

COMMITTENTE:



DIREZIONE LAVORI:



APPALTATORE:



PROGETTAZIONE:

MANDATARIA:

MANDANTI:



IL DIRETTORE DELLA PROGETTAZIONE:

Ing. L. LACOPO

Responsabile integrazione fra le varie prestazioni specialistiche



PROGETTO ESECUTIVO

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO - BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

INFRASTRUTTURA DI LINEA

TR16

Muri di Sostegno in SX e DX dal km 37+311 a pk 37+616

Allegato di calcolo Muro tipo 1

APPALTATORE		SCALA:
IL DIRETTORE TECNICO Ing. M. FERRONI		-

COMMESSA LOTTO FASE ENTE TIPO DOC. OPERA/DISCIPLINA PROGR. REV.

I F 2 R 2 2 E Z Z C L T R 1 6 0 5 0 0 3 A

Rev.	Descrizione	Redatto	Data	Verificato	Data	Approvato	Data	Autorizzato Data
A	EMISSIONE	C. Pinti	22/10/21	G. Coppa	22/10/21	L. Bruzzone	22/10/21	IL PROGETTISTA F. DI IULIO
								 31/10/21

APPALTATORE: TELESE S.c.a r.l. <small>Consorzio Telese Società Consortile a Responsabilità Limitata</small>	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO					
PROGETTAZIONE: Mandatario: Mandante: SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.	PROGETTO ESECUTIVO					
Relazione di calcolo muro IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	COMMESSA IF2R	LOTTO 2.2.E.ZZ	CODIFICA CL	DOCUMENTO TR.16.0.5.003	REV. A	FOGLIO 1 di 123

1 ALLEGATO DI CALCOLO – MURO TIPO 1 8 ≤HPARAMENTO≤9: 2

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO				
PROGETTAZIONE: Mandatario: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.					
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	COMMESSA IF2R	LOTTO 2.2.E.ZZ	CODIFICA CL	DOCUMENTO TR.16.0.5.003	REV. A FOGLIO 2 di 123

1 ALLEGATO DI CALCOLO – MURO TIPO 1 $8 \leq H_{PARAMENTO} \leq 9$:

Dati

Materiali

Simbologia adottata

n°	Indice materiale
Descr	Descrizione del materiale
Calcestruzzo armato	
C	Classe di resistenza del cls
A	Classe di resistenza dell'acciaio
γ	Peso specifico, espresso in [kN/mc]
R _{ck}	Resistenza caratteristica a compressione, espressa in [kPa]
E	Modulo elastico, espresso in [kPa]
ν	Coeff. di Poisson
n	Coeff. di omogenizzazione acciaio/cls
ntc	Coeff. di omogenizzazione cls tesoro/compresso

Calcestruzzo armato

n°	Descr	C	A	γ [kN/mc]	R _{ck} [kPa]	E [kPa]	ν	n	ntc
1	C32/40	C32/40	B450C	24.5170	40000	33642648	0.30	15.00	0.50
2	Materiale tiranti	Rck 250	Precomp	24.5170	24517	30073438	0.30	15.00	0.50
4	C28/35	C28/35	Precomp	24.5170	35000	32587986	0.30	15.00	0.50
5	C25/30	C25/30	Precomp	24.5170	30000	31447048	0.30	15.00	0.50

Acciai

Descr	f _{yk} [kPa]	f _{uk} [kPa]
B450C	450000	540000
Precomp	1569089	1863293

Tipologie pali

Simbologia adottata

n°	Indice tipologia palo
Descr	Descrizione tipologia palo
P	Contributo portanza palo (laterale e/o punta)
T	Tecnologia costruttiva (trivellato, infisso o elica continua)
V	Vincolo palo-fondazione: Cerniera o Incastro (libero o impedito di ruotare in testa)
Imat	Indice materiale che lo costituisce
BD	usa metodo di Bustamante-Doix
PN	Portanza nota
Pp, PI	Portanza di punta e laterale caratteristica, espressa in [kN]

n°	Descr	P	T	V	Imat	BD	PN	Pp	PI
1	Tipologia palo	Laterale + Punta	Trivellato	Incastro	5	NO	NO	--	--

Geometria profilo terreno a monte del muro

Simbologia adottata

(Sistema di riferimento con origine in testa al muro, ascissa X positiva verso monte, ordinata Y positiva verso l'alto)

n°	numero ordine del punto
X	ascissa del punto espressa in [m]
Y	ordinata del punto espressa in [m]
A	inclinazione del tratto espressa in [°]

n°	X [m]	Y [m]	A [°]
1	0.00	-3.00	0.000
2	30.00	-3.00	0.000

Inclinazione terreno a valle del muro rispetto all'orizzontale 0.000 [°]

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO				
PROGETTAZIONE: Mandatario: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.					
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	COMMESSA IF2R	LOTTO 2.2.E.ZZ	CODIFICA CL	DOCUMENTO TR.16.0.5.003	REV. REV. A FOGLIO 3 di 123

Falda

Simbologia adottata

(Sistema di riferimento con origine in testa al muro, ascissa X positiva verso monte, ordinata Y positiva verso l'alto)

n°	numero ordine del punto
X	ascissa del punto espressa in [m]
Y	ordinata del punto espressa in [m]
A	inclinazione del tratto espressa in [°]

n°	X [m]	Y [m]	A [°]
1	-5.00	-19.00	0.000
2	-0.70	-19.00	0.000
3	10.00	-19.00	0.000
4	15.00	-19.00	0.000
5	30.00	-19.00	0.000

Geometria muro

Geometria paramento e fondazione

Lunghezza muro 12.00 [m]

Paramento

Materiale C32/40
Altezza paramento 9.00 [m]
Altezza paramento libero 8.00 [m]

Geometria gradoni

Simbologia adottata

n°	indice gradone (a partire dall'alto)
Bs, Bi	Base superiore ed inferiore del gradone, espressa in [m]
H	altezza del gradone, espressa in [m]
Ae, Ai	inclinazione esterna ed interna del gradone espressa in [°]

n°	X [m]	Bs [m]	Bi [m]	H [m]	Ae [°]	Ai [°]
1	0.00	0.70	0.70	4.00	0.00	0.00
2	0.50	1.20	1.20	5.00	0.00	0.00

Fondazione

Materiale C28/35
Lunghezza mensola di valle 1.50 [m]
Lunghezza mensola di monte 3.70 [m]
Lunghezza totale 6.40 [m]
Inclinazione piano di posa 0.00 [°]
Spessore 1.30 [m]
Spessore magrone 0.20 [m]

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO					
PROGETTAZIONE: Mandatario: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.	PROGETTO ESECUTIVO					
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	COMMESSA IF2R	LOTTO 2.2.E.ZZ	CODIFICA CL	DOCUMENTO TR.16.0.5.003	REV. A	FOGLIO 4 di 123

