7,336	8,359
6906	2,765	4,004	-8,312	-674,391	1,866	7,804
6907	2,624	4,004	-9,281	-703,958	2,993	7,983
6908	2,483	4,004	-10,270	-735,595	4,829	8,168
6915	3,377	4,004	-5,642	-569,444	386,502	7,087
6916	3,220	4,004	-6,172	-593,334	308,540	7,263
6917	3,063	4,004	-6,842	-619,208	520,210	7,444
6921	2,906	4,004	-7,609	-647,383	1,047	7,631
6931	3,534	4,004	-5,250	-547,395	650,258	6,916
6932	4,059	4,004	-4,538	-486,843	2,002	6,377

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6933	3,884	4,004	-4,692	-504,832	1,494	6,552
6934	3,709	4,004	-4,921	-524,998	1,037	6,731
6941	4,820	4,004	-4,566	-429,579	4,159	5,663
6942	4,625	4,004	-4,483	-441,555	3,678	5,840
6943	4,429	4,004	-4,437	-455,237	3,132	6,022
6947	4,234	4,004	-4,449	-470,903	2,541	6,207
6957	5,016	4,004	-4,667	-419,044	4,570	5,488
6958	5,670	4,004	-5,005	-391,324	5,457	4,926
6959	5,452	4,004	-4,903	-399,542	5,239	5,110
6960	5,234	4,004	-4,787	-408,695	4,946	5,297
6967	5,888	4,004	-5,090	-383,820	5,610	4,745
6977	10,000	8,000	-5,920	1,585	2,653	2,023
6981	9,375	8,000	-6,849	1,659	2,908	2,377
6982	8,750	8,000	-7,904	1,722	3,054	2,755
6983	8,125	8,000	-9,063	1,771	3,045	3,156
6987	1,285	4,003	-75,686	-1,679	-34,280	9,654
6988	1,183	4,003	-89,161	-1,837	-42,417	9,724
6989	1,082	4,003	-102,722	-2,023	-52,043	9,781
6993	0,981	4,003	-109,389	-2,232	-62,188	9,844
7003	1,386	4,003	-62,786	-1,542	-30,558	9,560
7004	1,725	4,004	-26,493	-1,147	-9,834	9,210
7005	1,612	4,004	-36,613	-1,278	-19,152	9,343
7006	1,499	4,004	-48,940	-1,406	-26,656	9,451
7013	1,838	4,004	-21,069	-1,006	-3,045	9,038
7049	0,000	4,735	-380,639	-10,378	36,490	12,649
7050	0,000	4,826	-396,921	-10,888	36,491	12,649
7051	0,000	4,917	-413,347	-11,405	36,493	12,649
7055	0,000	4,644	-364,509	-9,875	36,488	12,650
7075	0,000	5,008	-429,905	-11,929	36,494	12,648
7076	0,000	5,107	-448,104	-12,506	36,496	12,648
7077	0,000	5,206	-466,441	-13,089	36,498	12,647

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻³ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
7078	0,000	5,306	-484,906	-13,677	36,500	12,647
7085	0,000	5,405	-503,494	-14,271	36,501	12,646
7155	7,500	8,000	-10,269	1,804	2,830	3,580
7160	1,000	8,000	-502,186	-11,529	-546,465	-6,662
7188	6,875	8,000	-12,011	1,813	1,862	4,015
7192	6,250	8,000	-10,934	1,818	1,855	4,483
7193	5,625	8,000	-14,012	1,727	3,886	4,985
7194	5,000	8,000	-49,734	1,276	-9,053	5,314
7204	2,500	8,000	-514,387	-11,283	-509,446	-6,083
7208	2,000	8,000	-510,477	-11,943	-531,488	-7,390
7209	1,500	8,000	-507,335	-11,836	-549,853	-7,705
7213	3,000	8,000	-413,394	-8,157	-386,696	-3,771
7227	4,500	8,000	-206,257	-348,341	-192,277	3,868
7228	4,000	8,000	-285,794	-2,785	-301,355	1,767
7230	3,500	8,000	-364,171	-5,858	-338,927	-757,193

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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SLE, SLU-STR, SLU-V (Sisma)

1. General Information

Table [1] Units

Type	Unit
Length	m
Force	kN
Time	day

Table [2] Model dimensions

	min.	max.
X	-20,000	20,000
Y	-20,000	8,000

Table [3] Model

Model	Plane strain
Element	15-Noded

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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2. Structures

Table [4] Beams

Plate no.	Data set	Length [m]	Nodes
1	MICROPALI 193S	10,000	3515, 6449, 6886.

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3. Material data

Table [5] Soil data sets parameters

Mohr-Coulomb		1
Type		GHIAIE
γ_{unsat}	[kN/m ³]	19,00
γ_{sat}	[kN/m ³]	19,00
k_x	[m/day]	1,000
k_y	[m/day]	1,000
e_{init}	[-]	1,000
c_k	[-]	1E15
E_{ref}	[kN/m ²]	50000,000
ν	[-]	0,300
G_{ref}	[kN/m ²]	19230,769
E_{oed}	[kN/m ²]	67307,692
c_{ref}	[kN/m ²]	0,00
ϕ	[°]	38,00
ψ	[°]	0,00
E_{inc}	[kN/m ² /m]	0,00
y_{ref}	[m]	0,000
$c_{increment}$	[kN/m ² /m]	0,00
$T_{str.}$	[kN/m ²]	0,00
$R_{inter.}$	[-]	1,00
Interface permeability		Neutral

Table [6] Beam data sets parameters

No.	Identification	EA	EI	w	v	Mp	Np
		[kN/m]	[kNm ² /m]	[kN/m/m]	[-]	[kNm/m]	[kN/m]

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

No.	Identification	EA [kN/m]	EI [kNm ² /m]	w [kN/m/m]	v [-]	Mp [kNm/m]	Np [kN/m]
1	MICROPALI 193	5,1215E6	21103,00	1,68	0,20	1E15	1E15
2	MICROPALI 219	5,78E6	31923,00	2,12	0,20	1E15	1E15
3	MICROPALI 193S	5,7614E6	23341,00	2,10	0,20	1E15	1E15
4	MICROPALI 193SS	6,4232E6	25560,00	2,10	0,20	1E15	1E15

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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4. Calculation phases

Table [7] List of phases

Phase	Ph-No.	Start phase	Calculation type	Load input	First step	Last step
Initial phase	0	-1		-	0	0
SOVRACCARI CO SLE	1	0	Plastic	Staged construction	1	2
MICROPALI SLE	2	1	Plastic	Staged construction	3	4
SCAVO SLE	3	2	Plastic	Staged construction	5	27
SOVRACCARI CO STR	4	0	Plastic	Staged construction	28	29
MICROPALI STR	5	4	Plastic	Staged construction	30	31
SCAVO STR	6	5	Plastic	Staged construction	32	56
SCAVO SISMA	7	0	Plastic	Staged construction	57	79
SISMA	8	7	Plastic	Total multipliers	80	155

Table [8] Staged construction info

Ph-No.	Active clusters	Inactive clusters	Active beams	Active geotextiles	Active anchors
0	1, 2, 3.				
1	1, 2, 3.		1.		
2	1, 2, 3.		1.		
3	1, 3.	2.	1.		
4	1, 2, 3.		1.		
5	1, 2, 3.		1.		
6	1, 3.	2.	1.		
7	1, 3.	2.	1.		

		<p align="center">Ponte sullo Stretto di Messina PROGETTO DEFINITIVO</p>		
<p align="center">RELAZIONE DI CALCOLO OPERE PROVVISORIALI</p>		<p><i>Codice documento</i> SS0414_F0.doc</p>	<p><i>Rev</i> F0</p>	<p><i>Data</i> 20/06/2011</p>

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

5. Results for phase

Table [9] Table of deformations phase no: 0

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
1	-20,000	-18,333	0,000	0,000	0,000	0,000
2	-20,000	-18,889	0,000	0,000	0,000	0,000
3	-20,000	-19,444	0,000	0,000	0,000	0,000
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	0,000	0,000
18	-20,000	-16,667	0,000	0,000	0,000	0,000
19	-20,000	-17,222	0,000	0,000	0,000	0,000
26	-20,000	-17,778	0,000	0,000	0,000	0,000
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
49	-20,000	-15,556	0,000	0,000	0,000	0,000
53	-20,000	-13,889	0,000	0,000	0,000	0,000
54	-20,000	-14,444	0,000	0,000	0,000	0,000
55	-20,000	-15,000	0,000	0,000	0,000	0,000
59	-15,294	-20,000	0,000	0,000	0,000	0,000
63	-14,706	-20,000	0,000	0,000	0,000	0,000
64	-14,118	-20,000	0,000	0,000	0,000	0,000
65	-13,529	-20,000	0,000	0,000	0,000	0,000
125	-20,000	-13,333	0,000	0,000	0,000	0,000
129	-20,000	-11,667	0,000	0,000	0,000	0,000
130	-20,000	-12,222	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011


Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
131	-20,000	-12,778	0,000	0,000	0,000	0,000
215	-12,941	-20,000	0,000	0,000	0,000	0,000
219	-12,353	-20,000	0,000	0,000	0,000	0,000
220	-11,765	-20,000	0,000	0,000	0,000	0,000
221	-11,176	-20,000	0,000	0,000	0,000	0,000
225	-10,588	-20,000	0,000	0,000	0,000	0,000
229	-10,000	-20,000	0,000	0,000	0,000	0,000
230	-9,412	-20,000	0,000	0,000	0,000	0,000
231	-8,824	-20,000	0,000	0,000	0,000	0,000
263	-20,000	-11,111	0,000	0,000	0,000	0,000
264	-20,000	-9,444	0,000	0,000	0,000	0,000
265	-20,000	-10,000	0,000	0,000	0,000	0,000
266	-20,000	-10,556	0,000	0,000	0,000	0,000
407	-8,235	-20,000	0,000	0,000	0,000	0,000
411	-7,647	-20,000	0,000	0,000	0,000	0,000
412	-7,059	-20,000	0,000	0,000	0,000	0,000
413	-6,471	-20,000	0,000	0,000	0,000	0,000
417	-20,000	-8,889	0,000	0,000	0,000	0,000
421	-20,000	-7,222	0,000	0,000	0,000	0,000
422	-20,000	-7,778	0,000	0,000	0,000	0,000
423	-20,000	-8,333	0,000	0,000	0,000	0,000
471	-5,882	-20,000	0,000	0,000	0,000	0,000
475	-5,294	-20,000	0,000	0,000	0,000	0,000
476	-4,706	-20,000	0,000	0,000	0,000	0,000
477	-4,118	-20,000	0,000	0,000	0,000	0,000
625	-20,000	-6,667	0,000	0,000	0,000	0,000
626	-20,000	-5,000	0,000	0,000	0,000	0,000
627	-20,000	-5,556	0,000	0,000	0,000	0,000
628	-20,000	-6,111	0,000	0,000	0,000	0,000
785	-3,529	-20,000	0,000	0,000	0,000	0,000
789	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011


Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
790	-2,353	-20,000	0,000	0,000	0,000	0,000
791	-1,765	-20,000	0,000	0,000	0,000	0,000
795	-1,176	-20,000	0,000	0,000	0,000	0,000
799	-0,588	-20,000	0,000	0,000	0,000	0,000
800	0,000	-20,000	0,000	0,000	0,000	0,000
801	0,588	-20,000	0,000	0,000	0,000	0,000
830	-20,000	-4,444	0,000	0,000	0,000	0,000
831	-20,000	-2,778	0,000	0,000	0,000	0,000
832	-20,000	-3,333	0,000	0,000	0,000	0,000
833	-20,000	-3,889	0,000	0,000	0,000	0,000
1057	1,765	-20,000	0,000	0,000	0,000	0,000
1058	2,353	-20,000	0,000	0,000	0,000	0,000
1059	2,941	-20,000	0,000	0,000	0,000	0,000
1063	1,176	-20,000	0,000	0,000	0,000	0,000
1067	3,529	-20,000	0,000	0,000	0,000	0,000
1071	4,118	-20,000	0,000	0,000	0,000	0,000
1072	4,706	-20,000	0,000	0,000	0,000	0,000
1073	5,294	-20,000	0,000	0,000	0,000	0,000
1133	5,882	-20,000	0,000	0,000	0,000	0,000
1134	6,471	-20,000	0,000	0,000	0,000	0,000
1135	7,059	-20,000	0,000	0,000	0,000	0,000
1136	7,647	-20,000	0,000	0,000	0,000	0,000
1143	8,235	-20,000	0,000	0,000	0,000	0,000
1147	8,824	-20,000	0,000	0,000	0,000	0,000
1148	9,412	-20,000	0,000	0,000	0,000	0,000
1149	10,000	-20,000	0,000	0,000	0,000	0,000
1165	-20,000	-2,222	0,000	0,000	0,000	0,000
1166	-20,000	-0,556	0,000	0,000	0,000	0,000
1167	-20,000	-1,111	0,000	0,000	0,000	0,000
1168	-20,000	-1,667	0,000	0,000	0,000	0,000
1352	-20,000	0,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
1353	-20,000	1,500	0,000	0,000	0,000	0,000
1354	-20,000	1,000	0,000	0,000	0,000	0,000
1355	-20,000	0,500	0,000	0,000	0,000	0,000
1505	11,176	-20,000	0,000	0,000	0,000	0,000
1506	11,765	-20,000	0,000	0,000	0,000	0,000
1507	12,353	-20,000	0,000	0,000	0,000	0,000
1511	10,588	-20,000	0,000	0,000	0,000	0,000
1515	12,941	-20,000	0,000	0,000	0,000	0,000
1519	13,529	-20,000	0,000	0,000	0,000	0,000
1520	14,118	-20,000	0,000	0,000	0,000	0,000
1521	14,706	-20,000	0,000	0,000	0,000	0,000
1531	15,294	-20,000	0,000	0,000	0,000	0,000
1535	15,882	-20,000	0,000	0,000	0,000	0,000
1536	16,471	-20,000	0,000	0,000	0,000	0,000
1537	17,059	-20,000	0,000	0,000	0,000	0,000
1585	17,647	-20,000	0,000	0,000	0,000	0,000
1589	18,235	-20,000	0,000	0,000	0,000	0,000
1590	18,824	-20,000	0,000	0,000	0,000	0,000
1591	19,412	-20,000	0,000	0,000	0,000	0,000
1592	20,000	-20,000	0,000	0,000	0,000	0,000
1593	20,000	-19,400	0,000	0,000	0,000	0,000
1594	20,000	-18,800	0,000	0,000	0,000	0,000
1595	20,000	-18,200	0,000	0,000	0,000	0,000
1871	-20,000	3,500	0,000	0,000	0,000	0,000
1872	-20,000	3,000	0,000	0,000	0,000	0,000
1873	-20,000	2,500	0,000	0,000	0,000	0,000
1877	-20,000	2,000	0,000	0,000	0,000	0,000
1881	-20,000	4,000	0,000	0,000	0,000	0,000
1882	-18,249	4,000	0,000	0,000	0,000	0,000
1883	-18,833	4,000	0,000	0,000	0,000	0,000
1884	-19,416	4,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
1885	-20,000	5,500	0,000	0,000	0,000	0,000
1886	-20,000	5,000	0,000	0,000	0,000	0,000
1887	-20,000	4,500	0,000	0,000	0,000	0,000
2009	20,000	-17,599	0,000	0,000	0,000	0,000
2013	20,000	-16,999	0,000	0,000	0,000	0,000
2014	20,000	-16,399	0,000	0,000	0,000	0,000
2015	20,000	-15,799	0,000	0,000	0,000	0,000
2019	-16,095	4,001	0,000	0,000	0,000	0,000
2020	-16,619	4,001	0,000	0,000	0,000	0,000
2021	-17,142	4,000	0,000	0,000	0,000	0,000
2031	-17,665	4,000	0,000	0,000	0,000	0,000
2047	-20,000	8,000	0,000	0,000	0,000	0,000
2048	-20,000	7,500	0,000	0,000	0,000	0,000
2049	-20,000	7,000	0,000	0,000	0,000	0,000
2050	-20,000	6,500	0,000	0,000	0,000	0,000
2051	-18,285	8,000	0,000	0,000	0,000	0,000
2052	-18,857	8,000	0,000	0,000	0,000	0,000
2053	-19,428	8,000	0,000	0,000	0,000	0,000
2057	-20,000	6,000	0,000	0,000	0,000	0,000
2061	-17,713	8,000	0,000	0,000	0,000	0,000
2065	-16,150	8,000	0,000	0,000	0,000	0,000
2066	-16,671	8,000	0,000	0,000	0,000	0,000
2067	-17,192	8,000	0,000	0,000	0,000	0,000
2363	20,000	-15,199	0,000	0,000	0,000	0,000
2367	20,000	-14,599	0,000	0,000	0,000	0,000
2368	20,000	-13,998	0,000	0,000	0,000	0,000
2369	20,000	-13,398	0,000	0,000	0,000	0,000
2427	-15,572	4,001	0,000	0,000	0,000	0,000
2431	-14,165	4,001	0,000	0,000	0,000	0,000
2432	-14,634	4,001	0,000	0,000	0,000	0,000
2433	-15,103	4,001	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
2525	-15,628	8,000	0,000	0,000	0,000	0,000
2529	-14,203	8,000	0,000	0,000	0,000	0,000
2530	-14,678	8,000	0,000	0,000	0,000	0,000
2531	-15,153	8,000	0,000	0,000	0,000	0,000
2803	20,000	-12,798	0,000	0,000	0,000	0,000
2807	20,000	-12,198	0,000	0,000	0,000	0,000
2808	20,000	-11,598	0,000	0,000	0,000	0,000
2809	20,000	-10,998	0,000	0,000	0,000	0,000
2829	-13,696	4,001	0,000	0,000	0,000	0,000
2830	-12,435	4,001	0,000	0,000	0,000	0,000
2831	-12,855	4,001	0,000	0,000	0,000	0,000
2832	-13,276	4,001	0,000	0,000	0,000	0,000
2839	-13,727	8,000	0,000	0,000	0,000	0,000
2843	-12,428	8,000	0,000	0,000	0,000	0,000
2844	-12,861	8,000	0,000	0,000	0,000	0,000
2845	-13,294	8,000	0,000	0,000	0,000	0,000
3247	-12,015	4,001	0,000	0,000	0,000	0,000
3251	-10,884	4,001	0,000	0,000	0,000	0,000
3252	-11,261	4,001	0,000	0,000	0,000	0,000
3253	-11,638	4,001	0,000	0,000	0,000	0,000
3305	-11,994	8,000	0,000	0,000	0,000	0,000
3306	-10,809	8,000	0,000	0,000	0,000	0,000
3307	-11,204	8,000	0,000	0,000	0,000	0,000
3308	-11,599	8,000	0,000	0,000	0,000	0,000
3441	20,000	-10,397	0,000	0,000	0,000	0,000
3442	20,000	-9,797	0,000	0,000	0,000	0,000
3443	20,000	-9,197	0,000	0,000	0,000	0,000
3444	20,000	-8,597	0,000	0,000	0,000	0,000
3483	0,000	-1,929	0,000	0,000	0,000	0,000
3484	0,000	-1,857	0,000	0,000	0,000	0,000
3485	0,000	-1,786	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
3489	0,000	-1,714	0,000	0,000	0,000	0,000
3490	0,000	-1,643	0,000	0,000	0,000	0,000
3491	0,000	-1,571	0,000	0,000	0,000	0,000
3492	0,000	-1,500	0,000	0,000	0,000	0,000
3515	0,000	-2,000	0,000	0,000	0,000	0,000
3525	0,000	-1,357	0,000	0,000	0,000	0,000
3526	0,000	-1,285	0,000	0,000	0,000	0,000
3527	0,000	-1,214	0,000	0,000	0,000	0,000
3531	0,000	-1,428	0,000	0,000	0,000	0,000
3547	0,000	-1,142	0,000	0,000	0,000	0,000
3548	0,000	-1,071	0,000	0,000	0,000	0,000
3549	0,000	-0,999	0,000	0,000	0,000	0,000
3550	0,000	-0,928	0,000	0,000	0,000	0,000
3633	20,000	-7,997	0,000	0,000	0,000	0,000
3637	20,000	-7,397	0,000	0,000	0,000	0,000
3638	20,000	-6,796	0,000	0,000	0,000	0,000
3639	20,000	-6,196	0,000	0,000	0,000	0,000
3789	-10,508	4,002	0,000	0,000	0,000	0,000
3790	-9,494	4,002	0,000	0,000	0,000	0,000
3791	-9,832	4,002	0,000	0,000	0,000	0,000
3792	-10,170	4,002	0,000	0,000	0,000	0,000
3809	-10,414	8,000	0,000	0,000	0,000	0,000
3813	-9,334	8,000	0,000	0,000	0,000	0,000
3814	-9,694	8,000	0,000	0,000	0,000	0,000
3815	-10,054	8,000	0,000	0,000	0,000	0,000
3835	-9,157	4,002	0,000	0,000	0,000	0,000
3839	-8,248	4,002	0,000	0,000	0,000	0,000
3840	-8,551	4,002	0,000	0,000	0,000	0,000
3841	-8,854	4,002	0,000	0,000	0,000	0,000
3993	0,000	-0,785	0,000	0,000	0,000	0,000
3994	0,000	-0,714	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
3995	0,000	-0,642	0,000	0,000	0,000	0,000
3999	0,000	-0,857	0,000	0,000	0,000	0,000
4009	0,000	-0,571	0,000	0,000	0,000	0,000
4013	0,000	-0,499	0,000	0,000	0,000	0,000
4014	0,000	-0,428	0,000	0,000	0,000	0,000
4015	0,000	-0,356	0,000	0,000	0,000	0,000
4189	20,000	-5,596	0,000	0,000	0,000	0,000
4193	20,000	-4,996	0,000	0,000	0,000	0,000
4194	20,000	-4,396	0,000	0,000	0,000	0,000
4195	20,000	-3,796	0,000	0,000	0,000	0,000
4215	0,000	-0,213	0,000	0,000	0,000	0,000
4216	0,000	-0,142	0,000	0,000	0,000	0,000
4217	0,000	-0,070	0,000	0,000	0,000	0,000
4221	0,000	-0,285	0,000	0,000	0,000	0,000
4303	-8,974	8,000	0,000	0,000	0,000	0,000
4307	-7,989	8,000	0,000	0,000	0,000	0,000
4308	-8,317	8,000	0,000	0,000	0,000	0,000
4309	-8,645	8,000	0,000	0,000	0,000	0,000
4415	-7,132	4,002	0,000	0,000	0,000	0,000
4416	-7,403	4,002	0,000	0,000	0,000	0,000
4417	-7,674	4,002	0,000	0,000	0,000	0,000
4421	-7,946	4,002	0,000	0,000	0,000	0,000
4447	-6,860	4,002	0,000	0,000	0,000	0,000
4451	-6,131	4,002	0,000	0,000	0,000	0,000
4452	-6,374	4,002	0,000	0,000	0,000	0,000
4453	-6,617	4,002	0,000	0,000	0,000	0,000
4505	20,000	-3,195	0,000	0,000	0,000	0,000
4509	20,000	-2,595	0,000	0,000	0,000	0,000
4510	20,000	-1,995	0,000	0,000	0,000	0,000
4511	20,000	-1,395	0,000	0,000	0,000	0,000
4589	0,000	0,001	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
4590	0,000	0,073	0,000	0,000	0,000	0,000
4591	0,000	0,144	0,000	0,000	0,000	0,000
4592	0,000	0,215	0,000	0,000	0,000	0,000
4631	-7,660	8,000	0,000	0,000	0,000	0,000
4635	-6,762	8,000	0,000	0,000	0,000	0,000
4636	-7,062	8,000	0,000	0,000	0,000	0,000
4637	-7,361	8,000	0,000	0,000	0,000	0,000
4685	0,000	0,287	0,000	0,000	0,000	0,000
4686	0,000	0,358	0,000	0,000	0,000	0,000
4687	0,000	0,430	0,000	0,000	0,000	0,000
4688	0,000	0,501	0,000	0,000	0,000	0,000
4847	-5,234	4,002	0,000	0,000	0,000	0,000
4848	-5,452	4,002	0,000	0,000	0,000	0,000
4849	-5,670	4,002	0,000	0,000	0,000	0,000
4850	-5,888	4,002	0,000	0,000	0,000	0,000
4857	-5,016	4,002	0,000	0,000	0,000	0,000
4858	-4,429	4,003	0,000	0,000	0,000	0,000
4859	-4,625	4,003	0,000	0,000	0,000	0,000
4860	-4,820	4,002	0,000	0,000	0,000	0,000
4993	-3,709	4,003	0,000	0,000	0,000	0,000
4994	-3,884	4,003	0,000	0,000	0,000	0,000
4995	-4,059	4,003	0,000	0,000	0,000	0,000
4999	-4,234	4,003	0,000	0,000	0,000	0,000
5015	-3,534	4,003	0,000	0,000	0,000	0,000
5016	-3,063	4,003	0,000	0,000	0,000	0,000
5017	-3,220	4,003	0,000	0,000	0,000	0,000
5018	-3,377	4,003	0,000	0,000	0,000	0,000
5115	20,000	-0,795	0,000	0,000	0,000	0,000
5119	20,000	-0,195	0,000	0,000	0,000	0,000
5120	20,000	0,406	0,000	0,000	0,000	0,000
5121	20,000	1,006	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
5141	0,000	0,573	0,000	0,000	0,000	0,000
5142	0,000	0,644	0,000	0,000	0,000	0,000
5143	0,000	0,716	0,000	0,000	0,000	0,000
5144	0,000	0,787	0,000	0,000	0,000	0,000
5151	0,000	0,859	0,000	0,000	0,000	0,000
5152	0,000	0,930	0,000	0,000	0,000	0,000
5153	0,000	1,002	0,000	0,000	0,000	0,000
5154	0,000	1,073	0,000	0,000	0,000	0,000
5187	0,000	1,216	0,000	0,000	0,000	0,000
5188	0,000	1,288	0,000	0,000	0,000	0,000
5189	0,000	1,359	0,000	0,000	0,000	0,000
5193	0,000	1,145	0,000	0,000	0,000	0,000
5203	0,000	1,430	0,000	0,000	0,000	0,000
5204	0,000	1,502	0,000	0,000	0,000	0,000
5205	0,000	1,573	0,000	0,000	0,000	0,000
5206	0,000	1,645	0,000	0,000	0,000	0,000
5213	-6,463	8,000	0,000	0,000	0,000	0,000
5217	-5,644	8,000	0,000	0,000	0,000	0,000
5218	-5,917	8,000	0,000	0,000	0,000	0,000
5219	-6,190	8,000	0,000	0,000	0,000	0,000
5277	-5,371	8,000	0,000	0,000	0,000	0,000
5281	-4,625	8,000	0,000	0,000	0,000	0,000
5282	-4,873	8,000	0,000	0,000	0,000	0,000
5283	-5,122	8,000	0,000	0,000	0,000	0,000
5287	0,000	1,788	0,000	0,000	0,000	0,000
5288	0,000	1,859	0,000	0,000	0,000	0,000
5289	0,000	1,931	0,000	0,000	0,000	0,000
5293	0,000	1,716	0,000	0,000	0,000	0,000
5309	0,000	2,002	0,000	0,000	0,000	0,000
5313	0,000	2,074	0,000	0,000	0,000	0,000
5314	0,000	2,145	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
5315	0,000	2,217	0,000	0,000	0,000	0,000
5351	-2,483	4,003	0,000	0,000	0,000	0,000
5352	-2,624	4,003	0,000	0,000	0,000	0,000
5353	-2,765	4,003	0,000	0,000	0,000	0,000
5357	-2,906	4,003	0,000	0,000	0,000	0,000
5373	-2,343	4,003	0,000	0,000	0,000	0,000
5374	-1,964	4,003	0,000	0,000	0,000	0,000
5375	-2,091	4,003	0,000	0,000	0,000	0,000
5376	-2,217	4,003	0,000	0,000	0,000	0,000
5437	20,000	1,606	0,000	0,000	0,000	0,000
5441	20,000	2,206	0,000	0,000	0,000	0,000
5442	20,000	2,806	0,000	0,000	0,000	0,000
5443	20,000	3,406	0,000	0,000	0,000	0,000
5599	0,000	2,360	0,000	0,000	0,000	0,000
5600	0,000	2,431	0,000	0,000	0,000	0,000
5601	0,000	2,502	0,000	0,000	0,000	0,000
5605	0,000	2,288	0,000	0,000	0,000	0,000
5621	0,000	2,574	0,000	0,000	0,000	0,000
5622	0,000	2,645	0,000	0,000	0,000	0,000
5623	0,000	2,717	0,000	0,000	0,000	0,000
5624	0,000	2,788	0,000	0,000	0,000	0,000
5679	-4,376	8,000	0,000	0,000	0,000	0,000
5683	-3,695	8,000	0,000	0,000	0,000	0,000
5684	-3,922	8,000	0,000	0,000	0,000	0,000
5685	-4,149	8,000	0,000	0,000	0,000	0,000
5727	20,000	4,007	0,000	0,000	0,000	0,000
5728	19,416	4,006	0,000	0,000	0,000	0,000
5729	18,833	4,006	0,000	0,000	0,000	0,000
5730	18,249	4,006	0,000	0,000	0,000	0,000
5731	20,000	4,506	0,000	0,000	0,000	0,000
5732	20,000	5,005	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
5733	20,000	5,504	0,000	0,000	0,000	0,000
5753	-3,468	8,000	0,000	0,000	0,000	0,000
5757	-2,848	8,000	0,000	0,000	0,000	0,000
5758	-3,055	8,000	0,000	0,000	0,000	0,000
5759	-3,261	8,000	0,000	0,000	0,000	0,000
5769	20,000	6,003	0,000	0,000	0,000	0,000
5773	20,000	6,502	0,000	0,000	0,000	0,000
5774	20,000	7,002	0,000	0,000	0,000	0,000
5775	20,000	7,501	0,000	0,000	0,000	0,000
5776	20,000	8,000	0,000	0,000	0,000	0,000
5777	19,375	8,000	0,000	0,000	0,000	0,000
5778	18,750	8,000	0,000	0,000	0,000	0,000
5779	18,125	8,000	0,000	0,000	0,000	0,000
5815	-1,499	4,003	0,000	0,000	0,000	0,000
5816	-1,612	4,003	0,000	0,000	0,000	0,000
5817	-1,725	4,003	0,000	0,000	0,000	0,000
5821	-1,838	4,003	0,000	0,000	0,000	0,000
5837	-1,386	4,003	0,000	0,000	0,000	0,000
5841	-1,082	4,003	0,000	0,000	0,000	0,000
5842	-1,183	4,003	0,000	0,000	0,000	0,000
5843	-1,285	4,003	0,000	0,000	0,000	0,000
6021	0,000	2,931	0,000	0,000	0,000	0,000
6022	0,000	3,003	0,000	0,000	0,000	0,000
6023	0,000	3,074	0,000	0,000	0,000	0,000
6027	0,000	2,860	0,000	0,000	0,000	0,000
6043	0,000	3,146	0,000	0,000	0,000	0,000
6047	0,000	3,217	0,000	0,000	0,000	0,000
6048	0,000	3,289	0,000	0,000	0,000	0,000
6049	0,000	3,360	0,000	0,000	0,000	0,000
6085	15,103	4,006	0,000	0,000	0,000	0,000
6086	14,634	4,006	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
6087	14,165	4,006	0,000	0,000	0,000	0,000
6091	15,572	4,006	0,000	0,000	0,000	0,000
6092	17,142	4,006	0,000	0,000	0,000	0,000
6093	16,619	4,006	0,000	0,000	0,000	0,000
6094	16,095	4,006	0,000	0,000	0,000	0,000
6101	17,665	4,006	0,000	0,000	0,000	0,000
6111	17,500	8,000	0,000	0,000	0,000	0,000
6115	16,875	8,000	0,000	0,000	0,000	0,000
6116	16,250	8,000	0,000	0,000	0,000	0,000
6117	15,625	8,000	0,000	0,000	0,000	0,000
6149	-2,641	8,000	0,000	0,000	0,000	0,000
6153	-2,075	8,000	0,000	0,000	0,000	0,000
6154	-2,264	8,000	0,000	0,000	0,000	0,000
6155	-2,452	8,000	0,000	0,000	0,000	0,000
6159	-1,887	8,000	0,000	0,000	0,000	0,000
6163	-1,371	8,000	0,000	0,000	0,000	0,000
6164	-1,543	8,000	0,000	0,000	0,000	0,000
6165	-1,715	8,000	0,000	0,000	0,000	0,000
6191	-0,708	4,003	0,000	0,000	0,000	0,000
6192	-0,799	4,003	0,000	0,000	0,000	0,000
6193	-0,890	4,003	0,000	0,000	0,000	0,000
6197	-0,618	4,003	0,000	0,000	0,000	0,000
6198	-0,373	4,003	0,000	0,000	0,000	0,000
6199	-0,455	4,003	0,000	0,000	0,000	0,000
6200	-0,536	4,003	0,000	0,000	0,000	0,000
6207	-0,981	4,003	0,000	0,000	0,000	0,000
6297	0,000	3,503	0,000	0,000	0,000	0,000
6298	0,000	3,574	0,000	0,000	0,000	0,000
6299	0,000	3,646	0,000	0,000	0,000	0,000
6303	0,000	3,432	0,000	0,000	0,000	0,000
6313	0,000	3,717	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
6317	0,000	3,789	0,000	0,000	0,000	0,000
6318	0,000	3,860	0,000	0,000	0,000	0,000
6319	0,000	3,932	0,000	0,000	0,000	0,000
6391	15,000	8,000	0,000	0,000	0,000	0,000
6395	14,375	8,000	0,000	0,000	0,000	0,000
6396	13,750	8,000	0,000	0,000	0,000	0,000
6397	13,125	8,000	0,000	0,000	0,000	0,000
6401	-1,199	8,000	0,000	0,000	0,000	0,000
6405	-0,728	8,000	0,000	0,000	0,000	0,000
6406	-0,885	8,000	0,000	0,000	0,000	0,000
6407	-1,042	8,000	0,000	0,000	0,000	0,000
6439	-0,292	4,003	0,000	0,000	0,000	0,000
6440	-0,073	4,003	0,000	0,000	0,000	0,000
6441	-0,146	4,003	0,000	0,000	0,000	0,000
6442	-0,219	4,003	0,000	0,000	0,000	0,000
6449	0,000	4,003	0,000	0,000	0,000	0,000
6450	0,000	4,080	0,000	0,000	0,000	0,000
6451	0,000	4,156	0,000	0,000	0,000	0,000
6452	0,000	4,233	0,000	0,000	0,000	0,000
6453	0,219	4,003	0,000	0,000	0,000	0,000
6454	0,146	4,003	0,000	0,000	0,000	0,000
6455	0,073	4,003	0,000	0,000	0,000	0,000
6481	11,638	4,005	0,000	0,000	0,000	0,000
6482	11,261	4,005	0,000	0,000	0,000	0,000
6483	10,884	4,005	0,000	0,000	0,000	0,000
6487	12,015	4,005	0,000	0,000	0,000	0,000
6488	13,276	4,005	0,000	0,000	0,000	0,000
6489	12,855	4,005	0,000	0,000	0,000	0,000
6490	12,435	4,005	0,000	0,000	0,000	0,000
6497	13,696	4,006	0,000	0,000	0,000	0,000
6563	8,854	4,005	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
6564	8,551	4,005	0,000	0,000	0,000	0,000
6565	8,248	4,005	0,000	0,000	0,000	0,000
6569	9,157	4,005	0,000	0,000	0,000	0,000
6570	10,170	4,005	0,000	0,000	0,000	0,000
6571	9,832	4,005	0,000	0,000	0,000	0,000
6572	9,494	4,005	0,000	0,000	0,000	0,000
6579	10,508	4,005	0,000	0,000	0,000	0,000
6606	12,500	8,000	0,000	0,000	0,000	0,000
6610	11,875	8,000	0,000	0,000	0,000	0,000
6611	11,250	8,000	0,000	0,000	0,000	0,000
6612	10,625	8,000	0,000	0,000	0,000	0,000
6653	0,292	4,003	0,000	0,000	0,000	0,000
6654	0,536	4,003	0,000	0,000	0,000	0,000
6655	0,455	4,003	0,000	0,000	0,000	0,000
6656	0,373	4,003	0,000	0,000	0,000	0,000
6663	0,000	4,310	0,000	0,000	0,000	0,000
6664	0,000	4,393	0,000	0,000	0,000	0,000
6665	0,000	4,477	0,000	0,000	0,000	0,000
6666	0,000	4,560	0,000	0,000	0,000	0,000
6673	0,618	4,003	0,000	0,000	0,000	0,000
6674	0,890	4,003	0,000	0,000	0,000	0,000
6675	0,799	4,003	0,000	0,000	0,000	0,000
6676	0,708	4,003	0,000	0,000	0,000	0,000
6689	-0,572	8,000	0,000	0,000	0,000	0,000
6693	-0,143	8,000	0,000	0,000	0,000	0,000
6694	-0,286	8,000	0,000	0,000	0,000	0,000
6695	-0,429	8,000	0,000	0,000	0,000	0,000
6699	6,617	4,004	0,000	0,000	0,000	0,000
6700	6,374	4,004	0,000	0,000	0,000	0,000
6701	6,131	4,004	0,000	0,000	0,000	0,000
6705	6,860	4,004	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
6706	7,674	4,005	0,000	0,000	0,000	0,000
6707	7,403	4,004	0,000	0,000	0,000	0,000
6708	7,132	4,004	0,000	0,000	0,000	0,000
6715	7,946	4,005	0,000	0,000	0,000	0,000
6837	0,000	5,513	0,000	0,000	0,000	0,000
6838	0,000	5,622	0,000	0,000	0,000	0,000
6839	0,000	5,730	0,000	0,000	0,000	0,000
6843	0,000	5,956	0,000	0,000	0,000	0,000
6844	0,000	6,074	0,000	0,000	0,000	0,000
6845	0,000	6,192	0,000	0,000	0,000	0,000
6849	0,000	5,838	0,000	0,000	0,000	0,000
6859	0,000	6,311	0,000	0,000	0,000	0,000
6860	0,000	6,439	0,000	0,000	0,000	0,000
6861	0,000	6,568	0,000	0,000	0,000	0,000
6862	0,000	6,697	0,000	0,000	0,000	0,000
6869	0,000	6,966	0,000	0,000	0,000	0,000
6870	0,000	7,107	0,000	0,000	0,000	0,000
6871	0,000	7,247	0,000	0,000	0,000	0,000
6875	0,000	6,826	0,000	0,000	0,000	0,000
6885	0,000	7,387	0,000	0,000	0,000	0,000
6886	0,000	8,000	0,000	0,000	0,000	0,000
6887	0,000	7,541	0,000	0,000	0,000	0,000
6888	0,000	7,694	0,000	0,000	0,000	0,000
6889	0,000	7,847	0,000	0,000	0,000	0,000
6893	0,750	8,000	0,000	0,000	0,000	0,000
6894	0,500	8,000	0,000	0,000	0,000	0,000
6895	0,250	8,000	0,000	0,000	0,000	0,000
6899	2,217	4,004	0,000	0,000	0,000	0,000
6900	2,091	4,004	0,000	0,000	0,000	0,000
6901	1,964	4,004	0,000	0,000	0,000	0,000
6905	2,343	4,004	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
6906	2,765	4,004	0,000	0,000	0,000	0,000
6907	2,624	4,004	0,000	0,000	0,000	0,000
6908	2,483	4,004	0,000	0,000	0,000	0,000
6915	3,377	4,004	0,000	0,000	0,000	0,000
6916	3,220	4,004	0,000	0,000	0,000	0,000
6917	3,063	4,004	0,000	0,000	0,000	0,000
6921	2,906	4,004	0,000	0,000	0,000	0,000
6931	3,534	4,004	0,000	0,000	0,000	0,000
6932	4,059	4,004	0,000	0,000	0,000	0,000
6933	3,884	4,004	0,000	0,000	0,000	0,000
6934	3,709	4,004	0,000	0,000	0,000	0,000
6941	4,820	4,004	0,000	0,000	0,000	0,000
6942	4,625	4,004	0,000	0,000	0,000	0,000
6943	4,429	4,004	0,000	0,000	0,000	0,000
6947	4,234	4,004	0,000	0,000	0,000	0,000
6957	5,016	4,004	0,000	0,000	0,000	0,000
6958	5,670	4,004	0,000	0,000	0,000	0,000
6959	5,452	4,004	0,000	0,000	0,000	0,000
6960	5,234	4,004	0,000	0,000	0,000	0,000
6967	5,888	4,004	0,000	0,000	0,000	0,000
6977	10,000	8,000	0,000	0,000	0,000	0,000
6981	9,375	8,000	0,000	0,000	0,000	0,000
6982	8,750	8,000	0,000	0,000	0,000	0,000
6983	8,125	8,000	0,000	0,000	0,000	0,000
6987	1,285	4,003	0,000	0,000	0,000	0,000
6988	1,183	4,003	0,000	0,000	0,000	0,000
6989	1,082	4,003	0,000	0,000	0,000	0,000
6993	0,981	4,003	0,000	0,000	0,000	0,000
7003	1,386	4,003	0,000	0,000	0,000	0,000
7004	1,725	4,004	0,000	0,000	0,000	0,000
7005	1,612	4,004	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻¹⁵ m]	Ux [10 ⁻¹⁵ m]	dUy [10 ⁻¹⁵ m]	Uy [10 ⁻¹⁵ m]
7006	1,499	4,004	0,000	0,000	0,000	0,000
7013	1,838	4,004	0,000	0,000	0,000	0,000
7049	0,000	4,735	0,000	0,000	0,000	0,000
7050	0,000	4,826	0,000	0,000	0,000	0,000
7051	0,000	4,917	0,000	0,000	0,000	0,000
7055	0,000	4,644	0,000	0,000	0,000	0,000
7075	0,000	5,008	0,000	0,000	0,000	0,000
7076	0,000	5,107	0,000	0,000	0,000	0,000
7077	0,000	5,206	0,000	0,000	0,000	0,000
7078	0,000	5,306	0,000	0,000	0,000	0,000
7085	0,000	5,405	0,000	0,000	0,000	0,000
7155	7,500	8,000	0,000	0,000	0,000	0,000
7160	1,000	8,000	0,000	0,000	0,000	0,000
7188	6,875	8,000	0,000	0,000	0,000	0,000
7192	6,250	8,000	0,000	0,000	0,000	0,000
7193	5,625	8,000	0,000	0,000	0,000	0,000
7194	5,000	8,000	0,000	0,000	0,000	0,000
7204	2,500	8,000	0,000	0,000	0,000	0,000
7208	2,000	8,000	0,000	0,000	0,000	0,000
7209	1,500	8,000	0,000	0,000	0,000	0,000
7213	3,000	8,000	0,000	0,000	0,000	0,000
7227	4,500	8,000	0,000	0,000	0,000	0,000
7228	4,000	8,000	0,000	0,000	0,000	0,000
7230	3,500	8,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

6. Results for phase 1

Table [10] Table of deformations phase no: 1

Node No.	x-coord.	y-coord.	dUx [10⁻⁶ m]	Ux [10⁻⁶ m]	dUy [10⁻⁶ m]	Uy [10⁻⁶ m]
1	-20,000	-18,333	0,000	0,000	-4,035	-8,071
2	-20,000	-18,889	0,000	0,000	-2,834	-5,668
3	-20,000	-19,444	0,000	0,000	-1,504	-3,009
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	-8,863	-17,725
18	-20,000	-16,667	0,000	0,000	-7,829	-15,659
19	-20,000	-17,222	0,000	0,000	-6,723	-13,446
26	-20,000	-17,778	0,000	0,000	-5,277	-10,554
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
49	-20,000	-15,556	0,000	0,000	-9,897	-19,793
53	-20,000	-13,889	0,000	0,000	-12,665	-25,331
54	-20,000	-14,444	0,000	0,000	-11,801	-23,602
55	-20,000	-15,000	0,000	0,000	-10,878	-21,756
59	-15,294	-20,000	0,000	0,000	0,000	0,000
63	-14,706	-20,000	0,000	0,000	0,000	0,000
64	-14,118	-20,000	0,000	0,000	0,000	0,000
65	-13,529	-20,000	0,000	0,000	0,000	0,000
125	-20,000	-13,333	0,000	0,000	-13,471	-26,941
129	-20,000	-11,667	0,000	0,000	-15,570	-31,141
130	-20,000	-12,222	0,000	0,000	-14,922	-29,845

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
131	-20,000	-12,778	0,000	0,000	-14,222	-28,443
215	-12,941	-20,000	0,000	0,000	0,000	0,000
219	-12,353	-20,000	0,000	0,000	0,000	0,000
220	-11,765	-20,000	0,000	0,000	0,000	0,000
221	-11,176	-20,000	0,000	0,000	0,000	0,000
225	-10,588	-20,000	0,000	0,000	0,000	0,000
229	-10,000	-20,000	0,000	0,000	0,000	0,000
230	-9,412	-20,000	0,000	0,000	0,000	0,000
231	-8,824	-20,000	0,000	0,000	0,000	0,000
263	-20,000	-11,111	0,000	0,000	-16,163	-32,325
264	-20,000	-9,444	0,000	0,000	-17,648	-35,296
265	-20,000	-10,000	0,000	0,000	-17,200	-34,400
266	-20,000	-10,556	0,000	0,000	-16,704	-33,409
407	-8,235	-20,000	0,000	0,000	0,000	0,000
411	-7,647	-20,000	0,000	0,000	0,000	0,000
412	-7,059	-20,000	0,000	0,000	0,000	0,000
413	-6,471	-20,000	0,000	0,000	0,000	0,000
417	-20,000	-8,889	0,000	0,000	-18,045	-36,090
421	-20,000	-7,222	0,000	0,000	-18,966	-37,932
422	-20,000	-7,778	0,000	0,000	-18,703	-37,405
423	-20,000	-8,333	0,000	0,000	-18,395	-36,790
471	-5,882	-20,000	0,000	0,000	0,000	0,000
475	-5,294	-20,000	0,000	0,000	0,000	0,000
476	-4,706	-20,000	0,000	0,000	0,000	0,000
477	-4,118	-20,000	0,000	0,000	0,000	0,000
625	-20,000	-6,667	0,000	0,000	-19,185	-38,370
626	-20,000	-5,000	0,000	0,000	-19,624	-39,248
627	-20,000	-5,556	0,000	0,000	-19,511	-39,022
628	-20,000	-6,111	0,000	0,000	-19,365	-38,730
785	-3,529	-20,000	0,000	0,000	0,000	0,000
789	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
790	-2,353	-20,000	0,000	0,000	0,000	0,000
791	-1,765	-20,000	0,000	0,000	0,000	0,000
795	-1,176	-20,000	0,000	0,000	0,000	0,000
799	-0,588	-20,000	0,000	0,000	0,000	0,000
800	0,000	-20,000	0,000	0,000	0,000	0,000
801	0,588	-20,000	0,000	0,000	0,000	0,000
830	-20,000	-4,444	0,000	0,000	-19,705	-39,410
831	-20,000	-2,778	0,000	0,000	-19,808	-39,615
832	-20,000	-3,333	0,000	0,000	-19,793	-39,586
833	-20,000	-3,889	0,000	0,000	-19,759	-39,518
1057	1,765	-20,000	0,000	0,000	0,000	0,000
1058	2,353	-20,000	0,000	0,000	0,000	0,000
1059	2,941	-20,000	0,000	0,000	0,000	0,000
1063	1,176	-20,000	0,000	0,000	0,000	0,000
1067	3,529	-20,000	0,000	0,000	0,000	0,000
1071	4,118	-20,000	0,000	0,000	0,000	0,000
1072	4,706	-20,000	0,000	0,000	0,000	0,000
1073	5,294	-20,000	0,000	0,000	0,000	0,000
1133	5,882	-20,000	0,000	0,000	0,000	0,000
1134	6,471	-20,000	0,000	0,000	0,000	0,000
1135	7,059	-20,000	0,000	0,000	0,000	0,000
1136	7,647	-20,000	0,000	0,000	0,000	0,000
1143	8,235	-20,000	0,000	0,000	0,000	0,000
1147	8,824	-20,000	0,000	0,000	0,000	0,000
1148	9,412	-20,000	0,000	0,000	0,000	0,000
1149	10,000	-20,000	0,000	0,000	0,000	0,000
1165	-20,000	-2,222	0,000	0,000	-19,807	-39,613
1166	-20,000	-0,556	0,000	0,000	-19,778	-39,557
1167	-20,000	-1,111	0,000	0,000	-19,786	-39,573
1168	-20,000	-1,667	0,000	0,000	-19,797	-39,594
1352	-20,000	0,000	0,000	0,000	-19,777	-39,554

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
1353	-20,000	1,500	0,000	0,000	-19,866	-39,732
1354	-20,000	1,000	0,000	0,000	-19,817	-39,634
1355	-20,000	0,500	0,000	0,000	-19,788	-39,577
1505	11,176	-20,000	0,000	0,000	0,000	0,000
1506	11,765	-20,000	0,000	0,000	0,000	0,000
1507	12,353	-20,000	0,000	0,000	0,000	0,000
1511	10,588	-20,000	0,000	0,000	0,000	0,000
1515	12,941	-20,000	0,000	0,000	0,000	0,000
1519	13,529	-20,000	0,000	0,000	0,000	0,000
1520	14,118	-20,000	0,000	0,000	0,000	0,000
1521	14,706	-20,000	0,000	0,000	0,000	0,000
1531	15,294	-20,000	0,000	0,000	0,000	0,000
1535	15,882	-20,000	0,000	0,000	0,000	0,000
1536	16,471	-20,000	0,000	0,000	0,000	0,000
1537	17,059	-20,000	0,000	0,000	0,000	0,000
1585	17,647	-20,000	0,000	0,000	0,000	0,000
1589	18,235	-20,000	0,000	0,000	0,000	0,000
1590	18,824	-20,000	0,000	0,000	0,000	0,000
1591	19,412	-20,000	0,000	0,000	0,000	0,000
1592	20,000	-20,000	0,000	0,000	0,000	0,000
1593	20,000	-19,400	0,000	0,000	-1,577	-3,154
1594	20,000	-18,800	0,000	0,000	-3,115	-6,230
1595	20,000	-18,200	0,000	0,000	-4,597	-9,193
1871	-20,000	3,500	0,000	0,000	-20,373	-40,746
1872	-20,000	3,000	0,000	0,000	-20,189	-40,377
1873	-20,000	2,500	0,000	0,000	-20,046	-40,092
1877	-20,000	2,000	0,000	0,000	-19,940	-39,881
1881	-20,000	4,000	0,000	0,000	-20,603	-41,206
1882	-18,249	4,000	1,778	3,556	-21,744	-43,488
1883	-18,833	4,000	1,191	2,381	-21,109	-42,218
1884	-19,416	4,000	596,960	1,194	-20,729	-41,459

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
1885	-20,000	5,500	0,000	0,000	-21,622	-43,244
1886	-20,000	5,000	0,000	0,000	-21,223	-42,446
1887	-20,000	4,500	0,000	0,000	-20,885	-41,769
2009	20,000	-17,599	0,000	0,000	-5,902	-11,804
2013	20,000	-16,999	0,000	0,000	-7,268	-14,535
2014	20,000	-16,399	0,000	0,000	-8,477	-16,954
2015	20,000	-15,799	0,000	0,000	-9,595	-19,190
2019	-16,095	4,001	3,836	7,673	-26,344	-52,687
2020	-16,619	4,001	3,357	6,714	-24,892	-49,784
2021	-17,142	4,000	2,863	5,726	-23,657	-47,315
2031	-17,665	4,000	2,356	4,711	-22,636	-45,272
2047	-20,000	8,000	0,000	0,000	-24,660	-49,321
2048	-20,000	7,500	0,000	0,000	-23,903	-47,807
2049	-20,000	7,000	0,000	0,000	-23,223	-46,447
2050	-20,000	6,500	0,000	0,000	-22,618	-45,236
2051	-18,285	8,000	6,368	12,735	-25,736	-51,471
2052	-18,857	8,000	4,246	8,492	-25,137	-50,275
2053	-19,428	8,000	2,123	4,247	-24,780	-49,559
2057	-20,000	6,000	0,000	0,000	-22,086	-44,171
2061	-17,713	8,000	8,487	16,974	-26,576	-53,152
2065	-16,150	8,000	14,267	28,534	-30,140	-60,280
2066	-16,671	8,000	12,344	24,689	-28,742	-57,485
2067	-17,192	8,000	10,417	20,835	-27,556	-55,111
2363	20,000	-15,199	0,000	0,000	-10,647	-21,295
2367	20,000	-14,599	0,000	0,000	-11,634	-23,268
2368	20,000	-13,998	0,000	0,000	-12,562	-25,125
2369	20,000	-13,398	0,000	0,000	-13,430	-26,860
2427	-15,572	4,001	4,298	8,596	-28,018	-56,036
2431	-14,165	4,001	5,432	10,864	-33,667	-67,335
2432	-14,634	4,001	5,073	10,146	-31,593	-63,187
2433	-15,103	4,001	4,695	9,389	-29,712	-59,424

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
2525	-15,628	8,000	16,184	32,367	-31,753	-63,505
2529	-14,203	8,000	21,380	42,760	-37,304	-74,608
2530	-14,678	8,000	19,657	39,315	-35,263	-70,526
2531	-15,153	8,000	17,924	35,849	-33,414	-66,829
2803	20,000	-12,798	0,000	0,000	-14,234	-28,467
2807	20,000	-12,198	0,000	0,000	-14,978	-29,955
2808	20,000	-11,598	0,000	0,000	-15,666	-31,332
2809	20,000	-10,998	0,000	0,000	-16,295	-32,591
2829	-13,696	4,001	5,769	11,538	-35,939	-71,879
2830	-12,435	4,001	6,553	13,106	-43,079	-86,159
2831	-12,855	4,001	6,313	12,625	-40,527	-81,055
2832	-13,276	4,001	6,051	12,102	-38,149	-76,298
2839	-13,727	8,000	23,090	46,180	-39,542	-79,083
2843	-12,428	8,000	27,677	55,354	-46,716	-93,432
2844	-12,861	8,000	26,166	52,331	-44,148	-88,296
2845	-13,294	8,000	24,636	49,271	-41,758	-83,517
3247	-12,015	4,001	6,770	13,540	-45,810	-91,621
3251	-10,884	4,001	7,231	14,463	-54,087	-108,175
3252	-11,261	4,001	7,098	14,197	-51,173	-102,345
3253	-11,638	4,001	6,944	13,889	-48,415	-96,830
3305	-11,994	8,000	29,166	58,331	-49,468	-98,935
3306	-10,809	8,000	33,087	66,173	-57,975	-115,950
3307	-11,204	8,000	31,808	63,617	-54,975	-109,949
3308	-11,599	8,000	30,500	61,000	-52,140	-104,281
3441	20,000	-10,397	0,000	0,000	-16,863	-33,725
3442	20,000	-9,797	0,000	0,000	-17,373	-34,746
3443	20,000	-9,197	0,000	0,000	-17,832	-35,664
3444	20,000	-8,597	0,000	0,000	-18,237	-36,473
3483	0,000	-1,929	-2,504	-5,007	-213,952	-427,905
3484	0,000	-1,857	-1,454	-2,908	-213,965	-427,930
3485	0,000	-1,786	-695,404	-1,391	-213,980	-427,960

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
3489	0,000	-1,714	-228,365	-456,729	-213,997	-427,994
3490	0,000	-1,643	316,455	632,909	-214,015	-428,031
3491	0,000	-1,571	786,839	1,574	-214,035	-428,070
3492	0,000	-1,500	1,184	2,368	-214,056	-428,112
3515	0,000	-2,000	-4,121	-8,242	-213,942	-427,884
3525	0,000	-1,357	1,801	3,601	-214,100	-428,201
3526	0,000	-1,285	2,035	4,071	-214,124	-428,248
3527	0,000	-1,214	2,231	4,462	-214,148	-428,296
3531	0,000	-1,428	1,520	3,040	-214,078	-428,155
3547	0,000	-1,142	2,392	4,784	-214,173	-428,345
3548	0,000	-1,071	2,523	5,046	-214,198	-428,396
3549	0,000	-0,999	2,626	5,251	-214,224	-428,448
3550	0,000	-0,928	2,704	5,407	-214,250	-428,500
3633	20,000	-7,997	0,000	0,000	-18,586	-37,171
3637	20,000	-7,397	0,000	0,000	-18,883	-37,766
3638	20,000	-6,796	0,000	0,000	-19,135	-38,269
3639	20,000	-6,196	0,000	0,000	-19,339	-38,678
3789	-10,508	4,002	7,342	14,685	-57,164	-114,328
3790	-9,494	4,002	7,528	15,055	-66,278	-132,555
3791	-9,832	4,002	7,485	14,970	-63,099	-126,199
3792	-10,170	4,002	7,423	14,846	-60,063	-120,126
3809	-10,414	8,000	34,330	68,660	-61,146	-122,292
3813	-9,334	8,000	37,506	75,011	-70,731	-141,462
3814	-9,694	8,000	36,489	72,978	-67,384	-134,768
3815	-10,054	8,000	35,429	70,857	-64,190	-128,380
3835	-9,157	4,002	7,551	15,103	-69,601	-139,202
3839	-8,248	4,002	7,517	15,035	-79,286	-158,573
3840	-8,551	4,002	7,545	15,089	-75,934	-151,867
3841	-8,854	4,002	7,556	15,112	-72,706	-145,412
3993	0,000	-0,785	2,797	5,595	-214,304	-428,608
3994	0,000	-0,714	2,818	5,636	-214,331	-428,663

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
3995	0,000	-0,642	2,824	5,649	-214,359	-428,718
3999	0,000	-0,857	2,760	5,520	-214,277	-428,554
4009	0,000	-0,571	2,818	5,635	-214,387	-428,774
4013	0,000	-0,499	2,800	5,600	-214,415	-428,830
4014	0,000	-0,428	2,773	5,546	-214,444	-428,887
4015	0,000	-0,356	2,738	5,475	-214,472	-428,945
4189	20,000	-5,596	0,000	0,000	-19,498	-38,995
4193	20,000	-4,996	0,000	0,000	-19,617	-39,234
4194	20,000	-4,396	0,000	0,000	-19,705	-39,409
4195	20,000	-3,796	0,000	0,000	-19,762	-39,524
4215	0,000	-0,213	2,648	5,296	-214,530	-429,060
4216	0,000	-0,142	2,596	5,192	-214,559	-429,118
4217	0,000	-0,070	2,540	5,081	-214,588	-429,177
4221	0,000	-0,285	2,696	5,391	-214,501	-429,002
4303	-8,974	8,000	38,473	76,946	-74,235	-148,470
4307	-7,989	8,000	40,811	81,622	-84,649	-169,299
4308	-8,317	8,000	40,088	80,175	-81,040	-162,080
4309	-8,645	8,000	39,306	78,613	-77,569	-155,139
4415	-7,132	4,002	7,279	14,557	-92,782	-185,565
4416	-7,403	4,002	7,357	14,713	-89,336	-178,672
4417	-7,674	4,002	7,422	14,844	-85,998	-171,996
4421	-7,946	4,002	7,474	14,948	-82,767	-165,534
4447	-6,860	4,002	7,188	14,376	-96,339	-192,678
4451	-6,131	4,002	6,883	13,766	-106,462	-212,923
4452	-6,374	4,002	6,995	13,989	-102,996	-205,992
4453	-6,617	4,002	7,096	14,193	-99,622	-199,244
4505	20,000	-3,195	0,000	0,000	-19,791	-39,583
4509	20,000	-2,595	0,000	0,000	-19,800	-39,601
4510	20,000	-1,995	0,000	0,000	-19,798	-39,596
4511	20,000	-1,395	0,000	0,000	-19,788	-39,576
4589	0,000	0,001	2,482	4,963	-214,618	-429,236

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
4590	0,000	0,073	2,421	4,841	-214,647	-429,294
4591	0,000	0,144	2,358	4,716	-214,677	-429,353
4592	0,000	0,215	2,294	4,589	-214,706	-429,412
4631	-7,660	8,000	41,469	82,939	-88,400	-176,800
4635	-6,762	8,000	42,877	85,754	-99,394	-198,787
4636	-7,062	8,000	42,478	84,956	-95,608	-191,216
4637	-7,361	8,000	42,007	84,014	-91,944	-183,887
4685	0,000	0,287	2,230	4,460	-214,736	-429,472
4686	0,000	0,358	2,166	4,331	-214,765	-429,531
4687	0,000	0,430	2,101	4,203	-214,795	-429,590
4688	0,000	0,501	2,038	4,075	-214,825	-429,649
4847	-5,234	4,002	6,389	12,777	-120,047	-240,095
4848	-5,452	4,002	6,521	13,041	-116,630	-233,260
4849	-5,670	4,002	6,645	13,290	-113,288	-226,575
4850	-5,888	4,002	6,762	13,524	-110,020	-220,039
4857	-5,016	4,002	6,249	12,499	-123,539	-247,077
4858	-4,429	4,003	5,838	11,676	-133,289	-266,578
4859	-4,625	4,003	5,981	11,962	-129,981	-259,962
4860	-4,820	4,002	6,118	12,236	-126,730	-253,461
4993	-3,709	4,003	5,260	10,519	-145,967	-291,933
4994	-3,884	4,003	5,408	10,815	-142,820	-285,641
4995	-4,059	4,003	5,551	11,102	-139,715	-279,431
4999	-4,234	4,003	5,689	11,379	-136,653	-273,306
5015	-3,534	4,003	5,106	10,213	-149,152	-298,305
5016	-3,063	4,003	4,669	9,338	-157,897	-315,795
5017	-3,220	4,003	4,819	9,638	-154,955	-309,911
5018	-3,377	4,003	4,965	9,930	-152,040	-304,079
5115	20,000	-0,795	0,000	0,000	-19,775	-39,551
5119	20,000	-0,195	0,000	0,000	-19,769	-39,539
5120	20,000	0,406	0,000	0,000	-19,779	-39,559
5121	20,000	1,006	0,000	0,000	-19,812	-39,624

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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
5141	0,000	0,573	1,975	3,949	-214,854	-429,708
5142	0,000	0,644	1,913	3,825	-214,884	-429,768
5143	0,000	0,716	1,852	3,704	-214,913	-429,827
5144	0,000	0,787	1,792	3,585	-214,943	-429,886
5151	0,000	0,859	1,734	3,469	-214,972	-429,944
5152	0,000	0,930	1,678	3,356	-215,002	-430,003
5153	0,000	1,002	1,623	3,246	-215,031	-430,062
5154	0,000	1,073	1,570	3,139	-215,060	-430,120
5187	0,000	1,216	1,468	2,936	-215,118	-430,237
5188	0,000	1,288	1,420	2,840	-215,147	-430,294
5189	0,000	1,359	1,374	2,747	-215,176	-430,352
5193	0,000	1,145	1,518	3,036	-215,089	-430,178
5203	0,000	1,430	1,329	2,658	-215,205	-430,409
5204	0,000	1,502	1,286	2,573	-215,233	-430,466
5205	0,000	1,573	1,245	2,490	-215,262	-430,523
5206	0,000	1,645	1,206	2,411	-215,290	-430,580
5213	-6,463	8,000	43,195	86,391	-103,302	-206,603
5217	-5,644	8,000	43,593	87,186	-114,617	-229,235
5218	-5,917	8,000	43,545	87,089	-110,743	-221,487
5219	-6,190	8,000	43,410	86,819	-106,971	-213,943
5277	-5,371	8,000	43,548	87,096	-118,593	-237,185
5281	-4,625	8,000	42,880	85,760	-129,974	-259,948
5282	-4,873	8,000	43,198	86,397	-126,099	-252,197
5283	-5,122	8,000	43,419	86,837	-122,304	-244,609
5287	0,000	1,788	1,132	2,264	-215,346	-430,692
5288	0,000	1,859	1,097	2,195	-215,374	-430,747
5289	0,000	1,931	1,065	2,129	-215,401	-430,802
5293	0,000	1,716	1,168	2,336	-215,318	-430,636
5309	0,000	2,002	1,033	2,067	-215,429	-430,857
5313	0,000	2,074	1,004	2,007	-215,456	-430,912
5314	0,000	2,145	975,384	1,951	-215,483	-430,966

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
5315	0,000	2,217	948,617	1,897	-215,510	-431,020
5351	-2,483	4,003	4,073	8,145	-168,940	-337,880
5352	-2,624	4,003	4,224	8,448	-166,233	-332,467
5353	-2,765	4,003	4,371	8,742	-163,541	-327,081
5357	-2,906	4,003	4,514	9,028	-160,863	-321,727
5373	-2,343	4,003	3,916	7,833	-171,658	-343,315
5374	-1,964	4,003	3,469	6,939	-179,004	-358,007
5375	-2,091	4,003	3,623	7,246	-176,551	-353,101
5376	-2,217	4,003	3,772	7,544	-174,101	-348,203
5437	20,000	1,606	0,000	0,000	-19,873	-39,747
5441	20,000	2,206	0,000	0,000	-19,974	-39,947
5442	20,000	2,806	0,000	0,000	-20,123	-40,247
5443	20,000	3,406	0,000	0,000	-20,330	-40,660
5599	0,000	2,360	899,725	1,799	-215,563	-431,126
5600	0,000	2,431	877,567	1,755	-215,589	-431,178
5601	0,000	2,502	856,869	1,714	-215,615	-431,230
5605	0,000	2,288	923,416	1,847	-215,536	-431,073
5621	0,000	2,574	837,559	1,675	-215,641	-431,282
5622	0,000	2,645	819,666	1,639	-215,667	-431,333
5623	0,000	2,717	803,159	1,606	-215,692	-431,384
5624	0,000	2,788	788,106	1,576	-215,717	-431,434
5679	-4,376	8,000	42,457	84,914	-133,929	-267,857
5683	-3,695	8,000	40,697	81,393	-145,134	-290,267
5684	-3,922	8,000	41,388	82,777	-141,337	-282,675
5685	-4,149	8,000	41,973	83,946	-137,602	-275,204
5727	20,000	4,007	0,000	0,000	-20,601	-41,202
5728	19,416	4,006	-599,211	-1,198	-20,727	-41,455
5729	18,833	4,006	-1,195	-2,390	-21,107	-42,214
5730	18,249	4,006	-1,784	-3,569	-21,742	-43,483
5731	20,000	4,506	0,000	0,000	-20,883	-41,766
5732	20,000	5,005	0,000	0,000	-21,221	-42,443

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
5733	20,000	5,504	0,000	0,000	-21,620	-43,241
5753	-3,468	8,000	39,890	79,781	-148,988	-297,976
5757	-2,848	8,000	37,033	74,066	-159,806	-319,612
5758	-3,055	8,000	38,099	76,197	-156,157	-312,315
5759	-3,261	8,000	39,049	78,097	-152,551	-305,101
5769	20,000	6,003	0,000	0,000	-22,084	-44,167
5773	20,000	6,502	0,000	0,000	-22,616	-45,232
5774	20,000	7,002	0,000	0,000	-23,220	-46,441
5775	20,000	7,501	0,000	0,000	-23,900	-47,799
5776	20,000	8,000	0,000	0,000	-24,656	-49,311
5777	19,375	8,000	-2,321	-4,643	-24,798	-49,596
5778	18,750	8,000	-4,642	-9,284	-25,226	-50,452
5779	18,125	8,000	-6,961	-13,923	-25,941	-51,883
5815	-1,499	4,003	2,854	5,709	-188,050	-376,100
5816	-1,612	4,003	3,012	6,023	-185,856	-371,711
5817	-1,725	4,003	3,164	6,327	-183,658	-367,316
5821	-1,838	4,003	3,311	6,621	-181,458	-362,916
5837	-1,386	4,003	2,691	5,383	-190,240	-380,480
5841	-1,082	4,003	2,221	4,441	-196,091	-392,181
5842	-1,183	4,003	2,383	4,766	-194,148	-388,295
5843	-1,285	4,003	2,540	5,080	-192,197	-384,394
6021	0,000	2,931	762,544	1,525	-215,766	-431,533
6022	0,000	3,003	752,038	1,504	-215,791	-431,582
6023	0,000	3,074	743,019	1,486	-215,815	-431,630
6027	0,000	2,860	774,574	1,549	-215,742	-431,484
6043	0,000	3,146	735,446	1,471	-215,839	-431,677
6047	0,000	3,217	729,393	1,459	-215,862	-431,725
6048	0,000	3,289	724,860	1,450	-215,886	-431,771
6049	0,000	3,360	721,915	1,444	-215,909	-431,817
6085	15,103	4,006	-4,709	-9,419	-29,710	-59,420
6086	14,634	4,006	-5,089	-10,178	-31,592	-63,183

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
6087	14,165	4,006	-5,448	-10,897	-33,666	-67,332
6091	15,572	4,006	-4,312	-8,623	-28,016	-56,032
6092	17,142	4,006	-2,873	-5,745	-23,655	-47,310
6093	16,619	4,006	-3,368	-6,737	-24,890	-49,779
6094	16,095	4,006	-3,849	-7,698	-26,342	-52,683
6101	17,665	4,006	-2,364	-4,728	-22,634	-45,268
6111	17,500	8,000	-9,278	-18,556	-26,947	-53,895
6115	16,875	8,000	-11,591	-23,182	-28,248	-56,496
6116	16,250	8,000	-13,898	-27,796	-29,850	-59,699
6117	15,625	8,000	-16,197	-32,395	-31,759	-63,519
6149	-2,641	8,000	35,844	71,689	-163,494	-326,989
6153	-2,075	8,000	31,889	63,779	-173,766	-347,532
6154	-2,264	8,000	33,330	66,661	-170,314	-340,628
6155	-2,452	8,000	34,646	69,292	-166,890	-333,779
6159	-1,887	8,000	30,314	60,627	-177,243	-354,487
6163	-1,371	8,000	25,220	50,440	-186,884	-373,768
6164	-1,543	8,000	27,057	54,115	-183,650	-367,300
6165	-1,715	8,000	28,751	57,502	-180,436	-360,872
6191	-0,708	4,003	1,564	3,128	-203,176	-406,352
6192	-0,799	4,003	1,733	3,465	-201,468	-402,936
6193	-0,890	4,003	1,895	3,790	-199,751	-399,502
6197	-0,618	4,003	1,389	2,778	-204,874	-409,747
6198	-0,373	4,003	884,154	1,768	-209,384	-418,768
6199	-0,455	4,003	1,058	2,117	-207,890	-415,780
6200	-0,536	4,003	1,227	2,453	-206,386	-412,773
6207	-0,981	4,003	2,052	4,104	-198,025	-396,050
6297	0,000	3,503	720,923	1,442	-215,954	-431,908
6298	0,000	3,574	722,901	1,446	-215,976	-431,952
6299	0,000	3,646	726,499	1,453	-215,998	-431,996
6303	0,000	3,432	720,615	1,441	-215,931	-431,863
6313	0,000	3,717	731,691	1,463	-216,020	-432,039

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
6317	0,000	3,789	738,541	1,477	-216,041	-432,082
6318	0,000	3,860	746,946	1,494	-216,062	-432,124
6319	0,000	3,932	756,876	1,514	-216,083	-432,165
6391	15,000	8,000	-18,485	-36,971	-33,985	-67,971
6395	14,375	8,000	-20,758	-41,517	-36,538	-73,075
6396	13,750	8,000	-23,011	-46,023	-39,427	-78,855
6397	13,125	8,000	-25,237	-50,475	-42,668	-85,335
6401	-1,199	8,000	23,224	46,448	-190,137	-380,273
6405	-0,728	8,000	16,791	33,582	-199,225	-398,450
6406	-0,885	8,000	19,125	38,250	-196,159	-392,317
6407	-1,042	8,000	21,257	42,514	-193,132	-386,264
6439	-0,292	4,003	703,663	1,407	-210,868	-421,737
6440	-0,073	4,003	185,049	370,098	-214,808	-429,615
6441	-0,146	4,003	363,522	727,043	-213,503	-427,006
6442	-0,219	4,003	536,330	1,073	-212,190	-424,380
6449	0,000	4,003	768,298	1,537	-216,103	-432,206
6450	0,000	4,080	782,138	1,564	-216,125	-432,249
6451	0,000	4,156	797,556	1,595	-216,146	-432,291
6452	0,000	4,233	814,444	1,629	-216,166	-432,333
6453	0,219	4,003	-534,849	-1,070	-212,191	-424,381
6454	0,146	4,003	-362,021	-724,042	-213,504	-427,007
6455	0,073	4,003	-183,530	-367,060	-214,808	-429,615
6481	11,638	4,005	-6,963	-13,926	-48,415	-96,830
6482	11,261	4,005	-7,117	-14,235	-51,173	-102,345
6483	10,884	4,005	-7,250	-14,501	-54,087	-108,175
6487	12,015	4,005	-6,789	-13,577	-45,810	-91,620
6488	13,276	4,005	-6,069	-12,137	-38,148	-76,296
6489	12,855	4,005	-6,331	-12,662	-40,526	-81,053
6490	12,435	4,005	-6,571	-13,142	-43,079	-86,157
6497	13,696	4,006	-5,786	-11,572	-35,938	-71,876
6563	8,854	4,005	-7,573	-15,146	-72,708	-145,415

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
6564	8,551	4,005	-7,561	-15,123	-75,936	-151,871
6565	8,248	4,005	-7,534	-15,067	-79,289	-158,577
6569	9,157	4,005	-7,569	-15,138	-69,602	-139,205
6570	10,170	4,005	-7,441	-14,883	-60,064	-120,127
6571	9,832	4,005	-7,503	-15,006	-63,101	-126,201
6572	9,494	4,005	-7,546	-15,091	-66,279	-132,558
6579	10,508	4,005	-7,361	-14,722	-57,164	-114,328
6606	12,500	8,000	-27,428	-54,856	-46,272	-92,544
6610	11,875	8,000	-29,574	-59,147	-50,256	-100,512
6611	11,250	8,000	-31,661	-63,322	-54,637	-109,274
6612	10,625	8,000	-33,674	-67,348	-59,432	-118,864
6653	0,292	4,003	-702,199	-1,404	-210,869	-421,738
6654	0,536	4,003	-1,225	-2,450	-206,388	-412,776
6655	0,455	4,003	-1,057	-2,114	-207,891	-415,782
6656	0,373	4,003	-882,711	-1,765	-209,385	-418,770
6663	0,000	4,310	832,659	1,665	-216,187	-432,374
6664	0,000	4,393	853,835	1,708	-216,209	-432,417
6665	0,000	4,477	876,102	1,752	-216,230	-432,460
6666	0,000	4,560	899,111	1,798	-216,251	-432,502
6673	0,618	4,003	-1,388	-2,776	-204,875	-409,751
6674	0,890	4,003	-1,894	-3,788	-199,753	-399,506
6675	0,799	4,003	-1,731	-3,463	-201,470	-402,940
6676	0,708	4,003	-1,563	-3,125	-203,178	-406,355
6689	-0,572	8,000	14,205	28,410	-202,331	-404,662
6693	-0,143	8,000	5,007	10,015	-211,872	-423,744
6694	-0,286	8,000	8,821	17,642	-208,405	-416,811
6695	-0,429	8,000	11,730	23,460	-205,280	-410,559
6699	6,617	4,004	-7,109	-14,218	-99,625	-199,251
6700	6,374	4,004	-7,007	-14,014	-102,999	-205,999
6701	6,131	4,004	-6,895	-13,789	-106,465	-212,930
6705	6,860	4,004	-7,202	-14,403	-96,342	-192,684

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
6706	7,674	4,005	-7,437	-14,874	-86,001	-172,001
6707	7,403	4,004	-7,371	-14,742	-89,339	-178,677
6708	7,132	4,004	-7,293	-14,585	-92,785	-185,570
6715	7,946	4,005	-7,490	-14,980	-82,770	-165,539
6837	0,000	5,513	993,403	1,987	-216,455	-432,911
6838	0,000	5,622	938,883	1,878	-216,474	-432,949
6839	0,000	5,730	855,954	1,712	-216,493	-432,985
6843	0,000	5,956	559,391	1,119	-216,528	-433,055
6844	0,000	6,074	322,857	645,715	-216,544	-433,089
6845	0,000	6,192	14,854	29,709	-216,560	-433,120
6849	0,000	5,838	738,314	1,477	-216,510	-433,020
6859	0,000	6,311	-380,782	-761,564	-216,574	-433,149
6860	0,000	6,439	-933,468	-1,867	-216,589	-433,178
6861	0,000	6,568	-1,637	-3,275	-216,602	-433,204
6862	0,000	6,697	-2,518	-5,035	-216,614	-433,227
6869	0,000	6,966	-5,081	-10,161	-216,634	-433,268
6870	0,000	7,107	-6,621	-13,242	-216,642	-433,284
6871	0,000	7,247	-8,478	-16,957	-216,648	-433,297
6875	0,000	6,826	-3,605	-7,211	-216,624	-433,248
6885	0,000	7,387	-10,943	-21,885	-216,653	-433,307
6886	0,000	8,000	-29,869	-59,738	-216,657	-433,314
6887	0,000	7,541	-14,555	-29,110	-216,657	-433,313
6888	0,000	7,694	-18,884	-37,768	-216,659	-433,317
6889	0,000	7,847	-23,981	-47,961	-216,659	-433,318
6893	0,750	8,000	-17,139	-34,278	-198,800	-397,600
6894	0,500	8,000	-13,129	-26,259	-203,832	-407,665
6895	0,250	8,000	-7,750	-15,499	-209,305	-418,609
6899	2,217	4,004	-3,772	-7,544	-174,105	-348,211
6900	2,091	4,004	-3,623	-7,246	-176,555	-353,109
6901	1,964	4,004	-3,469	-6,938	-179,007	-358,015
6905	2,343	4,004	-3,917	-7,833	-171,662	-343,323

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
6906	2,765	4,004	-4,372	-8,745	-163,545	-327,089
6907	2,624	4,004	-4,225	-8,450	-166,237	-332,475
6908	2,483	4,004	-4,073	-8,146	-168,944	-337,888
6915	3,377	4,004	-4,968	-9,936	-152,044	-304,088
6916	3,220	4,004	-4,822	-9,643	-154,959	-309,919
6917	3,063	4,004	-4,671	-9,342	-157,901	-315,803
6921	2,906	4,004	-4,516	-9,031	-160,867	-321,735
6931	3,534	4,004	-5,110	-10,219	-149,157	-298,313
6932	4,059	4,004	-5,556	-11,111	-139,720	-279,439
6933	3,884	4,004	-5,412	-10,824	-142,825	-285,649
6934	3,709	4,004	-5,263	-10,527	-145,971	-291,942
6941	4,820	4,004	-6,126	-12,251	-126,734	-253,469
6942	4,625	4,004	-5,988	-11,976	-129,985	-259,970
6943	4,429	4,004	-5,844	-11,688	-133,293	-266,586
6947	4,234	4,004	-5,695	-11,389	-136,657	-273,315
6957	5,016	4,004	-6,257	-12,515	-123,542	-247,085
6958	5,670	4,004	-6,655	-13,310	-113,291	-226,583
6959	5,452	4,004	-6,530	-13,060	-116,634	-233,268
6960	5,234	4,004	-6,397	-12,795	-120,051	-240,102
6967	5,888	4,004	-6,773	-13,545	-110,023	-220,046
6977	10,000	8,000	-35,593	-71,186	-64,660	-129,320
6981	9,375	8,000	-37,394	-74,788	-70,340	-140,680
6982	8,750	8,000	-39,049	-78,097	-76,492	-152,983
6983	8,125	8,000	-40,521	-81,041	-83,134	-166,268
6987	1,285	4,003	-2,539	-5,078	-192,200	-384,399
6988	1,183	4,003	-2,382	-4,764	-194,150	-388,300
6989	1,082	4,003	-2,220	-4,439	-196,093	-392,186
6993	0,981	4,003	-2,051	-4,102	-198,028	-396,055
7003	1,386	4,003	-2,690	-5,381	-190,243	-380,486
7004	1,725	4,004	-3,163	-6,326	-183,661	-367,323
7005	1,612	4,004	-3,011	-6,022	-185,859	-371,718

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻⁶ m]
7006	1,499	4,004	-2,853	-5,707	-188,053	-376,107
7013	1,838	4,004	-3,310	-6,620	-181,462	-362,923
7049	0,000	4,735	947,608	1,895	-216,293	-432,586
7050	0,000	4,826	971,791	1,944	-216,314	-432,629
7051	0,000	4,917	994,058	1,988	-216,335	-432,670
7055	0,000	4,644	922,440	1,845	-216,271	-432,543
7075	0,000	5,008	1,013	2,027	-216,355	-432,710
7076	0,000	5,107	1,029	2,059	-216,376	-432,752
7077	0,000	5,206	1,038	2,077	-216,397	-432,793
7078	0,000	5,306	1,038	2,075	-216,416	-432,833
7085	0,000	5,405	1,025	2,050	-216,435	-432,871
7155	7,500	8,000	-41,767	-83,534	-90,283	-180,567
7160	1,000	8,000	-20,700	-41,400	-193,982	-387,963
7188	6,875	8,000	-42,738	-85,475	-97,953	-195,907
7192	6,250	8,000	-43,371	-86,743	-106,155	-212,311
7193	5,625	8,000	-43,596	-87,191	-114,893	-229,785
7194	5,000	8,000	-43,324	-86,649	-124,160	-248,320
7204	2,500	8,000	-34,958	-69,915	-166,031	-332,063
7208	2,000	8,000	-31,291	-62,583	-175,144	-350,288
7209	1,500	8,000	-26,633	-53,267	-184,457	-368,914
7213	3,000	8,000	-37,835	-75,670	-157,118	-314,237
7227	4,500	8,000	-42,684	-85,368	-131,945	-263,890
7228	4,000	8,000	-41,604	-83,208	-140,047	-280,094
7230	3,500	8,000	-40,015	-80,029	-148,447	-296,895

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

7. Results for phase 2

Table [11] Table of deformations phase no: 2

Node No.	x-coord.	y-coord.	dUx [10⁻⁶ m]	Ux [10⁻⁶ m]	dUy [10⁻⁶ m]	Uy [10⁻³ m]
1	-20,000	-18,333	0,000	0,000	-6,255	-12,505
2	-20,000	-18,889	0,000	0,000	-4,314	-8,626
3	-20,000	-19,444	0,000	0,000	-2,232	-4,463
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	-12,739	-25,469
18	-20,000	-16,667	0,000	0,000	-11,298	-22,588
19	-20,000	-17,222	0,000	0,000	-9,741	-19,474
26	-20,000	-17,778	0,000	0,000	-8,061	-16,117
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
49	-20,000	-15,556	0,000	0,000	-14,069	-28,127
53	-20,000	-13,889	0,000	0,000	-17,425	-34,836
54	-20,000	-14,444	0,000	0,000	-16,408	-32,804
55	-20,000	-15,000	0,000	0,000	-15,291	-30,570
59	-15,294	-20,000	0,000	0,000	0,000	0,000
63	-14,706	-20,000	0,000	0,000	0,000	0,000
64	-14,118	-20,000	0,000	0,000	0,000	0,000
65	-13,529	-20,000	0,000	0,000	0,000	0,000
125	-20,000	-13,333	0,000	0,000	-18,343	-36,671
129	-20,000	-11,667	0,000	0,000	-20,531	-41,047
130	-20,000	-12,222	0,000	0,000	-19,894	-39,772