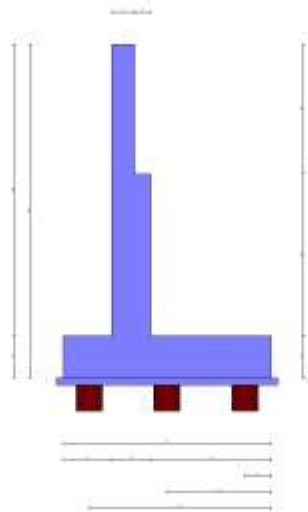


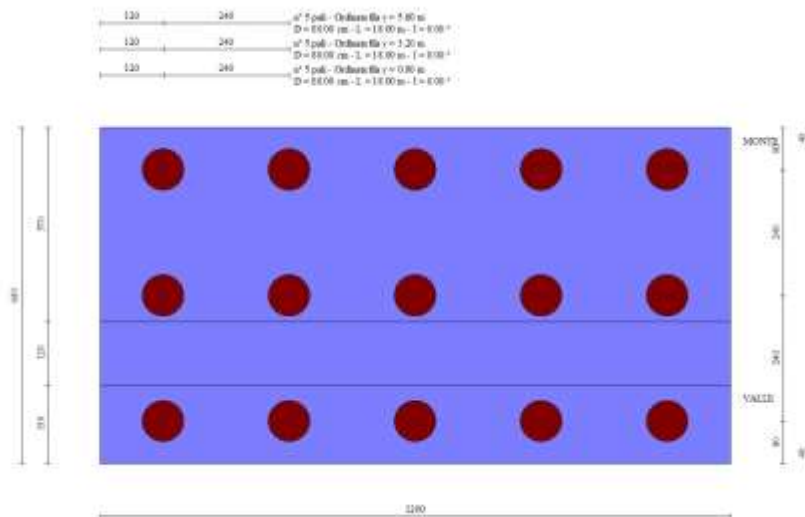
Fig. 1 - Sezione quotata del muro

Descrizione pali di fondazione

Simbologia adottata

n°	numero d'ordine della fila
X	ascissa della fila misurata dallo spigolo di monte della fondazione espressa in [m]
I	interasse tra i pali, espressa in [m]
f	franco laterale (distanza minima dal bordo laterale), espressa in [m]
Np	Numero di pali della fila
D	diametro dei pali della fila espresso in [cm]
L	lunghezza dei pali della fila espressa in [m]
α	inclinazione dei pali della fila rispetto alla verticale espressa in [°]
ALL	allineamento dei pali della fila rispetto al baricentro della fondazione (CENTRATI o SFALSATI)

n°	Tipologia	X [m]	I [m]	f [m]	Np	D [cm]	L [m]	α [°]	ALL
1	Tipologia palo	0.80	2.40	0.80	5	80.00	18.00	0.00	Centrati
2	Tipologia palo	3.20	2.40	0.80	5	80.00	18.00	0.00	Centrati
3	Tipologia palo	5.60	2.40	0.80	5	80.00	18.00	0.00	Centrati



APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO												
PROGETTAZIONE: Mandataria: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.	PROGETTO ESECUTIVO												
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	<table border="1"> <tr> <td>COMMESSA</td> <td>LOTTO</td> <td>CODIFICA</td> <td>DOCUMENTO</td> <td>REV.</td> <td>FOGLIO</td> </tr> <tr> <td>IF2R</td> <td>2.2.E.ZZ</td> <td>CL</td> <td>TR.16.0.5.003</td> <td>A</td> <td>5 di 123</td> </tr> </table>	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	5 di 123
COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO								
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	5 di 123								

Fig. 2 - Pianta pali

Descrizione terreni

Parametri di resistenza

Simbologia adottata

n°	Indice del terreno
Descr	Descrizione terreno
γ	Peso di volume del terreno espresso in [kN/mc]
γ_s	Peso di volume saturo del terreno espresso in [kN/mc]
ϕ	Angolo d'attrito interno espresso in [°]
δ	Angolo d'attrito terra-muro espresso in [°]
c	Coesione espressa in [kPa]
ca	Adesione terra-muro espressa in [kPa]
Per calcolo portanza con il metodo di Bustamante-Doix	
Cesp	Coeff. di espansione laterale (solo per il metodo di Bustamante-Doix)
τ_l	Tensione tangenziale limite, espressa in [kPa]

n°	Descr	γ [kN/mc]	γ_{sat} [kN/mc]	ϕ [°]	δ [°]	c [kPa]	ca [kPa]	Cesp	τ_l [kPa]	
1	RILEVATO FERROVIARIO	20.0000	20.0000	38.000	0.000	0	0	1.000	0	(CAR)
				38.000	0.000	0	0			(MIN)
				38.000	0.000	0	0			(MED)
2	bc1	19.5000	19.5000	34.000	34.000	0	0	1.000	0	(CAR)
				34.000	34.000	0	0			(MIN)
				34.000	34.000	0	0			(MED)
3	bc3	19.5000	19.5000	0.000	0.000	100	100	1.000	0	(CAR)
				0.000	0.000	100	100			(MIN)
				0.000	0.000	100	100			(MED)
4	bn1	20.0000	20.0000	34.000	34.000	0	0	1.000	0	(CAR)
				34.000	34.000	0	0			(MIN)
				34.000	34.000	0	0			(MED)
5	MDL1	20.0000	20.0000	38.000	38.000	0	0	1.000	0	(CAR)
				38.000	38.000	0	0			(MIN)
				38.000	38.000	0	0			(MED)

Stratigrafia

Simbologia adottata

n°	Indice dello strato
H	Spessore dello strato espresso in [m]
α	Inclinazione espressa in [°]
Terreno	Terreno dello strato
Kwn, Kwt	Costante di Winkler normale e tangenziale alla superficie espressa in Kg/cm ² /cm
Per calcolo pali (solo se presenti)	
Kw	Costante di Winkler orizzontale espressa in Kg/cm ² /cm
Ks	Coefficiente di spinta
Cesp	Coefficiente di espansione laterale (per tutti i metodi tranne il metodo di Bustamante-Doix)
Per calcolo della spinta con coeff. di spinta definiti (usati solo se attiva l'opzione 'Usa coeff. di spinta da strato')	
Kststa, Kstsis	Coeff. di spinta statico e sismico

n°	H [m]	α [°]	Terreno	Kwn [Kg/cm ²]	Kwt [Kg/cm ²]	Kw [Kg/cm ²]	Ks	Cesp	Kststa	Kstsis
1	10.30	0.000	RILEVATO FERROVIARIO	0.000	0.000	1.000	0.000	1.000	---	---
2	4.00	0.000	bc1	0.000	0.000	10.000	0.300	1.000	---	---
3	23.00	0.000	bn1	0.000	0.000	8.000	0.400	1.000	---	---