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
131	-20,000	-12,778	0,000	0,000	-19,165	-38,315
215	-12,941	-20,000	0,000	0,000	0,000	0,000
219	-12,353	-20,000	0,000	0,000	0,000	0,000
220	-11,765	-20,000	0,000	0,000	0,000	0,000
221	-11,176	-20,000	0,000	0,000	0,000	0,000
225	-10,588	-20,000	0,000	0,000	0,000	0,000
229	-10,000	-20,000	0,000	0,000	0,000	0,000
230	-9,412	-20,000	0,000	0,000	0,000	0,000
231	-8,824	-20,000	0,000	0,000	0,000	0,000
263	-20,000	-11,111	0,000	0,000	-21,080	-42,144
264	-20,000	-9,444	0,000	0,000	-22,217	-44,419
265	-20,000	-10,000	0,000	0,000	-21,920	-43,825
266	-20,000	-10,556	0,000	0,000	-21,542	-43,069
407	-8,235	-20,000	0,000	0,000	0,000	0,000
411	-7,647	-20,000	0,000	0,000	0,000	0,000
412	-7,059	-20,000	0,000	0,000	0,000	0,000
413	-6,471	-20,000	0,000	0,000	0,000	0,000
417	-20,000	-8,889	0,000	0,000	-22,435	-44,855
421	-20,000	-7,222	0,000	0,000	-22,650	-45,289
422	-20,000	-7,778	0,000	0,000	-22,648	-45,283
423	-20,000	-8,333	0,000	0,000	-22,577	-45,141
471	-5,882	-20,000	0,000	0,000	0,000	0,000
475	-5,294	-20,000	0,000	0,000	0,000	0,000
476	-4,706	-20,000	0,000	0,000	0,000	0,000
477	-4,118	-20,000	0,000	0,000	0,000	0,000
625	-20,000	-6,667	0,000	0,000	-22,589	-45,168
626	-20,000	-5,000	0,000	0,000	-22,070	-44,134
627	-20,000	-5,556	0,000	0,000	-22,293	-44,579
628	-20,000	-6,111	0,000	0,000	-22,468	-44,928
785	-3,529	-20,000	0,000	0,000	0,000	0,000
789	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
790	-2,353	-20,000	0,000	0,000	0,000	0,000
791	-1,765	-20,000	0,000	0,000	0,000	0,000
795	-1,176	-20,000	0,000	0,000	0,000	0,000
799	-0,588	-20,000	0,000	0,000	0,000	0,000
800	0,000	-20,000	0,000	0,000	0,000	0,000
801	0,588	-20,000	0,000	0,000	0,000	0,000
830	-20,000	-4,444	0,000	0,000	-21,804	-43,605
831	-20,000	-2,778	0,000	0,000	-20,819	-41,642
832	-20,000	-3,333	0,000	0,000	-21,171	-42,344
833	-20,000	-3,889	0,000	0,000	-21,502	-43,003
1057	1,765	-20,000	0,000	0,000	0,000	0,000
1058	2,353	-20,000	0,000	0,000	0,000	0,000
1059	2,941	-20,000	0,000	0,000	0,000	0,000
1063	1,176	-20,000	0,000	0,000	0,000	0,000
1067	3,529	-20,000	0,000	0,000	0,000	0,000
1071	4,118	-20,000	0,000	0,000	0,000	0,000
1072	4,706	-20,000	0,000	0,000	0,000	0,000
1073	5,294	-20,000	0,000	0,000	0,000	0,000
1133	5,882	-20,000	0,000	0,000	0,000	0,000
1134	6,471	-20,000	0,000	0,000	0,000	0,000
1135	7,059	-20,000	0,000	0,000	0,000	0,000
1136	7,647	-20,000	0,000	0,000	0,000	0,000
1143	8,235	-20,000	0,000	0,000	0,000	0,000
1147	8,824	-20,000	0,000	0,000	0,000	0,000
1148	9,412	-20,000	0,000	0,000	0,000	0,000
1149	10,000	-20,000	0,000	0,000	0,000	0,000
1165	-20,000	-2,222	0,000	0,000	-20,454	-40,912
1166	-20,000	-0,556	0,000	0,000	-19,361	-38,731
1167	-20,000	-1,111	0,000	0,000	-19,716	-39,439
1168	-20,000	-1,667	0,000	0,000	-20,083	-40,172
1352	-20,000	0,000	0,000	0,000	-19,028	-38,065

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1353	-20,000	1,500	0,000	0,000	-18,315	-36,634
1354	-20,000	1,000	0,000	0,000	-18,516	-37,037
1355	-20,000	0,500	0,000	0,000	-18,756	-37,519
1505	11,176	-20,000	0,000	0,000	0,000	0,000
1506	11,765	-20,000	0,000	0,000	0,000	0,000
1507	12,353	-20,000	0,000	0,000	0,000	0,000
1511	10,588	-20,000	0,000	0,000	0,000	0,000
1515	12,941	-20,000	0,000	0,000	0,000	0,000
1519	13,529	-20,000	0,000	0,000	0,000	0,000
1520	14,118	-20,000	0,000	0,000	0,000	0,000
1521	14,706	-20,000	0,000	0,000	0,000	0,000
1531	15,294	-20,000	0,000	0,000	0,000	0,000
1535	15,882	-20,000	0,000	0,000	0,000	0,000
1536	16,471	-20,000	0,000	0,000	0,000	0,000
1537	17,059	-20,000	0,000	0,000	0,000	0,000
1585	17,647	-20,000	0,000	0,000	0,000	0,000
1589	18,235	-20,000	0,000	0,000	0,000	0,000
1590	18,824	-20,000	0,000	0,000	0,000	0,000
1591	19,412	-20,000	0,000	0,000	0,000	0,000
1592	20,000	-20,000	0,000	0,000	0,000	0,000
1593	20,000	-19,400	0,000	0,000	-4,461	-8,926
1594	20,000	-18,800	0,000	0,000	-8,827	-17,665
1595	20,000	-18,200	0,000	0,000	-13,107	-26,231
1871	-20,000	3,500	0,000	0,000	-18,054	-36,088
1872	-20,000	3,000	0,000	0,000	-18,024	-36,037
1873	-20,000	2,500	0,000	0,000	-18,062	-36,120
1877	-20,000	2,000	0,000	0,000	-18,162	-36,324
1881	-20,000	4,000	0,000	0,000	-18,158	-36,285
1882	-18,249	4,000	808,744	1,599	-19,675	-39,350
1883	-18,833	4,000	546,639	1,080	-18,831	-37,645
1884	-19,416	4,000	275,423	544,036	-18,326	-36,625

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1885	-20,000	5,500	0,000	0,000	-18,967	-37,871
1886	-20,000	5,000	0,000	0,000	-18,611	-37,168
1887	-20,000	4,500	0,000	0,000	-18,342	-36,642
2009	20,000	-17,599	0,000	0,000	-17,305	-34,632
2013	20,000	-16,999	0,000	0,000	-21,423	-42,875
2014	20,000	-16,399	0,000	0,000	-25,462	-50,961
2015	20,000	-15,799	0,000	0,000	-29,423	-58,890
2019	-16,095	4,001	1,614	3,214	-25,830	-51,736
2020	-16,619	4,001	1,448	2,878	-23,881	-47,821
2021	-17,142	4,000	1,261	2,502	-22,228	-44,496
2031	-17,665	4,000	1,056	2,091	-20,863	-41,747
2047	-20,000	8,000	0,000	0,000	-22,199	-44,324
2048	-20,000	7,500	0,000	0,000	-21,440	-42,713
2049	-20,000	7,000	0,000	0,000	-20,657	-41,184
2050	-20,000	6,500	0,000	0,000	-20,006	-39,891
2051	-18,285	8,000	7,380	14,624	-23,494	-47,084
2052	-18,857	8,000	4,757	9,586	-22,560	-45,335
2053	-19,428	8,000	2,023	4,438	-22,183	-44,470
2057	-20,000	6,000	0,000	0,000	-19,413	-38,758
2061	-17,713	8,000	9,186	18,844	-24,868	-49,601
2065	-16,150	8,000	16,789	33,047	-29,254	-58,837
2066	-16,671	8,000	13,889	27,949	-27,113	-54,795
2067	-17,192	8,000	10,849	22,709	-25,721	-51,788
2363	20,000	-15,199	0,000	0,000	-33,303	-66,658
2367	20,000	-14,599	0,000	0,000	-37,100	-74,259
2368	20,000	-13,998	0,000	0,000	-40,808	-81,684
2369	20,000	-13,398	0,000	0,000	-44,424	-88,924
2427	-15,572	4,001	1,756	3,503	-28,083	-56,252
2431	-14,165	4,001	1,994	3,997	-35,705	-71,500
2432	-14,634	4,001	1,941	3,884	-32,905	-65,903
2433	-15,103	4,001	1,860	3,718	-30,367	-60,824

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2525	-15,628	8,000	18,163	36,617	-31,838	-63,614
2529	-14,203	8,000	25,237	49,663	-38,910	-78,219
2530	-14,678	8,000	22,465	44,908	-35,898	-72,440
2531	-15,153	8,000	19,688	40,140	-33,590	-67,623
2803	20,000	-12,798	0,000	0,000	-47,940	-95,966
2807	20,000	-12,198	0,000	0,000	-51,351	-102,797
2808	20,000	-11,598	0,000	0,000	-54,649	-109,403
2809	20,000	-10,998	0,000	0,000	-57,827	-115,769
2829	-13,696	4,001	2,018	4,049	-38,773	-77,629
2830	-12,435	4,001	1,906	3,837	-48,412	-96,871
2831	-12,855	4,001	1,975	3,971	-44,968	-89,996
2832	-13,276	4,001	2,011	4,040	-41,757	-83,587
2839	-13,727	8,000	26,604	53,002	-42,292	-84,630
2843	-12,428	8,000	32,349	63,971	-51,789	-103,820
2844	-12,861	8,000	30,320	60,257	-48,150	-96,730
2845	-13,294	8,000	27,933	56,115	-45,045	-90,389
3247	-12,015	4,001	1,801	3,630	-52,096	-104,226
3251	-10,884	4,001	1,315	2,670	-63,262	-126,521
3252	-11,261	4,001	1,512	3,060	-59,329	-118,669
3253	-11,638	4,001	1,674	3,379	-55,610	-111,241
3305	-11,994	8,000	33,082	66,251	-55,670	-111,372
3306	-10,809	8,000	38,874	77,661	-66,785	-133,744
3307	-11,204	8,000	37,047	73,901	-62,682	-125,495
3308	-11,599	8,000	35,065	69,894	-58,860	-117,928
3441	20,000	-10,397	0,000	0,000	-60,876	-121,877
3442	20,000	-9,797	0,000	0,000	-63,789	-127,713
3443	20,000	-9,197	0,000	0,000	-66,556	-133,259
3444	20,000	-8,597	0,000	0,000	-69,169	-138,498
3483	0,000	-1,929	-35,805	-71,517	-297,946	-595,978
3484	0,000	-1,857	-35,946	-71,797	-297,961	-596,008
3485	0,000	-1,786	-36,088	-72,079	-297,979	-596,043

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3489	0,000	-1,714	-36,229	-72,361	-297,999	-596,084
3490	0,000	-1,643	-36,371	-72,643	-298,022	-596,130
3491	0,000	-1,571	-36,513	-72,926	-298,048	-596,181
3492	0,000	-1,500	-36,655	-73,209	-298,075	-596,235
3515	0,000	-2,000	-35,665	-71,237	-297,935	-595,956
3525	0,000	-1,357	-36,940	-73,777	-298,134	-596,354
3526	0,000	-1,285	-37,083	-74,062	-298,166	-596,418
3527	0,000	-1,214	-37,227	-74,348	-298,200	-596,485
3531	0,000	-1,428	-36,797	-73,493	-298,104	-596,293
3547	0,000	-1,142	-37,371	-74,634	-298,235	-596,555
3548	0,000	-1,071	-37,515	-74,922	-298,271	-596,628
3549	0,000	-0,999	-37,659	-75,210	-298,308	-596,703
3550	0,000	-0,928	-37,804	-75,499	-298,347	-596,781
3633	20,000	-7,997	0,000	0,000	-71,622	-143,414
3637	20,000	-7,397	0,000	0,000	-73,905	-147,993
3638	20,000	-6,796	0,000	0,000	-76,011	-152,219
3639	20,000	-6,196	0,000	0,000	-77,935	-156,081
3789	-10,508	4,002	1,079	2,205	-67,414	-134,812
3790	-9,494	4,002	233,849	537,275	-79,724	-159,389
3791	-9,832	4,002	551,703	1,164	-75,430	-150,817
3792	-10,170	4,002	832,733	1,719	-71,329	-142,628
3809	-10,414	8,000	40,368	80,581	-71,126	-142,494
3813	-9,334	8,000	44,942	89,393	-84,058	-168,290
3814	-9,694	8,000	43,374	86,391	-79,455	-159,128
3815	-10,054	8,000	41,732	83,232	-75,165	-150,570
3835	-9,157	4,002	-123,180	-167,513	-84,216	-168,355
3839	-8,248	4,002	-1,299	-2,492	-97,315	-194,503
3840	-8,551	4,002	-869,750	-1,643	-92,779	-185,448
3841	-8,854	4,002	-478,632	-869,692	-88,414	-176,735
3993	0,000	-0,785	-38,096	-76,079	-298,428	-596,942
3994	0,000	-0,714	-38,242	-76,370	-298,470	-597,026

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3995	0,000	-0,642	-38,389	-76,663	-298,513	-597,112
3999	0,000	-0,857	-37,950	-75,788	-298,387	-596,860
4009	0,000	-0,571	-38,536	-76,956	-298,556	-597,200
4013	0,000	-0,499	-38,684	-77,250	-298,601	-597,289
4014	0,000	-0,428	-38,832	-77,546	-298,647	-597,381
4015	0,000	-0,356	-38,981	-77,842	-298,693	-597,474
4189	20,000	-5,596	0,000	0,000	-79,671	-159,567
4193	20,000	-4,996	0,000	0,000	-81,215	-162,670
4194	20,000	-4,396	0,000	0,000	-82,565	-165,386
4195	20,000	-3,796	0,000	0,000	-83,721	-167,713
4215	0,000	-0,213	-39,279	-78,436	-298,788	-597,664
4216	0,000	-0,142	-39,429	-78,735	-298,837	-597,762
4217	0,000	-0,070	-39,579	-79,034	-298,887	-597,861
4221	0,000	-0,285	-39,130	-78,138	-298,740	-597,568
4303	-8,974	8,000	45,918	91,503	-88,981	-177,989
4307	-7,989	8,000	49,585	98,599	-102,816	-205,716
4308	-8,317	8,000	48,256	96,141	-97,890	-195,930
4309	-8,645	8,000	46,922	93,600	-93,254	-186,656
4415	-7,132	4,002	-3,256	-6,376	-115,608	-231,016
4416	-7,403	4,002	-2,721	-5,314	-110,930	-221,678
4417	-7,674	4,002	-2,226	-4,331	-106,405	-212,645
4421	-7,946	4,002	-1,769	-3,423	-102,028	-203,908
4447	-6,860	4,002	-3,834	-7,525	-120,441	-240,665
4451	-6,131	4,002	-5,624	-11,090	-134,243	-268,230
4452	-6,374	4,002	-4,986	-9,819	-129,509	-258,774
4453	-6,617	4,002	-4,390	-8,633	-124,909	-249,587
4505	20,000	-3,195	0,000	0,000	-84,685	-169,655
4509	20,000	-2,595	0,000	0,000	-85,461	-171,223
4510	20,000	-1,995	0,000	0,000	-86,057	-172,430
4511	20,000	-1,395	0,000	0,000	-86,483	-173,299
4589	0,000	0,001	-39,729	-79,334	-298,937	-597,961


		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4590	0,000	0,073	-39,880	-79,634	-298,988	-598,063
4591	0,000	0,144	-40,031	-79,935	-299,039	-598,166
4592	0,000	0,215	-40,183	-80,237	-299,091	-598,270
4631	-7,660	8,000	50,519	100,518	-107,966	-215,906
4635	-6,762	8,000	53,036	105,549	-122,754	-245,366
4636	-7,062	8,000	52,230	103,936	-117,596	-235,159
4637	-7,361	8,000	51,251	102,116	-112,675	-225,348
4685	0,000	0,287	-40,334	-80,539	-299,144	-598,375
4686	0,000	0,358	-40,486	-80,841	-299,197	-598,482
4687	0,000	0,430	-40,638	-81,143	-299,250	-598,589
4688	0,000	0,501	-40,789	-81,446	-299,305	-598,698
4847	-5,234	4,002	-8,389	-16,607	-152,933	-305,577
4848	-5,452	4,002	-7,652	-15,136	-148,209	-296,135
4849	-5,670	4,002	-6,959	-13,752	-143,604	-286,933
4850	-5,888	4,002	-6,306	-12,451	-139,116	-277,965
4857	-5,016	4,002	-9,172	-18,171	-157,780	-315,265
4858	-4,429	4,003	-11,529	-22,881	-171,439	-342,579
4859	-4,625	4,003	-10,700	-21,225	-166,782	-333,265
4860	-4,820	4,002	-9,915	-19,656	-162,230	-324,162
4993	-3,709	4,003	-14,998	-29,820	-189,555	-378,822
4994	-3,884	4,003	-14,092	-28,007	-185,016	-369,737
4995	-4,059	4,003	-13,227	-26,278	-180,565	-360,834
4999	-4,234	4,003	-12,403	-24,629	-176,203	-352,108
5015	-3,534	4,003	-15,947	-31,719	-194,186	-388,088
5016	-3,063	4,003	-18,722	-37,274	-207,090	-413,919
5017	-3,220	4,003	-17,760	-35,348	-202,715	-405,160
5018	-3,377	4,003	-16,835	-33,496	-198,414	-396,550
5115	20,000	-0,795	0,000	0,000	-86,755	-173,859
5119	20,000	-0,195	0,000	0,000	-86,891	-174,146
5120	20,000	0,406	0,000	0,000	-86,914	-174,205
5121	20,000	1,006	0,000	0,000	-86,848	-174,088

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5141	0,000	0,573	-40,941	-81,748	-299,359	-598,807
5142	0,000	0,644	-41,093	-82,050	-299,414	-598,918
5143	0,000	0,716	-41,244	-82,352	-299,470	-599,029
5144	0,000	0,787	-41,395	-82,654	-299,526	-599,141
5151	0,000	0,859	-41,546	-82,954	-299,582	-599,254
5152	0,000	0,930	-41,697	-83,254	-299,639	-599,367
5153	0,000	1,002	-41,847	-83,553	-299,696	-599,482
5154	0,000	1,073	-41,996	-83,850	-299,753	-599,597
5187	0,000	1,216	-42,292	-84,441	-299,869	-599,829
5188	0,000	1,288	-42,438	-84,733	-299,927	-599,945
5189	0,000	1,359	-42,584	-85,022	-299,986	-600,063
5193	0,000	1,145	-42,144	-84,146	-299,811	-599,712
5203	0,000	1,430	-42,728	-85,310	-300,045	-600,180
5204	0,000	1,502	-42,870	-85,594	-300,104	-600,298
5205	0,000	1,573	-43,011	-85,874	-300,163	-600,417
5206	0,000	1,645	-43,149	-86,151	-300,222	-600,536
5213	-6,463	8,000	53,604	106,885	-128,043	-255,868
5217	-5,644	8,000	55,190	110,346	-143,177	-286,118
5218	-5,917	8,000	54,679	109,248	-137,994	-275,755
5219	-6,190	8,000	54,146	108,090	-132,950	-265,672
5277	-5,371	8,000	55,669	111,373	-148,506	-296,771
5281	-4,625	8,000	56,800	113,804	-163,838	-327,425
5282	-4,873	8,000	56,452	113,053	-158,602	-316,956
5283	-5,122	8,000	56,076	112,244	-153,492	-306,740
5287	0,000	1,788	-43,420	-86,692	-300,341	-600,774
5288	0,000	1,859	-43,552	-86,955	-300,401	-600,894
5289	0,000	1,931	-43,681	-87,212	-300,460	-601,013
5293	0,000	1,716	-43,286	-86,424	-300,281	-600,655
5309	0,000	2,002	-43,807	-87,462	-300,520	-601,133
5313	0,000	2,074	-43,929	-87,706	-300,580	-601,253
5314	0,000	2,145	-44,047	-87,943	-300,640	-601,373

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5315	0,000	2,217	-44,161	-88,171	-300,700	-601,493
5351	-2,483	4,003	-22,599	-45,040	-223,860	-447,500
5352	-2,624	4,003	-21,609	-43,057	-219,695	-439,159
5353	-2,765	4,003	-20,650	-41,135	-215,588	-430,934
5357	-2,906	4,003	-19,721	-39,276	-211,539	-422,825
5373	-2,343	4,003	-23,620	-47,085	-228,080	-455,953
5374	-1,964	4,003	-26,513	-52,881	-239,687	-479,208
5375	-2,091	4,003	-25,525	-50,902	-235,778	-471,374
5376	-2,217	4,003	-24,560	-48,970	-231,908	-463,621
5437	20,000	1,606	0,000	0,000	-86,724	-173,855
5441	20,000	2,206	0,000	0,000	-86,575	-173,570
5442	20,000	2,806	0,000	0,000	-86,438	-173,308
5443	20,000	3,406	0,000	0,000	-86,348	-173,143
5599	0,000	2,360	-44,376	-88,599	-300,819	-601,733
5600	0,000	2,431	-44,475	-88,798	-300,879	-601,853
5601	0,000	2,502	-44,569	-88,985	-300,939	-601,972
5605	0,000	2,288	-44,271	-88,390	-300,760	-601,613
5621	0,000	2,574	-44,656	-89,160	-300,999	-602,092
5622	0,000	2,645	-44,736	-89,321	-301,058	-602,211
5623	0,000	2,717	-44,809	-89,467	-301,117	-602,330
5624	0,000	2,788	-44,875	-89,598	-301,176	-602,449
5679	-4,376	8,000	57,121	114,499	-169,204	-338,152
5683	-3,695	8,000	57,883	116,178	-184,574	-368,881
5684	-3,922	8,000	57,644	115,646	-179,334	-358,405
5685	-4,149	8,000	57,391	115,090	-174,212	-348,165
5727	20,000	4,007	0,000	0,000	-86,346	-173,153
5728	19,416	4,006	277,577	575,450	-86,700	-173,855
5729	18,833	4,006	569,822	1,182	-87,764	-175,964
5730	18,249	4,006	888,054	1,846	-89,541	-179,488
5731	20,000	4,506	0,000	0,000	-86,438	-173,352
5732	20,000	5,005	0,000	0,000	-86,638	-173,767

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5733	20,000	5,504	0,000	0,000	-86,961	-174,438
5753	-3,468	8,000	58,114	116,695	-189,938	-379,605
5757	-2,848	8,000	58,766	118,166	-205,303	-410,323
5758	-3,055	8,000	58,538	117,651	-200,061	-399,843
5759	-3,261	8,000	58,324	117,166	-194,942	-389,609
5769	20,000	6,003	0,000	0,000	-87,424	-175,398
5773	20,000	6,502	0,000	0,000	-88,249	-176,887
5774	20,000	7,002	0,000	0,000	-89,135	-178,621
5775	20,000	7,501	0,000	0,000	-90,367	-180,895
5776	20,000	8,000	0,000	0,000	-91,253	-183,026
5777	19,375	8,000	-3,318	-7,261	-91,189	-183,346
5778	18,750	8,000	-8,422	-16,303	-92,055	-185,366
5779	18,125	8,000	-13,545	-25,356	-94,320	-189,562
5815	-1,499	4,003	-30,345	-60,557	-254,407	-508,707
5816	-1,612	4,003	-29,388	-58,641	-250,793	-501,463
5817	-1,725	4,003	-28,447	-56,757	-247,201	-494,264
5821	-1,838	4,003	-27,523	-54,906	-243,634	-487,116
5837	-1,386	4,003	-31,316	-62,502	-258,041	-515,990
5841	-1,082	4,003	-33,992	-67,860	-267,878	-535,708
5842	-1,183	4,003	-33,090	-66,055	-264,591	-529,120
5843	-1,285	4,003	-32,198	-64,269	-261,311	-522,545
6021	0,000	2,931	-44,978	-89,806	-301,294	-602,685
6022	0,000	3,003	-45,015	-89,881	-301,353	-602,802
6023	0,000	3,074	-45,042	-89,935	-301,411	-602,919
6027	0,000	2,860	-44,931	-89,711	-301,235	-602,567
6043	0,000	3,146	-45,056	-89,966	-301,469	-603,035
6047	0,000	3,217	-45,059	-89,971	-301,527	-603,151
6048	0,000	3,289	-45,048	-89,950	-301,584	-603,266
6049	0,000	3,360	-45,022	-89,901	-301,641	-603,381
6085	15,103	4,006	3,845	7,968	-111,820	-223,952
6086	14,634	4,006	4,600	9,499	-117,133	-234,583

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6087	14,165	4,006	5,472	11,256	-123,033	-246,386
6091	15,572	4,006	3,195	6,641	-107,063	-214,436
6092	17,142	4,006	1,620	3,382	-94,886	-190,117
6093	16,619	4,006	2,060	4,298	-98,330	-196,984
6094	16,095	4,006	2,579	5,374	-102,382	-205,076
6101	17,665	4,006	1,242	2,594	-92,041	-184,449
6111	17,500	8,000	-17,000	-32,727	-97,950	-195,912
6115	16,875	8,000	-19,484	-39,110	-101,014	-202,506
6116	16,250	8,000	-23,976	-47,471	-105,198	-211,059
6117	15,625	8,000	-28,224	-55,522	-110,722	-221,815
6149	-2,641	8,000	59,016	118,729	-210,679	-421,072
6153	-2,075	8,000	59,905	120,712	-226,179	-452,067
6154	-2,264	8,000	59,564	119,957	-220,869	-441,447
6155	-2,452	8,000	59,272	119,303	-215,707	-431,125
6159	-1,887	8,000	60,305	121,596	-231,657	-463,022
6163	-1,371	8,000	61,825	124,918	-247,695	-495,114
6164	-1,543	8,000	61,236	123,636	-242,152	-484,021
6165	-1,715	8,000	60,734	122,538	-236,815	-473,342
6191	-0,708	4,003	-37,382	-74,645	-279,992	-559,992
6192	-0,799	4,003	-36,551	-72,981	-277,057	-554,108
6193	-0,890	4,003	-35,724	-71,327	-274,114	-548,209
6197	-0,618	4,003	-38,217	-76,316	-282,916	-565,852
6198	-0,373	4,003	-40,477	-80,835	-290,688	-581,430
6199	-0,455	4,003	-39,722	-79,325	-288,115	-576,274
6200	-0,536	4,003	-38,969	-77,819	-285,523	-571,079
6207	-0,981	4,003	-34,902	-69,682	-271,167	-542,301
6297	0,000	3,503	-44,924	-89,708	-301,754	-603,607
6298	0,000	3,574	-44,849	-89,560	-301,810	-603,719
6299	0,000	3,646	-44,755	-89,374	-301,866	-603,831
6303	0,000	3,432	-44,981	-89,821	-301,698	-603,494
6313	0,000	3,717	-44,641	-89,148	-301,921	-603,941

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6317	0,000	3,789	-44,505	-88,879	-301,975	-604,050
6318	0,000	3,860	-44,347	-88,565	-302,029	-604,159
6319	0,000	3,932	-44,164	-88,201	-302,083	-604,266
6391	15,000	8,000	-30,251	-61,224	-116,815	-234,006
6395	14,375	8,000	-34,955	-69,721	-123,216	-247,289
6396	13,750	8,000	-39,639	-78,649	-131,307	-263,392
6397	13,125	8,000	-44,014	-87,187	-140,654	-282,078
6401	-1,199	8,000	62,511	126,409	-253,472	-506,683
6405	-0,728	8,000	64,994	131,806	-270,805	-541,424
6406	-0,885	8,000	64,060	129,773	-264,740	-529,259
6407	-1,042	8,000	63,234	127,980	-258,975	-517,705
6439	-0,292	4,003	-41,234	-82,348	-293,238	-586,542
6440	-0,073	4,003	-43,273	-86,424	-299,953	-600,000
6441	-0,146	4,003	-42,593	-85,064	-297,741	-595,566
6442	-0,219	4,003	-41,913	-83,705	-295,501	-591,078
6449	0,000	4,003	-43,954	-87,786	-302,136	-604,373
6450	0,000	4,080	-43,699	-87,279	-302,192	-604,485
6451	0,000	4,156	-43,410	-86,704	-302,247	-604,596
6452	0,000	4,233	-43,085	-86,057	-302,302	-604,706
6453	0,219	4,003	-45,403	-90,673	-316,183	-632,412
6454	0,146	4,003	-44,997	-89,865	-311,537	-623,138
6455	0,073	4,003	-44,514	-88,903	-306,853	-613,789
6481	11,638	4,005	12,568	25,437	-166,457	-333,103
6482	11,261	4,005	14,013	28,318	-174,868	-349,877
6483	10,884	4,005	15,560	31,405	-183,858	-367,801
6487	12,015	4,005	11,228	22,763	-158,596	-317,422
6488	13,276	4,005	7,480	15,284	-135,951	-272,212
6489	12,855	4,005	8,606	17,534	-142,904	-286,102
6490	12,435	4,005	9,854	20,024	-150,442	-301,150
6497	13,696	4,006	6,470	13,261	-129,551	-259,421
6563	8,854	4,005	25,176	50,629	-243,486	-486,744

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6564	8,551	4,005	26,638	53,554	-254,144	-508,025
6565	8,248	4,005	28,031	56,340	-265,280	-530,264
6569	9,157	4,005	23,682	47,638	-233,305	-466,423
6570	10,170	4,005	18,750	37,776	-202,597	-405,166
6571	9,832	4,005	20,357	40,988	-212,274	-424,463
6572	9,494	4,005	22,008	44,291	-222,503	-444,869
6579	10,508	4,005	17,204	34,686	-193,455	-386,936
6606	12,500	8,000	-47,659	-94,286	-151,249	-303,260
6610	11,875	8,000	-51,357	-101,466	-162,858	-326,453
6611	11,250	8,000	-55,540	-109,431	-175,975	-352,656
6612	10,625	8,000	-59,776	-117,241	-190,968	-382,493
6653	0,292	4,003	-45,732	-91,330	-320,787	-641,602
6654	0,536	4,003	-46,290	-92,439	-335,839	-671,650
6655	0,455	4,003	-46,197	-92,253	-330,889	-661,767
6656	0,373	4,003	-46,011	-91,885	-325,869	-651,747
6663	0,000	4,310	-42,721	-85,332	-302,356	-604,814
6664	0,000	4,393	-42,276	-84,448	-302,414	-604,931
6665	0,000	4,477	-41,780	-83,459	-302,470	-605,045
6666	0,000	4,560	-41,227	-82,358	-302,526	-605,157
6673	0,618	4,003	-46,293	-92,442	-340,717	-681,386
6674	0,890	4,003	-45,658	-91,166	-356,435	-712,765
6675	0,799	4,003	-45,978	-91,808	-351,306	-702,526
6676	0,708	4,003	-46,191	-92,235	-346,064	-692,061
6689	-0,572	8,000	66,039	134,092	-277,213	-554,291
6693	-0,143	8,000	69,425	141,638	-296,767	-593,622
6694	-0,286	8,000	68,186	138,827	-289,916	-579,828
6695	-0,429	8,000	67,068	136,345	-283,387	-566,696
6699	6,617	4,004	32,044	64,344	-332,333	-664,262
6700	6,374	4,004	31,706	63,662	-342,923	-685,435
6701	6,131	4,004	31,002	62,248	-353,472	-706,525
6705	6,860	4,004	32,057	64,377	-321,788	-643,183

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6706	7,674	4,005	30,319	60,913	-287,665	-574,983
6707	7,403	4,004	31,148	62,567	-298,773	-597,182
6708	7,132	4,004	31,746	63,759	-310,167	-619,954
6715	7,946	4,005	29,311	58,899	-276,884	-553,444
6837	0,000	5,513	-29,654	-59,237	-303,081	-606,273
6838	0,000	5,622	-27,558	-55,039	-303,133	-606,378
6839	0,000	5,730	-25,265	-50,445	-303,182	-606,477
6843	0,000	5,956	-19,798	-39,476	-303,277	-606,668
6844	0,000	6,074	-16,562	-32,978	-303,321	-606,758
6845	0,000	6,192	-13,052	-25,920	-303,362	-606,841
6849	0,000	5,838	-22,767	-45,435	-303,229	-606,571
6859	0,000	6,311	-9,259	-18,288	-303,400	-606,918
6860	0,000	6,439	-4,797	-9,298	-303,438	-606,994
6861	0,000	6,568	8,663	394,748	-303,471	-607,062
6862	0,000	6,697	5,153	10,786	-303,501	-607,122
6869	0,000	6,966	16,955	34,680	-303,549	-607,223
6870	0,000	7,107	23,626	48,223	-303,569	-607,263
6871	0,000	7,247	30,600	62,411	-303,584	-607,295
6875	0,000	6,826	10,628	21,860	-303,526	-607,175
6885	0,000	7,387	37,826	77,144	-303,596	-607,320
6886	0,000	8,000	70,725	144,677	-303,618	-607,371
6887	0,000	7,541	45,921	93,693	-303,605	-607,340
6888	0,000	7,694	54,154	110,574	-303,611	-607,354
6889	0,000	7,847	62,442	127,615	-303,616	-607,365
6893	0,750	8,000	109,987	217,092	-413,180	-825,365
6894	0,500	8,000	103,263	202,985	-370,011	-739,266
6895	0,250	8,000	92,666	181,664	-334,537	-669,120
6899	2,217	4,004	-30,305	-60,451	-414,247	-828,178
6900	2,091	4,004	-32,480	-64,801	-410,390	-820,477
6901	1,964	4,004	-34,534	-68,910	-406,148	-812,011
6905	2,343	4,004	-28,022	-55,885	-417,711	-835,091

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6906	2,765	4,004	-19,762	-39,365	-426,334	-852,299
6907	2,624	4,004	-22,604	-45,048	-423,976	-847,595
6908	2,483	4,004	-25,363	-50,567	-421,099	-841,854
6915	3,377	4,004	-6,931	-13,697	-430,500	-860,593
6916	3,220	4,004	-10,250	-20,337	-430,371	-860,343
6917	3,063	4,004	-13,568	-26,974	-429,596	-858,802
6921	2,906	4,004	-16,858	-33,556	-428,169	-855,958
6931	3,534	4,004	-3,637	-7,105	-429,993	-859,571
6932	4,059	4,004	6,896	13,970	-423,884	-847,339
6933	3,884	4,004	3,500	7,175	-426,647	-852,868
6934	3,709	4,004	-20,553	129,774	-428,693	-856,967
6941	4,820	4,004	19,563	39,326	-404,590	-808,744
6942	4,625	4,004	16,691	33,575	-410,551	-820,666
6943	4,429	4,004	13,541	27,269	-415,860	-831,285
6947	4,234	4,004	10,137	20,457	-420,444	-840,457
6957	5,016	4,004	22,140	44,487	-398,053	-795,669
6958	5,670	4,004	28,523	57,275	-372,982	-745,535
6959	5,452	4,004	26,781	53,783	-381,782	-763,131
6960	5,234	4,004	24,654	49,522	-390,174	-779,913
6967	5,888	4,004	29,892	60,020	-363,877	-727,328
6977	10,000	8,000	-63,257	-123,924	-208,281	-416,510
6981	9,375	8,000	-65,491	-129,258	-227,244	-454,229
6982	8,750	8,000	-68,050	-134,817	-248,596	-496,899
6983	8,125	8,000	-70,688	-140,328	-273,097	-545,911
6987	1,285	4,003	-43,063	-85,969	-377,243	-754,306
6988	1,183	4,003	-43,909	-87,664	-372,151	-744,140
6989	1,082	4,003	-44,634	-89,114	-366,881	-733,620
6993	0,981	4,003	-45,232	-90,311	-361,444	-722,764
7003	1,386	4,003	-42,097	-84,038	-382,149	-764,099
7004	1,725	4,004	-38,058	-75,957	-397,094	-793,937
7005	1,612	4,004	-39,536	-78,915	-392,376	-784,517

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
7006	1,499	4,004	-40,885	-81,612	-387,390	-774,563
7013	1,838	4,004	-36,456	-72,754	-401,535	-802,801
7049	0,000	4,735	-39,874	-79,662	-302,640	-605,386
7050	0,000	4,826	-39,053	-78,024	-302,697	-605,501
7051	0,000	4,917	-38,146	-76,213	-302,753	-605,613
7055	0,000	4,644	-40,615	-81,138	-302,581	-605,268
7075	0,000	5,008	-37,146	-74,217	-302,808	-605,722
7076	0,000	5,107	-35,944	-71,818	-302,865	-605,838
7077	0,000	5,206	-34,619	-69,169	-302,921	-605,951
7078	0,000	5,306	-33,162	-66,255	-302,975	-606,059
7085	0,000	5,405	-31,564	-63,061	-303,027	-606,164
7155	7,500	8,000	-73,219	-145,563	-301,988	-603,688
7160	1,000	8,000	109,286	216,856	-476,632	-952,017
7188	6,875	8,000	-74,918	-149,117	-336,234	-672,166
7192	6,250	8,000	-77,585	-154,585	-378,121	-755,933
7193	5,625	8,000	-80,154	-159,841	-433,960	-867,598
7194	5,000	8,000	-77,264	-154,171	-535,810	-1,071
7204	2,500	8,000	44,150	88,161	-659,978	-1,319
7208	2,000	8,000	69,503	138,708	-628,395	-1,256
7209	1,500	8,000	91,895	183,099	-573,981	-1,147
7213	3,000	8,000	19,641	39,270	-674,925	-1,349
7227	4,500	8,000	-56,505	-112,739	-619,647	-1,239
7228	4,000	8,000	-31,122	-62,060	-657,591	-1,315
7230	3,500	8,000	-5,085	-10,076	-674,441	-1,348

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

8. Results for phase 3

Table [12] Table of deformations phase no: 3

Node No.	x-coord.	y-coord.	dUx [10⁻⁶ m]	Ux [10⁻³ m]	dUy [10⁻⁶ m]	Uy [10⁻³ m]
1	-20,000	-18,333	0,000	0,000	11,034	1,690
2	-20,000	-18,889	0,000	0,000	7,287	1,116
3	-20,000	-19,444	0,000	0,000	3,608	552,367
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	26,618	4,081
18	-20,000	-16,667	0,000	0,000	22,639	3,470
19	-20,000	-17,222	0,000	0,000	18,713	2,868
26	-20,000	-17,778	0,000	0,000	14,844	2,274
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
49	-20,000	-15,556	0,000	0,000	30,647	4,700
53	-20,000	-13,889	0,000	0,000	42,992	6,601
54	-20,000	-14,444	0,000	0,000	38,837	5,960
55	-20,000	-15,000	0,000	0,000	34,720	5,327
59	-15,294	-20,000	0,000	0,000	0,000	0,000
63	-14,706	-20,000	0,000	0,000	0,000	0,000
64	-14,118	-20,000	0,000	0,000	0,000	0,000
65	-13,529	-20,000	0,000	0,000	0,000	0,000
125	-20,000	-13,333	0,000	0,000	47,184	7,247
129	-20,000	-11,667	0,000	0,000	59,938	9,219
130	-20,000	-12,222	0,000	0,000	55,660	8,556

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
131	-20,000	-12,778	0,000	0,000	51,407	7,899
215	-12,941	-20,000	0,000	0,000	0,000	0,000
219	-12,353	-20,000	0,000	0,000	0,000	0,000
220	-11,765	-20,000	0,000	0,000	0,000	0,000
221	-11,176	-20,000	0,000	0,000	0,000	0,000
225	-10,588	-20,000	0,000	0,000	0,000	0,000
229	-10,000	-20,000	0,000	0,000	0,000	0,000
230	-9,412	-20,000	0,000	0,000	0,000	0,000
231	-8,824	-20,000	0,000	0,000	0,000	0,000
263	-20,000	-11,111	0,000	0,000	64,238	9,885
264	-20,000	-9,444	0,000	0,000	77,240	11,907
265	-20,000	-10,000	0,000	0,000	72,893	11,230
266	-20,000	-10,556	0,000	0,000	68,558	10,556
407	-8,235	-20,000	0,000	0,000	0,000	0,000
411	-7,647	-20,000	0,000	0,000	0,000	0,000
412	-7,059	-20,000	0,000	0,000	0,000	0,000
413	-6,471	-20,000	0,000	0,000	0,000	0,000
417	-20,000	-8,889	0,000	0,000	81,596	12,586
421	-20,000	-7,222	0,000	0,000	94,682	14,636
422	-20,000	-7,778	0,000	0,000	90,320	13,951
423	-20,000	-8,333	0,000	0,000	85,957	13,268
471	-5,882	-20,000	0,000	0,000	0,000	0,000
475	-5,294	-20,000	0,000	0,000	0,000	0,000
476	-4,706	-20,000	0,000	0,000	0,000	0,000
477	-4,118	-20,000	0,000	0,000	0,000	0,000
625	-20,000	-6,667	0,000	0,000	99,039	15,321
626	-20,000	-5,000	0,000	0,000	112,047	17,374
627	-20,000	-5,556	0,000	0,000	107,725	16,690
628	-20,000	-6,111	0,000	0,000	103,387	16,006
785	-3,529	-20,000	0,000	0,000	0,000	0,000
789	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
790	-2,353	-20,000	0,000	0,000	0,000	0,000
791	-1,765	-20,000	0,000	0,000	0,000	0,000
795	-1,176	-20,000	0,000	0,000	0,000	0,000
799	-0,588	-20,000	0,000	0,000	0,000	0,000
800	0,000	-20,000	0,000	0,000	0,000	0,000
801	0,588	-20,000	0,000	0,000	0,000	0,000
830	-20,000	-4,444	0,000	0,000	116,352	18,056
831	-20,000	-2,778	0,000	0,000	129,138	20,089
832	-20,000	-3,333	0,000	0,000	124,900	19,414
833	-20,000	-3,889	0,000	0,000	120,637	18,737
1057	1,765	-20,000	0,000	0,000	0,000	0,000
1058	2,353	-20,000	0,000	0,000	0,000	0,000
1059	2,941	-20,000	0,000	0,000	0,000	0,000
1063	1,176	-20,000	0,000	0,000	0,000	0,000
1067	3,529	-20,000	0,000	0,000	0,000	0,000
1071	4,118	-20,000	0,000	0,000	0,000	0,000
1072	4,706	-20,000	0,000	0,000	0,000	0,000
1073	5,294	-20,000	0,000	0,000	0,000	0,000
1133	5,882	-20,000	0,000	0,000	0,000	0,000
1134	6,471	-20,000	0,000	0,000	0,000	0,000
1135	7,059	-20,000	0,000	0,000	0,000	0,000
1136	7,647	-20,000	0,000	0,000	0,000	0,000
1143	8,235	-20,000	0,000	0,000	0,000	0,000
1147	8,824	-20,000	0,000	0,000	0,000	0,000
1148	9,412	-20,000	0,000	0,000	0,000	0,000
1149	10,000	-20,000	0,000	0,000	0,000	0,000
1165	-20,000	-2,222	0,000	0,000	133,350	20,761
1166	-20,000	-0,556	0,000	0,000	145,837	22,751
1167	-20,000	-1,111	0,000	0,000	141,698	22,092
1168	-20,000	-1,667	0,000	0,000	137,537	21,428
1352	-20,000	0,000	0,000	0,000	149,956	23,404

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1353	-20,000	1,500	0,000	0,000	161,020	25,145
1354	-20,000	1,000	0,000	0,000	157,346	24,569
1355	-20,000	0,500	0,000	0,000	153,654	23,989
1505	11,176	-20,000	0,000	0,000	0,000	0,000
1506	11,765	-20,000	0,000	0,000	0,000	0,000
1507	12,353	-20,000	0,000	0,000	0,000	0,000
1511	10,588	-20,000	0,000	0,000	0,000	0,000
1515	12,941	-20,000	0,000	0,000	0,000	0,000
1519	13,529	-20,000	0,000	0,000	0,000	0,000
1520	14,118	-20,000	0,000	0,000	0,000	0,000
1521	14,706	-20,000	0,000	0,000	0,000	0,000
1531	15,294	-20,000	0,000	0,000	0,000	0,000
1535	15,882	-20,000	0,000	0,000	0,000	0,000
1536	16,471	-20,000	0,000	0,000	0,000	0,000
1537	17,059	-20,000	0,000	0,000	0,000	0,000
1585	17,647	-20,000	0,000	0,000	0,000	0,000
1589	18,235	-20,000	0,000	0,000	0,000	0,000
1590	18,824	-20,000	0,000	0,000	0,000	0,000
1591	19,412	-20,000	0,000	0,000	0,000	0,000
1592	20,000	-20,000	0,000	0,000	0,000	0,000
1593	20,000	-19,400	0,000	0,000	512,769	86,722
1594	20,000	-18,800	0,000	0,000	953,108	161,246
1595	20,000	-18,200	0,000	0,000	1,325	224,223
1871	-20,000	3,500	0,000	0,000	175,454	27,406
1872	-20,000	3,000	0,000	0,000	171,579	26,846
1873	-20,000	2,500	0,000	0,000	168,254	26,283
1877	-20,000	2,000	0,000	0,000	164,643	25,716
1881	-20,000	4,000	0,000	0,000	180,001	27,980
1882	-18,249	4,000	2,534	86,114	179,590	27,930
1883	-18,833	4,000	2,235	62,744	180,531	27,958
1884	-19,416	4,000	-437,443	28,667	180,545	27,975

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2009	20,000	-17,599	0,000	0,000	1,632	276,284
2013	20,000	-16,999	0,000	0,000	1,878	318,044
2014	20,000	-16,399	0,000	0,000	2,067	350,100
2015	20,000	-15,799	0,000	0,000	2,203	373,035
2019	-16,095	4,001	1,087	197,762	178,677	27,721
2020	-16,619	4,001	633,845	180,900	178,900	27,782
2021	-17,142	4,000	234,864	167,252	179,100	27,842
2031	-17,665	4,000	395,366	125,206	179,349	27,894
2363	20,000	-15,199	0,000	0,000	2,289	387,415
2367	20,000	-14,599	0,000	0,000	2,330	393,792
2368	20,000	-13,998	0,000	0,000	2,328	392,707
2369	20,000	-13,398	0,000	0,000	2,288	384,688
2427	-15,572	4,001	739,513	250,211	178,269	27,650
2431	-14,165	4,001	2,484	352,789	178,091	27,389
2432	-14,634	4,001	171,358	305,124	178,408	27,484
2433	-15,103	4,001	-995,324	277,822	177,974	27,568
2803	20,000	-12,798	0,000	0,000	2,213	370,258
2807	20,000	-12,198	0,000	0,000	2,107	349,928
2808	20,000	-11,598	0,000	0,000	1,972	324,204
2809	20,000	-10,998	0,000	0,000	1,814	293,591
2829	-13,696	4,001	3,054	396,611	177,209	27,281
2830	-12,435	4,001	6,878	510,149	174,813	26,942
2831	-12,855	4,001	5,188	472,927	175,864	27,064
2832	-13,276	4,001	3,735	432,762	176,766	27,177
3247	-12,015	4,001	5,257	559,137	173,877	26,814
3251	-10,884	4,001	6,847	690,658	172,258	26,404
3252	-11,261	4,001	5,007	644,856	173,061	26,549
3253	-11,638	4,001	4,253	598,693	173,392	26,686
3441	20,000	-10,397	0,000	0,000	1,634	258,588
3442	20,000	-9,797	0,000	0,000	1,436	219,691
3443	20,000	-9,197	0,000	0,000	1,223	177,397

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3444	20,000	-8,597	0,000	0,000	998,396	132,201
3483	0,000	-1,929	-20,922	-3,621	55,271	10,229
3484	0,000	-1,857	-20,574	-3,590	55,271	10,229
3485	0,000	-1,786	-20,225	-3,559	55,270	10,229
3489	0,000	-1,714	-19,876	-3,527	55,269	10,229
3490	0,000	-1,643	-19,525	-3,495	55,268	10,230
3491	0,000	-1,571	-19,173	-3,464	55,267	10,230
3492	0,000	-1,500	-18,819	-3,432	55,265	10,230
3515	0,000	-2,000	-21,270	-3,653	55,272	10,228
3525	0,000	-1,357	-18,105	-3,367	55,261	10,231
3526	0,000	-1,285	-17,745	-3,334	55,258	10,231
3527	0,000	-1,214	-17,383	-3,301	55,256	10,232
3531	0,000	-1,428	-18,463	-3,399	55,263	10,231
3547	0,000	-1,142	-17,018	-3,267	55,252	10,232
3548	0,000	-1,071	-16,653	-3,233	55,249	10,232
3549	0,000	-0,999	-16,286	-3,199	55,244	10,233
3550	0,000	-0,928	-15,918	-3,164	55,240	10,233
3633	20,000	-7,997	0,000	0,000	765,018	84,599
3637	20,000	-7,397	0,000	0,000	525,591	35,086
3638	20,000	-6,796	0,000	0,000	282,769	-15,844
3639	20,000	-6,196	0,000	0,000	39,042	-67,699
3789	-10,508	4,002	8,027	734,300	171,034	26,251
3790	-9,494	4,002	5,962	864,737	168,232	25,787
3791	-9,832	4,002	6,843	820,034	168,604	25,949
3792	-10,170	4,002	7,933	779,929	169,786	26,103
3835	-9,157	4,002	7,671	919,334	167,627	25,615
3839	-8,248	4,002	9,178	1,057	164,843	25,102
3840	-8,551	4,002	8,214	1,006	165,731	25,281
3841	-8,854	4,002	8,278	960,539	166,509	25,452
3993	0,000	-0,785	-15,185	-3,093	55,227	10,234
3994	0,000	-0,714	-14,824	-3,057	55,219	10,234

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3995	0,000	-0,642	-14,468	-3,020	55,209	10,235
3999	0,000	-0,857	-15,551	-3,129	55,234	10,234
4009	0,000	-0,571	-14,120	-2,982	55,199	10,235
4013	0,000	-0,499	-13,783	-2,945	55,187	10,235
4014	0,000	-0,428	-13,457	-2,906	55,175	10,236
4015	0,000	-0,356	-13,144	-2,867	55,162	10,236
4189	20,000	-5,596	0,000	0,000	-203,270	-119,985
4193	20,000	-4,996	0,000	0,000	-442,042	-172,216
4194	20,000	-4,396	0,000	0,000	-675,342	-223,908
4195	20,000	-3,796	0,000	0,000	-901,447	-274,581
4215	0,000	-0,213	-12,557	-2,788	55,135	10,237
4216	0,000	-0,142	-12,283	-2,747	55,122	10,237
4217	0,000	-0,070	-12,020	-2,706	55,109	10,237
4221	0,000	-0,285	-12,844	-2,828	55,148	10,236
4415	-7,132	4,002	11,469	1,248	160,630	24,355
4416	-7,403	4,002	11,119	1,203	161,765	24,550
4417	-7,674	4,002	10,441	1,156	162,808	24,736
4421	-7,946	4,002	9,970	1,109	163,752	24,914
4447	-6,860	4,002	12,454	1,296	159,524	24,153
4451	-6,131	4,002	13,821	1,422	155,964	23,555
4452	-6,374	4,002	13,304	1,387	157,138	23,761
4453	-6,617	4,002	12,958	1,346	158,318	23,962
4505	20,000	-3,195	0,000	0,000	-1,119	-323,766
4509	20,000	-2,595	0,000	0,000	-1,326	-371,000
4510	20,000	-1,995	0,000	0,000	-1,522	-415,833
4511	20,000	-1,395	0,000	0,000	-1,707	-457,823
4589	0,000	0,001	-11,769	-2,665	55,097	10,237
4590	0,000	0,073	-11,528	-2,623	55,086	10,238
4591	0,000	0,144	-11,293	-2,580	55,075	10,238
4592	0,000	0,215	-11,064	-2,537	55,065	10,238
4685	0,000	0,287	-10,839	-2,493	55,056	10,238

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4686	0,000	0,358	-10,615	-2,449	55,048	10,238
4687	0,000	0,430	-10,392	-2,405	55,040	10,238
4688	0,000	0,501	-10,170	-2,360	55,032	10,239
4847	-5,234	4,002	13,786	1,573	151,252	22,719
4848	-5,452	4,002	14,552	1,535	152,542	22,934
4849	-5,670	4,002	14,335	1,499	153,637	23,141
4850	-5,888	4,002	14,098	1,465	154,679	23,343
4857	-5,016	4,002	13,901	1,603	150,169	22,495
4858	-4,429	4,003	15,138	1,695	146,852	21,852
4859	-4,625	4,003	15,064	1,662	148,116	22,076
4860	-4,820	4,002	14,395	1,625	149,259	22,289
4993	-3,709	4,003	13,957	1,744	142,493	20,964
4994	-3,884	4,003	14,358	1,737	143,636	21,189
4995	-4,059	4,003	14,232	1,725	144,633	21,407
4999	-4,234	4,003	14,599	1,713	145,557	21,620
5015	-3,534	4,003	13,301	1,757	141,517	20,734
5016	-3,063	4,003	12,550	1,770	139,098	20,075
5017	-3,220	4,003	12,665	1,769	139,950	20,300
5018	-3,377	4,003	12,867	1,765	140,717	20,520
5115	20,000	-0,795	0,000	0,000	-1,878	-496,546
5119	20,000	-0,195	0,000	0,000	-2,036	-531,592
5120	20,000	0,406	0,000	0,000	-2,179	-562,565
5121	20,000	1,006	0,000	0,000	-2,308	-589,090
5141	0,000	0,573	-9,948	-2,314	55,025	10,239
5142	0,000	0,644	-9,723	-2,268	55,018	10,239
5143	0,000	0,716	-9,496	-2,221	55,011	10,239
5144	0,000	0,787	-9,267	-2,174	55,005	10,239
5151	0,000	0,859	-9,034	-2,126	55,000	10,239
5152	0,000	0,930	-8,798	-2,077	54,994	10,239
5153	0,000	1,002	-8,558	-2,028	54,989	10,239
5154	0,000	1,073	-8,313	-1,979	54,984	10,240

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5187	0,000	1,216	-7,815	-1,878	54,974	10,240
5188	0,000	1,288	-7,562	-1,827	54,970	10,240
5189	0,000	1,359	-7,307	-1,775	54,966	10,240
5193	0,000	1,145	-8,066	-1,929	54,979	10,240
5203	0,000	1,430	-7,049	-1,722	54,962	10,240
5204	0,000	1,502	-6,790	-1,669	54,958	10,240
5205	0,000	1,573	-6,531	-1,616	54,955	10,240
5206	0,000	1,645	-6,274	-1,562	54,952	10,240
5287	0,000	1,788	-5,775	-1,452	54,948	10,240
5288	0,000	1,859	-5,538	-1,397	54,946	10,240
5289	0,000	1,931	-5,313	-1,342	54,944	10,240
5293	0,000	1,716	-6,021	-1,507	54,950	10,240
5309	0,000	2,002	-5,103	-1,286	54,942	10,240
5313	0,000	2,074	-4,914	-1,230	54,941	10,240
5314	0,000	2,145	-4,748	-1,174	54,940	10,240
5315	0,000	2,217	-4,610	-1,118	54,939	10,240
5351	-2,483	4,003	11,105	1,757	136,149	19,190
5352	-2,624	4,003	11,451	1,762	136,797	19,413
5353	-2,765	4,003	11,787	1,766	137,480	19,631
5357	-2,906	4,003	12,180	1,769	138,187	19,843
5373	-2,343	4,003	10,819	1,751	135,573	18,961
5374	-1,964	4,003	10,040	1,723	134,005	18,311
5375	-2,091	4,003	10,303	1,734	134,466	18,533
5376	-2,217	4,003	10,576	1,743	134,985	18,750
5437	20,000	1,606	0,000	0,000	-2,422	-610,813
5441	20,000	2,206	0,000	0,000	-2,520	-627,401
5442	20,000	2,806	0,000	0,000	-2,601	-638,545
5443	20,000	3,406	0,000	0,000	-2,664	-643,965
5599	0,000	2,360	-4,427	-1,007	54,936	10,240
5600	0,000	2,431	-4,391	-952,635	54,935	10,240
5601	0,000	2,502	-4,396	-898,582	54,934	10,240

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5605	0,000	2,288	-4,501	-1,063	54,937	10,240
5621	0,000	2,574	-4,445	-845,361	54,932	10,240
5622	0,000	2,645	-4,540	-793,161	54,931	10,240
5623	0,000	2,717	-4,686	-742,140	54,930	10,240
5624	0,000	2,788	-4,885	-692,504	54,929	10,240
5727	20,000	4,007	0,000	0,000	-2,709	-643,417
5728	19,416	4,006	-120,653	10,703	-2,672	-636,883
5729	18,833	4,006	-241,566	21,355	-2,561	-617,251
5730	18,249	4,006	-362,970	31,910	-2,375	-584,431
5731	20,000	4,506	0,000	0,000	-2,731	-638,262
5732	20,000	5,005	0,000	0,000	-2,737	-628,733
5733	20,000	5,504	0,000	0,000	-2,728	-614,758
5769	20,000	6,003	0,000	0,000	-2,701	-596,295
5773	20,000	6,502	0,000	0,000	-2,656	-573,346
5774	20,000	7,002	0,000	0,000	-2,591	-545,906
5775	20,000	7,501	0,000	0,000	-2,506	-514,037
5776	20,000	8,000	0,000	0,000	-2,399	-477,880
5777	19,375	8,000	348,814	112,168	-2,356	-470,155
5778	18,750	8,000	694,152	224,135	-2,229	-447,187
5779	18,125	8,000	1,038	336,509	-2,018	-408,952
5815	-1,499	4,003	9,394	1,666	132,597	17,437
5816	-1,612	4,003	9,525	1,682	132,909	17,658
5817	-1,725	4,003	9,664	1,697	133,243	17,874
5821	-1,838	4,003	9,822	1,710	133,594	18,083
5837	-1,386	4,003	9,235	1,647	132,347	17,209
5841	-1,082	4,003	9,087	1,589	132,220	16,561
5842	-1,183	4,003	9,080	1,610	132,186	16,784
5843	-1,285	4,003	9,131	1,629	132,232	17,000
6021	0,000	2,931	-5,451	-598,073	54,929	10,240
6022	0,000	3,003	-5,827	-553,632	54,929	10,240
6023	0,000	3,074	-6,268	-511,268	54,929	10,240

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6027	0,000	2,860	-5,139	-644,423	54,929	10,240
6043	0,000	3,146	-6,778	-471,113	54,929	10,240
6047	0,000	3,217	-7,360	-433,361	54,929	10,240
6048	0,000	3,289	-8,015	-398,197	54,929	10,239
6049	0,000	3,360	-8,744	-365,711	54,929	10,239
6085	15,103	4,006	-1,032	84,930	-54,778	-171,269
6086	14,634	4,006	-1,134	91,945	488,882	-73,480
6087	14,165	4,006	-1,237	98,637	1,086	34,394
6091	15,572	4,006	-930,660	77,626	-545,742	-259,245
6092	17,142	4,006	-595,235	51,480	-1,815	-485,382
6093	16,619	4,006	-706,206	60,445	-1,455	-421,411
6094	16,095	4,006	-818,022	69,174	-1,032	-346,123
6101	17,665	4,006	-485,084	42,317	-2,114	-538,268
6111	17,500	8,000	1,380	449,777	-1,721	-355,161
6115	16,875	8,000	1,716	563,551	-1,338	-285,434
6116	16,250	8,000	2,046	678,208	-866,625	-199,596
6117	15,625	8,000	2,369	793,901	-306,656	-97,184
6191	-0,708	4,003	9,747	1,505	133,216	15,665
6192	-0,799	4,003	9,497	1,526	132,814	15,896
6193	-0,890	4,003	9,297	1,547	132,522	16,118
6197	-0,618	4,003	9,969	1,484	133,561	15,421
6198	-0,373	4,003	9,811	1,407	142,602	14,740
6199	-0,455	4,003	9,096	1,432	138,191	14,965
6200	-0,536	4,003	9,276	1,457	134,556	15,196
6207	-0,981	4,003	9,162	1,568	132,341	16,331
6297	0,000	3,503	-10,424	-309,233	54,928	10,239
6298	0,000	3,574	-11,374	-285,516	54,927	10,239
6299	0,000	3,646	-12,395	-264,891	54,926	10,239
6303	0,000	3,432	-9,547	-336,004	54,929	10,239
6313	0,000	3,717	-13,486	-247,394	54,924	10,238
6317	0,000	3,789	-14,638	-233,057	54,922	10,238

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6318	0,000	3,860	-15,847	-221,773	54,921	10,238
6319	0,000	3,932	-17,104	-213,433	54,921	10,238
6391	15,000	8,000	2,679	910,644	344,065	22,315
6395	14,375	8,000	2,975	1,028	1,087	159,391
6396	13,750	8,000	3,252	1,147	1,923	314,655
6397	13,125	8,000	3,506	1,267	2,854	488,837
6439	-0,292	4,003	12,834	1,361	143,688	14,529
6440	-0,073	4,003	-5,360	479,086	109,534	12,586
6441	-0,146	4,003	11,684	1,325	129,117	13,631
6442	-0,219	4,003	14,466	1,495	140,334	14,186
6449	0,000	4,003	-18,404	-207,840	54,921	10,237
6450	0,000	4,080	-19,847	-204,608	54,923	10,237
6451	0,000	4,156	-21,348	-203,866	54,925	10,237
6452	0,000	4,233	-22,906	-205,368	54,926	10,236
6453	0,219	4,003	-16,790	-181,637	58,484	10,040
6454	0,146	4,003	-17,215	-188,650	57,377	10,111
6455	0,073	4,003	-17,738	-197,380	56,241	10,177
6481	11,638	4,005	-1,775	127,778	5,251	803,048
6482	11,261	4,005	-1,848	130,950	6,011	946,906
6483	10,884	4,005	-1,919	133,785	6,806	1,099
6487	12,015	4,005	-1,698	124,277	4,527	667,171
6488	13,276	4,005	-1,430	110,323	2,368	267,745
6489	12,855	4,005	-1,521	115,338	3,043	391,685
6490	12,435	4,005	-1,611	119,996	3,762	524,736
6497	13,696	4,006	-1,339	104,973	1,737	152,654
6563	8,854	4,005	-2,195	143,178	11,667	2,069
6564	8,551	4,005	-2,213	143,765	12,464	2,237
6565	8,248	4,005	-2,224	144,160	13,277	2,411
6569	9,157	4,005	-2,169	142,392	10,886	1,907
6570	10,170	4,005	-2,039	138,217	8,410	1,411
6571	9,832	4,005	-2,089	139,879	9,210	1,569

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6572	9,494	4,005	-2,132	141,269	10,036	1,734
6579	10,508	4,005	-1,985	136,277	7,637	1,259
6606	12,500	8,000	3,730	1,388	3,881	682,682
6610	11,875	8,000	3,917	1,509	5,005	897,005
6611	11,250	8,000	4,056	1,630	6,226	1,133
6612	10,625	8,000	4,136	1,751	7,542	1,391
6653	0,292	4,003	-16,512	-176,400	59,596	9,962
6654	0,536	4,003	-11,262	-140,157	50,432	9,596
6655	0,455	4,003	-13,944	-159,351	55,637	9,743
6656	0,373	4,003	-15,849	-170,781	59,173	9,864
6663	0,000	4,310	-24,521	-208,888	54,927	10,236
6664	0,000	4,393	-26,345	-214,787	54,928	10,236
6665	0,000	4,477	-28,235	-222,604	54,928	10,235
6666	0,000	4,560	-30,188	-232,119	54,928	10,235
6673	0,618	4,003	-8,263	-114,151	44,402	9,430
6674	0,890	4,003	-4,770	-56,805	39,334	8,974
6675	0,799	4,003	-5,157	-70,735	40,178	9,111
6676	0,708	4,003	-6,137	-88,096	41,260	9,259
6699	6,617	4,004	-2,112	143,426	17,809	3,461
6700	6,374	4,004	-2,068	142,935	18,490	3,634
6701	6,131	4,004	-2,019	142,339	19,167	3,812
6705	6,860	4,004	-2,148	143,817	17,127	3,292
6706	7,674	4,005	-2,219	144,425	14,850	2,758
6707	7,403	4,004	-2,204	144,344	15,605	2,931
6708	7,132	4,004	-2,180	144,140	16,365	3,109
6715	7,946	4,005	-2,225	144,376	14,102	2,591
6837	0,000	5,513	-55,984	-412,324	54,911	10,232
6838	0,000	5,622	-59,198	-437,287	54,910	10,232
6839	0,000	5,730	-62,442	-462,648	54,910	10,232
6843	0,000	5,956	-69,300	-516,587	54,909	10,231
6844	0,000	6,074	-72,909	-545,056	54,909	10,231

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6845	0,000	6,192	-76,532	-573,683	54,909	10,231
6849	0,000	5,838	-65,712	-488,320	54,909	10,231
6859	0,000	6,311	-80,164	-602,444	54,909	10,231
6860	0,000	6,439	-84,133	-633,925	54,909	10,231
6861	0,000	6,568	-88,106	-665,514	54,909	10,230
6862	0,000	6,697	-92,080	-697,222	54,909	10,230
6869	0,000	6,966	-100,386	-763,967	54,908	10,230
6870	0,000	7,107	-104,714	-799,048	54,908	10,230
6871	0,000	7,247	-109,038	-834,331	54,908	10,230
6875	0,000	6,826	-96,055	-729,074	54,908	10,230
6885	0,000	7,387	-113,359	-869,811	54,908	10,230
6886	0,000	8,000	-132,191	-1,026	54,908	10,230
6887	0,000	7,541	-118,069	-908,705	54,908	10,230
6888	0,000	7,694	-122,777	-947,785	54,908	10,230
6889	0,000	7,847	-127,484	-986,964	54,909	10,230
6893	0,750	8,000	-17,780	2,454	10,971	8,314
6894	0,500	8,000	-16,209	2,489	7,389	8,400
6895	0,250	8,000	-26,287	2,409	26,549	9,091
6899	2,217	4,004	-2,827	68,911	30,471	7,337
6900	2,091	4,004	-3,030	60,998	31,088	7,477
6901	1,964	4,004	-3,242	52,409	31,754	7,619
6905	2,343	4,004	-2,637	76,178	29,899	7,200
6906	2,765	4,004	-2,121	96,240	28,265	6,756
6907	2,624	4,004	-2,272	90,234	28,768	6,902
6908	2,483	4,004	-2,444	83,563	29,311	7,050
6915	3,377	4,004	-1,703	115,840	26,400	6,148
6916	3,220	4,004	-1,777	111,695	26,842	6,301
6917	3,063	4,004	-1,872	106,981	27,305	6,455
6921	2,906	4,004	-1,992	101,631	27,796	6,613
6931	3,534	4,004	-1,650	119,476	25,975	5,998
6932	4,059	4,004	-1,588	128,648	24,620	5,512

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6933	3,884	4,004	-1,592	126,037	25,065	5,671
6934	3,709	4,004	-1,611	123,002	25,515	5,833
6941	4,820	4,004	-1,697	136,378	22,685	4,848
6942	4,625	4,004	-1,656	134,841	23,186	5,014
6943	4,429	4,004	-1,622	133,031	23,683	5,183
6947	4,234	4,004	-1,598	130,893	24,177	5,355
6957	5,016	4,004	-1,744	137,688	22,178	4,685
6958	5,670	4,004	-1,910	140,864	20,434	4,162
6959	5,452	4,004	-1,855	139,975	21,023	4,333
6960	5,234	4,004	-1,799	138,927	21,604	4,507
6967	5,888	4,004	-1,964	141,623	19,838	3,995
6977	10,000	8,000	4,143	1,871	8,949	1,671
6981	9,375	8,000	4,059	1,989	10,441	1,976
6982	8,750	8,000	3,862	2,104	12,009	2,306
6983	8,125	8,000	3,523	2,214	13,638	2,662
6987	1,285	4,003	-4,312	-7,278	36,221	8,436
6988	1,183	4,003	-4,413	-18,463	36,983	8,568
6989	1,082	4,003	-4,499	-30,514	37,749	8,703
6993	0,981	4,003	-4,594	-43,774	38,552	8,843
7003	1,386	4,003	-4,187	3,247	35,468	8,308
7004	1,725	4,004	-3,654	34,155	33,162	7,896
7005	1,612	4,004	-3,845	24,547	33,890	8,030
7006	1,499	4,004	-4,025	14,258	34,660	8,167
7013	1,838	4,004	-3,459	43,116	32,473	7,763
7049	0,000	4,735	-34,463	-256,648	54,927	10,234
7050	0,000	4,826	-36,788	-271,524	54,926	10,234
7051	0,000	4,917	-39,173	-287,574	54,924	10,234
7055	0,000	4,644	-32,201	-243,133	54,927	10,235
7075	0,000	5,008	-41,613	-304,639	54,921	10,234
7076	0,000	5,107	-44,333	-324,239	54,918	10,233
7077	0,000	5,206	-47,109	-344,727	54,915	10,233

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
7078	0,000	5,306	-49,936	-365,976	54,913	10,233
7085	0,000	5,405	-52,808	-387,862	54,912	10,232
7155	7,500	8,000	3,005	2,318	15,303	3,043
7160	1,000	8,000	-17,479	2,455	2,189	7,895
7188	6,875	8,000	2,268	2,413	16,967	3,450
7192	6,250	8,000	1,252	2,497	18,580	3,884
7193	5,625	8,000	-119,368	2,566	20,054	4,341
7194	5,000	8,000	-1,943	2,616	21,252	4,821
7204	2,500	8,000	-16,516	2,540	15,613	6,810
7208	2,000	8,000	-19,341	2,479	8,972	7,165
7209	1,500	8,000	-19,511	2,445	3,559	7,509
7213	3,000	8,000	-12,492	2,595	19,400	6,428
7227	4,500	8,000	-3,805	2,640	21,881	5,218
7228	4,000	8,000	-6,139	2,645	22,030	5,622
7230	3,500	8,000	-9,024	2,631	21,405	6,028

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

9. Results for phase 4

Table [13] Table of deformations phase no: 4

Node No.	x-coord.	y-coord.	dUx [10⁻⁶ m]	Ux [10⁻⁶ m]	dUy [10⁻³ m]	Uy [10⁻³ m]
1	-20,000	-18,333	0,000	0,000	-13,417	-26,833
2	-20,000	-18,889	0,000	0,000	-9,305	-18,609
3	-20,000	-19,444	0,000	0,000	-4,853	-9,704
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	-27,969	-55,939
18	-20,000	-16,667	0,000	0,000	-24,775	-49,549
19	-20,000	-17,222	0,000	0,000	-21,332	-42,664
26	-20,000	-17,778	0,000	0,000	-17,368	-34,735
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
49	-20,000	-15,556	0,000	0,000	-30,996	-61,996
53	-20,000	-13,889	0,000	0,000	-38,795	-77,600
54	-20,000	-14,444	0,000	0,000	-36,407	-72,821
55	-20,000	-15,000	0,000	0,000	-33,809	-67,624
59	-15,294	-20,000	0,000	0,000	0,000	0,000
63	-14,706	-20,000	0,000	0,000	0,000	0,000
64	-14,118	-20,000	0,000	0,000	0,000	0,000
65	-13,529	-20,000	0,000	0,000	0,000	0,000
125	-20,000	-13,333	0,000	0,000	-40,976	-81,964
129	-20,000	-11,667	0,000	0,000	-46,352	-92,729
130	-20,000	-12,222	0,000	0,000	-44,750	-89,521

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
131	-20,000	-12,778	0,000	0,000	-42,958	-85,933
215	-12,941	-20,000	0,000	0,000	0,000	0,000
219	-12,353	-20,000	0,000	0,000	0,000	0,000
220	-11,765	-20,000	0,000	0,000	0,000	0,000
221	-11,176	-20,000	0,000	0,000	0,000	0,000
225	-10,588	-20,000	0,000	0,000	0,000	0,000
229	-10,000	-20,000	0,000	0,000	0,000	0,000
230	-9,412	-20,000	0,000	0,000	0,000	0,000
231	-8,824	-20,000	0,000	0,000	0,000	0,000
263	-20,000	-11,111	0,000	0,000	-47,765	-95,560
264	-20,000	-9,444	0,000	0,000	-50,947	-101,941
265	-20,000	-10,000	0,000	0,000	-50,058	-100,156
266	-20,000	-10,556	0,000	0,000	-48,998	-98,030
407	-8,235	-20,000	0,000	0,000	0,000	0,000
411	-7,647	-20,000	0,000	0,000	0,000	0,000
412	-7,059	-20,000	0,000	0,000	0,000	0,000
413	-6,471	-20,000	0,000	0,000	0,000	0,000
417	-20,000	-8,889	0,000	0,000	-51,667	-103,389
421	-20,000	-7,222	0,000	0,000	-52,899	-105,877
422	-20,000	-7,778	0,000	0,000	-52,636	-105,343
423	-20,000	-8,333	0,000	0,000	-52,227	-104,517
471	-5,882	-20,000	0,000	0,000	0,000	0,000
475	-5,294	-20,000	0,000	0,000	0,000	0,000
476	-4,706	-20,000	0,000	0,000	0,000	0,000
477	-4,118	-20,000	0,000	0,000	0,000	0,000
625	-20,000	-6,667	0,000	0,000	-53,020	-106,129
626	-20,000	-5,000	0,000	0,000	-52,662	-105,444
627	-20,000	-5,556	0,000	0,000	-52,891	-105,891
628	-20,000	-6,111	0,000	0,000	-53,013	-106,125
785	-3,529	-20,000	0,000	0,000	0,000	0,000
789	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
790	-2,353	-20,000	0,000	0,000	0,000	0,000
791	-1,765	-20,000	0,000	0,000	0,000	0,000
795	-1,176	-20,000	0,000	0,000	0,000	0,000
799	-0,588	-20,000	0,000	0,000	0,000	0,000
800	0,000	-20,000	0,000	0,000	0,000	0,000
801	0,588	-20,000	0,000	0,000	0,000	0,000
830	-20,000	-4,444	0,000	0,000	-52,337	-104,805
831	-20,000	-2,778	0,000	0,000	-50,939	-102,043
832	-20,000	-3,333	0,000	0,000	-51,461	-103,075
833	-20,000	-3,889	0,000	0,000	-51,931	-104,005
1057	1,765	-20,000	0,000	0,000	0,000	0,000
1058	2,353	-20,000	0,000	0,000	0,000	0,000
1059	2,941	-20,000	0,000	0,000	0,000	0,000
1063	1,176	-20,000	0,000	0,000	0,000	0,000
1067	3,529	-20,000	0,000	0,000	0,000	0,000
1071	4,118	-20,000	0,000	0,000	0,000	0,000
1072	4,706	-20,000	0,000	0,000	0,000	0,000
1073	5,294	-20,000	0,000	0,000	0,000	0,000
1133	5,882	-20,000	0,000	0,000	0,000	0,000
1134	6,471	-20,000	0,000	0,000	0,000	0,000
1135	7,059	-20,000	0,000	0,000	0,000	0,000
1136	7,647	-20,000	0,000	0,000	0,000	0,000
1143	8,235	-20,000	0,000	0,000	0,000	0,000
1147	8,824	-20,000	0,000	0,000	0,000	0,000
1148	9,412	-20,000	0,000	0,000	0,000	0,000
1149	10,000	-20,000	0,000	0,000	0,000	0,000
1165	-20,000	-2,222	0,000	0,000	-50,381	-100,938
1166	-20,000	-0,556	0,000	0,000	-48,685	-97,577
1167	-20,000	-1,111	0,000	0,000	-49,235	-98,667
1168	-20,000	-1,667	0,000	0,000	-49,806	-99,799
1352	-20,000	0,000	0,000	0,000	-48,175	-96,564

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
1353	-20,000	1,500	0,000	0,000	-47,168	-94,561
1354	-20,000	1,000	0,000	0,000	-47,427	-95,078
1355	-20,000	0,500	0,000	0,000	-47,768	-95,756
1505	11,176	-20,000	0,000	0,000	0,000	0,000
1506	11,765	-20,000	0,000	0,000	0,000	0,000
1507	12,353	-20,000	0,000	0,000	0,000	0,000
1511	10,588	-20,000	0,000	0,000	0,000	0,000
1515	12,941	-20,000	0,000	0,000	0,000	0,000
1519	13,529	-20,000	0,000	0,000	0,000	0,000
1520	14,118	-20,000	0,000	0,000	0,000	0,000
1521	14,706	-20,000	0,000	0,000	0,000	0,000
1531	15,294	-20,000	0,000	0,000	0,000	0,000
1535	15,882	-20,000	0,000	0,000	0,000	0,000
1536	16,471	-20,000	0,000	0,000	0,000	0,000
1537	17,059	-20,000	0,000	0,000	0,000	0,000
1585	17,647	-20,000	0,000	0,000	0,000	0,000
1589	18,235	-20,000	0,000	0,000	0,000	0,000
1590	18,824	-20,000	0,000	0,000	0,000	0,000
1591	19,412	-20,000	0,000	0,000	0,000	0,000
1592	20,000	-20,000	0,000	0,000	0,000	0,000
1593	20,000	-19,400	0,000	0,000	-8,265	-16,542
1594	20,000	-18,800	0,000	0,000	-16,349	-32,725
1595	20,000	-18,200	0,000	0,000	-24,247	-48,535
1871	-20,000	3,500	0,000	0,000	-47,251	-94,709
1872	-20,000	3,000	0,000	0,000	-47,029	-94,275
1873	-20,000	2,500	0,000	0,000	-46,951	-94,125
1877	-20,000	2,000	0,000	0,000	-47,003	-94,231
1881	-20,000	4,000	0,000	0,000	-47,630	-95,456
1882	-18,249	4,000	3,017	5,964	-51,066	-102,355
1883	-18,833	4,000	2,027	4,007	-49,156	-98,519
1884	-19,416	4,000	1,018	2,013	-48,012	-96,222

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
1885	-20,000	5,500	0,000	0,000	-49,839	-99,841
1886	-20,000	5,000	0,000	0,000	-48,916	-98,001
1887	-20,000	4,500	0,000	0,000	-48,181	-96,545
2009	20,000	-17,599	0,000	0,000	-31,844	-63,747
2013	20,000	-16,999	0,000	0,000	-39,382	-78,840
2014	20,000	-16,399	0,000	0,000	-46,646	-93,386
2015	20,000	-15,799	0,000	0,000	-53,701	-107,514
2019	-16,095	4,001	6,321	12,514	-64,945	-130,188
2020	-16,619	4,001	5,584	11,051	-60,558	-121,398
2021	-17,142	4,000	4,800	9,495	-56,832	-113,927
2031	-17,665	4,000	3,976	7,861	-53,752	-107,748
2047	-20,000	8,000	0,000	0,000	-57,662	-115,529
2048	-20,000	7,500	0,000	0,000	-56,018	-111,850
2049	-20,000	7,000	0,000	0,000	-54,057	-108,091
2050	-20,000	6,500	0,000	0,000	-52,475	-104,942
2051	-18,285	8,000	18,209	35,441	-60,512	-121,651
2052	-18,857	8,000	11,663	23,151	-58,314	-117,633
2053	-19,428	8,000	4,761	10,506	-57,506	-115,736
2057	-20,000	6,000	0,000	0,000	-50,951	-102,077
2061	-17,713	8,000	21,868	44,842	-63,624	-127,321
2065	-16,150	8,000	39,717	78,377	-73,632	-148,167
2066	-16,671	8,000	33,492	66,928	-69,037	-139,323
2067	-17,192	8,000	27,002	55,209	-65,667	-132,343
2363	20,000	-15,199	0,000	0,000	-60,568	-121,268
2367	20,000	-14,599	0,000	0,000	-67,244	-134,639
2368	20,000	-13,998	0,000	0,000	-73,729	-147,632
2369	20,000	-13,398	0,000	0,000	-80,014	-160,223
2427	-15,572	4,001	7,001	13,869	-70,009	-140,327
2431	-14,165	4,001	8,496	16,852	-87,124	-174,553
2432	-14,634	4,001	8,058	15,977	-80,837	-161,987
2433	-15,103	4,001	7,558	14,979	-75,137	-150,588

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
2525	-15,628	8,000	43,747	87,621	-79,129	-158,565
2529	-14,203	8,000	59,144	117,203	-95,241	-191,530
2530	-14,678	8,000	53,525	106,873	-88,859	-178,956
2531	-15,153	8,000	47,907	96,525	-83,470	-167,954
2803	20,000	-12,798	0,000	0,000	-86,085	-172,390
2807	20,000	-12,198	0,000	0,000	-91,938	-184,121
2808	20,000	-11,598	0,000	0,000	-97,566	-195,402
2809	20,000	-10,998	0,000	0,000	-102,954	-206,204
2829	-13,696	4,001	8,864	17,591	-94,016	-188,319
2830	-12,435	4,001	9,465	18,800	-115,678	-231,568
2831	-12,855	4,001	9,333	18,534	-107,936	-216,114
2832	-13,276	4,001	9,131	18,127	-100,720	-201,707
2839	-13,727	8,000	63,424	126,170	-102,344	-205,419
2843	-12,428	8,000	77,157	152,511	-124,122	-248,926
2844	-12,861	8,000	72,453	143,652	-116,039	-233,074
2845	-13,294	8,000	67,379	134,370	-108,850	-218,646
3247	-12,015	4,001	9,520	18,914	-123,962	-248,102
3251	-10,884	4,001	9,237	18,374	-149,057	-298,188
3252	-11,261	4,001	9,406	18,700	-140,221	-280,553
3253	-11,638	4,001	9,499	18,878	-131,860	-263,866
3305	-11,994	8,000	79,674	159,099	-132,932	-266,053
3306	-10,809	8,000	91,730	182,537	-158,006	-316,733
3307	-11,204	8,000	87,822	174,826	-148,922	-298,536
3308	-11,599	8,000	83,673	166,795	-140,352	-281,450
3441	20,000	-10,397	0,000	0,000	-108,086	-216,497
3442	20,000	-9,797	0,000	0,000	-112,956	-226,265
3443	20,000	-9,197	0,000	0,000	-117,556	-235,495
3444	20,000	-8,597	0,000	0,000	-121,870	-244,156
3483	0,000	-1,929	-53,759	-107,326	-660,655	-1,321
3484	0,000	-1,857	-53,970	-107,746	-660,689	-1,321
3485	0,000	-1,786	-54,181	-108,167	-660,731	-1,321