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO												
PROGETTAZIONE: Mandataria: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.													
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	<table border="1"> <tr> <td>COMMESSA</td> <td>LOTTO</td> <td>CODIFICA</td> <td>DOCUMENTO</td> <td>REV.</td> <td>FOGLIO</td> </tr> <tr> <td>IF2R</td> <td>2.2.E.ZZ</td> <td>CL</td> <td>TR.16.0.5.003</td> <td>A</td> <td>6 di 123</td> </tr> </table>	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	6 di 123
COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO								
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	6 di 123								

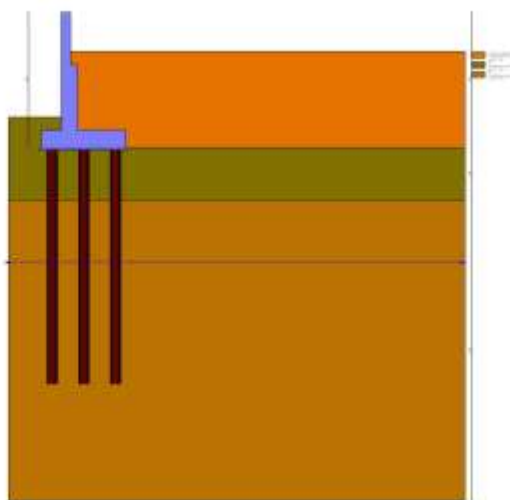


Fig. 3 - Stratigrafia

Condizioni di carico

Simbologia adottata

Carichi verticali positivi verso il basso.
Carichi orizzontali positivi verso sinistra.

Momento positivo senso antiorario.

X	Ascissa del punto di applicazione del carico concentrato espressa in [m]
F _x	Componente orizzontale del carico concentrato espressa in [kN]
F _y	Componente verticale del carico concentrato espressa in [kN]
M	Momento espresso in [kNm]
X _i	Ascissa del punto iniziale del carico ripartito espressa in [m]
X _f	Ascissa del punto finale del carico ripartito espressa in [m]
Q _i	Intensità del carico per x=X _i espressa in [kN]
Q _f	Intensità del carico per x=X _f espressa in [kN]

Condizione n° 1 (PESO BA) - PERMANENTE

Carichi sul muro

n°	Tipo	Dest	X; Y [m]	F _x [kN]	F _y [kN]	M [kNm]	X _i [m]	X _f [m]	Q _i [kN]	Q _f [kN]
1	Concentrato	Paramento	-0.35; 0.00	0.0000	5.0000	0.0000				

Condizione n° 2 (BALLAST+ARMAMENTO+MARCIAPIEDE) - PERMANENTE

Carichi sul terreno

n°	Tipo	X [m]	F _x [kN]	F _y [kN]	M [kNm]	X _i [m]	X _f [m]	Q _i [kN]	Q _f [kN]
1	Distribuito					0.00	3.35	5.6000	5.6000
2	Distribuito					3.35	8.00	14.4000	14.4000

Condizione n° 3 (LM71) - VARIABILE TF

Coeff. di combinazione $\Psi_0=1.00 - \Psi_1=0.75 - \Psi_2=0.20$

Carichi sul terreno

n°	Tipo	X [m]	F _x [kN]	F _y [kN]	M [kNm]	X _i [m]	X _f [m]	Q _i [kN]	Q _f [kN]
1	Distribuito					3.35	8.00	57.2900	57.2900

Condizione n° 4 (VENTO+PA) - VARIABILE TF

Coeff. di combinazione $\Psi_0=1.00 - \Psi_1=0.75 - \Psi_2=0.00$

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO
PROGETTAZIONE: Mandataria: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.	
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO IF2R 2.2.E.ZZ CL TR.16.0.5.003 A 7 di 123

Carichi sul muro

n°	Tipo	Dest	X; Y [m]	Fx [kN]	Fy [kN]	M [kNm]	Xi [m]	Xf [m]	Qi [kN]	Qf [kN]
1	Concentrato	Paramento	-0.35; 0.00	7.0000	0.0000	2.0000				

Condizione n° 5 (INERZIA BARRIERA) - VARIABILE

Coeff. di combinazione $\Psi_0=1.00 - \Psi_1=1.00 - \Psi_2=1.00$

Carichi sul muro

n°	Tipo	Dest	X; Y [m]	Fx [kN]	Fy [kN]	M [kNm]	Xi [m]	Xf [m]	Qi [kN]	Qf [kN]
1	Concentrato	Paramento	-0.35; 0.00	7.5000	0.0000	9.0000				

Normativa

Normativa usata: **Norme Tecniche sulle Costruzioni 2008 (D.M. 14.01.2008) - Approccio 2 + Circolare C.S.LL.PP. 02/02/2009 n.617**

Coeff. parziali per le azioni o per l'effetto delle azioni

Carichi	Effetto		Combinazioni statiche					Combinazioni sismiche		
			HYD	UPL	EQU	A1	A2	EQU	A1	A2
Permanenti strutturali	Favorevoli	$\gamma_{G1, fav}$	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00
Permanenti strutturali	Sfavorevoli	$\gamma_{G1, sfav}$	1.00	1.10	1.30	1.30	1.00	1.00	1.00	1.00
Permanenti non strutturali	Favorevoli	$\gamma_{G2, fav}$	0.00	0.80	0.80	0.80	0.80	0.00	0.00	0.00
Permanenti non strutturali	Sfavorevoli	$\gamma_{G2, sfav}$	1.00	1.50	1.50	1.50	1.30	1.00	1.00	1.00
Variabili	Favorevoli	$\gamma_{Q, fav}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Variabili	Sfavorevoli	$\gamma_{Q, sfav}$	1.00	1.50	1.50	1.50	1.30	1.00	1.00	1.00
Variabili da traffico	Favorevoli	$\gamma_{QT, fav}$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Variabili da traffico	Sfavorevoli	$\gamma_{QT, sfav}$	1.00	1.50	1.45	1.45	1.15	1.00	1.00	1.00

Coeff. parziali per i parametri geotecnici del terreno

Parametro		Combinazioni statiche		Combinazioni sismiche	
		M1	M2	M1	M2
Tangente dell'angolo di attrito	$\gamma_{\tan(\phi)}$	1.00	1.25	1.00	1.00
Coesione efficace	γ_c	1.00	1.25	1.00	1.00
Resistenza non drenata	γ_{cu}	1.00	1.40	1.00	1.00
Peso nell'unità di volume	γ_r	1.00	1.00	1.00	1.00

Coeff. parziali γ_R per le verifiche agli stati limite ultimi STR e GEO

Verifica	Combinazioni statiche			Combinazioni sismiche		
	R1	R2	R3	R1	R2	R3
Capacità portante	--	--	1.40	--	--	1.20
Scorrimento	--	--	1.10	--	--	1.00
Resistenza terreno a valle	--	--	1.40	--	--	1.20
Ribaltamento	--	--	1.15	--	--	1.00
Stabilità fronte di scavo	--	1.10	--	--	1.20	--

Carichi verticali. Coeff. parziali γ_R da applicare alle resistenze caratteristiche

Resistenza		Pali infissi			Pali trivellati			Pali ad elica continua		
		R1	R2	R3	R1	R2	R3	R1	R2	R3
Punta	γ_b	--	--	1.15	--	--	1.35	--	--	1.30
Laterale compressione	γ_s	--	--	1.15	--	--	1.15	--	--	1.15
Totale compressione	γ_t	--	--	1.15	--	--	1.30	--	--	1.25
Laterale trazione	γ_{st}	--	--	1.25	--	--	1.25	--	--	1.25

Carichi trasversali. Coeff. parziali γ_R da applicare alle resistenze caratteristiche

		R1	R2	R3
Trasversale	γ_t	--	--	1.30

Coefficienti di riduzione ζ per la determinazione della resistenza caratteristica dei pali

Numero di verticali indagate 1

$\zeta_3=1.70 \quad \zeta_4=1.70$

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO					
PROGETTAZIONE: Mandatario: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	8 di 123

Descrizione combinazioni di carico

Con riferimento alle azioni elementari prima determinate, si sono considerate le seguenti combinazioni di carico:

- Combinazione fondamentale, impiegata per gli stati limite ultimi (SLU):

$$\gamma_{G1} G_1 + \gamma_{G2} G_2 + \gamma_{Q1} Q_{k1} + \gamma_{Q2} Q_{k2} + \gamma_{Q3} Q_{k3} + \dots$$

- Combinazione caratteristica, cosiddetta rara, impiegata per gli stati limite di esercizio (SLE) irreversibili:

$$G_1 + G_2 + Q_{k1} + \Psi_{0,2} Q_{k2} + \Psi_{0,3} Q_{k3} + \dots$$

- Combinazione frequente, impiegata per gli stati limite di esercizio (SLE) reversibili:

$$G_1 + G_2 + \Psi_{1,1} Q_{k1} + \Psi_{2,2} Q_{k2} + \Psi_{2,3} Q_{k3} + \dots$$

- Combinazione quasi permanente, impiegata per gli effetti di lungo periodo:

$$G_1 + G_2 + \Psi_{2,1} Q_{k1} + \Psi_{2,2} Q_{k2} + \Psi_{2,3} Q_{k3} + \dots$$

- Combinazione sismica, impiegata per gli stati limite ultimi connessi all'azione sismica E:

$$E + G_1 + G_2 + \Psi_{2,1} Q_{k1} + \Psi_{2,2} Q_{k2} + \Psi_{2,3} Q_{k3} + \dots$$

I valori dei coeff. $\Psi_{0,j}$, $\Psi_{1,j}$, $\Psi_{2,j}$ sono definiti nelle singole condizioni variabili. per I valori dei coeff. γ_G e γ_Q , sono definiti nella tabella normativa.

In particolare si sono considerate le seguenti combinazioni:

Simbologia adottata

γ Coefficiente di partecipazione della condizione
 Ψ Coefficiente di combinazione della condizione

Combinazione n° 1 - STR (A1-M1-R3)

Condizione	γ	Ψ	Effetto
Peso muro	1.00	--	Favorevole
Peso terrapieno	1.00	--	Favorevole
Spinta terreno	1.30	--	Sfavorevole
PESO BA	1.30	--	Sfavorevole
BALLAST+ARMAMENTO+MARCIAPIEDE	1.30	--	Sfavorevole
LM71	1.45	1.00	Sfavorevole
VENTO+PA	1.45	1.00	Sfavorevole

Combinazione n° 2 - STR (A1-M1-R3) H

Condizione	γ	Ψ	Effetto
Peso muro	1.00	--	Favorevole
Peso terrapieno	1.00	--	Favorevole
Spinta terreno	1.00	--	Sfavorevole
PESO BA	1.00	--	Sfavorevole
BALLAST+ARMAMENTO+MARCIAPIEDE	1.00	--	Sfavorevole
LM71	1.00	0.20	Sfavorevole
INERZIA BARRIERA	1.00	1.00	Sfavorevole

Combinazione n° 3 - GEO (A2-M2-R2)

Condizione	γ	Ψ	Effetto
Peso muro	1.00	--	Sfavorevole
Peso terrapieno	1.00	--	Sfavorevole
Spinta terreno	1.00	--	Sfavorevole
PESO BA	1.00	--	Sfavorevole
BALLAST+ARMAMENTO+MARCIAPIEDE	1.00	--	Sfavorevole
LM71	1.15	1.00	Sfavorevole
VENTO+PA	1.15	1.00	Sfavorevole

Combinazione n° 4 - GEO (A2-M2-R2) H

Condizione	γ	Ψ	Effetto
Peso muro	1.00	--	Sfavorevole

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO												
PROGETTAZIONE: Mandatario: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.													
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	<table border="1"> <tr> <td>COMMESSA</td> <td>LOTTO</td> <td>CODIFICA</td> <td>DOCUMENTO</td> <td>REV.</td> <td>FOGLIO</td> </tr> <tr> <td>IF2R</td> <td>2.2.E.ZZ</td> <td>CL</td> <td>TR.16.0.5.003</td> <td>A</td> <td>9 di 123</td> </tr> </table>	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	9 di 123
COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO								
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	9 di 123								

Condizione	γ	Ψ	Effetto
Peso terrapieno	1.00	--	Sfavorevole
Spinta terreno	1.00	--	Sfavorevole
PESO BA	1.00	--	Sfavorevole
BALLAST+ARMAMENTO+MARCIPIEDE	1.00	--	Sfavorevole
LM71	1.00	0.20	Sfavorevole
INERZIA BARRIERA	1.00	1.00	Sfavorevole

Combinazione n° 5 - SLER

Condizione	γ	Ψ	Effetto
Peso muro	1.00	--	Sfavorevole
Peso terrapieno	1.00	--	Sfavorevole
Spinta terreno	1.00	--	Sfavorevole
PESO BA	1.00	--	Sfavorevole
BALLAST+ARMAMENTO+MARCIPIEDE	1.00	--	Sfavorevole
LM71	1.00	1.00	Sfavorevole
VENTO+PA	1.00	1.00	Sfavorevole

Combinazione n° 6 - SLEF

Condizione	γ	Ψ	Effetto
Peso muro	1.00	--	Sfavorevole
Peso terrapieno	1.00	--	Sfavorevole
Spinta terreno	1.00	--	Sfavorevole
PESO BA	1.00	--	Sfavorevole
BALLAST+ARMAMENTO+MARCIPIEDE	1.00	--	Sfavorevole
LM71	1.00	0.75	Sfavorevole