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
3489	0,000	-1,714	-54,394	-108,589	-660,779	-1,322
3490	0,000	-1,643	-54,606	-109,012	-660,831	-1,322
3491	0,000	-1,571	-54,819	-109,436	-660,889	-1,322
3492	0,000	-1,500	-55,032	-109,860	-660,950	-1,322
3515	0,000	-2,000	-53,549	-106,910	-660,628	-1,321
3525	0,000	-1,357	-55,460	-110,712	-661,084	-1,322
3526	0,000	-1,285	-55,675	-111,139	-661,155	-1,322
3527	0,000	-1,214	-55,891	-111,568	-661,230	-1,322
3531	0,000	-1,428	-55,246	-110,285	-661,015	-1,322
3547	0,000	-1,142	-56,107	-111,998	-661,307	-1,323
3548	0,000	-1,071	-56,323	-112,429	-661,386	-1,323
3549	0,000	-0,999	-56,541	-112,861	-661,468	-1,323
3550	0,000	-0,928	-56,759	-113,295	-661,552	-1,323
3633	20,000	-7,997	0,000	0,000	-125,887	-252,221
3637	20,000	-7,397	0,000	0,000	-129,597	-259,675
3638	20,000	-6,796	0,000	0,000	-132,995	-266,507
3639	20,000	-6,196	0,000	0,000	-136,072	-272,698
3789	-10,508	4,002	8,988	17,889	-158,384	-316,800
3790	-9,494	4,002	7,882	15,728	-186,017	-371,934
3791	-9,832	4,002	8,325	16,595	-176,381	-352,709
3792	-10,170	4,002	8,692	17,312	-167,173	-334,338
3809	-10,414	8,000	95,435	189,707	-167,620	-335,989
3813	-9,334	8,000	105,373	208,969	-196,778	-394,000
3814	-9,694	8,000	102,087	202,639	-186,555	-373,668
3815	-10,054	8,000	98,729	196,105	-176,847	-354,354
3835	-9,157	4,002	7,361	14,705	-196,095	-392,039
3839	-8,248	4,002	5,535	11,108	-225,476	-450,653
3840	-8,551	4,002	6,216	12,451	-215,303	-430,359
3841	-8,854	4,002	6,824	13,648	-205,513	-410,827
3993	0,000	-0,785	-57,196	-114,166	-661,727	-1,323
3994	0,000	-0,714	-57,416	-114,604	-661,817	-1,324

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
3995	0,000	-0,642	-57,637	-115,043	-661,909	-1,324
3999	0,000	-0,857	-56,977	-113,730	-661,639	-1,323
4009	0,000	-0,571	-57,858	-115,483	-662,002	-1,324
4013	0,000	-0,499	-58,080	-115,925	-662,098	-1,324
4014	0,000	-0,428	-58,303	-116,368	-662,194	-1,324
4015	0,000	-0,356	-58,526	-116,813	-662,292	-1,325
4189	20,000	-5,596	0,000	0,000	-138,820	-278,232
4193	20,000	-4,996	0,000	0,000	-141,241	-283,113
4194	20,000	-4,396	0,000	0,000	-143,337	-287,346
4195	20,000	-3,796	0,000	0,000	-145,111	-290,936
4215	0,000	-0,213	-58,975	-117,706	-662,493	-1,325
4216	0,000	-0,142	-59,200	-118,154	-662,595	-1,325
4217	0,000	-0,070	-59,425	-118,603	-662,698	-1,325
4221	0,000	-0,285	-58,750	-117,259	-662,392	-1,325
4303	-8,974	8,000	107,910	214,341	-207,741	-415,538
4307	-7,989	8,000	115,334	229,113	-238,884	-477,963
4308	-8,317	8,000	112,741	224,181	-227,945	-456,166
4309	-8,645	8,000	110,095	219,040	-217,499	-435,290
4415	-7,132	4,002	2,320	4,747	-266,465	-532,439
4416	-7,403	4,002	3,210	6,510	-255,989	-511,534
4417	-7,674	4,002	4,028	8,129	-245,850	-491,302
4421	-7,946	4,002	4,776	9,610	-236,041	-471,729
4447	-6,860	4,002	1,354	2,830	-277,284	-554,034
4451	-6,131	4,002	-1,658	-3,157	-308,141	-615,641
4452	-6,374	4,002	-583,069	-1,019	-297,564	-594,520
4453	-6,617	4,002	419,650	973,980	-287,281	-573,988
4505	20,000	-3,195	0,000	0,000	-146,568	-293,891
4509	20,000	-2,595	0,000	0,000	-147,722	-296,242
4510	20,000	-1,995	0,000	0,000	-148,594	-298,028
4511	20,000	-1,395	0,000	0,000	-149,204	-299,291
4589	0,000	0,001	-59,652	-119,053	-662,802	-1,326

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
4590	0,000	0,073	-59,878	-119,505	-662,908	-1,326
4591	0,000	0,144	-60,105	-119,957	-663,014	-1,326
4592	0,000	0,215	-60,333	-120,409	-663,122	-1,326
4631	-7,660	8,000	117,516	233,469	-250,285	-500,632
4635	-6,762	8,000	122,982	244,180	-283,591	-566,929
4636	-7,062	8,000	121,204	240,783	-272,019	-543,998
4637	-7,361	8,000	119,271	237,097	-260,952	-521,934
4685	0,000	0,287	-60,560	-120,863	-663,230	-1,326
4686	0,000	0,358	-60,788	-121,316	-663,339	-1,327
4687	0,000	0,430	-61,016	-121,770	-663,449	-1,327
4688	0,000	0,501	-61,244	-122,224	-663,559	-1,327
4847	-5,234	4,002	-6,319	-12,442	-349,785	-698,835
4848	-5,452	4,002	-5,078	-9,968	-339,278	-677,839
4849	-5,670	4,002	-3,909	-7,640	-329,023	-657,351
4850	-5,888	4,002	-2,809	-5,448	-319,017	-637,362
4857	-5,016	4,002	-7,636	-15,067	-360,548	-720,346
4858	-4,429	4,003	-11,586	-22,950	-390,785	-780,800
4859	-4,625	4,003	-10,200	-20,183	-380,494	-760,221
4860	-4,820	4,002	-8,884	-17,557	-370,415	-740,071
4993	-3,709	4,003	-17,363	-34,489	-430,614	-860,467
4994	-3,884	4,003	-15,859	-31,482	-420,666	-840,565
4995	-4,059	4,003	-14,420	-28,609	-410,892	-821,012
4999	-4,234	4,003	-13,046	-25,865	-401,291	-801,810
5015	-3,534	4,003	-18,937	-37,634	-440,736	-880,720
5016	-3,063	4,003	-23,524	-46,808	-468,802	-936,893
5017	-3,220	4,003	-21,936	-43,631	-459,311	-917,894
5018	-3,377	4,003	-20,407	-40,574	-449,955	-899,169
5115	20,000	-0,795	0,000	0,000	-149,579	-300,084
5119	20,000	-0,195	0,000	0,000	-149,756	-300,479
5120	20,000	0,406	0,000	0,000	-149,779	-300,564
5121	20,000	1,006	0,000	0,000	-149,693	-300,429

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
5141	0,000	0,573	-61,472	-122,678	-663,671	-1,327
5142	0,000	0,644	-61,700	-123,132	-663,783	-1,328
5143	0,000	0,716	-61,927	-123,585	-663,895	-1,328
5144	0,000	0,787	-62,154	-124,038	-664,009	-1,328
5151	0,000	0,859	-62,381	-124,489	-664,122	-1,328
5152	0,000	0,930	-62,607	-124,939	-664,236	-1,328
5153	0,000	1,002	-62,832	-125,387	-664,351	-1,329
5154	0,000	1,073	-63,056	-125,834	-664,466	-1,329
5187	0,000	1,216	-63,500	-126,719	-664,697	-1,329
5188	0,000	1,288	-63,720	-127,157	-664,813	-1,330
5189	0,000	1,359	-63,938	-127,592	-664,930	-1,330
5193	0,000	1,145	-63,279	-126,278	-664,582	-1,329
5203	0,000	1,430	-64,154	-128,022	-665,046	-1,330
5204	0,000	1,502	-64,368	-128,448	-665,163	-1,330
5205	0,000	1,573	-64,579	-128,869	-665,279	-1,331
5206	0,000	1,645	-64,787	-129,284	-665,396	-1,331
5213	-6,463	8,000	124,064	246,736	-295,599	-590,664
5217	-5,644	8,000	126,417	252,287	-329,656	-658,715
5218	-5,917	8,000	125,699	250,647	-318,004	-635,417
5219	-6,190	8,000	124,894	248,773	-306,652	-612,735
5277	-5,371	8,000	127,008	253,646	-341,625	-682,647
5281	-4,625	8,000	127,830	255,714	-376,017	-751,408
5282	-4,873	8,000	127,693	255,306	-364,284	-727,949
5283	-5,122	8,000	127,417	254,613	-352,821	-705,030
5287	0,000	1,788	-65,193	-130,094	-665,630	-1,331
5288	0,000	1,859	-65,390	-130,487	-665,747	-1,331
5289	0,000	1,931	-65,583	-130,872	-665,864	-1,332
5293	0,000	1,716	-64,991	-129,692	-665,513	-1,331
5309	0,000	2,002	-65,771	-131,248	-665,981	-1,332
5313	0,000	2,074	-65,953	-131,613	-666,098	-1,332
5314	0,000	2,145	-66,130	-131,966	-666,214	-1,332

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
5315	0,000	2,217	-66,301	-132,307	-666,330	-1,333
5351	-2,483	4,003	-29,914	-59,595	-504,937	-1,009
5352	-2,624	4,003	-28,284	-56,332	-496,002	-991,347
5353	-2,765	4,003	-26,703	-53,169	-487,164	-973,651
5357	-2,906	4,003	-25,173	-50,107	-478,427	-956,159
5373	-2,343	4,003	-31,595	-62,960	-513,966	-1,027
5374	-1,964	4,003	-36,363	-72,504	-538,666	-1,077
5375	-2,091	4,003	-34,734	-69,243	-530,369	-1,060
5376	-2,217	4,003	-33,145	-66,061	-522,134	-1,044
5437	20,000	1,606	0,000	0,000	-149,552	-300,179
5441	20,000	2,206	0,000	0,000	-149,412	-299,930
5442	20,000	2,806	0,000	0,000	-149,341	-299,816
5443	20,000	3,406	0,000	0,000	-149,404	-299,966
5599	0,000	2,360	-66,621	-132,947	-666,562	-1,333
5600	0,000	2,431	-66,769	-133,243	-666,678	-1,333
5601	0,000	2,502	-66,908	-133,522	-666,793	-1,334
5605	0,000	2,288	-66,465	-132,634	-666,447	-1,333
5621	0,000	2,574	-67,038	-133,782	-666,908	-1,334
5622	0,000	2,645	-67,157	-134,022	-667,022	-1,334
5623	0,000	2,717	-67,266	-134,239	-667,136	-1,334
5624	0,000	2,788	-67,362	-134,432	-667,250	-1,334
5679	-4,376	8,000	127,820	255,827	-388,024	-775,416
5683	-3,695	8,000	127,012	254,573	-422,295	-843,937
5684	-3,922	8,000	127,410	255,248	-410,635	-820,624
5685	-4,149	8,000	127,679	255,666	-399,213	-797,786
5727	20,000	4,007	0,000	0,000	-149,667	-300,511
5728	19,416	4,006	-215,650	-359,914	-150,327	-301,819
5729	18,833	4,006	-405,506	-666,328	-152,306	-305,747
5730	18,249	4,006	-548,858	-870,868	-155,611	-312,312
5731	20,000	4,506	0,000	0,000	-150,089	-301,367
5732	20,000	5,005	0,000	0,000	-150,729	-302,665

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
5733	20,000	5,504	0,000	0,000	-151,610	-304,462
5753	-3,468	8,000	126,483	253,642	-434,199	-867,738
5757	-2,848	8,000	124,391	249,830	-468,074	-935,469
5758	-3,055	8,000	125,191	251,299	-456,559	-912,446
5759	-3,261	8,000	125,889	252,573	-445,271	-889,876
5769	20,000	6,003	0,000	0,000	-152,748	-306,806
5773	20,000	6,502	0,000	0,000	-154,519	-310,105
5774	20,000	7,002	0,000	0,000	-156,359	-313,820
5775	20,000	7,501	0,000	0,000	-158,917	-318,623
5776	20,000	8,000	0,000	0,000	-160,368	-322,701
5777	19,375	8,000	-8,059	-16,302	-160,765	-323,815
5778	18,750	8,000	-17,630	-34,110	-162,768	-327,977
5779	18,125	8,000	-27,263	-51,967	-166,735	-335,556
5815	-1,499	4,003	-42,702	-85,192	-569,709	-1,139
5816	-1,612	4,003	-41,115	-82,017	-562,114	-1,124
5817	-1,725	4,003	-39,558	-78,900	-554,549	-1,109
5821	-1,838	4,003	-38,031	-75,842	-547,019	-1,094
5837	-1,386	4,003	-44,316	-88,423	-577,328	-1,154
5841	-1,082	4,003	-48,788	-97,369	-597,872	-1,195
5842	-1,183	4,003	-47,277	-94,347	-591,020	-1,182
5843	-1,285	4,003	-45,786	-91,364	-584,170	-1,168
6021	0,000	2,931	-67,513	-134,739	-667,475	-1,335
6022	0,000	3,003	-67,567	-134,848	-667,587	-1,335
6023	0,000	3,074	-67,605	-134,925	-667,698	-1,335
6027	0,000	2,860	-67,445	-134,600	-667,362	-1,335
6043	0,000	3,146	-67,624	-134,967	-667,808	-1,336
6047	0,000	3,217	-67,625	-134,971	-667,918	-1,336
6048	0,000	3,289	-67,606	-134,936	-668,027	-1,336
6049	0,000	3,360	-67,565	-134,857	-668,135	-1,336
6085	15,103	4,006	868,151	2,424	-197,158	-395,169
6086	14,634	4,006	1,609	3,954	-207,058	-414,940

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
6087	14,165	4,006	2,542	5,861	-218,028	-436,848
6091	15,572	4,006	301,553	1,233	-188,284	-377,449
6092	17,142	4,006	-586,907	-770,610	-165,561	-332,115
6093	16,619	4,006	-436,595	-392,038	-171,983	-344,916
6094	16,095	4,006	-149,318	259,093	-179,545	-360,003
6101	17,665	4,006	-625,960	-925,328	-160,267	-321,557
6111	17,500	8,000	-34,884	-67,794	-173,149	-347,059
6115	16,875	8,000	-40,933	-82,022	-178,788	-359,296
6116	16,250	8,000	-50,598	-99,827	-186,571	-375,231
6117	15,625	8,000	-60,202	-117,508	-196,920	-395,341
6149	-2,641	8,000	123,495	248,176	-479,828	-958,972
6153	-2,075	8,000	120,607	242,835	-513,350	-1,026
6154	-2,264	8,000	121,634	244,734	-501,934	-1,003
6155	-2,452	8,000	122,599	246,519	-490,767	-980,845
6159	-1,887	8,000	119,524	240,840	-525,040	-1,049
6163	-1,371	8,000	116,339	235,046	-558,706	-1,117
6164	-1,543	8,000	117,433	237,020	-547,173	-1,094
6165	-1,715	8,000	118,495	238,955	-535,964	-1,071
6191	-0,708	4,003	-54,517	-108,826	-623,052	-1,246
6192	-0,799	4,003	-53,104	-106,001	-616,960	-1,234
6193	-0,890	4,003	-51,704	-103,201	-610,847	-1,221
6197	-0,618	4,003	-55,943	-111,676	-629,117	-1,258
6198	-0,373	4,003	-59,834	-119,450	-645,238	-1,290
6199	-0,455	4,003	-58,528	-116,841	-639,900	-1,280
6200	-0,536	4,003	-57,231	-114,250	-634,525	-1,269
6207	-0,981	4,003	-50,317	-100,429	-604,720	-1,209
6297	0,000	3,503	-67,412	-134,557	-668,349	-1,337
6298	0,000	3,574	-67,296	-134,329	-668,454	-1,337
6299	0,000	3,646	-67,151	-134,044	-668,559	-1,337
6303	0,000	3,432	-67,501	-134,731	-668,242	-1,336
6313	0,000	3,717	-66,977	-133,699	-668,663	-1,337

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
6317	0,000	3,789	-66,769	-133,289	-668,765	-1,338
6318	0,000	3,860	-66,527	-132,810	-668,867	-1,338
6319	0,000	3,932	-66,248	-132,258	-668,967	-1,338
6391	15,000	8,000	-65,763	-131,046	-208,789	-418,646
6395	14,375	8,000	-74,575	-147,730	-221,097	-443,984
6396	13,750	8,000	-83,398	-164,852	-236,218	-474,072
6397	13,125	8,000	-91,812	-181,423	-253,324	-508,332
6401	-1,199	8,000	115,216	233,038	-570,602	-1,141
6405	-0,728	8,000	111,950	227,346	-605,572	-1,211
6406	-0,885	8,000	113,096	229,318	-593,460	-1,186
6407	-1,042	8,000	114,173	231,196	-581,824	-1,163
6439	-0,292	4,003	-61,148	-122,076	-650,533	-1,301
6440	-0,073	4,003	-64,724	-129,219	-664,509	-1,329
6441	-0,146	4,003	-63,525	-126,824	-659,897	-1,320
6442	-0,219	4,003	-62,333	-124,444	-655,237	-1,310
6449	0,000	4,003	-65,930	-131,627	-669,066	-1,338
6450	0,000	4,080	-65,543	-130,859	-669,171	-1,338
6451	0,000	4,156	-65,104	-129,988	-669,275	-1,339
6452	0,000	4,233	-64,611	-129,008	-669,377	-1,339
6453	0,219	4,003	-68,647	-137,037	-686,298	-1,372
6454	0,146	4,003	-67,863	-135,477	-680,618	-1,361
6455	0,073	4,003	-66,958	-133,674	-674,872	-1,350
6481	11,638	4,005	11,651	24,105	-298,122	-596,631
6482	11,261	4,005	13,673	28,133	-313,531	-627,335
6483	10,884	4,005	15,871	32,513	-329,968	-660,081
6487	12,015	4,005	9,808	20,433	-283,693	-567,872
6488	13,276	4,005	4,911	10,646	-241,966	-484,640
6489	12,855	4,005	6,332	13,494	-254,807	-510,265
6490	12,435	4,005	7,962	16,751	-268,697	-537,973
6497	13,696	4,006	3,687	8,182	-230,121	-460,995
6563	8,854	4,005	30,028	60,797	-438,246	-875,914

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
6564	8,551	4,005	32,240	65,221	-457,488	-914,313
6565	8,248	4,005	34,365	69,470	-477,569	-954,400
6569	9,157	4,005	27,782	56,306	-419,840	-839,197
6570	10,170	4,005	20,485	41,720	-364,131	-728,143
6571	9,832	4,005	22,844	46,431	-381,720	-763,193
6572	9,494	4,005	25,287	51,316	-400,279	-800,190
6579	10,508	4,005	18,236	37,230	-347,481	-694,969
6606	12,500	8,000	-99,899	-197,057	-272,619	-546,967
6610	11,875	8,000	-107,846	-212,482	-294,223	-590,030
6611	11,250	8,000	-116,025	-228,181	-318,354	-638,218
6612	10,625	8,000	-124,601	-243,962	-345,518	-692,362
6653	0,292	4,003	-69,311	-138,358	-691,906	-1,384
6654	0,536	4,003	-70,677	-141,069	-710,079	-1,420
6655	0,455	4,003	-70,366	-140,455	-704,131	-1,408
6656	0,373	4,003	-69,912	-139,552	-698,071	-1,396
6663	0,000	4,310	-64,060	-127,912	-669,478	-1,339
6664	0,000	4,393	-63,388	-126,576	-669,586	-1,339
6665	0,000	4,477	-62,637	-125,082	-669,692	-1,339
6666	0,000	4,560	-61,802	-123,421	-669,796	-1,340
6673	0,618	4,003	-70,845	-141,399	-715,906	-1,432
6674	0,890	4,003	-70,400	-140,493	-734,438	-1,468
6675	0,799	4,003	-70,718	-141,133	-728,437	-1,456
6676	0,708	4,003	-70,867	-141,438	-722,256	-1,444
6689	-0,572	8,000	110,682	225,185	-618,218	-1,236
6693	-0,143	8,000	105,595	216,461	-656,782	-1,314
6694	-0,286	8,000	107,957	220,572	-643,162	-1,286
6695	-0,429	8,000	109,499	223,194	-630,346	-1,260
6699	6,617	4,004	40,864	82,404	-598,567	-1,196
6700	6,374	4,004	40,471	81,599	-617,834	-1,235
6701	6,131	4,004	39,538	79,713	-637,129	-1,273
6705	6,860	4,004	40,783	82,257	-579,459	-1,158

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
6706	7,674	4,005	37,911	76,550	-517,894	-1,035
6707	7,403	4,004	39,229	79,176	-537,909	-1,075
6708	7,132	4,004	40,214	81,134	-558,460	-1,116
6715	7,946	4,005	36,338	73,410	-498,476	-996,150
6837	0,000	5,513	-44,423	-88,695	-670,824	-1,342
6838	0,000	5,622	-41,289	-82,413	-670,920	-1,342
6839	0,000	5,730	-37,866	-75,547	-671,011	-1,342
6843	0,000	5,956	-29,720	-59,181	-671,185	-1,342
6844	0,000	6,074	-24,910	-49,503	-671,267	-1,343
6845	0,000	6,192	-19,699	-39,007	-671,343	-1,343
6849	0,000	5,838	-34,141	-68,068	-671,097	-1,342
6859	0,000	6,311	-14,080	-27,674	-671,413	-1,343
6860	0,000	6,439	-7,482	-14,346	-671,482	-1,343
6861	0,000	6,568	-392,366	-3,925	-671,543	-1,343
6862	0,000	6,697	7,179	15,340	-671,597	-1,343
6869	0,000	6,966	24,476	50,500	-671,687	-1,343
6870	0,000	7,107	34,208	70,349	-671,722	-1,343
6871	0,000	7,247	44,344	91,080	-671,748	-1,344
6875	0,000	6,826	15,216	31,657	-671,644	-1,343
6885	0,000	7,387	54,805	112,536	-671,768	-1,344
6886	0,000	8,000	101,988	210,039	-671,797	-1,344
6887	0,000	7,541	66,473	136,546	-671,784	-1,344
6888	0,000	7,694	78,283	160,938	-671,793	-1,344
6889	0,000	7,847	90,134	185,482	-671,797	-1,344
6893	0,750	8,000	150,714	297,348	-820,041	-1,638
6894	0,500	8,000	146,213	285,924	-760,009	-1,518
6895	0,250	8,000	135,300	263,910	-711,477	-1,422
6899	2,217	4,004	-49,231	-98,106	-795,789	-1,591
6900	2,091	4,004	-52,347	-104,341	-792,432	-1,584
6901	1,964	4,004	-55,277	-110,205	-788,502	-1,576
6905	2,343	4,004	-45,949	-91,537	-798,559	-1,596

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
6906	2,765	4,004	-34,008	-67,641	-803,427	-1,606
6907	2,624	4,004	-38,125	-75,879	-802,568	-1,604
6908	2,483	4,004	-42,114	-83,864	-800,942	-1,601
6915	3,377	4,004	-15,354	-30,302	-798,223	-1,595
6916	3,220	4,004	-20,186	-39,975	-800,936	-1,601
6917	3,063	4,004	-25,012	-49,637	-802,704	-1,604
6921	2,906	4,004	-29,794	-59,207	-803,516	-1,606
6931	3,534	4,004	-10,554	-20,694	-794,584	-1,588
6932	4,059	4,004	4,791	10,035	-776,004	-1,551
6933	3,884	4,004	-155,185	128,871	-783,247	-1,565
6934	3,709	4,004	-5,286	-10,145	-789,457	-1,578
6941	4,820	4,004	23,201	46,921	-734,088	-1,467
6942	4,625	4,004	19,036	38,574	-746,279	-1,491
6943	4,429	4,004	14,461	29,405	-757,548	-1,514
6947	4,234	4,004	9,510	19,487	-767,786	-1,535
6957	5,016	4,004	26,928	54,393	-721,090	-1,441
6958	5,670	4,004	36,078	72,755	-673,228	-1,345
6959	5,452	4,004	33,599	67,776	-689,773	-1,378
6960	5,234	4,004	30,550	61,658	-705,780	-1,411
6967	5,888	4,004	38,005	76,628	-656,298	-1,312
6977	10,000	8,000	-132,613	-258,797	-377,057	-754,084
6981	9,375	8,000	-136,958	-269,655	-411,475	-822,319
6982	8,750	8,000	-142,047	-280,925	-449,693	-898,667
6983	8,125	8,000	-147,263	-291,934	-493,076	-985,462
6987	1,285	4,003	-67,151	-133,974	-758,197	-1,516
6988	1,183	4,003	-68,265	-136,207	-752,485	-1,504
6989	1,082	4,003	-69,189	-138,060	-746,498	-1,493
6993	0,981	4,003	-69,918	-139,522	-740,250	-1,480
7003	1,386	4,003	-65,853	-131,374	-763,622	-1,527
7004	1,725	4,004	-60,261	-120,179	-779,531	-1,558
7005	1,612	4,004	-62,329	-124,318	-774,628	-1,549

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
7006	1,499	4,004	-64,196	-128,056	-769,320	-1,538
7013	1,838	4,004	-58,004	-115,662	-784,014	-1,567
7049	0,000	4,735	-59,762	-119,356	-670,007	-1,340
7050	0,000	4,826	-58,525	-116,889	-670,114	-1,340
7051	0,000	4,917	-57,159	-114,164	-670,217	-1,340
7055	0,000	4,644	-60,878	-121,581	-669,898	-1,340
7075	0,000	5,008	-55,656	-111,163	-670,318	-1,341
7076	0,000	5,107	-53,850	-107,557	-670,425	-1,341
7077	0,000	5,206	-51,860	-103,580	-670,528	-1,341
7078	0,000	5,306	-49,675	-99,209	-670,628	-1,341
7085	0,000	5,405	-47,282	-94,421	-670,724	-1,341
7155	7,500	8,000	-152,154	-302,129	-543,569	-1,086
7160	1,000	8,000	145,151	287,841	-910,192	-1,818
7188	6,875	8,000	-155,529	-309,254	-602,621	-1,205
7192	6,250	8,000	-160,037	-318,590	-673,667	-1,347
7193	5,625	8,000	-163,996	-326,794	-766,177	-1,532
7194	5,000	8,000	-159,275	-317,616	-928,243	-1,856
7204	2,500	8,000	31,793	63,395	-1,157	-2,312
7208	2,000	8,000	73,696	146,869	-1,119	-2,236
7209	1,500	8,000	112,315	223,505	-1,046	-2,091
7213	3,000	8,000	-8,015	-15,938	-1,170	-2,339
7227	4,500	8,000	-127,405	-254,079	-1,062	-2,123
7228	4,000	8,000	-88,154	-175,780	-1,127	-2,253
7230	3,500	8,000	-47,405	-94,490	-1,161	-2,320

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

10. Results for phase 5

Table [14] Table of deformations phase no: 5

Node No.	x-coord.	y-coord.	dUx [10⁻⁶ m]	Ux [10⁻⁶ m]	dUy [10⁻⁹ m]	Uy [10⁻⁹ m]
1	-20,000	-18,333	0,000	0,000	-1,376	-2,372
2	-20,000	-18,889	0,000	0,000	-875,765	-1,510
3	-20,000	-19,444	0,000	0,000	-416,002	-717,301
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	-3,726	-6,422
18	-20,000	-16,667	0,000	0,000	-3,091	-5,328
19	-20,000	-17,222	0,000	0,000	-2,486	-4,285
26	-20,000	-17,778	0,000	0,000	-1,914	-3,299
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
49	-20,000	-15,556	0,000	0,000	-4,388	-7,564
53	-20,000	-13,889	0,000	0,000	-6,524	-11,244
54	-20,000	-14,444	0,000	0,000	-5,789	-9,978
55	-20,000	-15,000	0,000	0,000	-5,077	-8,750
59	-15,294	-20,000	0,000	0,000	0,000	0,000
63	-14,706	-20,000	0,000	0,000	0,000	0,000
64	-14,118	-20,000	0,000	0,000	0,000	0,000
65	-13,529	-20,000	0,000	0,000	0,000	0,000
125	-20,000	-13,333	0,000	0,000	-7,278	-12,545
129	-20,000	-11,667	0,000	0,000	-9,638	-16,617
130	-20,000	-12,222	0,000	0,000	-8,837	-15,235

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
131	-20,000	-12,778	0,000	0,000	-8,050	-13,876
215	-12,941	-20,000	0,000	0,000	0,000	0,000
219	-12,353	-20,000	0,000	0,000	0,000	0,000
220	-11,765	-20,000	0,000	0,000	0,000	0,000
221	-11,176	-20,000	0,000	0,000	0,000	0,000
225	-10,588	-20,000	0,000	0,000	0,000	0,000
229	-10,000	-20,000	0,000	0,000	0,000	0,000
230	-9,412	-20,000	0,000	0,000	0,000	0,000
231	-8,824	-20,000	0,000	0,000	0,000	0,000
263	-20,000	-11,111	0,000	0,000	-10,449	-18,018
264	-20,000	-9,444	0,000	0,000	-12,915	-22,281
265	-20,000	-10,000	0,000	0,000	-12,091	-20,856
266	-20,000	-10,556	0,000	0,000	-11,268	-19,432
407	-8,235	-20,000	0,000	0,000	0,000	0,000
411	-7,647	-20,000	0,000	0,000	0,000	0,000
412	-7,059	-20,000	0,000	0,000	0,000	0,000
413	-6,471	-20,000	0,000	0,000	0,000	0,000
417	-20,000	-8,889	0,000	0,000	-13,736	-23,703
421	-20,000	-7,222	0,000	0,000	-16,136	-27,869
422	-20,000	-7,778	0,000	0,000	-15,351	-26,505
423	-20,000	-8,333	0,000	0,000	-14,549	-25,113
471	-5,882	-20,000	0,000	0,000	0,000	0,000
475	-5,294	-20,000	0,000	0,000	0,000	0,000
476	-4,706	-20,000	0,000	0,000	0,000	0,000
477	-4,118	-20,000	0,000	0,000	0,000	0,000
625	-20,000	-6,667	0,000	0,000	-16,898	-29,197
626	-20,000	-5,000	0,000	0,000	-18,996	-32,868
627	-20,000	-5,556	0,000	0,000	-18,334	-31,707
628	-20,000	-6,111	0,000	0,000	-17,633	-30,480
785	-3,529	-20,000	0,000	0,000	0,000	0,000
789	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
790	-2,353	-20,000	0,000	0,000	0,000	0,000
791	-1,765	-20,000	0,000	0,000	0,000	0,000
795	-1,176	-20,000	0,000	0,000	0,000	0,000
799	-0,588	-20,000	0,000	0,000	0,000	0,000
800	0,000	-20,000	0,000	0,000	0,000	0,000
801	0,588	-20,000	0,000	0,000	0,000	0,000
830	-20,000	-4,444	0,000	0,000	-19,611	-33,954
831	-20,000	-2,778	0,000	0,000	-21,123	-36,656
832	-20,000	-3,333	0,000	0,000	-20,680	-35,857
833	-20,000	-3,889	0,000	0,000	-20,175	-34,953
1057	1,765	-20,000	0,000	0,000	0,000	0,000
1058	2,353	-20,000	0,000	0,000	0,000	0,000
1059	2,941	-20,000	0,000	0,000	0,000	0,000
1063	1,176	-20,000	0,000	0,000	0,000	0,000
1067	3,529	-20,000	0,000	0,000	0,000	0,000
1071	4,118	-20,000	0,000	0,000	0,000	0,000
1072	4,706	-20,000	0,000	0,000	0,000	0,000
1073	5,294	-20,000	0,000	0,000	0,000	0,000
1133	5,882	-20,000	0,000	0,000	0,000	0,000
1134	6,471	-20,000	0,000	0,000	0,000	0,000
1135	7,059	-20,000	0,000	0,000	0,000	0,000
1136	7,647	-20,000	0,000	0,000	0,000	0,000
1143	8,235	-20,000	0,000	0,000	0,000	0,000
1147	8,824	-20,000	0,000	0,000	0,000	0,000
1148	9,412	-20,000	0,000	0,000	0,000	0,000
1149	10,000	-20,000	0,000	0,000	0,000	0,000
1165	-20,000	-2,222	0,000	0,000	-21,498	-37,343
1166	-20,000	-0,556	0,000	0,000	-22,183	-38,677
1167	-20,000	-1,111	0,000	0,000	-22,029	-38,356
1168	-20,000	-1,667	0,000	0,000	-21,801	-37,911
1352	-20,000	0,000	0,000	0,000	-22,262	-38,876

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
1353	-20,000	1,500	0,000	0,000	-22,147	-38,892
1354	-20,000	1,000	0,000	0,000	-22,232	-38,959
1355	-20,000	0,500	0,000	0,000	-22,272	-38,959
1505	11,176	-20,000	0,000	0,000	0,000	0,000
1506	11,765	-20,000	0,000	0,000	0,000	0,000
1507	12,353	-20,000	0,000	0,000	0,000	0,000
1511	10,588	-20,000	0,000	0,000	0,000	0,000
1515	12,941	-20,000	0,000	0,000	0,000	0,000
1519	13,529	-20,000	0,000	0,000	0,000	0,000
1520	14,118	-20,000	0,000	0,000	0,000	0,000
1521	14,706	-20,000	0,000	0,000	0,000	0,000
1531	15,294	-20,000	0,000	0,000	0,000	0,000
1535	15,882	-20,000	0,000	0,000	0,000	0,000
1536	16,471	-20,000	0,000	0,000	0,000	0,000
1537	17,059	-20,000	0,000	0,000	0,000	0,000
1585	17,647	-20,000	0,000	0,000	0,000	0,000
1589	18,235	-20,000	0,000	0,000	0,000	0,000
1590	18,824	-20,000	0,000	0,000	0,000	0,000
1591	19,412	-20,000	0,000	0,000	0,000	0,000
1592	20,000	-20,000	0,000	0,000	0,000	0,000
1593	20,000	-19,400	0,000	0,000	-460,130	-784,759
1594	20,000	-18,800	0,000	0,000	-965,313	-1,647
1595	20,000	-18,200	0,000	0,000	-1,512	-2,580
1871	-20,000	3,500	0,000	0,000	-21,683	-38,548
1872	-20,000	3,000	0,000	0,000	-21,776	-38,565
1873	-20,000	2,500	0,000	0,000	-21,901	-38,659
1877	-20,000	2,000	0,000	0,000	-22,029	-38,778
1881	-20,000	4,000	0,000	0,000	-21,648	-38,665
1882	-18,249	4,000	-5,536	-9,401	-19,634	-34,627
1883	-18,833	4,000	-3,502	-5,884	-20,697	-36,744
1884	-19,416	4,000	-1,696	-2,826	-21,410	-38,180

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
1885	-20,000	5,500	0,000	0,000	-22,423	-40,910
1886	-20,000	5,000	0,000	0,000	-21,910	-39,618
1887	-20,000	4,500	0,000	0,000	-21,703	-38,978
2009	20,000	-17,599	0,000	0,000	-2,096	-3,578
2013	20,000	-16,999	0,000	0,000	-2,715	-4,635
2014	20,000	-16,399	0,000	0,000	-3,365	-5,746
2015	20,000	-15,799	0,000	0,000	-4,043	-6,905
2019	-16,095	4,001	-14,860	-25,796	-17,333	-30,029
2020	-16,619	4,001	-12,533	-21,724	-17,453	-30,308
2021	-17,142	4,000	-10,197	-17,615	-17,865	-31,137
2031	-17,665	4,000	-7,915	-13,589	-18,557	-32,502
2047	-20,000	8,000	0,000	0,000	-67,831	-133,254
2048	-20,000	7,500	0,000	0,000	-48,601	-93,570
2049	-20,000	7,000	0,000	0,000	-39,750	-76,517
2050	-20,000	6,500	0,000	0,000	-31,348	-59,380
2051	-18,285	8,000	30,545	61,347	-15,922	-27,338
2052	-18,857	8,000	-5,090	-15,143	12,412	26,053
2053	-19,428	8,000	-101,296	-201,013	-15,542	-30,821
2057	-20,000	6,000	0,000	0,000	-23,481	-43,361
2061	-17,713	8,000	-57,977	-107,331	-39,144	-74,496
2065	-16,150	8,000	81,695	161,296	-12,183	-22,374
2066	-16,671	8,000	11,086	21,385	29,553	57,511
2067	-17,192	8,000	-99,651	-189,120	14,182	26,874
2363	20,000	-15,199	0,000	0,000	-4,746	-8,108
2367	20,000	-14,599	0,000	0,000	-5,472	-9,349
2368	20,000	-13,998	0,000	0,000	-6,216	-10,624
2369	20,000	-13,398	0,000	0,000	-6,977	-11,926
2427	-15,572	4,001	-17,129	-29,738	-17,450	-30,184
2431	-14,165	4,001	-22,907	-39,637	-18,301	-31,507
2432	-14,634	4,001	-21,013	-36,410	-17,972	-31,002
2433	-15,103	4,001	-19,093	-33,122	-17,681	-30,546

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
2525	-15,628	8,000	-60,205	-114,772	-52,793	-101,690
2529	-14,203	8,000	47,997	97,718	-6,808	-11,802
2530	-14,678	8,000	-16,362	-29,300	21,142	42,242
2531	-15,153	8,000	-98,631	-188,253	1,548	3,457
2803	20,000	-12,798	0,000	0,000	-7,750	-13,251
2807	20,000	-12,198	0,000	0,000	-8,533	-14,592
2808	20,000	-11,598	0,000	0,000	-9,321	-15,944
2809	20,000	-10,998	0,000	0,000	-10,110	-17,298
2829	-13,696	4,001	-24,784	-42,821	-18,636	-32,000
2830	-12,435	4,001	-29,825	-51,339	-19,388	-32,943
2831	-12,855	4,001	-28,124	-48,463	-19,184	-32,731
2832	-13,276	4,001	-26,454	-45,645	-18,935	-32,421
2839	-13,727	8,000	-35,141	-62,924	-39,378	-76,034
2843	-12,428	8,000	7,467	22,887	-23,960	-42,890
2844	-12,861	8,000	-5,810	-10,965	4,673	11,532
2845	-13,294	8,000	-82,353	-158,066	-5,361	-9,988
3247	-12,015	4,001	-31,578	-54,314	-19,570	-33,106
3251	-10,884	4,001	-36,556	-62,832	-20,170	-33,771
3252	-11,261	4,001	-34,861	-59,921	-19,930	-33,466
3253	-11,638	4,001	-33,197	-57,074	-19,736	-33,257
3305	-11,994	8,000	-148,097	-278,762	-25,396	-49,895
3306	-10,809	8,000	-40,675	-71,065	-9,587	-15,108
3307	-11,204	8,000	-27,216	-47,468	-3,485	-3,262
3308	-11,599	8,000	-48,903	-92,829	10,043	21,000
3441	20,000	-10,397	0,000	0,000	-10,896	-18,648
3442	20,000	-9,797	0,000	0,000	-11,674	-19,986
3443	20,000	-9,197	0,000	0,000	-12,439	-21,303
3444	20,000	-8,597	0,000	0,000	-13,184	-22,588
3483	0,000	-1,929	-1,371	-2,451	102,909	175,287
3484	0,000	-1,857	-1,383	-2,473	102,919	175,305
3485	0,000	-1,786	-1,394	-2,494	102,932	175,326

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
3489	0,000	-1,714	-1,405	-2,515	102,947	175,351
3490	0,000	-1,643	-1,416	-2,536	102,964	175,380
3491	0,000	-1,571	-1,427	-2,556	102,982	175,411
3492	0,000	-1,500	-1,438	-2,577	103,002	175,445
3515	0,000	-2,000	-1,359	-2,429	102,901	175,273
3525	0,000	-1,357	-1,459	-2,618	103,046	175,520
3526	0,000	-1,285	-1,470	-2,639	103,070	175,561
3527	0,000	-1,214	-1,481	-2,659	103,095	175,604
3531	0,000	-1,428	-1,449	-2,598	103,023	175,481
3547	0,000	-1,142	-1,491	-2,680	103,122	175,649
3548	0,000	-1,071	-1,502	-2,700	103,150	175,696
3549	0,000	-0,999	-1,512	-2,720	103,179	175,745
3550	0,000	-0,928	-1,523	-2,739	103,209	175,796
3633	20,000	-7,997	0,000	0,000	-13,905	-23,833
3637	20,000	-7,397	0,000	0,000	-14,594	-25,025
3638	20,000	-6,796	0,000	0,000	-15,244	-26,154
3639	20,000	-6,196	0,000	0,000	-15,849	-27,207
3789	-10,508	4,002	-38,263	-65,768	-20,464	-34,195
3790	-9,494	4,002	-42,762	-73,498	-21,482	-35,858
3791	-9,832	4,002	-41,291	-70,975	-21,119	-35,241
3792	-10,170	4,002	-39,788	-68,390	-20,776	-34,680
3809	-10,414	8,000	-38,122	-65,456	-8,041	-12,217
3813	-9,334	8,000	-42,902	-69,954	-11,473	-18,791
3814	-9,694	8,000	-50,459	-86,160	-8,790	-13,192
3815	-10,054	8,000	-48,214	-83,692	-10,244	-16,062
3835	-9,157	4,002	-44,190	-75,941	-21,850	-36,500
3839	-8,248	4,002	-47,722	-81,949	-22,728	-38,097
3840	-8,551	4,002	-46,604	-80,053	-22,466	-37,611
3841	-8,854	4,002	-45,423	-78,044	-22,169	-37,070
3993	0,000	-0,785	-1,543	-2,778	103,272	175,904
3994	0,000	-0,714	-1,553	-2,798	103,305	175,961

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
3995	0,000	-0,642	-1,562	-2,816	103,340	176,019
3999	0,000	-0,857	-1,533	-2,759	103,240	175,849
4009	0,000	-0,571	-1,572	-2,835	103,375	176,080
4013	0,000	-0,499	-1,581	-2,853	103,412	176,142
4014	0,000	-0,428	-1,590	-2,870	103,449	176,205
4015	0,000	-0,356	-1,598	-2,887	103,488	176,271
4189	20,000	-5,596	0,000	0,000	-16,402	-28,173
4193	20,000	-4,996	0,000	0,000	-16,895	-29,039
4194	20,000	-4,396	0,000	0,000	-17,320	-29,794
4195	20,000	-3,796	0,000	0,000	-17,672	-30,424
4215	0,000	-0,213	-1,614	-2,919	103,567	176,407
4216	0,000	-0,142	-1,621	-2,933	103,609	176,477
4217	0,000	-0,070	-1,627	-2,947	103,651	176,549
4221	0,000	-0,285	-1,606	-2,903	103,527	176,338
4303	-8,974	8,000	-61,338	-105,799	-17,602	-30,963
4307	-7,989	8,000	-54,689	-88,928	-10,918	-17,670
4308	-8,317	8,000	-66,573	-113,526	-7,054	-9,886
4309	-8,645	8,000	-73,195	-128,222	-11,404	-18,448
4415	-7,132	4,002	-51,087	-87,596	-23,119	-38,917
4416	-7,403	4,002	-50,403	-86,458	-23,136	-38,913
4417	-7,674	4,002	-49,625	-85,156	-23,071	-38,765
4421	-7,946	4,002	-48,766	-83,710	-22,939	-38,500
4447	-6,860	4,002	-51,663	-88,549	-23,004	-38,751
4451	-6,131	4,002	-52,553	-89,986	-22,072	-37,215
4452	-6,374	4,002	-52,376	-89,712	-22,498	-37,927
4453	-6,617	4,002	-52,075	-89,225	-22,803	-38,431
4505	20,000	-3,195	0,000	0,000	-17,943	-30,920
4509	20,000	-2,595	0,000	0,000	-18,128	-31,270
4510	20,000	-1,995	0,000	0,000	-18,221	-31,465
4511	20,000	-1,395	0,000	0,000	-18,219	-31,499
4589	0,000	0,001	-1,633	-2,959	103,694	176,623

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
4590	0,000	0,073	-1,638	-2,970	103,739	176,698
4591	0,000	0,144	-1,642	-2,980	103,784	176,775
4592	0,000	0,215	-1,645	-2,988	103,830	176,854
4631	-7,660	8,000	-63,753	-106,018	-19,577	-34,848
4635	-6,762	8,000	-71,484	-116,845	-20,603	-36,141
4636	-7,062	8,000	-74,265	-125,038	-12,421	-19,992
4637	-7,361	8,000	-84,018	-145,718	-14,248	-24,086
4685	0,000	0,287	-1,647	-2,994	103,877	176,934
4686	0,000	0,358	-1,648	-2,998	103,926	177,016
4687	0,000	0,430	-1,647	-2,999	103,975	177,099
4688	0,000	0,501	-1,645	-2,998	104,025	177,184
4847	-5,234	4,002	-51,831	-88,680	-19,179	-32,297
4848	-5,452	4,002	-52,237	-89,387	-20,107	-33,879
4849	-5,670	4,002	-52,483	-89,825	-20,879	-35,192
4850	-5,888	4,002	-52,587	-90,021	-21,512	-36,267
4857	-5,016	4,002	-51,248	-87,675	-18,074	-30,414
4858	-4,429	4,003	-48,664	-83,248	-14,030	-23,520
4859	-4,625	4,003	-49,704	-85,027	-15,573	-26,150
4860	-4,820	4,002	-50,561	-86,495	-16,913	-28,436
4993	-3,709	4,003	-43,030	-73,643	-6,166	-10,130
4994	-3,884	4,003	-44,676	-76,448	-8,436	-13,994
4995	-4,059	4,003	-46,139	-78,942	-10,460	-17,440
4999	-4,234	4,003	-47,426	-81,136	-12,261	-20,506
5015	-3,534	4,003	-41,195	-70,519	-3,628	-5,811
5016	-3,063	4,003	-35,311	-60,505	4,712	8,377
5017	-3,220	4,003	-37,426	-64,104	1,670	3,202
5018	-3,377	4,003	-39,388	-67,443	-1,105	-1,518
5115	20,000	-0,795	0,000	0,000	-18,118	-31,364
5119	20,000	-0,195	0,000	0,000	-17,917	-31,054
5120	20,000	0,406	0,000	0,000	-17,614	-30,567
5121	20,000	1,006	0,000	0,000	-17,216	-29,908

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
5141	0,000	0,573	-1,641	-2,994	104,076	177,271
5142	0,000	0,644	-1,635	-2,987	104,127	177,359
5143	0,000	0,716	-1,626	-2,976	104,180	177,449
5144	0,000	0,787	-1,616	-2,960	104,234	177,540
5151	0,000	0,859	-1,602	-2,940	104,289	177,633
5152	0,000	0,930	-1,586	-2,915	104,345	177,728
5153	0,000	1,002	-1,566	-2,885	104,401	177,825
5154	0,000	1,073	-1,542	-2,848	104,459	177,923
5187	0,000	1,216	-1,483	-2,753	104,577	178,124
5188	0,000	1,288	-1,446	-2,694	104,638	178,227
5189	0,000	1,359	-1,404	-2,626	104,699	178,331
5193	0,000	1,145	-1,515	-2,805	104,517	178,022
5203	0,000	1,430	-1,356	-2,547	104,762	178,438
5204	0,000	1,502	-1,301	-2,458	104,825	178,546
5205	0,000	1,573	-1,240	-2,357	104,890	178,655
5206	0,000	1,645	-1,171	-2,243	104,955	178,767
5213	-6,463	8,000	-112,351	-197,073	-22,503	-40,400
5217	-5,644	8,000	-109,672	-187,822	-15,118	-25,340
5218	-5,917	8,000	-106,415	-182,788	-14,709	-24,642
5219	-6,190	8,000	-106,441	-184,158	-16,617	-28,546
5277	-5,371	8,000	-114,569	-196,001	-15,948	-26,858
5281	-4,625	8,000	-130,954	-223,580	-17,343	-29,177
5282	-4,873	8,000	-124,979	-213,504	-16,798	-28,262
5283	-5,122	8,000	-119,551	-204,370	-16,346	-27,516
5287	0,000	1,788	-1,007	-1,972	105,089	178,995
5288	0,000	1,859	-910,631	-1,813	105,158	179,111
5289	0,000	1,931	-803,899	-1,635	105,228	179,230
5293	0,000	1,716	-1,093	-2,116	105,022	178,880
5309	0,000	2,002	-685,738	-1,438	105,298	179,350
5313	0,000	2,074	-555,242	-1,220	105,370	179,472
5314	0,000	2,145	-411,458	-980,075	105,443	179,596

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
5315	0,000	2,217	-253,383	-715,511	105,517	179,722
5351	-2,483	4,003	-26,287	-45,151	18,490	31,804
5352	-2,624	4,003	-28,642	-49,158	14,753	25,451
5353	-2,765	4,003	-30,899	-52,997	11,271	19,531
5357	-2,906	4,003	-33,048	-56,654	8,038	14,033
5373	-2,343	4,003	-23,845	-40,998	22,485	38,596
5374	-1,964	4,003	-16,965	-29,296	34,508	59,034
5375	-2,091	4,003	-19,296	-33,261	30,296	51,875
5376	-2,217	4,003	-21,594	-37,170	26,287	45,059
5437	20,000	1,606	0,000	0,000	-16,729	-29,087
5441	20,000	2,206	0,000	0,000	-16,111	-28,009
5442	20,000	2,806	0,000	0,000	-15,409	-26,761
5443	20,000	3,406	0,000	0,000	-14,608	-25,300
5599	0,000	2,360	109,889	-106,521	105,668	179,979
5600	0,000	2,431	317,327	241,711	105,745	180,110
5601	0,000	2,502	543,535	621,761	105,823	180,243
5605	0,000	2,288	-79,967	-424,948	105,592	179,849
5621	0,000	2,574	789,737	1,036	105,903	180,378
5622	0,000	2,645	1,057	1,486	105,983	180,516
5623	0,000	2,717	1,347	1,974	106,065	180,655
5624	0,000	2,788	1,661	2,503	106,148	180,796
5679	-4,376	8,000	-137,562	-234,748	-17,963	-30,224
5683	-3,695	8,000	-159,565	-272,013	-19,921	-33,538
5684	-3,922	8,000	-151,497	-258,340	-19,231	-32,370
5685	-4,149	8,000	-144,198	-245,977	-18,574	-31,257
5727	20,000	4,007	0,000	0,000	-13,693	-23,578
5728	19,416	4,006	1,979	3,582	-13,763	-23,759
5729	18,833	4,006	4,022	7,259	-14,001	-24,342
5730	18,249	4,006	5,780	10,326	-14,378	-25,239
5731	20,000	4,506	0,000	0,000	-12,883	-22,012
5732	20,000	5,005	0,000	0,000	-12,064	-20,398

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
5733	20,000	5,504	0,000	0,000	-11,312	-18,915
5753	-3,468	8,000	-168,526	-287,208	-20,622	-34,727
5757	-2,848	8,000	-198,948	-338,828	-22,368	-37,685
5758	-3,055	8,000	-187,681	-319,705	-21,846	-36,800
5759	-3,261	8,000	-177,599	-302,599	-21,250	-35,791
5769	20,000	6,003	0,000	0,000	-10,812	-17,974
5773	20,000	6,502	0,000	0,000	-19,737	-35,050
5774	20,000	7,002	0,000	0,000	-26,067	-47,577
5775	20,000	7,501	0,000	0,000	-32,652	-60,850
5776	20,000	8,000	0,000	0,000	-43,069	-82,542
5777	19,375	8,000	84,866	163,888	-3,556	-4,964
5778	18,750	8,000	13,302	21,089	30,520	60,787
5779	18,125	8,000	-91,807	-182,916	8,869	17,243
5815	-1,499	4,003	-8,336	-14,619	51,618	88,117
5816	-1,612	4,003	-10,410	-18,146	47,258	80,707
5817	-1,725	4,003	-12,507	-21,714	43,019	73,501
5821	-1,838	4,003	-14,616	-25,300	38,914	66,524
5837	-1,386	4,003	-6,299	-11,155	56,082	95,703
5841	-1,082	4,003	-1,110	-2,329	68,419	116,672
5842	-1,183	4,003	-2,784	-5,175	64,271	109,622
5843	-1,285	4,003	-4,516	-8,122	60,152	102,622
6021	0,000	2,931	2,366	3,690	106,318	181,085
6022	0,000	3,003	2,759	4,354	106,404	181,232
6023	0,000	3,074	3,182	5,067	106,492	181,382
6027	0,000	2,860	2,000	3,074	106,232	180,939
6043	0,000	3,146	3,635	5,832	106,582	181,533
6047	0,000	3,217	4,119	6,650	106,672	181,687
6048	0,000	3,289	4,637	7,524	106,764	181,844
6049	0,000	3,360	5,188	8,456	106,857	182,002
6085	15,103	4,006	15,393	26,295	-15,309	-26,872
6086	14,634	4,006	17,077	29,109	-15,390	-26,700

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
6087	14,165	4,006	18,864	32,146	-15,573	-26,671
6091	15,572	4,006	13,818	23,700	-15,268	-27,039
6092	17,142	4,006	8,794	15,392	-14,867	-26,445
6093	16,619	4,006	10,532	18,323	-15,138	-27,011
6094	16,095	4,006	12,146	20,965	-15,256	-27,182
6101	17,665	4,006	6,570	11,425	-14,846	-26,291
6111	17,500	8,000	-57,986	-120,813	-71,130	-138,265
6115	16,875	8,000	136,847	264,491	-169,608	-2,817
6116	16,250	8,000	-4,594	-8,147	35,735	69,388
6117	15,625	8,000	-111,020	-221,569	-29,556	-58,023
6149	-2,641	8,000	-211,613	-360,326	-22,750	-38,331
6153	-2,075	8,000	-255,713	-435,211	-22,420	-37,762
6154	-2,264	8,000	-239,192	-407,153	-22,859	-38,511
6155	-2,452	8,000	-224,591	-382,362	-22,932	-38,637
6159	-1,887	8,000	-274,515	-467,144	-21,463	-36,134
6163	-1,371	8,000	-341,743	-581,346	-14,360	-24,058
6164	-1,543	8,000	-316,231	-538,004	-17,748	-29,818
6165	-1,715	8,000	-294,005	-500,250	-19,997	-33,640
6191	-0,708	4,003	4,420	7,079	83,587	142,452
6192	-0,799	4,003	3,179	4,968	79,961	136,289
6193	-0,890	4,003	1,870	2,740	76,284	130,038
6197	-0,618	4,003	5,589	9,068	87,141	148,491
6198	-0,373	4,003	8,377	13,812	96,174	163,844
6199	-0,455	4,003	7,504	12,327	93,264	158,897
6200	-0,536	4,003	6,576	10,747	90,247	153,771
6207	-0,981	4,003	494,885	401,253	72,573	123,733
6297	0,000	3,503	6,396	10,497	107,047	182,326
6298	0,000	3,574	7,054	11,610	107,145	182,492
6299	0,000	3,646	7,748	12,784	107,244	182,660
6303	0,000	3,432	5,774	9,446	106,952	182,163
6313	0,000	3,717	8,479	14,020	107,344	182,830

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
6317	0,000	3,789	9,247	15,319	107,445	183,003
6318	0,000	3,860	10,050	16,678	107,549	183,179
6319	0,000	3,932	10,889	18,097	107,653	183,357
6391	15,000	8,000	230,832	446,254	-31,793	-67,556
6395	14,375	8,000	9,850	31,430	26,990	52,320
6396	13,750	8,000	-10,971	-18,908	-5,290	-5,784
6397	13,125	8,000	18,020	32,661	-11,983	-19,824
6401	-1,199	8,000	-371,167	-631,335	-9,311	-15,478
6405	-0,728	8,000	-479,805	-815,936	16,198	27,879
6406	-0,885	8,000	-437,803	-744,560	4,931	8,728
6407	-1,042	8,000	-402,048	-683,804	-3,313	-5,282
6439	-0,292	4,003	9,195	15,205	98,963	168,586
6440	-0,073	4,003	11,163	18,556	105,756	180,132
6441	-0,146	4,003	10,541	17,495	103,616	176,495
6442	-0,219	4,003	9,886	16,381	101,349	172,641
6449	0,000	4,003	11,760	19,572	107,760	183,538
6450	0,000	4,080	12,729	21,212	107,876	183,735
6451	0,000	4,156	13,731	22,908	107,993	183,936
6452	0,000	4,233	14,761	24,652	108,113	184,139
6453	0,219	4,003	11,957	19,924	92,225	157,003
6454	0,146	4,003	11,806	19,660	97,328	165,719
6455	0,073	4,003	11,739	19,540	102,508	174,567
6481	11,638	4,005	29,075	49,818	-18,621	-30,703
6482	11,261	4,005	30,685	52,589	-19,252	-31,743
6483	10,884	4,005	32,332	55,415	-19,929	-32,892
6487	12,015	4,005	27,500	47,100	-18,027	-29,760
6488	13,276	4,005	22,386	38,221	-16,324	-27,360
6489	12,855	4,005	24,076	41,160	-16,835	-28,016
6490	12,435	4,005	25,777	44,114	-17,407	-28,821
6497	13,696	4,006	20,693	35,286	-15,887	-26,872
6563	8,854	4,005	41,494	70,938	-24,255	-40,546

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
6564	8,551	4,005	42,866	73,241	-24,939	-41,763
6565	8,248	4,005	44,235	75,537	-25,621	-42,974
6569	9,157	4,005	40,120	68,630	-23,571	-39,327
6570	10,170	4,005	35,525	60,863	-21,348	-35,368
6571	9,832	4,005	37,054	63,455	-22,069	-36,647
6572	9,494	4,005	38,587	66,046	-22,813	-37,973
6579	10,508	4,005	34,008	58,280	-20,657	-34,153
6606	12,500	8,000	8,457	14,037	-8,585	-13,345
6610	11,875	8,000	33,656	61,204	-12,699	-21,066
6611	11,250	8,000	40,239	72,466	-6,018	-7,959
6612	10,625	8,000	22,331	36,049	-3,798	-3,571
6653	0,292	4,003	12,188	20,326	87,205	148,427
6654	0,536	4,003	13,498	22,595	71,048	120,830
6655	0,455	4,003	12,974	21,688	76,319	129,831
6656	0,373	4,003	12,536	20,930	81,706	139,033
6663	0,000	4,310	15,814	26,435	108,235	184,346
6664	0,000	4,393	16,982	28,412	108,370	184,576
6665	0,000	4,477	18,159	30,405	108,507	184,810
6666	0,000	4,560	19,332	32,393	108,647	185,049
6673	0,618	4,003	14,103	23,640	65,899	112,036
6674	0,890	4,003	16,661	28,056	49,593	84,202
6675	0,799	4,003	15,723	26,438	54,865	93,198
6676	0,708	4,003	14,868	24,962	60,302	102,479
6689	-0,572	8,000	-529,791	-900,887	32,138	54,974
6693	-0,143	8,000	-729,235	-1,240	101,774	173,386
6694	-0,286	8,000	-643,987	-1,095	73,293	124,941
6695	-0,429	8,000	-580,436	-986,963	50,067	85,452
6699	6,617	4,004	51,202	87,230	-29,289	-49,405
6700	6,374	4,004	52,088	88,721	-29,820	-50,330
6701	6,131	4,004	52,898	90,084	-30,334	-51,226
6705	6,860	4,004	50,255	85,638	-28,747	-48,461

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
6706	7,674	4,005	46,802	79,840	-26,914	-45,254
6707	7,403	4,004	47,988	81,830	-27,526	-46,327
6708	7,132	4,004	49,143	83,769	-28,137	-47,397
6715	7,946	4,005	45,595	77,817	-26,303	-44,179
6837	0,000	5,513	24,812	41,643	110,457	188,132
6838	0,000	5,622	22,968	38,509	110,692	188,532
6839	0,000	5,730	20,120	33,668	110,934	188,944
6843	0,000	5,956	9,985	16,448	111,464	189,847
6844	0,000	6,074	1,847	2,625	111,754	190,343
6845	0,000	6,192	-8,738	-15,354	112,056	190,858
6849	0,000	5,838	16,063	26,773	111,183	189,369
6859	0,000	6,311	-22,202	-38,224	112,369	191,393
6860	0,000	6,439	-40,734	-69,702	112,725	191,999
6861	0,000	6,568	-63,955	-109,144	113,096	192,633
6862	0,000	6,697	-92,615	-157,828	113,484	193,295
6869	0,000	6,966	-173,779	-295,712	114,383	194,834
6870	0,000	7,107	-229,464	-390,319	114,906	195,730
6871	0,000	7,247	-295,623	-502,728	115,460	196,679
6875	0,000	6,826	-127,518	-217,119	113,892	193,994
6885	0,000	7,387	-373,189	-634,536	116,033	197,660
6886	0,000	8,000	-839,860	-1,428	118,141	201,314
6887	0,000	7,541	-471,765	-802,080	116,650	198,724
6888	0,000	7,694	-585,718	-995,801	117,142	199,575
6889	0,000	7,847	-711,353	-1,209	117,738	200,608
6893	0,750	8,000	343,246	555,990	-372,864	-647,852
6894	0,500	8,000	817,457	1,385	-500,151	-866,378
6895	0,250	8,000	2,002	3,419	-168,676	-315,304
6899	2,217	4,004	35,449	60,309	-6,740	-11,682
6900	2,091	4,004	33,568	57,091	-3,069	-5,457
6901	1,964	4,004	31,654	53,814	941,943	1,352
6905	2,343	4,004	37,282	63,444	-10,082	-17,346

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
6906	2,765	4,004	42,913	73,061	-19,063	-32,540
6907	2,624	4,004	41,137	70,029	-16,425	-28,083
6908	2,483	4,004	39,255	66,816	-13,439	-23,031
6915	3,377	4,004	49,226	83,817	-27,074	-46,037
6916	3,220	4,004	47,836	81,451	-25,493	-43,380
6917	3,063	4,004	46,285	78,809	-23,605	-40,202
6921	2,906	4,004	44,575	75,895	-21,377	-36,445
6931	3,534	4,004	50,454	85,906	-28,380	-48,227
6932	4,059	4,004	53,430	90,962	-31,131	-52,813
6933	3,884	4,004	52,625	89,596	-30,455	-51,692
6934	3,709	4,004	51,636	87,915	-29,550	-50,184
6941	4,820	4,004	55,050	93,713	-32,147	-54,434
6942	4,625	4,004	54,895	93,450	-32,119	-54,410
6943	4,429	4,004	54,571	92,899	-31,950	-54,149
6947	4,234	4,004	54,060	92,032	-31,611	-53,601
6957	5,016	4,004	55,053	93,718	-32,062	-54,267
6958	5,670	4,004	54,156	92,205	-31,221	-52,773
6959	5,452	4,004	54,590	92,936	-31,573	-53,393
6960	5,234	4,004	54,895	93,452	-31,861	-53,902
6967	5,888	4,004	53,613	91,289	-30,821	-52,074
6977	10,000	8,000	25,964	41,705	-15,255	-25,813
6981	9,375	8,000	36,504	60,962	-15,218	-25,634
6982	8,750	8,000	43,812	73,899	-16,020	-27,029
6983	8,125	8,000	49,733	84,102	-16,850	-28,413
6987	1,285	4,003	21,545	36,464	28,707	48,587
6988	1,183	4,003	20,184	34,123	33,744	57,170
6989	1,082	4,003	18,891	31,898	39,007	66,143
6993	0,981	4,003	17,676	29,805	44,492	75,499
7003	1,386	4,003	22,963	38,903	23,901	40,399
7004	1,725	4,004	27,997	47,545	9,516	15,920
7005	1,612	4,004	26,284	44,607	14,019	23,579

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻⁶ m]	dUy [10 ⁻⁹ m]	Uy [10 ⁻⁹ m]
7006	1,499	4,004	24,602	41,718	18,814	31,738
7013	1,838	4,004	29,725	50,508	5,303	8,760
7049	0,000	4,735	21,706	36,412	108,948	185,562
7050	0,000	4,826	22,854	38,355	109,111	185,838
7051	0,000	4,917	23,898	40,124	109,276	186,120
7055	0,000	4,644	20,488	34,349	108,790	185,291
7075	0,000	5,008	24,802	41,652	109,445	186,408
7076	0,000	5,107	25,573	42,956	109,634	186,730
7077	0,000	5,206	26,056	43,771	109,828	187,059
7078	0,000	5,306	26,172	43,963	110,026	187,397
7085	0,000	5,405	25,830	43,377	110,229	187,744
7155	7,500	8,000	55,458	93,880	-18,096	-30,515
7160	1,000	8,000	328,691	545,956	-292,266	-496,879
7188	6,875	8,000	61,361	103,943	-19,910	-33,603
7192	6,250	8,000	67,440	114,261	-22,403	-37,833
7193	5,625	8,000	73,897	125,188	-25,950	-43,854
7194	5,000	8,000	81,015	137,203	-31,077	-52,560
7204	2,500	8,000	135,108	228,077	-92,709	-157,435
7208	2,000	8,000	158,680	267,350	-126,534	-214,743
7209	1,500	8,000	209,864	351,349	-185,430	-314,862
7213	3,000	8,000	115,692	195,346	-72,431	-122,821
7227	4,500	8,000	87,496	148,121	-36,758	-62,209
7228	4,000	8,000	94,874	160,523	-44,526	-75,407
7230	3,500	8,000	103,820	175,517	-55,544	-94,130

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

11. Results for phase 6

Table [15] Table of deformations phase no: 6

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1	-20,000	-18,333	0,000	0,000	33,791	1,692
2	-20,000	-18,889	0,000	0,000	22,317	1,117
3	-20,000	-19,444	0,000	0,000	11,050	552,884
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	81,520	4,085
18	-20,000	-16,667	0,000	0,000	69,335	3,474
19	-20,000	-17,222	0,000	0,000	57,310	2,870
26	-20,000	-17,778	0,000	0,000	45,459	2,276
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
49	-20,000	-15,556	0,000	0,000	93,856	4,705
53	-20,000	-13,889	0,000	0,000	131,664	6,607
54	-20,000	-14,444	0,000	0,000	118,939	5,966
55	-20,000	-15,000	0,000	0,000	106,333	5,332
59	-15,294	-20,000	0,000	0,000	0,000	0,000
63	-14,706	-20,000	0,000	0,000	0,000	0,000
64	-14,118	-20,000	0,000	0,000	0,000	0,000
65	-13,529	-20,000	0,000	0,000	0,000	0,000
125	-20,000	-13,333	0,000	0,000	144,498	7,254
129	-20,000	-11,667	0,000	0,000	183,550	9,228
130	-20,000	-12,222	0,000	0,000	170,451	8,565

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
131	-20,000	-12,778	0,000	0,000	157,431	7,907
215	-12,941	-20,000	0,000	0,000	0,000	0,000
219	-12,353	-20,000	0,000	0,000	0,000	0,000
220	-11,765	-20,000	0,000	0,000	0,000	0,000
221	-11,176	-20,000	0,000	0,000	0,000	0,000
225	-10,588	-20,000	0,000	0,000	0,000	0,000
229	-10,000	-20,000	0,000	0,000	0,000	0,000
230	-9,412	-20,000	0,000	0,000	0,000	0,000
231	-8,824	-20,000	0,000	0,000	0,000	0,000
263	-20,000	-11,111	0,000	0,000	196,715	9,895
264	-20,000	-9,444	0,000	0,000	236,512	11,918
265	-20,000	-10,000	0,000	0,000	223,207	11,241
266	-20,000	-10,556	0,000	0,000	209,938	10,566
407	-8,235	-20,000	0,000	0,000	0,000	0,000
411	-7,647	-20,000	0,000	0,000	0,000	0,000
412	-7,059	-20,000	0,000	0,000	0,000	0,000
413	-6,471	-20,000	0,000	0,000	0,000	0,000
417	-20,000	-8,889	0,000	0,000	249,843	12,598
421	-20,000	-7,222	0,000	0,000	289,880	14,649
422	-20,000	-7,778	0,000	0,000	276,537	13,964
423	-20,000	-8,333	0,000	0,000	263,188	13,281
471	-5,882	-20,000	0,000	0,000	0,000	0,000
475	-5,294	-20,000	0,000	0,000	0,000	0,000
476	-4,706	-20,000	0,000	0,000	0,000	0,000
477	-4,118	-20,000	0,000	0,000	0,000	0,000
625	-20,000	-6,667	0,000	0,000	303,207	15,335
626	-20,000	-5,000	0,000	0,000	342,982	17,389
627	-20,000	-5,556	0,000	0,000	329,767	16,705
628	-20,000	-6,111	0,000	0,000	316,506	16,020
785	-3,529	-20,000	0,000	0,000	0,000	0,000
789	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
790	-2,353	-20,000	0,000	0,000	0,000	0,000
791	-1,765	-20,000	0,000	0,000	0,000	0,000
795	-1,176	-20,000	0,000	0,000	0,000	0,000
799	-0,588	-20,000	0,000	0,000	0,000	0,000
800	0,000	-20,000	0,000	0,000	0,000	0,000
801	0,588	-20,000	0,000	0,000	0,000	0,000
830	-20,000	-4,444	0,000	0,000	356,140	18,072
831	-20,000	-2,778	0,000	0,000	395,193	20,105
832	-20,000	-3,333	0,000	0,000	382,252	19,430
833	-20,000	-3,889	0,000	0,000	369,232	18,752
1057	1,765	-20,000	0,000	0,000	0,000	0,000
1058	2,353	-20,000	0,000	0,000	0,000	0,000
1059	2,941	-20,000	0,000	0,000	0,000	0,000
1063	1,176	-20,000	0,000	0,000	0,000	0,000
1067	3,529	-20,000	0,000	0,000	0,000	0,000
1071	4,118	-20,000	0,000	0,000	0,000	0,000
1072	4,706	-20,000	0,000	0,000	0,000	0,000
1073	5,294	-20,000	0,000	0,000	0,000	0,000
1133	5,882	-20,000	0,000	0,000	0,000	0,000
1134	6,471	-20,000	0,000	0,000	0,000	0,000
1135	7,059	-20,000	0,000	0,000	0,000	0,000
1136	7,647	-20,000	0,000	0,000	0,000	0,000
1143	8,235	-20,000	0,000	0,000	0,000	0,000
1147	8,824	-20,000	0,000	0,000	0,000	0,000
1148	9,412	-20,000	0,000	0,000	0,000	0,000
1149	10,000	-20,000	0,000	0,000	0,000	0,000
1165	-20,000	-2,222	0,000	0,000	408,050	20,776
1166	-20,000	-0,556	0,000	0,000	446,113	22,766
1167	-20,000	-1,111	0,000	0,000	433,506	22,107
1168	-20,000	-1,667	0,000	0,000	420,821	21,444
1352	-20,000	0,000	0,000	0,000	458,656	23,420

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1353	-20,000	1,500	0,000	0,000	492,342	25,159
1354	-20,000	1,000	0,000	0,000	481,146	24,583
1355	-20,000	0,500	0,000	0,000	469,909	24,004
1505	11,176	-20,000	0,000	0,000	0,000	0,000
1506	11,765	-20,000	0,000	0,000	0,000	0,000
1507	12,353	-20,000	0,000	0,000	0,000	0,000
1511	10,588	-20,000	0,000	0,000	0,000	0,000
1515	12,941	-20,000	0,000	0,000	0,000	0,000
1519	13,529	-20,000	0,000	0,000	0,000	0,000
1520	14,118	-20,000	0,000	0,000	0,000	0,000
1521	14,706	-20,000	0,000	0,000	0,000	0,000
1531	15,294	-20,000	0,000	0,000	0,000	0,000
1535	15,882	-20,000	0,000	0,000	0,000	0,000
1536	16,471	-20,000	0,000	0,000	0,000	0,000
1537	17,059	-20,000	0,000	0,000	0,000	0,000
1585	17,647	-20,000	0,000	0,000	0,000	0,000
1589	18,235	-20,000	0,000	0,000	0,000	0,000
1590	18,824	-20,000	0,000	0,000	0,000	0,000
1591	19,412	-20,000	0,000	0,000	0,000	0,000
1592	20,000	-20,000	0,000	0,000	0,000	0,000
1593	20,000	-19,400	0,000	0,000	1,559	86,646
1594	20,000	-18,800	0,000	0,000	2,899	161,127
1595	20,000	-18,200	0,000	0,000	4,031	224,091
1871	-20,000	3,500	0,000	0,000	536,600	27,419
1872	-20,000	3,000	0,000	0,000	524,657	26,859
1873	-20,000	2,500	0,000	0,000	514,488	26,297
1877	-20,000	2,000	0,000	0,000	503,425	25,730
1881	-20,000	4,000	0,000	0,000	550,464	27,993
1882	-18,249	4,000	7,764	90,550	548,575	27,943
1883	-18,833	4,000	7,550	66,051	551,766	27,971
1884	-19,416	4,000	-594,477	31,364	552,124	27,988

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2009	20,000	-17,599	0,000	0,000	4,967	276,167
2013	20,000	-16,999	0,000	0,000	5,719	317,970
2014	20,000	-16,399	0,000	0,000	6,299	350,098
2015	20,000	-15,799	0,000	0,000	6,718	373,133
2019	-16,095	4,001	5,409	208,895	547,389	27,735
2020	-16,619	4,001	1,832	189,718	548,334	27,796
2021	-17,142	4,000	-1,928	173,604	548,186	27,855
2031	-17,665	4,000	178,881	131,914	547,933	27,907
2363	20,000	-15,199	0,000	0,000	6,987	387,640
2367	20,000	-14,599	0,000	0,000	7,119	394,175
2368	20,000	-13,998	0,000	0,000	7,124	393,277
2369	20,000	-13,398	0,000	0,000	7,014	385,478
2427	-15,572	4,001	3,593	262,974	545,597	27,664
2431	-14,165	4,001	9,770	373,056	544,365	27,404
2432	-14,634	4,001	3,414	321,934	545,450	27,499
2433	-15,103	4,001	-334,553	290,335	544,432	27,582
2803	20,000	-12,798	0,000	0,000	6,800	371,300
2807	20,000	-12,198	0,000	0,000	6,491	351,256
2808	20,000	-11,598	0,000	0,000	6,101	325,854
2809	20,000	-10,998	0,000	0,000	5,637	295,599
2829	-13,696	4,001	11,025	414,182	541,755	27,295
2830	-12,435	4,001	22,969	535,703	534,487	26,958
2831	-12,855	4,001	16,994	495,148	537,424	27,081
2832	-13,276	4,001	13,126	450,574	540,229	27,193
3247	-12,015	4,001	18,562	583,220	531,323	26,830
3251	-10,884	4,001	20,707	719,505	526,172	26,421
3252	-11,261	4,001	16,139	672,988	528,370	26,566
3253	-11,638	4,001	15,366	625,009	529,449	26,702
3441	20,000	-10,397	0,000	0,000	5,112	260,991
3442	20,000	-9,797	0,000	0,000	4,534	222,527
3443	20,000	-9,197	0,000	0,000	3,913	180,704

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3444	20,000	-8,597	0,000	0,000	3,259	136,016
3483	0,000	-1,929	-63,368	-3,616	166,820	10,206
3484	0,000	-1,857	-62,270	-3,584	166,818	10,206
3485	0,000	-1,786	-61,170	-3,552	166,816	10,206
3489	0,000	-1,714	-60,069	-3,520	166,812	10,206
3490	0,000	-1,643	-58,963	-3,489	166,808	10,206
3491	0,000	-1,571	-57,853	-3,456	166,803	10,207
3492	0,000	-1,500	-56,738	-3,424	166,798	10,207
3515	0,000	-2,000	-64,466	-3,648	166,822	10,205
3525	0,000	-1,357	-54,490	-3,359	166,784	10,208
3526	0,000	-1,285	-53,357	-3,326	166,775	10,208
3527	0,000	-1,214	-52,218	-3,292	166,765	10,209
3531	0,000	-1,428	-55,617	-3,392	166,791	10,207
3547	0,000	-1,142	-51,074	-3,258	166,754	10,209
3548	0,000	-1,071	-49,927	-3,224	166,742	10,209
3549	0,000	-0,999	-48,777	-3,190	166,727	10,210
3550	0,000	-0,928	-47,628	-3,154	166,710	10,210
3633	20,000	-7,997	0,000	0,000	2,580	88,957
3637	20,000	-7,397	0,000	0,000	1,886	40,022
3638	20,000	-6,796	0,000	0,000	1,183	-10,299
3639	20,000	-6,196	0,000	0,000	478,602	-61,517
3789	-10,508	4,002	24,111	764,377	522,725	26,269
3790	-9,494	4,002	19,685	901,406	514,883	25,806
3791	-9,832	4,002	21,561	852,912	516,032	25,967
3792	-10,170	4,002	24,243	811,639	519,141	26,121
3835	-9,157	4,002	24,984	958,528	513,329	25,633
3839	-8,248	4,002	30,848	1,101	503,975	25,120
3840	-8,551	4,002	28,345	1,049	506,978	25,300
3841	-8,854	4,002	28,374	1,001	509,722	25,470
3993	0,000	-0,785	-45,347	-3,083	166,665	10,211
3994	0,000	-0,714	-44,229	-3,046	166,636	10,211

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3995	0,000	-0,642	-43,134	-3,009	166,603	10,212
3999	0,000	-0,857	-46,483	-3,119	166,690	10,210
4009	0,000	-0,571	-42,070	-2,971	166,568	10,212
4013	0,000	-0,499	-41,042	-2,933	166,529	10,212
4014	0,000	-0,428	-40,051	-2,894	166,489	10,213
4015	0,000	-0,356	-39,100	-2,855	166,447	10,213
4189	20,000	-5,596	0,000	0,000	-219,455	-113,144
4193	20,000	-4,996	0,000	0,000	-905,536	-164,698
4194	20,000	-4,396	0,000	0,000	-1,574	-215,703
4195	20,000	-3,796	0,000	0,000	-2,221	-265,688
4215	0,000	-0,213	-37,314	-2,775	166,365	10,213
4216	0,000	-0,142	-36,476	-2,734	166,326	10,214
4217	0,000	-0,070	-35,672	-2,693	166,288	10,214
4221	0,000	-0,285	-38,188	-2,816	166,406	10,213
4415	-7,132	4,002	36,857	1,297	491,375	24,372
4416	-7,403	4,002	35,711	1,250	494,783	24,567
4417	-7,674	4,002	33,580	1,201	497,785	24,753
4421	-7,946	4,002	32,591	1,153	500,522	24,931
4447	-6,860	4,002	40,107	1,347	488,099	24,170
4451	-6,131	4,002	43,741	1,475	477,210	23,570
4452	-6,374	4,002	42,506	1,438	480,757	23,777
4453	-6,617	4,002	41,525	1,397	484,328	23,977
4505	20,000	-3,195	0,000	0,000	-2,841	-314,192
4509	20,000	-2,595	0,000	0,000	-3,432	-360,765
4510	20,000	-1,995	0,000	0,000	-3,991	-404,965
4511	20,000	-1,395	0,000	0,000	-4,516	-446,367
4589	0,000	0,001	-34,896	-2,651	166,253	10,214
4590	0,000	0,073	-34,146	-2,609	166,219	10,214
4591	0,000	0,144	-33,410	-2,566	166,188	10,215
4592	0,000	0,215	-32,686	-2,523	166,159	10,215
4685	0,000	0,287	-31,968	-2,479	166,132	10,215

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4686	0,000	0,358	-31,248	-2,435	166,108	10,215
4687	0,000	0,430	-30,528	-2,390	166,085	10,215
4688	0,000	0,501	-29,806	-2,345	166,062	10,215
4847	-5,234	4,002	44,402	1,628	463,050	22,732
4848	-5,452	4,002	46,310	1,589	467,007	22,948
4849	-5,670	4,002	45,447	1,553	470,381	23,156
4850	-5,888	4,002	44,257	1,516	473,456	23,357
4857	-5,016	4,002	44,026	1,657	459,641	22,509
4858	-4,429	4,003	48,852	1,746	450,030	21,865
4859	-4,625	4,003	47,706	1,715	453,954	22,089
4860	-4,820	4,002	44,939	1,679	457,192	22,302
4993	-3,709	4,003	44,124	1,794	436,571	20,977
4994	-3,884	4,003	45,474	1,786	439,858	21,201
4995	-4,059	4,003	46,048	1,777	442,972	21,420
4999	-4,234	4,003	47,242	1,765	445,967	21,633
5015	-3,534	4,003	42,128	1,807	433,802	20,747
5016	-3,063	4,003	39,856	1,817	426,809	20,088
5017	-3,220	4,003	40,227	1,817	429,238	20,313
5018	-3,377	4,003	40,927	1,814	431,367	20,533
5115	20,000	-0,795	0,000	0,000	-5,006	-484,558
5119	20,000	-0,195	0,000	0,000	-5,459	-519,140
5120	20,000	0,406	0,000	0,000	-5,874	-549,734
5121	20,000	1,006	0,000	0,000	-6,251	-575,976
5141	0,000	0,573	-29,077	-2,299	166,041	10,216
5142	0,000	0,644	-28,337	-2,252	166,022	10,216
5143	0,000	0,716	-27,587	-2,205	166,004	10,216
5144	0,000	0,787	-26,827	-2,157	165,986	10,216
5151	0,000	0,859	-26,054	-2,109	165,969	10,216
5152	0,000	0,930	-25,269	-2,060	165,953	10,216
5153	0,000	1,002	-24,466	-2,011	165,939	10,216
5154	0,000	1,073	-23,652	-1,961	165,925	10,216