Combinazione n° 7 - SLEQ

Condizione	γ	Ψ	Effetto
Peso muro	1.00	--	Sfavorevole
Peso terrapieno	1.00	--	Sfavorevole
Spinta terreno	1.00	--	Sfavorevole
PESO BA	1.00	--	Sfavorevole
BALLAST+ARMAMENTO+MARCIPIEDE	1.00	--	Sfavorevole

Combinazione n° 8 - SLEF

Condizione	γ	Ψ	Effetto
Peso muro	1.00	--	Sfavorevole
Peso terrapieno	1.00	--	Sfavorevole
Spinta terreno	1.00	--	Sfavorevole
PESO BA	1.00	--	Sfavorevole
BALLAST+ARMAMENTO+MARCIPIEDE	1.00	--	Sfavorevole
LM71	1.00	0.20	Sfavorevole
VENTO+PA	1.00	0.75	Sfavorevole

Dati sismici

Comune	Ponte
Provincia	Benevento
Regione	Campania
Latitudine	41.213973
Longitudine	14.693540
Indice punti di interpolazione	31431 - 31653 - 31654 - 31432
Vita nominale	75 anni
Classe d'uso	III
Tipo costruzione	Normali affollamenti
Vita di riferimento	113 anni

	Simbolo	U.M.	SLU	SLE
Accelerazione al suolo	a_g	[m/s ²]	3.600	1.248
Accelerazione al suolo	a_g/g	[%]	0.367	0.127
Massimo fattore amplificazione spettro orizzontale	F0		2.347	2.332
Periodo inizio tratto spettro a velocità costante	Tc*		0.395	0.326
Tipo di sottosuolo - Coefficiente stratigrafico	Ss	B	1.055	1.200
Categoria topografica - Coefficiente amplificazione topografica	St	T1	1.000	

Stato limite ...	Coeff. di riduzione β_m	kh	kv
Ultimo	0.620	24.005	12.002

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO					
PROGETTAZIONE: Mandatario: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.						
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	COMMESSA IF2R	LOTTO 2.2.E.ZZ	CODIFICA CL	DOCUMENTO TR.16.0.5.003	REV. A	FOGLIO 10 di 123

Stato limite ...	Coeff. di riduzione β_m	kh	kv
Esercizio	1.000	15.261	7.630

Nel calcolo non è stato portato in conto il sisma verticale
Forma diagramma incremento sismico **Rettangolare**

Opzioni di calcolo

Spinta

Metodo di calcolo della spinta	Culmann
Tipo di spinta	Spinta a riposo
Terreno a bassa permeabilità	NO
Superficie di spinta limitata	NO

Stabilità globale

Metodo di calcolo della stabilità globale	Bishop
---	--------

Altro

Partecipazione spinta passiva terreno antistante	0.00
Partecipazione resistenza passiva dente di fondazione	50.00
Componente verticale della spinta nel calcolo delle sollecitazioni	NO
Considera terreno sulla fondazione di valle	NO
Considera spinta e peso acqua fondazione di valle	NO

Spostamenti

Modello a blocchi	
Non è stato richiesto il calcolo degli spostamenti	
Spostamento limite	5.00 [cm]

Opzioni calcolo pali

Portanza verticale

Metodo di calcolo della portanza alla punta	Berezantzev
Metodo di calcolo della portanza alla laterale	Integrazione delle tensioni tangenziali ($k_s \sigma_v \tan(\delta) + c_a$)
Correzione angolo di attrito in funzione del tipo di palo (infisso/trivellato)	Attiva
Andamento pressione verticale nel calcolo della portanza alla punta σ_v con la profondità	Pressione geostatica
Andamento pressione verticale nel calcolo della portanza laterale	Pressione geostatica

Portanza trasversale

Costante di Winkler: da strato	Criterio rottura palo-terreno
- Spostamento limite	Non attivo
- Pressione limite	Pressione passiva con moltiplicatore $M=3.00$
- Palo infinitamente elastico	Non attivo

Cedimenti

Metodo di calcolo	Metodo agli elementi finiti
Spostamento limite alla punta	1.00 [cm]
Spostamento limite laterale	0.50 [cm]

Specifiche per le verifiche nelle combinazioni allo Stato Limite Ultimo (SLU)

	SLU	Eccezionale
Coefficiente di sicurezza calcestruzzo a compressione	1.50	1.00
Coefficiente di sicurezza acciaio	1.15	1.00
Fattore di riduzione da resistenza cubica a cilindrica	0.83	0.83
Fattore di riduzione per carichi di lungo periodo	0.85	0.85
Coefficiente di sicurezza per la sezione	1.00	1.00

Specifiche per le verifiche nelle combinazioni allo Stato Limite di Esercizio (SLE)

Paramento e fondazione muro

Verifiche strutturali nelle combinazioni SLD **non eseguite**. Struttura in classe d'uso III o IV

Condizioni ambientali	Aggressive
Armatura ad aderenza migliorata	SI

Verifica a fessurazione

Sensibilità armatura	Poco sensibile
Metodo di calcolo aperture delle fessure	Circ. Min. 252 (15/10/96) - NTC 2008 I Formulazione

APPALTATORE: TELESE S.c.a r.l. <small>Consorzio Telese Società Consortile a Responsabilità Limitata</small>	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO					
PROGETTAZIONE: <u>Mandatario:</u> SYSTRA S.A. <u>Mandante:</u> SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.						
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	COMMESSA IF2R	LOTTO 2.2.E.ZZ	CODIFICA CL	DOCUMENTO TR.16.0.5.003	REV. A	FOGLIO 11 di 123

Valori limite aperture delle fessure:

$$w_1=0.20$$

$$w_2=0.30$$

$$w_3=0.40$$

Verifica delle tensioni

Valori limite delle tensioni nei materiali:

Combinazione	Calcestruzzo	Acciaio
Rara	0.60 f_{ck}	0.80 f_{yk}
Frequente	1.00 f_{ck}	1.00 f_{yk}
Quasi permanente	0.45 f_{ck}	1.00 f_{yk}

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO					
PROGETTAZIONE: Mandatario: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.						
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	COMMESSA IF2R	LOTTO 2.2.E.ZZ	CODIFICA CL	DOCUMENTO TR.16.0.5.003	REV. A	FOGLIO 12 di 123

Risultati per inviluppo

Spinta e forze

Simbologia adottata

Ic	Indice della combinazione
A	Tipo azione
I	Inclinazione della spinta, espressa in [°]
V	Valore dell'azione, espressa in [kN]
Cx, Cy	Componente in direzione X ed Y dell'azione, espressa in [kN]
Px, Py	Coordinata X ed Y del punto di applicazione dell'azione, espressa in [m]