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5187	0,000	1,216	-21,998	-1,859	165,899	10,217
5188	0,000	1,288	-21,162	-1,808	165,887	10,217
5189	0,000	1,359	-20,322	-1,755	165,876	10,217
5193	0,000	1,145	-22,829	-1,911	165,912	10,216
5203	0,000	1,430	-19,480	-1,702	165,866	10,217
5204	0,000	1,502	-18,640	-1,649	165,858	10,217
5205	0,000	1,573	-17,811	-1,595	165,850	10,217
5206	0,000	1,645	-16,999	-1,541	165,843	10,217
5287	0,000	1,788	-15,461	-1,431	165,833	10,217
5288	0,000	1,859	-14,754	-1,375	165,829	10,217
5289	0,000	1,931	-14,101	-1,319	165,826	10,217
5293	0,000	1,716	-16,213	-1,486	165,838	10,217
5309	0,000	2,002	-13,517	-1,264	165,823	10,217
5313	0,000	2,074	-13,016	-1,208	165,821	10,217
5314	0,000	2,145	-12,610	-1,152	165,819	10,217
5315	0,000	2,217	-12,312	-1,096	165,817	10,217
5351	-2,483	4,003	35,428	1,803	418,496	19,205
5352	-2,624	4,003	36,482	1,809	420,211	19,428
5353	-2,765	4,003	37,593	1,813	422,120	19,645
5357	-2,906	4,003	38,779	1,815	424,192	19,857
5373	-2,343	4,003	34,607	1,797	416,969	18,976
5374	-1,964	4,003	32,413	1,767	412,822	18,328
5375	-2,091	4,003	33,136	1,779	414,019	18,549
5376	-2,217	4,003	33,911	1,789	415,393	18,766
5437	20,000	1,606	0,000	0,000	-6,588	-597,524
5441	20,000	2,206	0,000	0,000	-6,885	-614,056
5442	20,000	2,806	0,000	0,000	-7,139	-625,270
5443	20,000	3,406	0,000	0,000	-7,348	-630,892
5599	0,000	2,360	-12,081	-985,783	165,813	10,217
5600	0,000	2,431	-12,174	-931,525	165,811	10,217
5601	0,000	2,502	-12,424	-878,085	165,809	10,217

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5605	0,000	2,288	-12,130	-1,041	165,815	10,217
5621	0,000	2,574	-12,841	-825,639	165,806	10,217
5622	0,000	2,645	-13,435	-774,390	165,803	10,217
5623	0,000	2,717	-14,216	-724,521	165,801	10,217
5624	0,000	2,788	-15,194	-676,258	165,800	10,217
5727	20,000	4,007	0,000	0,000	-7,508	-630,680
5728	19,416	4,006	-463,759	9,332	-7,396	-624,161
5729	18,833	4,006	-928,274	18,615	-7,061	-604,576
5730	18,249	4,006	-1,394	27,801	-6,500	-571,833
5731	20,000	4,506	0,000	0,000	-7,601	-625,904
5732	20,000	5,005	0,000	0,000	-7,654	-616,844
5733	20,000	5,504	0,000	0,000	-7,664	-603,420
5769	20,000	6,003	0,000	0,000	-7,626	-585,583
5773	20,000	6,502	0,000	0,000	-7,538	-563,306
5774	20,000	7,002	0,000	0,000	-7,392	-536,596
5775	20,000	7,501	0,000	0,000	-7,187	-505,505
5776	20,000	8,000	0,000	0,000	-6,916	-470,127
5777	19,375	8,000	889,264	109,522	-6,790	-462,534
5778	18,750	8,000	1,774	219,222	-6,410	-439,715
5779	18,125	8,000	2,651	329,266	-5,775	-401,559
5815	-1,499	4,003	30,216	1,705	409,386	17,455
5816	-1,612	4,003	30,759	1,723	409,934	17,676
5817	-1,725	4,003	31,328	1,739	410,735	17,891
5821	-1,838	4,003	31,860	1,753	411,732	18,100
5837	-1,386	4,003	29,778	1,685	409,124	17,228
5841	-1,082	4,003	29,298	1,623	409,980	16,583
5842	-1,183	4,003	29,327	1,645	409,381	16,804
5843	-1,285	4,003	29,499	1,666	409,114	17,019
6021	0,000	2,931	-17,781	-585,342	165,799	10,217
6022	0,000	3,003	-19,414	-543,098	165,800	10,217
6023	0,000	3,074	-21,285	-503,256	165,801	10,217

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6027	0,000	2,860	-16,378	-629,797	165,799	10,217
6043	0,000	3,146	-23,404	-465,978	165,802	10,217
6047	0,000	3,217	-25,779	-431,477	165,802	10,217
6048	0,000	3,289	-28,415	-399,963	165,802	10,217
6049	0,000	3,360	-31,314	-371,551	165,801	10,217
6085	15,103	4,006	-3,944	73,536	484,005	-159,773
6086	14,634	4,006	-4,329	79,498	2,118	-62,283
6087	14,165	4,006	-4,713	85,155	3,910	45,246
6091	15,572	4,006	-3,560	67,298	-992,337	-247,494
6092	17,142	4,006	-2,283	44,782	-4,815	-473,027
6093	16,619	4,006	-2,707	52,530	-3,729	-409,219
6094	16,095	4,006	-3,132	60,048	-2,456	-334,131
6101	17,665	4,006	-1,862	36,840	-5,714	-525,782
6111	17,500	8,000	3,515	439,825	-4,884	-347,893
6115	16,875	8,000	4,359	551,026	-3,734	-278,445
6116	16,250	8,000	5,178	662,995	-2,322	-192,906
6117	15,625	8,000	5,964	775,833	-643,503	-90,868
6191	-0,708	4,003	31,467	1,533	415,745	15,693
6192	-0,799	4,003	30,579	1,556	413,815	15,922
6193	-0,890	4,003	29,872	1,578	412,197	16,142
6197	-0,618	4,003	32,066	1,511	417,197	15,450
6198	-0,373	4,003	32,852	1,432	446,370	14,773
6199	-0,455	4,003	29,301	1,456	435,007	14,999
6200	-0,536	4,003	29,340	1,481	421,803	15,227
6207	-0,981	4,003	29,468	1,600	410,982	16,354
6297	0,000	3,503	-37,901	-324,586	165,799	10,217
6298	0,000	3,574	-41,580	-306,348	165,796	10,216
6299	0,000	3,646	-45,506	-291,711	165,792	10,216
6303	0,000	3,432	-34,475	-346,366	165,801	10,217
6313	0,000	3,717	-49,671	-280,729	165,785	10,216
6317	0,000	3,789	-54,050	-273,443	165,781	10,216

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6318	0,000	3,860	-58,618	-269,759	165,779	10,216
6319	0,000	3,932	-63,346	-269,561	165,778	10,215
6391	15,000	8,000	6,706	889,585	1,305	28,147
6395	14,375	8,000	7,393	1,004	3,526	164,663
6396	13,750	8,000	8,010	1,120	6,026	319,294
6397	13,125	8,000	8,538	1,236	8,806	492,721
6439	-0,292	4,003	40,134	1,370	442,841	14,558
6440	-0,073	4,003	-26,000	433,293	331,311	12,572
6441	-0,146	4,003	31,473	1,317	392,067	13,624
6442	-0,219	4,003	43,966	1,512	429,090	14,192
6449	0,000	4,003	-68,219	-272,655	165,779	10,215
6450	0,000	4,080	-73,604	-279,323	165,785	10,215
6451	0,000	4,156	-79,171	-289,080	165,789	10,214
6452	0,000	4,233	-84,917	-301,663	165,791	10,214
6453	0,219	4,003	-64,858	-244,017	184,842	10,046
6454	0,146	4,003	-65,241	-250,553	179,131	10,109
6455	0,073	4,003	-66,101	-259,823	172,396	10,165
6481	11,638	4,005	-6,702	109,346	16,362	810,789
6482	11,261	4,005	-6,968	111,936	18,622	953,914
6483	10,884	4,005	-7,220	114,254	20,982	1,105
6487	12,015	4,005	-6,423	106,481	14,206	675,555
6488	13,276	4,005	-5,436	94,952	7,753	277,780
6489	12,855	4,005	-5,772	99,118	9,773	401,243
6490	12,435	4,005	-6,102	102,965	11,924	533,748
6497	13,696	4,006	-5,096	90,481	5,864	163,103
6563	8,854	4,005	-8,155	122,548	35,253	2,068
6564	8,551	4,005	-8,204	123,317	37,562	2,234
6565	8,248	4,005	-8,221	124,017	39,901	2,406
6569	9,157	4,005	-8,077	121,688	32,982	1,908
6570	10,170	4,005	-7,644	117,925	25,723	1,415
6571	9,832	4,005	-7,814	119,351	28,077	1,572

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6572	9,494	4,005	-7,959	120,599	30,499	1,736
6579	10,508	4,005	-7,453	116,304	23,439	1,265
6606	12,500	8,000	8,957	1,353	11,868	685,662
6610	11,875	8,000	9,238	1,470	15,212	898,901
6611	11,250	8,000	9,348	1,586	18,835	1,133
6612	10,625	8,000	9,246	1,702	22,727	1,390
6653	0,292	4,003	-62,210	-237,290	183,007	9,968
6654	0,536	4,003	-31,309	-146,087	122,727	9,475
6655	0,455	4,003	-42,841	-186,161	146,232	9,669
6656	0,373	4,003	-53,813	-217,937	168,931	9,840
6663	0,000	4,310	-90,837	-316,831	165,793	10,214
6664	0,000	4,393	-97,488	-336,063	165,794	10,214
6665	0,000	4,477	-104,332	-357,848	165,793	10,213
6666	0,000	4,560	-111,360	-381,940	165,789	10,213
6673	0,618	4,003	-23,829	-108,551	112,346	9,293
6674	0,890	4,003	-19,489	-56,853	116,370	8,867
6675	0,799	4,003	-20,315	-70,450	116,907	9,002
6676	0,708	4,003	-21,399	-85,297	115,367	9,141
6699	6,617	4,004	-7,662	127,493	52,631	3,442
6700	6,374	4,004	-7,480	128,055	54,480	3,613
6701	6,131	4,004	-7,276	128,626	56,297	3,787
6705	6,860	4,004	-7,819	126,947	50,758	3,276
6706	7,674	4,005	-8,156	125,233	44,390	2,750
6707	7,403	4,004	-8,077	125,792	46,520	2,920
6708	7,132	4,004	-7,964	126,361	48,646	3,096
6715	7,946	4,005	-8,203	124,670	42,262	2,585
6837	0,000	5,513	-200,867	-762,825	165,709	10,210
6838	0,000	5,622	-211,637	-813,599	165,704	10,210
6839	0,000	5,730	-222,436	-865,204	165,699	10,210
6843	0,000	5,956	-245,040	-975,268	165,690	10,210
6844	0,000	6,074	-256,824	-1,034	165,686	10,209

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6845	0,000	6,192	-268,588	-1,093	165,683	10,209
6849	0,000	5,838	-233,248	-917,520	165,694	10,210
6859	0,000	6,311	-280,325	-1,152	165,679	10,209
6860	0,000	6,439	-293,088	-1,217	165,676	10,209
6861	0,000	6,568	-305,807	-1,283	165,672	10,209
6862	0,000	6,697	-318,480	-1,349	165,669	10,209
6869	0,000	6,966	-344,828	-1,489	165,664	10,209
6870	0,000	7,107	-358,502	-1,563	165,662	10,209
6871	0,000	7,247	-372,133	-1,637	165,661	10,208
6875	0,000	6,826	-331,107	-1,416	165,667	10,209
6885	0,000	7,387	-385,733	-1,711	165,660	10,208
6886	0,000	8,000	-444,895	-2,038	165,658	10,208
6887	0,000	7,541	-400,539	-1,793	165,659	10,208
6888	0,000	7,694	-415,330	-1,874	165,658	10,208
6889	0,000	7,847	-430,113	-1,956	165,658	10,208
6893	0,750	8,000	-78,352	2,110	8,577	8,008
6894	0,500	8,000	-72,044	2,169	-3,907	7,972
6895	0,250	8,000	-98,596	2,178	64,040	8,800
6899	2,217	4,004	-11,299	69,997	87,202	7,230
6900	2,091	4,004	-12,168	61,478	89,317	7,368
6901	1,964	4,004	-13,089	52,244	91,657	7,510
6905	2,343	4,004	-10,495	77,797	85,292	7,094
6906	2,765	4,004	-8,317	98,906	80,093	6,657
6907	2,624	4,004	-8,955	92,688	81,649	6,800
6908	2,483	4,004	-9,681	85,665	83,373	6,945
6915	3,377	4,004	-6,464	117,859	74,719	6,064
6916	3,220	4,004	-6,808	114,106	75,932	6,212
6917	3,063	4,004	-7,239	109,634	77,245	6,363
6921	2,906	4,004	-7,763	104,367	78,680	6,517
6931	3,534	4,004	-6,198	120,968	73,583	5,918
6932	4,059	4,004	-5,787	127,610	70,125	5,445

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6933	3,884	4,004	-5,853	125,951	71,238	5,600
6934	3,709	4,004	-5,986	123,767	72,385	5,758
6941	4,820	4,004	-6,060	130,540	65,347	4,800
6942	4,625	4,004	-5,926	130,289	66,588	4,961
6943	4,429	4,004	-5,829	129,743	67,812	5,125
6947	4,234	4,004	-5,780	128,824	69,029	5,293
6957	5,016	4,004	-6,220	130,566	64,082	4,641
6958	5,670	4,004	-6,844	129,661	59,634	4,129
6959	5,452	4,004	-6,631	130,077	61,155	4,297
6960	5,234	4,004	-6,420	130,396	62,638	4,467
6967	5,888	4,004	-7,054	129,188	58,076	3,966
6977	10,000	8,000	8,878	1,816	26,876	1,669
6981	9,375	8,000	8,186	1,928	31,253	1,971
6982	8,750	8,000	7,087	2,035	35,826	2,298
6983	8,125	8,000	5,478	2,137	40,533	2,650
6987	1,285	4,003	-17,838	-9,109	108,045	8,331
6988	1,183	4,003	-18,297	-19,917	110,694	8,463
6989	1,082	4,003	-18,677	-31,408	113,145	8,599
6993	0,981	4,003	-19,030	-43,967	115,134	8,738
7003	1,386	4,003	-17,283	1,236	105,345	8,201
7004	1,725	4,004	-14,915	32,828	96,759	7,786
7005	1,612	4,004	-15,766	22,810	99,474	7,922
7006	1,499	4,004	-16,564	12,279	102,354	8,060
7013	1,838	4,004	-14,044	42,314	94,235	7,654
7049	0,000	4,735	-126,589	-438,763	165,778	10,213
7050	0,000	4,826	-134,794	-471,397	165,771	10,212
7051	0,000	4,917	-143,162	-505,790	165,761	10,212
7055	0,000	4,644	-118,558	-408,103	165,785	10,213
7075	0,000	5,008	-151,679	-541,750	165,749	10,212
7076	0,000	5,107	-161,122	-582,551	165,737	10,211
7077	0,000	5,206	-170,698	-624,818	165,727	10,211

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
7078	0,000	5,306	-180,381	-668,366	165,719	10,211
7085	0,000	5,405	-190,146	-713,026	165,714	10,211
7155	7,500	8,000	3,228	2,231	45,282	3,027
7160	1,000	8,000	-74,550	2,121	-34,237	7,428
7188	6,875	8,000	179,763	2,315	49,939	3,429
7192	6,250	8,000	-3,889	2,384	54,313	3,855
7193	5,625	8,000	-9,289	2,436	58,082	4,303
7194	5,000	8,000	-16,436	2,465	60,700	4,769
7204	2,500	8,000	-81,253	2,213	23,673	6,575
7208	2,000	8,000	-89,806	2,124	-18,067	6,811
7209	1,500	8,000	-83,599	2,093	-40,799	7,070
7213	3,000	8,000	-59,575	2,324	43,628	6,262
7227	4,500	8,000	-23,771	2,467	61,424	5,150
7228	4,000	8,000	-33,148	2,447	60,193	5,534
7230	3,500	8,000	-45,013	2,399	55,620	5,910

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

12. Results for phase 7

Table [16] Table of deformations phase no: 7

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
1	-20,000	-18,333	0,000	0,000	62,557	1,679
2	-20,000	-18,889	0,000	0,000	41,304	1,108
3	-20,000	-19,444	0,000	0,000	20,443	548,365
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	150,994	4,056
18	-20,000	-16,667	0,000	0,000	128,398	3,448
19	-20,000	-17,222	0,000	0,000	106,111	2,849
26	-20,000	-17,778	0,000	0,000	84,170	2,259
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
49	-20,000	-15,556	0,000	0,000	173,872	4,672
53	-20,000	-13,889	0,000	0,000	244,037	6,563
54	-20,000	-14,444	0,000	0,000	220,412	5,925
55	-20,000	-15,000	0,000	0,000	197,018	5,295
59	-15,294	-20,000	0,000	0,000	0,000	0,000
63	-14,706	-20,000	0,000	0,000	0,000	0,000
64	-14,118	-20,000	0,000	0,000	0,000	0,000
65	-13,529	-20,000	0,000	0,000	0,000	0,000
125	-20,000	-13,333	0,000	0,000	267,873	7,206
129	-20,000	-11,667	0,000	0,000	340,460	9,170
130	-20,000	-12,222	0,000	0,000	316,103	8,510

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
131	-20,000	-12,778	0,000	0,000	291,901	7,856
215	-12,941	-20,000	0,000	0,000	0,000	0,000
219	-12,353	-20,000	0,000	0,000	0,000	0,000
220	-11,765	-20,000	0,000	0,000	0,000	0,000
221	-11,176	-20,000	0,000	0,000	0,000	0,000
225	-10,588	-20,000	0,000	0,000	0,000	0,000
229	-10,000	-20,000	0,000	0,000	0,000	0,000
230	-9,412	-20,000	0,000	0,000	0,000	0,000
231	-8,824	-20,000	0,000	0,000	0,000	0,000
263	-20,000	-11,111	0,000	0,000	364,953	9,834
264	-20,000	-9,444	0,000	0,000	439,062	11,849
265	-20,000	-10,000	0,000	0,000	414,273	11,174
266	-20,000	-10,556	0,000	0,000	389,564	10,502
407	-8,235	-20,000	0,000	0,000	0,000	0,000
411	-7,647	-20,000	0,000	0,000	0,000	0,000
412	-7,059	-20,000	0,000	0,000	0,000	0,000
413	-6,471	-20,000	0,000	0,000	0,000	0,000
417	-20,000	-8,889	0,000	0,000	463,911	12,527
421	-20,000	-7,222	0,000	0,000	538,628	14,572
422	-20,000	-7,778	0,000	0,000	513,713	13,889
423	-20,000	-8,333	0,000	0,000	488,801	13,207
471	-5,882	-20,000	0,000	0,000	0,000	0,000
475	-5,294	-20,000	0,000	0,000	0,000	0,000
476	-4,706	-20,000	0,000	0,000	0,000	0,000
477	-4,118	-20,000	0,000	0,000	0,000	0,000
625	-20,000	-6,667	0,000	0,000	563,527	15,255
626	-20,000	-5,000	0,000	0,000	637,942	17,306
627	-20,000	-5,556	0,000	0,000	613,202	16,623
628	-20,000	-6,111	0,000	0,000	588,391	15,939
785	-3,529	-20,000	0,000	0,000	0,000	0,000
789	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
790	-2,353	-20,000	0,000	0,000	0,000	0,000
791	-1,765	-20,000	0,000	0,000	0,000	0,000
795	-1,176	-20,000	0,000	0,000	0,000	0,000
799	-0,588	-20,000	0,000	0,000	0,000	0,000
800	0,000	-20,000	0,000	0,000	0,000	0,000
801	0,588	-20,000	0,000	0,000	0,000	0,000
830	-20,000	-4,444	0,000	0,000	662,594	17,987
831	-20,000	-2,778	0,000	0,000	735,885	20,019
832	-20,000	-3,333	0,000	0,000	711,577	19,344
833	-20,000	-3,889	0,000	0,000	687,144	18,667
1057	1,765	-20,000	0,000	0,000	0,000	0,000
1058	2,353	-20,000	0,000	0,000	0,000	0,000
1059	2,941	-20,000	0,000	0,000	0,000	0,000
1063	1,176	-20,000	0,000	0,000	0,000	0,000
1067	3,529	-20,000	0,000	0,000	0,000	0,000
1071	4,118	-20,000	0,000	0,000	0,000	0,000
1072	4,706	-20,000	0,000	0,000	0,000	0,000
1073	5,294	-20,000	0,000	0,000	0,000	0,000
1133	5,882	-20,000	0,000	0,000	0,000	0,000
1134	6,471	-20,000	0,000	0,000	0,000	0,000
1135	7,059	-20,000	0,000	0,000	0,000	0,000
1136	7,647	-20,000	0,000	0,000	0,000	0,000
1143	8,235	-20,000	0,000	0,000	0,000	0,000
1147	8,824	-20,000	0,000	0,000	0,000	0,000
1148	9,412	-20,000	0,000	0,000	0,000	0,000
1149	10,000	-20,000	0,000	0,000	0,000	0,000
1165	-20,000	-2,222	0,000	0,000	760,058	20,691
1166	-20,000	-0,556	0,000	0,000	831,777	22,681
1167	-20,000	-1,111	0,000	0,000	807,999	22,022
1168	-20,000	-1,667	0,000	0,000	784,096	21,358
1352	-20,000	0,000	0,000	0,000	855,444	23,335

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
1353	-20,000	1,500	0,000	0,000	918,858	25,077
1354	-20,000	1,000	0,000	0,000	897,837	24,501
1355	-20,000	0,500	0,000	0,000	876,672	23,920
1505	11,176	-20,000	0,000	0,000	0,000	0,000
1506	11,765	-20,000	0,000	0,000	0,000	0,000
1507	12,353	-20,000	0,000	0,000	0,000	0,000
1511	10,588	-20,000	0,000	0,000	0,000	0,000
1515	12,941	-20,000	0,000	0,000	0,000	0,000
1519	13,529	-20,000	0,000	0,000	0,000	0,000
1520	14,118	-20,000	0,000	0,000	0,000	0,000
1521	14,706	-20,000	0,000	0,000	0,000	0,000
1531	15,294	-20,000	0,000	0,000	0,000	0,000
1535	15,882	-20,000	0,000	0,000	0,000	0,000
1536	16,471	-20,000	0,000	0,000	0,000	0,000
1537	17,059	-20,000	0,000	0,000	0,000	0,000
1585	17,647	-20,000	0,000	0,000	0,000	0,000
1589	18,235	-20,000	0,000	0,000	0,000	0,000
1590	18,824	-20,000	0,000	0,000	0,000	0,000
1591	19,412	-20,000	0,000	0,000	0,000	0,000
1592	20,000	-20,000	0,000	0,000	0,000	0,000
1593	20,000	-19,400	0,000	0,000	2,881	83,698
1594	20,000	-18,800	0,000	0,000	5,342	155,217
1595	20,000	-18,200	0,000	0,000	7,405	215,243
1871	-20,000	3,500	0,000	0,000	1,002	27,341
1872	-20,000	3,000	0,000	0,000	979,903	26,780
1873	-20,000	2,500	0,000	0,000	960,458	26,217
1877	-20,000	2,000	0,000	0,000	939,567	25,649
1881	-20,000	4,000	0,000	0,000	1,028	27,914
1882	-18,249	4,000	7,985	77,731	1,026	27,862
1883	-18,833	4,000	8,685	56,156	1,029	27,890
1884	-19,416	4,000	-872,245	28,496	1,029	27,908

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
2009	20,000	-17,599	0,000	0,000	9,103	264,653
2013	20,000	-16,999	0,000	0,000	10,439	303,590
2014	20,000	-16,399	0,000	0,000	11,452	333,085
2015	20,000	-15,799	0,000	0,000	12,158	353,589
2019	-16,095	4,001	-1,805	184,710	1,018	27,642
2020	-16,619	4,001	2,751	170,167	1,018	27,706
2021	-17,142	4,000	8,211	158,900	1,021	27,769
2031	-17,665	4,000	5,724	118,647	1,025	27,824
2363	20,000	-15,199	0,000	0,000	12,577	365,617
2367	20,000	-14,599	0,000	0,000	12,730	369,722
2368	20,000	-13,998	0,000	0,000	12,635	366,424
2369	20,000	-13,398	0,000	0,000	12,315	356,259
2427	-15,572	4,001	2,765	235,867	1,018	27,567
2431	-14,165	4,001	10,374	333,366	1,014	27,292
2432	-14,634	4,001	-2,451	289,651	1,016	27,392
2433	-15,103	4,001	-5,880	263,063	1,015	27,481
2803	20,000	-12,798	0,000	0,000	11,789	339,752
2807	20,000	-12,198	0,000	0,000	11,076	317,404
2808	20,000	-11,598	0,000	0,000	10,195	289,712
2809	20,000	-10,998	0,000	0,000	9,166	257,185
2829	-13,696	4,001	12,431	369,504	1,009	27,178
2830	-12,435	4,001	33,158	476,492	994,898	26,825
2831	-12,855	4,001	27,322	441,878	1,002	26,953
2832	-13,276	4,001	16,514	402,302	1,007	27,070
3247	-12,015	4,001	22,436	520,117	990,453	26,691
3251	-10,884	4,001	32,506	645,333	977,985	26,263
3252	-11,261	4,001	26,195	604,890	982,773	26,414
3253	-11,638	4,001	21,125	561,148	986,733	26,557
3441	20,000	-10,397	0,000	0,000	8,007	220,328
3442	20,000	-9,797	0,000	0,000	6,735	179,626
3443	20,000	-9,197	0,000	0,000	5,369	135,568

**RELAZIONE DI CALCOLO OPERE
PROVVISIONALI**

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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
3444	20,000	-8,597	0,000	0,000	3,925	88,653
3483	0,000	-1,929	-122,844	-3,634	306,737	9,858
3484	0,000	-1,857	-121,012	-3,603	306,733	9,858
3485	0,000	-1,786	-119,177	-3,572	306,729	9,858
3489	0,000	-1,714	-117,337	-3,541	306,724	9,858
3490	0,000	-1,643	-115,491	-3,510	306,717	9,859
3491	0,000	-1,571	-113,635	-3,479	306,710	9,859
3492	0,000	-1,500	-111,768	-3,447	306,702	9,859
3515	0,000	-2,000	-124,673	-3,664	306,740	9,858
3525	0,000	-1,357	-107,994	-3,384	306,681	9,860
3526	0,000	-1,285	-106,085	-3,351	306,668	9,860
3527	0,000	-1,214	-104,160	-3,319	306,654	9,861
3531	0,000	-1,428	-109,888	-3,416	306,692	9,860
3547	0,000	-1,142	-102,219	-3,286	306,639	9,861
3548	0,000	-1,071	-100,262	-3,253	306,621	9,861
3549	0,000	-0,999	-98,290	-3,219	306,601	9,862
3550	0,000	-0,928	-96,305	-3,185	306,579	9,862
3633	20,000	-7,997	0,000	0,000	2,421	39,383
3637	20,000	-7,397	0,000	0,000	873,551	-11,751
3638	20,000	-6,796	0,000	0,000	-702,930	-64,261
3639	20,000	-6,196	0,000	0,000	-2,293	-117,644
3789	-10,508	4,002	36,330	685,038	972,861	26,104
3790	-9,494	4,002	31,730	810,996	955,715	25,621
3791	-9,832	4,002	34,442	767,392	958,691	25,790
3792	-10,170	4,002	40,342	728,106	965,290	25,951
3835	-9,157	4,002	41,538	858,852	951,244	25,441
3839	-8,248	4,002	45,083	987,766	933,498	24,909
3840	-8,551	4,002	41,821	943,820	938,823	25,095
3841	-8,854	4,002	42,665	899,533	944,176	25,273
3993	0,000	-0,785	-92,306	-3,115	306,527	9,863
3994	0,000	-0,714	-90,300	-3,079	306,495	9,863

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
3995	0,000	-0,642	-88,297	-3,043	306,458	9,863
3999	0,000	-0,857	-94,309	-3,150	306,555	9,862
4009	0,000	-0,571	-86,307	-3,006	306,415	9,864
4013	0,000	-0,499	-84,341	-2,969	306,364	9,864
4014	0,000	-0,428	-82,413	-2,931	306,305	9,864
4015	0,000	-0,356	-80,531	-2,892	306,241	9,865
4189	20,000	-5,596	0,000	0,000	-3,881	-171,402
4193	20,000	-4,996	0,000	0,000	-5,456	-225,049
4194	20,000	-4,396	0,000	0,000	-7,003	-278,104
4195	20,000	-3,796	0,000	0,000	-8,510	-330,078
4215	0,000	-0,213	-76,941	-2,813	306,102	9,865
4216	0,000	-0,142	-75,244	-2,773	306,029	9,865
4217	0,000	-0,070	-73,618	-2,732	305,954	9,866
4221	0,000	-0,285	-78,705	-2,853	306,173	9,865
4415	-7,132	4,002	59,360	1,171	908,574	24,138
4416	-7,403	4,002	57,850	1,125	915,638	24,339
4417	-7,674	4,002	53,677	1,081	922,111	24,531
4421	-7,946	4,002	49,564	1,037	927,722	24,715
4447	-6,860	4,002	64,776	1,218	902,185	23,928
4451	-6,131	4,002	71,780	1,339	880,168	23,312
4452	-6,374	4,002	70,796	1,302	887,230	23,525
4453	-6,617	4,002	68,749	1,260	894,627	23,731
4505	20,000	-3,195	0,000	0,000	-9,967	-380,487
4509	20,000	-2,595	0,000	0,000	-11,363	-428,865
4510	20,000	-1,995	0,000	0,000	-12,689	-474,758
4511	20,000	-1,395	0,000	0,000	-13,935	-517,715
4589	0,000	0,001	-72,063	-2,691	305,880	9,866
4590	0,000	0,073	-70,579	-2,649	305,805	9,866
4591	0,000	0,144	-69,155	-2,607	305,734	9,866
4592	0,000	0,215	-67,787	-2,564	305,665	9,866
4685	0,000	0,287	-66,465	-2,521	305,599	9,866

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011


Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
4686	0,000	0,358	-65,178	-2,477	305,539	9,867
4687	0,000	0,430	-63,924	-2,433	305,481	9,867
4688	0,000	0,501	-62,698	-2,388	305,426	9,867
4847	-5,234	4,002	73,911	1,483	851,929	22,451
4848	-5,452	4,002	75,667	1,447	859,369	22,672
4849	-5,670	4,002	75,001	1,411	866,132	22,886
4850	-5,888	4,002	73,442	1,375	872,744	23,092
4857	-5,016	4,002	75,393	1,512	844,659	22,221
4858	-4,429	4,003	79,518	1,608	824,090	21,560
4859	-4,625	4,003	80,318	1,573	831,429	21,790
4860	-4,820	4,002	77,887	1,536	838,480	22,008
4993	-3,709	4,003	74,660	1,663	797,156	20,647
4994	-3,884	4,003	76,236	1,654	804,051	20,879
4995	-4,059	4,003	76,072	1,639	810,465	21,103
4999	-4,234	4,003	78,061	1,627	816,632	21,321
5015	-3,534	4,003	71,214	1,675	790,847	20,410
5016	-3,063	4,003	65,174	1,688	775,171	19,733
5017	-3,220	4,003	66,648	1,687	780,246	19,964
5018	-3,377	4,003	68,791	1,684	785,250	20,190
5115	20,000	-0,795	0,000	0,000	-15,093	-557,295
5119	20,000	-0,195	0,000	0,000	-16,155	-593,085
5120	20,000	0,406	0,000	0,000	-17,115	-624,686
5121	20,000	1,006	0,000	0,000	-17,965	-651,713
5141	0,000	0,573	-61,493	-2,343	305,373	9,867
5142	0,000	0,644	-60,298	-2,297	305,324	9,867
5143	0,000	0,716	-59,108	-2,250	305,277	9,867
5144	0,000	0,787	-57,926	-2,203	305,232	9,867
5151	0,000	0,859	-56,744	-2,156	305,189	9,867
5152	0,000	0,930	-55,559	-2,108	305,146	9,867
5153	0,000	1,002	-54,358	-2,059	305,107	9,867
5154	0,000	1,073	-53,150	-2,010	305,069	9,867

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
5187	0,000	1,216	-50,707	-1,910	304,996	9,867
5188	0,000	1,288	-49,470	-1,859	304,960	9,867
5189	0,000	1,359	-48,220	-1,808	304,926	9,867
5193	0,000	1,145	-51,934	-1,960	305,032	9,867
5203	0,000	1,430	-46,951	-1,756	304,894	9,867
5204	0,000	1,502	-45,668	-1,703	304,863	9,867
5205	0,000	1,573	-44,377	-1,650	304,834	9,867
5206	0,000	1,645	-43,079	-1,596	304,806	9,867
5287	0,000	1,788	-40,489	-1,488	304,755	9,867
5288	0,000	1,859	-39,216	-1,433	304,732	9,867
5289	0,000	1,931	-37,968	-1,378	304,710	9,867
5293	0,000	1,716	-41,779	-1,542	304,780	9,867
5309	0,000	2,002	-36,758	-1,322	304,690	9,867
5313	0,000	2,074	-35,602	-1,266	304,671	9,867
5314	0,000	2,145	-34,517	-1,210	304,653	9,867
5315	0,000	2,217	-33,519	-1,154	304,635	9,867
5351	-2,483	4,003	58,831	1,680	755,817	18,822
5352	-2,624	4,003	60,839	1,685	760,340	19,051
5353	-2,765	4,003	62,499	1,689	765,037	19,275
5357	-2,906	4,003	64,179	1,692	769,836	19,495
5373	-2,343	4,003	56,993	1,673	751,733	18,587
5374	-1,964	4,003	52,671	1,648	740,612	17,920
5375	-2,091	4,003	54,093	1,658	744,076	18,148
5376	-2,217	4,003	55,567	1,667	747,750	18,370
5437	20,000	1,606	0,000	0,000	-18,699	-673,807
5441	20,000	2,206	0,000	0,000	-19,309	-690,637
5442	20,000	2,806	0,000	0,000	-19,789	-701,901
5443	20,000	3,406	0,000	0,000	-20,132	-707,329
5599	0,000	2,360	-31,846	-1,043	304,602	9,867
5600	0,000	2,431	-31,206	-987,230	304,585	9,866
5601	0,000	2,502	-30,718	-932,185	304,568	9,866

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
5605	0,000	2,288	-32,622	-1,098	304,619	9,867
5621	0,000	2,574	-30,395	-877,704	304,549	9,866
5622	0,000	2,645	-30,245	-823,946	304,530	9,866
5623	0,000	2,717	-30,281	-771,046	304,512	9,866
5624	0,000	2,788	-30,512	-719,179	304,494	9,866
5727	20,000	4,007	0,000	0,000	-20,331	-706,686
5728	19,416	4,006	-378,254	11,975	-20,122	-700,377
5729	18,833	4,006	-758,088	23,907	-19,493	-681,417
5730	18,249	4,006	-1,141	35,752	-18,443	-649,718
5731	20,000	4,506	0,000	0,000	-20,381	-701,391
5732	20,000	5,005	0,000	0,000	-20,322	-691,684
5733	20,000	5,504	0,000	0,000	-20,149	-677,510
5769	20,000	6,003	0,000	0,000	-19,858	-658,844
5773	20,000	6,502	0,000	0,000	-19,445	-635,693
5774	20,000	7,002	0,000	0,000	-18,907	-608,104
5775	20,000	7,501	0,000	0,000	-18,240	-576,164
5776	20,000	8,000	0,000	0,000	-17,443	-540,010
5777	19,375	8,000	2,520	111,646	-17,203	-532,630
5778	18,750	8,000	5,040	223,517	-16,480	-510,448
5779	18,125	8,000	7,559	335,828	-15,272	-473,354
5815	-1,499	4,003	49,344	1,597	728,773	17,024
5816	-1,612	4,003	49,990	1,612	731,553	17,251
5817	-1,725	4,003	50,723	1,625	734,436	17,472
5821	-1,838	4,003	51,530	1,637	737,388	17,687
5837	-1,386	4,003	48,758	1,580	726,065	16,791
5841	-1,082	4,003	48,256	1,528	720,686	16,127
5842	-1,183	4,003	48,216	1,547	722,245	16,355
5843	-1,285	4,003	48,379	1,564	724,113	16,576
6021	0,000	2,931	-31,574	-619,116	304,462	9,866
6022	0,000	3,003	-32,427	-571,210	304,448	9,865
6023	0,000	3,074	-33,507	-524,894	304,436	9,865

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
6027	0,000	2,860	-30,939	-668,488	304,477	9,866
6043	0,000	3,146	-34,820	-480,271	304,424	9,865
6047	0,000	3,217	-36,380	-437,489	304,411	9,865
6048	0,000	3,289	-38,187	-396,691	304,398	9,865
6049	0,000	3,360	-40,239	-357,931	304,385	9,864
6085	15,103	4,006	-3,315	96,120	-5,283	-250,425
6086	14,634	4,006	-3,662	104,298	-2,186	-155,850
6087	14,165	4,006	-4,016	112,167	1,221	-51,486
6091	15,572	4,006	-2,975	87,670	-8,075	-335,487
6092	17,142	4,006	-1,881	57,821	-15,277	-554,035
6093	16,619	4,006	-2,239	67,999	-13,236	-492,225
6094	16,095	4,006	-2,603	77,962	-10,838	-419,465
6101	17,665	4,006	-1,529	47,467	-16,967	-605,128
6111	17,500	8,000	10,076	448,792	-13,576	-421,169
6115	16,875	8,000	12,588	562,597	-11,383	-353,631
6116	16,250	8,000	15,092	677,429	-8,686	-270,418
6117	15,625	8,000	17,583	793,441	-5,475	-171,122
6191	-0,708	4,003	50,746	1,453	719,129	15,210
6192	-0,799	4,003	49,815	1,472	718,625	15,446
6193	-0,890	4,003	49,095	1,490	718,806	15,673
6197	-0,618	4,003	51,848	1,433	720,198	14,961
6198	-0,373	4,003	50,984	1,360	758,281	14,264
6199	-0,455	4,003	49,129	1,386	736,947	14,494
6200	-0,536	4,003	49,989	1,410	723,593	14,730
6207	-0,981	4,003	48,568	1,509	719,515	15,891
6297	0,000	3,503	-45,064	-286,823	304,359	9,864
6298	0,000	3,574	-47,829	-254,673	304,343	9,864
6299	0,000	3,646	-50,812	-224,821	304,325	9,863
6303	0,000	3,432	-42,531	-321,268	304,373	9,864
6313	0,000	3,717	-54,006	-197,275	304,303	9,863
6317	0,000	3,789	-57,379	-172,042	304,286	9,863

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
6318	0,000	3,860	-60,899	-148,999	304,271	9,862
6319	0,000	3,932	-64,533	-128,033	304,257	9,862
6391	15,000	8,000	20,055	910,756	-1,740	-55,267
6395	14,375	8,000	22,497	1,029	2,532	77,695
6396	13,750	8,000	24,898	1,150	7,354	228,386
6397	13,125	8,000	27,241	1,271	12,740	397,501
6439	-0,292	4,003	61,089	1,327	777,467	14,049
6440	-0,073	4,003	-5,868	541,823	604,632	12,163
6441	-0,146	4,003	69,894	1,318	707,436	13,193
6442	-0,219	4,003	73,555	1,445	763,597	13,728
6449	0,000	4,003	-68,257	-108,946	304,248	9,862
6450	0,000	4,080	-72,365	-90,304	304,245	9,861
6451	0,000	4,156	-76,637	-73,179	304,242	9,861
6452	0,000	4,233	-81,084	-57,342	304,239	9,860
6453	0,219	4,003	-61,393	-96,229	311,258	9,641
6454	0,146	4,003	-63,406	-99,518	309,936	9,719
6455	0,073	4,003	-65,700	-103,686	307,596	9,792
6481	11,638	4,005	-6,035	147,595	25,216	693,268
6482	11,261	4,005	-6,346	151,620	29,646	832,898
6483	10,884	4,005	-6,657	155,256	34,305	980,581
6487	12,015	4,005	-5,725	143,201	21,014	561,460
6488	13,276	4,005	-4,707	126,106	8,560	174,393
6489	12,855	4,005	-5,042	132,184	12,440	294,438
6490	12,435	4,005	-5,381	137,892	16,589	423,367
6497	13,696	4,006	-4,378	119,690	4,946	62,965
6563	8,854	4,005	-8,255	167,274	63,406	1,925
6564	8,551	4,005	-8,467	167,861	68,317	2,089
6565	8,248	4,005	-8,669	168,111	73,371	2,260
6569	9,157	4,005	-8,033	166,357	58,641	1,768
6570	10,170	4,005	-7,241	161,005	43,777	1,284
6571	9,832	4,005	-7,511	163,167	48,545	1,438

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
6572	9,494	4,005	-7,776	164,956	53,500	1,599
6579	10,508	4,005	-6,967	158,480	39,196	1,137
6606	12,500	8,000	29,505	1,394	18,702	585,798
6610	11,875	8,000	31,666	1,518	25,253	794,104
6611	11,250	8,000	33,690	1,643	32,404	1,023
6612	10,625	8,000	35,538	1,769	40,162	1,274
6653	0,292	4,003	-59,687	-93,618	311,431	9,560
6654	0,536	4,003	-56,368	-86,950	300,177	9,259
6655	0,455	4,003	-57,208	-89,329	306,366	9,364
6656	0,373	4,003	-58,323	-91,447	310,037	9,465
6663	0,000	4,310	-85,716	-42,594	304,236	9,860
6664	0,000	4,393	-90,986	-27,543	304,233	9,860
6665	0,000	4,477	-96,481	-13,372	304,228	9,859
6666	0,000	4,560	-102,194	101,247	304,221	9,859
6673	0,618	4,003	-55,206	-83,434	290,940	9,148
6674	0,890	4,003	-44,056	-57,622	256,056	8,769
6675	0,799	4,003	-48,485	-67,955	266,089	8,894
6676	0,708	4,003	-52,480	-76,906	278,331	9,021
6699	6,617	4,004	-9,529	163,254	102,896	3,292
6700	6,374	4,004	-9,622	161,562	107,593	3,464
6701	6,131	4,004	-9,709	159,591	112,356	3,640
6705	6,860	4,004	-9,427	164,680	98,269	3,126
6706	7,674	4,005	-9,019	167,626	83,337	2,600
6707	7,403	4,004	-9,167	166,947	88,214	2,770
6708	7,132	4,004	-9,303	165,968	93,193	2,945
6715	7,946	4,005	-8,860	168,014	78,566	2,436
6837	0,000	5,513	-179,654	141,750	304,078	9,855
6838	0,000	5,622	-189,459	158,996	304,059	9,855
6839	0,000	5,730	-199,367	176,746	304,046	9,854
6843	0,000	5,956	-220,292	215,604	304,024	9,854
6844	0,000	6,074	-231,266	236,860	304,015	9,853