Ic	A	V [kN]	I [°]	Cx [kN]	Cy [kN]	Px [m]	Py [m]
1	Spinta statica	443.03	0.00	443.03	0.00	4.20	-7.10
	Peso/Inerzia muro			0.00	419.73/0.00	0.39	-7.29
	Peso/Inerzia terrapieno			0.00	564.91/0.00	2.30	-5.94
	Peso dell'acqua sulla fondazione di valle				0.00	0.00	0.00
	Risultante forze sul muro			10.15	6.50	--	--
	Resistenza pali			-826.81			

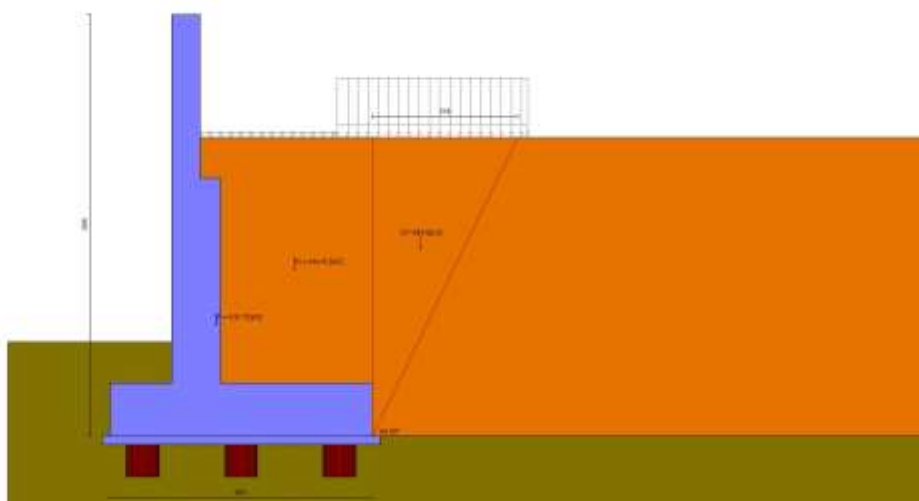


Fig. 4 - Cuneo di spinta (combinazione statica) (Combinazione n° 1)

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO					
PROGETTAZIONE: <u>Mandatario:</u> SYSTRA S.A. <u>Mandante:</u> SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	13 di 123

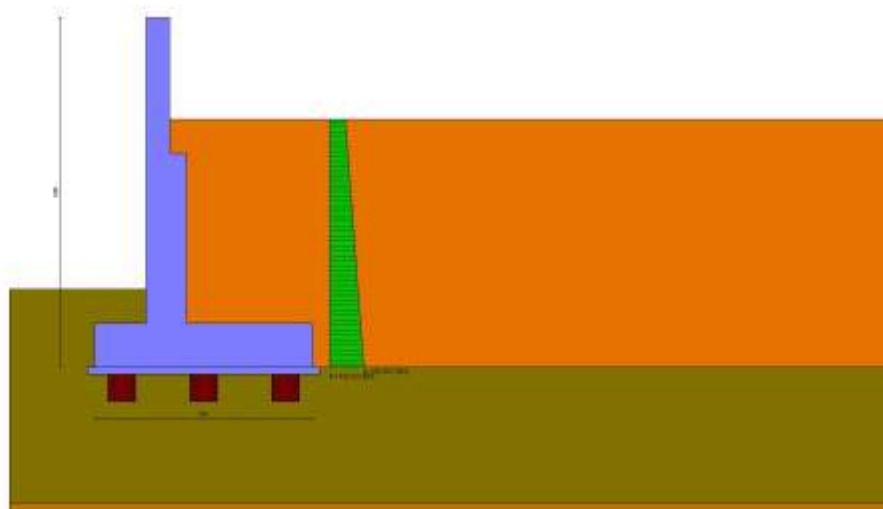


Fig. 5 - Diagramma delle pressioni (combinazione statica) (Combinazione n° 1)

Risultanti globali

Simbologia adottata

Cmb	Indice/Tipo combinazione
N	Componente normale al piano di posa, espressa in [kN]
T	Componente parallela al piano di posa, espressa in [kN]
M _r	Momento ribaltante, espresso in [kNm]
M _s	Momento stabilizzante, espresso in [kNm]
ecc	Eccentricità risultante, espressa in [m]

Ic	N [kN]	T [kN]	M _r [kNm]	M _s [kNm]	ecc [m]
1 - STR (A1-M1-R3)	991.14	453.18	1523.99	3642.37	1.063
2 - STR (A1-M1-R3)	919.47	612.54	2168.30	3322.09	1.945
3 - GEO (A2-M2-R2)	965.73	437.59	1457.16	3532.58	1.051
4 - GEO (A2-M2-R2)	919.47	612.54	2168.30	3322.09	1.945
5 - SLEF	958.43	336.31	1121.85	3499.34	0.719
6 - SLEF	946.25	304.44	956.97	3443.95	0.572
7 - SLEQ	909.73	229.82	684.63	3277.77	0.350
8 - SLEF	919.47	254.97	812.83	3322.09	0.471

Scarichi in testa ai pali

Simbologia adottata

Cmb	Indice/Tipo combinazione
Ip	Indice palo
N	Sforzo normale, espresso in [kN]
M	Momento, espresso in [kNm]
T	Taglio, espresso in [kN]

Cmb	Ip	N [kN]	M [kNm]	T [kN]
1 - STR (A1-M1-R3)	1	-38.43	-487.54	-362.53
	2	792.91	-487.54	-362.53
	3	1624.26	-487.54	-362.53

Verifiche geotecniche

Quadro riassuntivo coeff. di sicurezza calcolati

Simbologia adottata

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO												
PROGETTAZIONE: Mandataria: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.													
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	<table border="1"> <tr> <td>COMMESSA</td> <td>LOTTO</td> <td>CODIFICA</td> <td>DOCUMENTO</td> <td>REV.</td> <td>FOGLIO</td> </tr> <tr> <td>IF2R</td> <td>2.2.E.ZZ</td> <td>CL</td> <td>TR.16.0.5.003</td> <td>A</td> <td>14 di 123</td> </tr> </table>	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	14 di 123
COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO								
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	14 di 123								

Cmb	Indice/Tipo combinazione
S	Sisma (H: componente orizzontale, V: componente verticale)
FS _{SCO}	Coeff. di sicurezza allo scorrimento
FS _{RIB}	Coeff. di sicurezza al ribaltamento
FS _{QLIM}	Coeff. di sicurezza a carico limite
FS _{STAB}	Coeff. di sicurezza a stabilità globale
FS _{HYD}	Coeff. di sicurezza a sifonamento
FS _{UPL}	Coeff. di sicurezza a sollevamento

Cmb	Sismica	FS _{SCO}	FS _{RIB}	FS _{QLIM}	FS _{STAB}	FS _{HYD}	FS _{UPL}
1 - STR (A1-M1-R3)		1.824					
2 - STR (A1-M1-R3)	H	1.323					
3 - GEO (A2-M2-R2)					3.638		
4 - GEO (A2-M2-R2)	H				2.883		

Verifiche portanza trasversale (scorrimento)

Simbologia adottata

Ic	Indice/Tipo combinazione
Ip	Indice palo
T	Carico orizzontale agente alla testa del palo, espresso in [kN]
Td	Portanza trasversale di progetto, espresso in [kN]
FS _o	Fattore di sicurezza (Td/T)

Ic	Ip	T [kN]	Td [kN]	FS _o
2 - STR (A1-M1-R3) H	1	-490.02	807.56	1.648
	2	-490.02	807.56	1.648
	3	-490.02	807.56	1.648

Verifica stabilità globale muro + terreno

Simbologia adottata

Ic	Indice/Tipo combinazione
C	Centro superficie di scorrimento, espresso in [m]
R	Raggio, espresso in [m]
FS	Fattore di sicurezza

Ic	C [m]	R [m]	FS
4 - GEO (A2-M2-R2) H	-4.00; 4.50	16.93	2.883

Dettagli strisce verifiche stabilità

Simbologia adottata

Le ascisse X sono considerate positive verso monte	
Le ordinate Y sono considerate positive verso l'alto	
Origine in testa al muro (spigolo contro terra)	
W	peso della striscia espresso in [kN]
Qy	carico sulla striscia espresso in [kN]
Qf	carico acqua sulla striscia espresso in [kN]
α	angolo fra la base della striscia e l'orizzontale espresso in [°] (positivo antiorario)
φ	angolo d'attrito del terreno lungo la base della striscia
c	coesione del terreno lungo la base della striscia espressa in [kPa]
b	larghezza della striscia espressa in [m]
u	pressione neutra lungo la base della striscia espressa in [kPa]
Tx; Ty	Resistenza al taglio fornita dai tiranti in direzione X ed Y espressa in [kPa]

n°	W [kN]	Qy [kN]	Qf [kN]	b [m]	α [°]	φ [°]	c [kPa]	u [kPa]	Tx; Ty [kN]
1	19.53	0.00	0.00	11.19 - 1.06	59.862	38.000	0	0.0	
2	54.38	0.00	0.00	1.06	53.510	38.000	0	0.0	
3	82.21	0.13	0.00	1.06	47.796	38.000	0	0.0	
4	105.16	27.53	0.00	1.06	42.662	38.000	0	0.0	
5	124.44	27.53	0.00	1.06	37.927	38.000	0	0.0	
6	140.77	27.53	0.00	1.06	33.481	38.000	0	0.0	
7	157.32	27.53	0.00	1.06	29.255	38.000	0	0.0	
8	172.29	13.78	0.00	1.06	25.198	34.000	0	0.0	
9	181.79	5.96	0.00	1.06	21.272	34.000	0	0.0	
10	189.57	5.96	0.00	1.06	17.449	34.000	0	0.0	
11	263.08	8.03	0.00	1.06	13.706	34.000	0	0.0	
12	115.94	0.00	0.00	1.06	10.021	34.000	0	0.0	
13	112.68	0.00	0.00	1.06	6.378	34.000	0	0.0	
14	92.62	0.00	0.00	1.06	2.760	34.000	0	0.0	
15	92.99	0.00	0.00	1.06	-0.846	34.000	0	0.0	

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO												
PROGETTAZIONE: Mandataria: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.													
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	<table border="1"> <tr> <td>COMMESSA</td> <td>LOTTO</td> <td>CODIFICA</td> <td>DOCUMENTO</td> <td>REV.</td> <td>FOGLIO</td> </tr> <tr> <td>IF2R</td> <td>2.2.E.ZZ</td> <td>CL</td> <td>TR.16.0.5.003</td> <td>A</td> <td>15 di 123</td> </tr> </table>	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	15 di 123
COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO								
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	15 di 123								

n°	W [kN]	Qy [kN]	Qf [kN]	b [m]	α [°]	ϕ [°]	c [kPa]	u [kPa]	Tx; Ty [kN]
16	91.96	0.00	0.00	1.06	-4.456	34.000	0	0.0	
17	89.53	0.00	0.00	1.06	-8.083	34.000	0	0.0	
18	85.66	0.00	0.00	1.06	-11.744	34.000	0	0.0	
19	80.31	0.00	0.00	1.06	-15.454	34.000	0	0.0	
20	73.40	0.00	0.00	1.06	-19.233	34.000	0	0.0	
21	64.83	0.00	0.00	1.06	-23.100	34.000	0	0.0	
22	54.46	0.00	0.00	1.06	-27.084	34.000	0	0.0	
23	41.93	0.00	0.00	1.06	-31.215	34.000	0	0.0	
24	26.96	0.00	0.00	1.06	-35.537	34.000	0	0.0	
25	9.32	0.00	0.00	-15.43 - 1.06	-39.763	34.000	0	0.0	

Resistenza al taglio pali 1137.13 [kN]

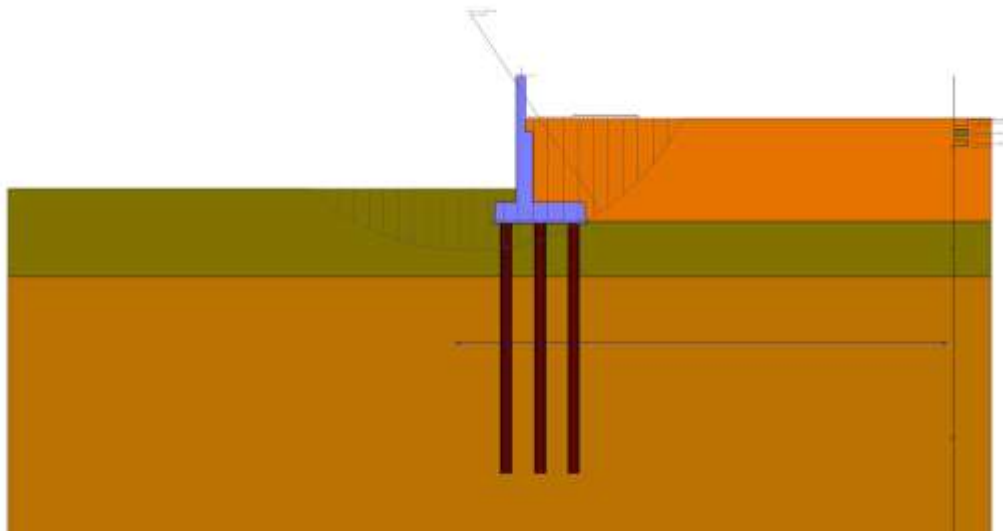


Fig. 6 - Stabilità fronte di scavo - Cerchio critico (Combinazione n° 4)