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
6845	0,000	6,192	-242,246	258,794	304,006	9,853
6849	0,000	5,838	-209,349	195,033	304,034	9,854
6859	0,000	6,311	-253,218	281,384	303,997	9,853
6860	0,000	6,439	-265,158	306,746	303,989	9,853
6861	0,000	6,568	-277,062	332,827	303,981	9,853
6862	0,000	6,697	-288,922	359,565	303,974	9,852
6869	0,000	6,966	-313,555	417,266	303,960	9,852
6870	0,000	7,107	-326,318	448,159	303,954	9,852
6871	0,000	7,247	-339,030	479,465	303,949	9,852
6875	0,000	6,826	-300,735	386,886	303,967	9,852
6885	0,000	7,387	-351,697	511,086	303,947	9,852
6886	0,000	8,000	-406,722	650,491	303,946	9,852
6887	0,000	7,541	-365,474	545,809	303,946	9,852
6888	0,000	7,694	-379,231	580,664	303,946	9,852
6889	0,000	7,847	-392,977	615,574	303,946	9,852
6893	0,750	8,000	-11,210	2,932	158,243	8,453
6894	0,500	8,000	-5,322	2,952	154,686	8,683
6895	0,250	8,000	-41,544	2,840	210,292	9,131
6899	2,217	4,004	-17,098	57,979	197,399	7,177
6900	2,091	4,004	-18,161	50,279	200,830	7,316
6901	1,964	4,004	-19,382	42,022	204,424	7,457
6905	2,343	4,004	-16,168	65,168	194,098	7,040
6906	2,765	4,004	-13,822	86,004	183,733	6,595
6907	2,624	4,004	-14,491	79,564	187,093	6,741
6908	2,483	4,004	-15,268	72,634	190,541	6,889
6915	3,377	4,004	-11,835	109,239	169,809	5,981
6916	3,220	4,004	-12,228	103,930	173,302	6,135
6917	3,063	4,004	-12,694	98,196	176,844	6,292
6921	2,906	4,004	-13,244	91,995	180,445	6,450
6931	3,534	4,004	-11,504	114,160	166,354	5,830
6932	4,059	4,004	-10,736	128,205	155,004	5,339

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
6933	3,884	4,004	-10,944	123,902	158,757	5,500
6934	3,709	4,004	-11,197	119,232	162,539	5,664
6941	4,820	4,004	-10,180	143,360	138,958	4,672
6942	4,625	4,004	-10,284	139,958	143,038	4,839
6943	4,429	4,004	-10,410	136,239	147,143	5,008
6947	4,234	4,004	-10,565	132,173	151,276	5,181
6957	5,016	4,004	-10,092	146,470	134,906	4,509
6958	5,670	4,004	-9,860	155,031	121,551	3,987
6959	5,452	4,004	-9,932	152,470	125,964	4,157
6960	5,234	4,004	-10,007	149,624	130,417	4,331
6967	5,888	4,004	-9,790	157,326	117,179	3,821
6977	10,000	8,000	37,161	1,895	48,528	1,548
6981	9,375	8,000	38,500	2,020	57,497	1,846
6982	8,750	8,000	39,481	2,144	67,053	2,168
6983	8,125	8,000	40,012	2,265	77,162	2,516
6987	1,285	4,003	-30,406	-14,326	229,240	8,258
6988	1,183	4,003	-33,101	-24,739	234,508	8,385
6989	1,082	4,003	-36,274	-35,685	240,589	8,515
6993	0,981	4,003	-40,087	-47,114	247,906	8,647
7003	1,386	4,003	-28,074	-4,467	224,566	8,134
7004	1,725	4,004	-22,235	24,657	211,835	7,731
7005	1,612	4,004	-23,899	15,581	215,706	7,863
7006	1,499	4,004	-25,826	5,886	219,914	7,997
7013	1,838	4,004	-20,789	33,155	208,223	7,600
7049	0,000	4,735	-114,790	26,706	304,206	9,858
7050	0,000	4,826	-121,691	40,063	304,198	9,858
7051	0,000	4,917	-128,805	53,247	304,188	9,857
7055	0,000	4,644	-108,112	13,039	304,213	9,858
7075	0,000	5,008	-136,118	66,369	304,177	9,857
7076	0,000	5,107	-144,305	80,722	304,162	9,857
7077	0,000	5,206	-152,692	95,218	304,144	9,856

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻³ m]	Uy [10 ⁻³ m]
7078	0,000	5,306	-161,258	109,945	304,125	9,856
7085	0,000	5,405	-169,982	124,969	304,104	9,855
7155	7,500	8,000	39,985	2,383	87,762	2,891
7160	1,000	8,000	-10,448	2,936	150,761	8,167
7188	6,875	8,000	39,273	2,495	98,763	3,292
7192	6,250	8,000	37,710	2,600	110,024	3,721
7193	5,625	8,000	35,105	2,695	121,319	4,178
7194	5,000	8,000	31,249	2,778	132,311	4,661
7204	2,500	8,000	379,558	2,932	159,179	6,800
7208	2,000	8,000	-6,662	2,930	156,973	7,246
7209	1,500	8,000	-10,762	2,928	152,641	7,697
7213	3,000	8,000	8,344	2,927	157,913	6,355
7227	4,500	8,000	27,113	2,834	140,573	5,065
7228	4,000	8,000	21,904	2,878	147,950	5,484
7230	3,500	8,000	15,604	2,909	153,932	5,915

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

13. Results for phase 8

Table [17] Table of deformations phase no: 8

Node No.	x-coord.	y-coord.	dUx [10⁻⁶ m]	Ux [10⁻³ m]	dUy [10⁻⁶ m]	Uy [10⁻³ m]
1	-20,000	-18,333	0,000	0,000	-1,761	-1,065
2	-20,000	-18,889	0,000	0,000	-1,262	-775,792
3	-20,000	-19,444	0,000	0,000	-681,444	-426,192
4	-20,000	-20,000	0,000	0,000	0,000	0,000
5	-19,412	-20,000	0,000	0,000	0,000	0,000
6	-18,824	-20,000	0,000	0,000	0,000	0,000
7	-18,235	-20,000	0,000	0,000	0,000	0,000
17	-20,000	-16,111	0,000	0,000	-3,088	-1,730
18	-20,000	-16,667	0,000	0,000	-2,848	-1,630
19	-20,000	-17,222	0,000	0,000	-2,550	-1,489
26	-20,000	-17,778	0,000	0,000	-2,190	-1,302
33	-17,059	-20,000	0,000	0,000	0,000	0,000
34	-16,471	-20,000	0,000	0,000	0,000	0,000
35	-15,882	-20,000	0,000	0,000	0,000	0,000
42	-17,647	-20,000	0,000	0,000	0,000	0,000
49	-20,000	-15,556	0,000	0,000	-3,272	-1,790
53	-20,000	-13,889	0,000	0,000	-3,524	-1,758
54	-20,000	-14,444	0,000	0,000	-3,488	-1,802
55	-20,000	-15,000	0,000	0,000	-3,405	-1,813
59	-15,294	-20,000	0,000	0,000	0,000	0,000
63	-14,706	-20,000	0,000	0,000	0,000	0,000
64	-14,118	-20,000	0,000	0,000	0,000	0,000
65	-13,529	-20,000	0,000	0,000	0,000	0,000
125	-20,000	-13,333	0,000	0,000	-3,516	-1,684
129	-20,000	-11,667	0,000	0,000	-3,240	-1,289
130	-20,000	-12,222	0,000	0,000	-3,372	-1,448

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
131	-20,000	-12,778	0,000	0,000	-3,464	-1,580
215	-12,941	-20,000	0,000	0,000	0,000	0,000
219	-12,353	-20,000	0,000	0,000	0,000	0,000
220	-11,765	-20,000	0,000	0,000	0,000	0,000
221	-11,176	-20,000	0,000	0,000	0,000	0,000
225	-10,588	-20,000	0,000	0,000	0,000	0,000
229	-10,000	-20,000	0,000	0,000	0,000	0,000
230	-9,412	-20,000	0,000	0,000	0,000	0,000
231	-8,824	-20,000	0,000	0,000	0,000	0,000
263	-20,000	-11,111	0,000	0,000	-3,070	-1,105
264	-20,000	-9,444	0,000	0,000	-2,350	-413,128
265	-20,000	-10,000	0,000	0,000	-2,624	-666,300
266	-20,000	-10,556	0,000	0,000	-2,864	-897,388
407	-8,235	-20,000	0,000	0,000	0,000	0,000
411	-7,647	-20,000	0,000	0,000	0,000	0,000
412	-7,059	-20,000	0,000	0,000	0,000	0,000
413	-6,471	-20,000	0,000	0,000	0,000	0,000
417	-20,000	-8,889	0,000	0,000	-2,045	-138,843
421	-20,000	-7,222	0,000	0,000	-956,802	801,592
422	-20,000	-7,778	0,000	0,000	-1,347	469,395
423	-20,000	-8,333	0,000	0,000	-1,710	155,628
471	-5,882	-20,000	0,000	0,000	0,000	0,000
475	-5,294	-20,000	0,000	0,000	0,000	0,000
476	-4,706	-20,000	0,000	0,000	0,000	0,000
477	-4,118	-20,000	0,000	0,000	0,000	0,000
625	-20,000	-6,667	0,000	0,000	-541,962	1,151
626	-20,000	-5,000	0,000	0,000	832,586	2,298
627	-20,000	-5,556	0,000	0,000	354,795	1,900
628	-20,000	-6,111	0,000	0,000	-104,118	1,518
785	-3,529	-20,000	0,000	0,000	0,000	0,000
789	-2,941	-20,000	0,000	0,000	0,000	0,000

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISORIALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
790	-2,353	-20,000	0,000	0,000	0,000	0,000
791	-1,765	-20,000	0,000	0,000	0,000	0,000
795	-1,176	-20,000	0,000	0,000	0,000	0,000
799	-0,588	-20,000	0,000	0,000	0,000	0,000
800	0,000	-20,000	0,000	0,000	0,000	0,000
801	0,588	-20,000	0,000	0,000	0,000	0,000
830	-20,000	-4,444	0,000	0,000	1,327	2,710
831	-20,000	-2,778	0,000	0,000	2,884	4,026
832	-20,000	-3,333	0,000	0,000	2,355	3,575
833	-20,000	-3,889	0,000	0,000	1,835	3,136
1057	1,765	-20,000	0,000	0,000	0,000	0,000
1058	2,353	-20,000	0,000	0,000	0,000	0,000
1059	2,941	-20,000	0,000	0,000	0,000	0,000
1063	1,176	-20,000	0,000	0,000	0,000	0,000
1067	3,529	-20,000	0,000	0,000	0,000	0,000
1071	4,118	-20,000	0,000	0,000	0,000	0,000
1072	4,706	-20,000	0,000	0,000	0,000	0,000
1073	5,294	-20,000	0,000	0,000	0,000	0,000
1133	5,882	-20,000	0,000	0,000	0,000	0,000
1134	6,471	-20,000	0,000	0,000	0,000	0,000
1135	7,059	-20,000	0,000	0,000	0,000	0,000
1136	7,647	-20,000	0,000	0,000	0,000	0,000
1143	8,235	-20,000	0,000	0,000	0,000	0,000
1147	8,824	-20,000	0,000	0,000	0,000	0,000
1148	9,412	-20,000	0,000	0,000	0,000	0,000
1149	10,000	-20,000	0,000	0,000	0,000	0,000
1165	-20,000	-2,222	0,000	0,000	3,418	4,488
1166	-20,000	-0,556	0,000	0,000	5,023	5,940
1167	-20,000	-1,111	0,000	0,000	4,491	5,446
1168	-20,000	-1,667	0,000	0,000	3,954	4,962
1352	-20,000	0,000	0,000	0,000	5,550	6,444

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
1353	-20,000	1,500	0,000	0,000	7,182	7,862
1354	-20,000	1,000	0,000	0,000	6,494	7,380
1355	-20,000	0,500	0,000	0,000	6,012	6,908
1505	11,176	-20,000	0,000	0,000	0,000	0,000
1506	11,765	-20,000	0,000	0,000	0,000	0,000
1507	12,353	-20,000	0,000	0,000	0,000	0,000
1511	10,588	-20,000	0,000	0,000	0,000	0,000
1515	12,941	-20,000	0,000	0,000	0,000	0,000
1519	13,529	-20,000	0,000	0,000	0,000	0,000
1520	14,118	-20,000	0,000	0,000	0,000	0,000
1521	14,706	-20,000	0,000	0,000	0,000	0,000
1531	15,294	-20,000	0,000	0,000	0,000	0,000
1535	15,882	-20,000	0,000	0,000	0,000	0,000
1536	16,471	-20,000	0,000	0,000	0,000	0,000
1537	17,059	-20,000	0,000	0,000	0,000	0,000
1585	17,647	-20,000	0,000	0,000	0,000	0,000
1589	18,235	-20,000	0,000	0,000	0,000	0,000
1590	18,824	-20,000	0,000	0,000	0,000	0,000
1591	19,412	-20,000	0,000	0,000	0,000	0,000
1592	20,000	-20,000	0,000	0,000	0,000	0,000
1593	20,000	-19,400	0,000	0,000	2,498	1,397
1594	20,000	-18,800	0,000	0,000	5,071	2,775
1595	20,000	-18,200	0,000	0,000	7,710	4,137
1871	-20,000	3,500	0,000	0,000	20,116	10,181
1872	-20,000	3,000	0,000	0,000	16,821	9,398
1873	-20,000	2,500	0,000	0,000	10,869	8,867
1877	-20,000	2,000	0,000	0,000	8,429	8,353
1881	-20,000	4,000	0,000	0,000	21,366	11,272
1882	-18,249	4,000	-5,748	-4,272	21,379	11,048
1883	-18,833	4,000	-3,440	-2,960	21,357	11,136
1884	-19,416	4,000	-2,190	-1,534	21,042	11,213

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
2009	20,000	-17,599	0,000	0,000	10,439	5,487
2013	20,000	-16,999	0,000	0,000	13,305	6,836
2014	20,000	-16,399	0,000	0,000	16,093	8,174
2015	20,000	-15,799	0,000	0,000	19,316	9,528
2019	-16,095	4,001	-20,603	-8,895	16,050	10,093
2020	-16,619	4,001	-19,388	-7,851	16,180	10,317
2021	-17,142	4,000	-19,249	-6,756	14,657	10,549
2031	-17,665	4,000	-21,149	-5,632	11,117	10,768
2363	20,000	-15,199	0,000	0,000	21,202	10,892
2367	20,000	-14,599	0,000	0,000	15,085	12,235
2368	20,000	-13,998	0,000	0,000	11,734	12,925
2369	20,000	-13,398	0,000	0,000	8,887	13,756
2427	-15,572	4,001	-21,415	-9,890	14,937	9,867
2431	-14,165	4,001	-24,307	-12,517	13,487	9,231
2432	-14,634	4,001	-23,157	-11,647	13,962	9,447
2433	-15,103	4,001	-21,988	-10,768	14,527	9,661
2803	20,000	-12,798	0,000	0,000	1,381	14,843
2807	20,000	-12,198	0,000	0,000	-12,548	15,561
2808	20,000	-11,598	0,000	0,000	-29,042	15,007
2809	20,000	-10,998	0,000	0,000	-44,286	12,016
2829	-13,696	4,001	-25,318	-13,362	13,408	9,004
2830	-12,435	4,001	-26,393	-15,477	12,715	8,324
2831	-12,855	4,001	-26,183	-14,811	13,569	8,556
2832	-13,276	4,001	-25,895	-14,102	13,549	8,787
3247	-12,015	4,001	-25,669	-16,161	10,956	8,032
3251	-10,884	4,001	-32,322	-18,048	12,332	7,512
3252	-11,261	4,001	-32,083	-17,494	13,063	7,733
3253	-11,638	4,001	-32,414	-16,919	14,365	7,936
3441	20,000	-10,397	0,000	0,000	-50,074	5,023
3442	20,000	-9,797	0,000	0,000	-48,140	-6,037
3443	20,000	-9,197	0,000	0,000	-48,601	-11,044

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3444	20,000	-8,597	0,000	0,000	-49,581	-13,460
3483	0,000	-1,929	-53,951	-31,561	-1,289	-1,411
3484	0,000	-1,857	-54,061	-31,605	-1,289	-1,411
3485	0,000	-1,786	-54,171	-31,649	-1,289	-1,411
3489	0,000	-1,714	-54,281	-31,694	-1,288	-1,411
3490	0,000	-1,643	-54,390	-31,738	-1,288	-1,411
3491	0,000	-1,571	-54,499	-31,781	-1,287	-1,411
3492	0,000	-1,500	-54,608	-31,825	-1,287	-1,411
3515	0,000	-2,000	-53,841	-31,517	-1,289	-1,411
3525	0,000	-1,357	-54,823	-31,912	-1,286	-1,411
3526	0,000	-1,285	-54,929	-31,955	-1,286	-1,411
3527	0,000	-1,214	-55,035	-31,997	-1,285	-1,410
3531	0,000	-1,428	-54,715	-31,869	-1,287	-1,411
3547	0,000	-1,142	-55,140	-32,040	-1,285	-1,410
3548	0,000	-1,071	-55,244	-32,082	-1,284	-1,410
3549	0,000	-0,999	-55,347	-32,123	-1,284	-1,410
3550	0,000	-0,928	-55,450	-32,164	-1,283	-1,410
3633	20,000	-7,997	0,000	0,000	-50,271	-13,873
3637	20,000	-7,397	0,000	0,000	-50,794	-13,333
3638	20,000	-6,796	0,000	0,000	-51,020	-13,429
3639	20,000	-6,196	0,000	0,000	-50,773	-17,815
3789	-10,508	4,002	-32,949	-18,623	11,911	7,302
3790	-9,494	4,002	-34,475	-20,195	10,483	6,732
3791	-9,832	4,002	-33,973	-19,686	11,046	6,935
3792	-10,170	4,002	-33,315	-19,150	11,480	7,118
3835	-9,157	4,002	-34,361	-20,622	9,576	6,463
3839	-8,248	4,002	-39,705	-22,075	11,567	5,993
3840	-8,551	4,002	-39,259	-21,649	12,143	6,186
3841	-8,854	4,002	-38,031	-21,202	12,015	6,372
3993	0,000	-0,785	-55,651	-32,245	-1,282	-1,410
3994	0,000	-0,714	-55,750	-32,285	-1,281	-1,410

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
3995	0,000	-0,642	-55,848	-32,324	-1,281	-1,410
3999	0,000	-0,857	-55,551	-32,205	-1,283	-1,410
4009	0,000	-0,571	-55,944	-32,363	-1,280	-1,410
4013	0,000	-0,499	-56,040	-32,402	-1,280	-1,409
4014	0,000	-0,428	-56,135	-32,440	-1,279	-1,409
4015	0,000	-0,356	-56,229	-32,478	-1,278	-1,409
4189	20,000	-5,596	0,000	0,000	-50,128	-33,896
4193	20,000	-4,996	0,000	0,000	-49,496	-34,843
4194	20,000	-4,396	0,000	0,000	-48,732	-34,377
4195	20,000	-3,796	0,000	0,000	-48,115	-34,485
4215	0,000	-0,213	-56,415	-32,551	-1,277	-1,409
4216	0,000	-0,142	-56,507	-32,588	-1,276	-1,409
4217	0,000	-0,070	-56,599	-32,624	-1,276	-1,409
4221	0,000	-0,285	-56,322	-32,515	-1,278	-1,409
4415	-7,132	4,002	-41,540	-23,629	9,680	5,308
4416	-7,403	4,002	-40,978	-23,252	9,998	5,480
4417	-7,674	4,002	-40,361	-22,873	10,492	5,656
4421	-7,946	4,002	-39,957	-22,500	11,021	5,817
4447	-6,860	4,002	-41,823	-23,969	9,355	5,171
4451	-6,131	4,002	-43,733	-24,987	7,985	4,658
4452	-6,374	4,002	-43,716	-24,677	7,712	4,795
4453	-6,617	4,002	-43,334	-24,349	7,876	4,955
4505	20,000	-3,195	0,000	0,000	-47,828	-34,694
4509	20,000	-2,595	0,000	0,000	-50,009	-35,279
4510	20,000	-1,995	0,000	0,000	-50,609	-36,588
4511	20,000	-1,395	0,000	0,000	-47,044	-39,879
4589	0,000	0,001	-56,690	-32,659	-1,275	-1,409
4590	0,000	0,073	-56,782	-32,694	-1,274	-1,409
4591	0,000	0,144	-56,873	-32,729	-1,274	-1,409
4592	0,000	0,215	-56,966	-32,764	-1,273	-1,409
4685	0,000	0,287	-57,059	-32,798	-1,272	-1,408

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
4686	0,000	0,358	-57,154	-32,832	-1,272	-1,408
4687	0,000	0,430	-57,250	-32,866	-1,271	-1,408
4688	0,000	0,501	-57,348	-32,900	-1,270	-1,408
4847	-5,234	4,002	-45,004	-26,142	7,839	4,105
4848	-5,452	4,002	-44,543	-25,864	8,044	4,246
4849	-5,670	4,002	-44,134	-25,583	8,151	4,384
4850	-5,888	4,002	-43,847	-25,299	8,179	4,519
4857	-5,016	4,002	-45,096	-26,436	7,782	3,938
4858	-4,429	4,003	-45,925	-27,146	6,547	3,551
4859	-4,625	4,003	-45,819	-26,903	6,909	3,692
4860	-4,820	4,002	-45,557	-26,662	7,304	3,822
4993	-3,709	4,003	-46,420	-27,990	6,036	3,017
4994	-3,884	4,003	-46,113	-27,794	5,951	3,146
4995	-4,059	4,003	-45,993	-27,591	6,034	3,277
4999	-4,234	4,003	-45,962	-27,384	6,240	3,406
5015	-3,534	4,003	-46,930	-28,177	6,456	2,888
5016	-3,063	4,003	-46,572	-28,659	5,603	2,510
5017	-3,220	4,003	-46,852	-28,496	6,258	2,635
5018	-3,377	4,003	-47,067	-28,338	6,640	2,764
5115	20,000	-0,795	0,000	0,000	-52,172	-45,580
5119	20,000	-0,195	0,000	0,000	-66,033	-54,986
5120	20,000	0,406	0,000	0,000	-65,812	-61,073
5121	20,000	1,006	0,000	0,000	-64,810	-64,115
5141	0,000	0,573	-57,449	-32,934	-1,269	-1,408
5142	0,000	0,644	-57,553	-32,968	-1,269	-1,408
5143	0,000	0,716	-57,662	-33,002	-1,268	-1,408
5144	0,000	0,787	-57,774	-33,036	-1,267	-1,408
5151	0,000	0,859	-57,892	-33,071	-1,266	-1,408
5152	0,000	0,930	-58,015	-33,106	-1,266	-1,408
5153	0,000	1,002	-58,146	-33,142	-1,265	-1,408
5154	0,000	1,073	-58,284	-33,179	-1,264	-1,408

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5187	0,000	1,216	-58,589	-33,255	-1,262	-1,407
5188	0,000	1,288	-58,757	-33,296	-1,261	-1,407
5189	0,000	1,359	-58,938	-33,338	-1,261	-1,407
5193	0,000	1,145	-58,432	-33,217	-1,263	-1,407
5203	0,000	1,430	-59,133	-33,381	-1,260	-1,407
5204	0,000	1,502	-59,342	-33,427	-1,259	-1,407
5205	0,000	1,573	-59,569	-33,476	-1,258	-1,407
5206	0,000	1,645	-59,813	-33,527	-1,257	-1,407
5287	0,000	1,788	-60,364	-33,638	-1,255	-1,407
5288	0,000	1,859	-60,674	-33,699	-1,254	-1,407
5289	0,000	1,931	-61,010	-33,764	-1,253	-1,407
5293	0,000	1,716	-60,078	-33,581	-1,256	-1,407
5309	0,000	2,002	-61,373	-33,834	-1,252	-1,407
5313	0,000	2,074	-61,765	-33,908	-1,251	-1,407
5314	0,000	2,145	-62,190	-33,988	-1,250	-1,407
5315	0,000	2,217	-62,648	-34,074	-1,249	-1,407
5351	-2,483	4,003	-48,998	-29,503	5,439	2,290
5352	-2,624	4,003	-46,551	-29,219	3,802	2,267
5353	-2,765	4,003	-46,052	-29,004	3,892	2,311
5357	-2,906	4,003	-46,283	-28,831	4,732	2,394
5373	-2,343	4,003	-54,997	-29,890	9,837	2,414
5374	-1,964	4,003	-63,030	-30,567	16,644	2,400
5375	-2,091	4,003	-62,884	-30,334	16,553	2,407
5376	-2,217	4,003	-61,094	-30,115	14,880	2,419
5437	20,000	1,606	0,000	0,000	-95,898	-65,072
5441	20,000	2,206	0,000	0,000	-185,239	-69,989
5442	20,000	2,806	0,000	0,000	-216,592	-76,180
5443	20,000	3,406	0,000	0,000	-220,945	-82,203
5599	0,000	2,360	-63,673	-34,264	-1,247	-1,407
5600	0,000	2,431	-64,245	-34,370	-1,246	-1,407
5601	0,000	2,502	-64,858	-34,483	-1,245	-1,407

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
5605	0,000	2,288	-63,141	-34,166	-1,248	-1,407
5621	0,000	2,574	-65,516	-34,604	-1,243	-1,406
5622	0,000	2,645	-66,219	-34,734	-1,242	-1,406
5623	0,000	2,717	-66,970	-34,873	-1,241	-1,406
5624	0,000	2,788	-67,770	-35,022	-1,240	-1,406
5727	20,000	4,007	0,000	0,000	-223,846	-87,188
5728	19,416	4,006	-2,311	-4,552	-220,017	-85,275
5729	18,833	4,006	-18,085	-8,321	-184,705	-81,456
5730	18,249	4,006	-48,391	-10,835	-130,999	-77,682
5731	20,000	4,506	0,000	0,000	-225,366	-90,596
5732	20,000	5,005	0,000	0,000	-224,374	-93,035
5733	20,000	5,504	0,000	0,000	-224,289	-94,171
5769	20,000	6,003	0,000	0,000	-229,895	-94,770
5773	20,000	6,502	0,000	0,000	-233,822	-96,227
5774	20,000	7,002	0,000	0,000	-236,308	-96,802
5775	20,000	7,501	0,000	0,000	-236,569	-96,940
5776	20,000	8,000	0,000	0,000	-236,385	-96,756
5777	19,375	8,000	2,077	251,378	-235,895	-95,957
5778	18,750	8,000	8,258	476,634	-231,561	-93,628
5779	18,125	8,000	16,298	191,766	-209,598	-89,684
5815	-1,499	4,003	-62,570	-31,750	14,333	2,613
5816	-1,612	4,003	-62,752	-31,393	14,870	2,500
5817	-1,725	4,003	-62,743	-31,091	15,411	2,438
5821	-1,838	4,003	-62,834	-30,827	16,142	2,408
5837	-1,386	4,003	-62,028	-32,184	13,268	2,796
5841	-1,082	4,003	-67,927	-33,282	16,504	3,204
5842	-1,183	4,003	-64,332	-32,944	14,053	3,093
5843	-1,285	4,003	-62,274	-32,570	12,829	2,948
6021	0,000	2,931	-69,521	-35,349	-1,239	-1,407
6022	0,000	3,003	-70,475	-35,528	-1,238	-1,407
6023	0,000	3,074	-71,482	-35,719	-1,238	-1,407

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6027	0,000	2,860	-68,620	-35,180	-1,240	-1,407
6043	0,000	3,146	-72,544	-35,920	-1,237	-1,407
6047	0,000	3,217	-73,661	-36,134	-1,237	-1,407
6048	0,000	3,289	-74,834	-36,358	-1,237	-1,407
6049	0,000	3,360	-76,066	-36,595	-1,237	-1,407
6085	15,103	4,006	-56,261	-27,471	-99,977	-41,581
6086	14,634	4,006	-55,295	-32,355	-97,945	-31,799
6087	14,165	4,006	-54,443	-34,594	-94,994	-27,601
6091	15,572	4,006	-56,464	-23,069	-103,039	-56,247
6092	17,142	4,006	-54,660	-17,173	-110,355	-68,272
6093	16,619	4,006	-56,049	-19,925	-108,397	-63,993
6094	16,095	4,006	-56,493	-21,607	-105,798	-61,047
6101	17,665	4,006	-52,144	-13,288	-110,453	-74,921
6111	17,500	8,000	17,254	-2,041	-150,090	-83,799
6115	16,875	8,000	-26,388	-4,500	-117,896	-79,444
6116	16,250	8,000	-30,817	-5,817	-110,171	-74,869
6117	15,625	8,000	-29,896	-6,950	-103,548	-68,381
6191	-0,708	4,003	-72,036	-34,266	15,585	3,173
6192	-0,799	4,003	-72,032	-34,019	17,057	3,225
6193	-0,890	4,003	-71,987	-33,797	17,925	3,260
6197	-0,618	4,003	-72,308	-34,585	15,069	3,119
6198	-0,373	4,003	-75,217	-35,713	12,569	2,792
6199	-0,455	4,003	-73,493	-35,293	13,278	2,957
6200	-0,536	4,003	-72,466	-34,917	14,308	3,053
6207	-0,981	4,003	-70,937	-33,570	17,952	3,259
6297	0,000	3,503	-78,706	-37,103	-1,237	-1,407
6298	0,000	3,574	-80,109	-37,374	-1,237	-1,408
6299	0,000	3,646	-81,562	-37,656	-1,238	-1,408
6303	0,000	3,432	-77,356	-36,843	-1,237	-1,407
6313	0,000	3,717	-83,060	-37,949	-1,239	-1,408
6317	0,000	3,789	-84,600	-38,253	-1,240	-1,409

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6318	0,000	3,860	-86,180	-38,566	-1,241	-1,409
6319	0,000	3,932	-87,797	-38,890	-1,242	-1,409
6391	15,000	8,000	-30,646	-10,494	-96,597	-59,216
6395	14,375	8,000	-30,761	-13,191	-89,556	-49,768
6396	13,750	8,000	-31,332	-14,816	-83,324	-40,287
6397	13,125	8,000	-31,562	-18,948	-76,818	-27,064
6439	-0,292	4,003	-77,791	-36,161	12,608	2,508
6440	-0,073	4,003	-86,650	-38,434	3,409	409,985
6441	-0,146	4,003	-81,711	-37,196	7,348	1,378
6442	-0,219	4,003	-78,190	-36,454	11,131	2,104
6449	0,000	4,003	-89,446	-39,222	-1,242	-1,409
6450	0,000	4,080	-91,246	-39,588	-1,243	-1,410
6451	0,000	4,156	-93,078	-39,963	-1,243	-1,410
6452	0,000	4,233	-94,940	-40,348	-1,243	-1,410
6453	0,219	4,003	-85,979	-38,786	-13,658	-1,645
6454	0,146	4,003	-87,827	-38,972	-14,899	-1,668
6455	0,073	4,003	-88,890	-39,124	-11,916	-1,565
6481	11,638	4,005	-80,813	-40,662	-3,257	-4,988
6482	11,261	4,005	-80,218	-40,673	-1,282	-4,634
6483	10,884	4,005	-79,727	-40,676	226,868	-4,282
6487	12,015	4,005	-81,245	-40,607	-6,219	-5,364
6488	13,276	4,005	-65,356	-37,676	-55,576	-15,929
6489	12,855	4,005	-72,993	-39,189	-35,029	-10,191
6490	12,435	4,005	-78,780	-40,180	-17,083	-6,765
6497	13,696	4,006	-57,085	-35,383	-76,900	-24,378
6563	8,854	4,005	-78,079	-40,533	3,976	-2,637
6564	8,551	4,005	-77,873	-40,489	4,189	-2,434
6565	8,248	4,005	-77,670	-40,439	4,354	-2,242
6569	9,157	4,005	-78,288	-40,573	3,706	-2,851
6570	10,170	4,005	-79,058	-40,661	2,194	-3,646
6571	9,832	4,005	-78,784	-40,640	2,826	-3,367

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6572	9,494	4,005	-78,530	-40,610	3,321	-3,102
6579	10,508	4,005	-79,359	-40,674	1,392	-3,939
6606	12,500	8,000	-30,912	-29,110	-63,632	-17,018
6610	11,875	8,000	-32,114	-32,633	-45,153	-10,423
6611	11,250	8,000	-36,470	-35,784	-18,456	-6,022
6612	10,625	8,000	-50,744	-37,848	10,625	-4,008
6653	0,292	4,003	-79,579	-38,467	-7,698	-1,369
6654	0,536	4,003	-76,071	-38,243	-1,808	-1,115
6655	0,455	4,003	-76,573	-38,318	-3,413	-1,155
6656	0,373	4,003	-77,473	-38,390	-5,729	-1,247
6663	0,000	4,310	-96,830	-40,740	-1,243	-1,411
6664	0,000	4,393	-98,922	-41,178	-1,243	-1,411
6665	0,000	4,477	-101,043	-41,624	-1,243	-1,411
6666	0,000	4,560	-103,193	-42,078	-1,243	-1,411
6673	0,618	4,003	-75,634	-38,201	-637,044	-1,029
6674	0,890	4,003	-74,918	-38,211	1,565	-741,586
6675	0,799	4,003	-75,025	-38,196	1,061	-814,885
6676	0,708	4,003	-75,213	-38,191	261,149	-908,561
6699	6,617	4,004	-76,557	-40,093	4,690	-1,371
6700	6,374	4,004	-76,390	-40,031	4,681	-1,263
6701	6,131	4,004	-76,225	-39,966	4,661	-1,162
6705	6,860	4,004	-76,726	-40,152	4,686	-1,484
6706	7,674	4,005	-77,284	-40,332	4,565	-1,904
6707	7,403	4,004	-77,099	-40,275	4,626	-1,757
6708	7,132	4,004	-76,913	-40,215	4,666	-1,617
6715	7,946	4,005	-77,467	-40,384	4,480	-2,060
6837	0,000	5,513	-129,538	-47,689	-1,240	-1,413
6838	0,000	5,622	-132,710	-48,361	-1,240	-1,414
6839	0,000	5,730	-135,910	-49,038	-1,240	-1,414
6843	0,000	5,956	-142,684	-50,465	-1,239	-1,414
6844	0,000	6,074	-146,257	-51,215	-1,239	-1,414

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6845	0,000	6,192	-149,853	-51,968	-1,239	-1,414
6849	0,000	5,838	-139,137	-49,719	-1,240	-1,414
6859	0,000	6,311	-153,471	-52,723	-1,239	-1,414
6860	0,000	6,439	-157,438	-53,549	-1,239	-1,414
6861	0,000	6,568	-161,425	-54,377	-1,239	-1,415
6862	0,000	6,697	-165,428	-55,207	-1,239	-1,415
6869	0,000	6,966	-173,839	-56,944	-1,239	-1,415
6870	0,000	7,107	-178,243	-57,852	-1,239	-1,415
6871	0,000	7,247	-182,655	-58,760	-1,239	-1,415
6875	0,000	6,826	-169,446	-56,038	-1,239	-1,415
6885	0,000	7,387	-187,072	-59,668	-1,239	-1,415
6886	0,000	8,000	-206,367	-63,631	-1,239	-1,415
6887	0,000	7,541	-191,893	-60,659	-1,239	-1,415
6888	0,000	7,694	-196,717	-61,649	-1,239	-1,415
6889	0,000	7,847	-201,542	-62,640	-1,239	-1,415
6893	0,750	8,000	-139,934	-49,404	-35,005	-5,019
6894	0,500	8,000	-140,470	-49,639	-29,784	-5,982
6895	0,250	8,000	-158,364	-50,738	-13,481	-4,197
6899	2,217	4,004	-74,076	-38,641	2,874	-347,725
6900	2,091	4,004	-74,108	-38,594	2,812	-356,285
6901	1,964	4,004	-74,152	-38,548	2,756	-368,614
6905	2,343	4,004	-74,048	-38,688	2,947	-342,591
6906	2,765	4,004	-74,023	-38,846	3,319	-346,688
6907	2,624	4,004	-74,015	-38,793	3,175	-342,006
6908	2,483	4,004	-74,025	-38,740	3,049	-340,530
6915	3,377	4,004	-74,313	-39,076	3,973	-401,275
6916	3,220	4,004	-74,206	-39,017	3,824	-381,881
6917	3,063	4,004	-74,115	-38,958	3,654	-366,277
6921	2,906	4,004	-74,052	-38,899	3,475	-354,355
6931	3,534	4,004	-74,430	-39,134	4,101	-424,052
6932	4,059	4,004	-74,858	-39,321	4,384	-520,522

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
RELAZIONE DI CALCOLO OPERE PROVVISIONALI		<i>Codice documento</i> SS0414_F0.doc	<i>Rev</i> F0	<i>Data</i> 20/06/2011

Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
6933	3,884	4,004	-74,714	-39,260	4,317	-484,986
6934	3,709	4,004	-74,570	-39,197	4,222	-452,801
6941	4,820	4,004	-75,394	-39,576	4,499	-710,118
6942	4,625	4,004	-75,269	-39,513	4,480	-656,331
6943	4,429	4,004	-75,137	-39,448	4,457	-606,024
6947	4,234	4,004	-74,996	-39,382	4,426	-559,275
6957	5,016	4,004	-75,515	-39,639	4,520	-767,375
6958	5,670	4,004	-75,921	-39,836	4,605	-984,563
6959	5,452	4,004	-75,783	-39,772	4,575	-907,763
6960	5,234	4,004	-75,648	-39,706	4,546	-835,380
6967	5,888	4,004	-76,063	-39,899	4,634	-1,066
6977	10,000	8,000	-76,159	-38,902	2,321	-3,727
6981	9,375	8,000	-76,166	-39,107	2,989	-3,194
6982	8,750	8,000	-76,306	-39,316	3,381	-2,691
6983	8,125	8,000	-76,543	-39,497	3,753	-2,243
6987	1,285	4,003	-74,540	-38,317	3,061	-518,455
6988	1,183	4,003	-74,514	-38,285	2,823	-562,921
6989	1,082	4,003	-74,573	-38,256	2,466	-616,492
6993	0,981	4,003	-74,654	-38,230	2,023	-678,495
7003	1,386	4,003	-74,599	-38,350	3,099	-482,576
7004	1,725	4,004	-74,301	-38,464	2,719	-402,951
7005	1,612	4,004	-74,432	-38,426	2,765	-424,823
7006	1,499	4,004	-74,559	-38,388	2,904	-450,802
7013	1,838	4,004	-74,221	-38,504	2,714	-384,933
7049	0,000	4,735	-107,778	-43,052	-1,242	-1,412
7050	0,000	4,826	-110,215	-43,571	-1,242	-1,412
7051	0,000	4,917	-112,683	-44,098	-1,241	-1,412
7055	0,000	4,644	-105,371	-42,540	-1,243	-1,412
7075	0,000	5,008	-115,180	-44,631	-1,241	-1,413
7076	0,000	5,107	-117,936	-45,219	-1,241	-1,413
7077	0,000	5,206	-120,725	-45,815	-1,240	-1,413

		Ponte sullo Stretto di Messina PROGETTO DEFINITIVO		
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Node No.	x-coord.	y-coord.	dUx [10 ⁻⁶ m]	Ux [10 ⁻³ m]	dUy [10 ⁻⁶ m]	Uy [10 ⁻³ m]
7078	0,000	5,306	-123,546	-46,416	-1,240	-1,413
7085	0,000	5,405	-126,397	-47,022	-1,240	-1,413
7155	7,500	8,000	-76,841	-39,693	4,057	-1,841
7160	1,000	8,000	-140,359	-49,406	-37,266	-6,246
7188	6,875	8,000	-77,318	-39,856	4,270	-1,494
7192	6,250	8,000	-77,667	-40,020	4,463	-1,188
7193	5,625	8,000	-82,031	-40,243	5,307	-918,366
7194	5,000	8,000	-104,823	-40,888	5,354	-701,415
7204	2,500	8,000	-142,701	-49,060	-28,813	-3,973
7208	2,000	8,000	-142,601	-49,466	-33,450	-5,058
7209	1,500	8,000	-141,483	-49,463	-36,409	-5,789
7213	3,000	8,000	-140,936	-47,863	-25,534	-2,925
7227	4,500	8,000	-140,091	-42,821	-4,046	-759,762
7228	4,000	8,000	-136,640	-44,309	-21,677	-1,442
7230	3,500	8,000	-134,026	-45,847	-21,678	-1,987