Sollecitazioni

Elementi calcolati a trave

Simbologia adottata

- N Sforzo normale, espresso in [kN]. Positivo se di compressione.
T Taglio, espresso in [kN]. Positivo se diretto da monte verso valle
M Momento, espresso in [kNm]. Positivo se tende le fibre contro terra (a monte)

Elementi calcolati a piastra

Simbologia adottata

- Mx, My Momenti flettenti, espresso in [kNm]
Mxy Momento torcente, espresso in [kNm]. Positivo se diretto da monte verso valle
Tx, Ty Tagli, espresso in [kN]. Positivo se tende le fibre contro terra (a monte)
I momenti flettenti sono positivi se tendono le fibre inferiori (intradosso fondazione, paramento esterno)

Paramento

n°	X [m]	N _{min} [kN]	N _{max} [kN]	T _{min} [kN]	T _{max} [kN]	M _{min} [kNm]	M _{max} [kNm]
1	0.00	5.00	6.50	0.00	10.15	0.00	9.00
2	-0.10	6.72	8.22	0.00	10.15	0.00	9.89
3	-0.20	8.43	9.93	0.00	10.15	0.00	10.82
4	-0.30	10.15	11.65	0.00	10.15	0.00	11.79
5	-0.40	11.86	13.36	0.00	10.35	0.00	12.81
6	-0.50	13.58	15.08	0.00	10.76	0.00	13.86
7	-0.60	15.29	16.79	0.00	11.17	0.00	14.96
8	-0.70	17.01	18.51	0.00	11.58	0.00	16.10
9	-0.80	18.73	20.23	0.00	12.00	0.00	17.28
10	-0.90	20.44	21.94	0.00	12.41	0.00	18.50

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandatario:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	16 di 123

n°	X [m]	Nmin [kN]	Nmax [kN]	Tmin [kN]	Tmax [kN]	Mmin [kNm]	Mmax [kNm]
11	-1.00	22.16	23.66	0.00	12.82	0.00	19.76
12	-1.10	23.87	25.37	0.00	13.23	0.00	21.06
13	-1.20	25.59	27.09	0.00	13.64	0.00	22.40
14	-1.30	27.30	28.80	0.00	14.05	0.00	23.79
15	-1.40	29.02	30.52	0.00	14.47	0.00	25.21
16	-1.50	30.74	32.24	0.00	14.88	0.00	26.68
17	-1.60	32.45	33.95	0.00	15.29	0.00	28.19
18	-1.70	34.17	35.67	0.00	15.70	0.00	29.74
19	-1.80	35.88	37.38	0.00	16.11	0.00	31.33
20	-1.90	37.60	39.10	0.00	16.53	0.00	32.96
21	-2.00	39.32	40.82	0.00	16.94	0.00	34.63
22	-2.10	41.03	42.53	0.00	17.35	0.00	36.35
23	-2.20	42.75	44.25	0.00	17.76	0.00	38.10
24	-2.30	44.46	45.96	0.00	18.17	0.00	39.90
25	-2.40	46.18	47.68	0.00	18.58	0.00	41.73
26	-2.50	47.89	49.39	0.00	19.00	0.00	43.61
27	-2.60	49.61	51.11	0.00	19.41	0.00	45.53
28	-2.70	51.33	52.83	0.00	19.82	0.00	47.49
29	-2.80	53.04	54.54	0.00	20.23	0.00	49.50
30	-2.90	54.76	56.26	0.00	20.64	0.00	51.54
31	-3.00	56.47	57.97	0.00	21.06	0.00	53.62
32	-3.10	58.19	59.69	1.03	24.29	0.05	55.89
33	-3.20	59.90	61.40	2.11	27.59	0.21	58.48
34	-3.30	61.62	63.12	3.24	30.93	0.47	61.41
35	-3.40	63.34	64.84	4.42	34.33	0.86	64.67
36	-3.50	65.05	66.55	5.65	37.77	1.36	68.27
37	-3.60	66.77	68.27	6.92	41.26	1.99	72.22
38	-3.70	68.48	69.98	8.24	44.80	2.74	76.52
39	-3.80	70.20	71.70	9.61	48.38	3.64	81.18
40	-3.90	71.91	73.41	11.02	52.01	4.67	86.20
41	-4.00	73.63	75.13	12.49	55.69	5.84	91.58
42	-4.00	86.48	88.82	12.59	58.92	19.80	107.16
43	-4.10	89.42	91.76	20.57	69.40	21.47	113.59
44	-4.20	92.36	94.70	26.62	77.96	23.85	120.97
45	-4.30	95.30	97.64	30.77	84.63	26.73	129.12
46	-4.40	98.24	100.58	33.04	89.41	29.93	137.83
47	-4.50	101.18	103.52	34.45	93.32	33.31	146.96
48	-4.60	104.12	106.46	35.95	97.33	36.82	156.49
49	-4.70	107.06	109.40	37.53	101.43	40.49	166.42
50	-4.80	110.00	112.34	39.20	105.61	44.33	176.77
51	-4.90	112.94	115.28	40.94	109.85	48.33	187.53
52	-5.00	115.88	118.22	42.74	114.17	52.51	198.73
53	-5.10	118.82	121.16	44.61	118.55	56.88	210.36
54	-5.20	121.76	124.10	46.54	122.99	61.43	222.43
55	-5.30	124.70	127.04	48.53	127.48	66.18	234.94
56	-5.40	127.65	129.99	50.57	132.04	71.14	247.91
57	-5.50	130.59	132.93	52.67	136.65	76.29	261.34
58	-5.60	133.53	135.87	54.83	141.31	81.67	275.23
59	-5.70	136.47	138.81	57.04	146.03	87.26	289.59
60	-5.80	139.41	141.75	59.30	150.81	93.07	304.43
61	-5.90	142.35	144.69	61.61	155.63	99.11	319.74
62	-6.00	145.29	147.63	63.98	160.51	105.39	335.54
63	-6.10	148.23	150.57	66.40	165.44	111.90	351.83
64	-6.20	151.17	153.51	68.87	170.41	118.66	368.61
65	-6.30	154.11	156.45	71.39	175.44	125.67	385.89
66	-6.40	157.05	159.39	73.96	180.52	132.93	403.68
67	-6.50	159.99	162.33	76.57	185.65	140.46	421.98
68	-6.60	162.93	165.27	79.24	190.83	148.24	440.80
69	-6.70	165.87	168.21	81.96	196.06	156.30	460.13
70	-6.80	168.81	171.15	84.73	201.34	164.63	479.99
71	-6.90	171.75	174.09	87.55	206.67	173.24	500.38
72	-7.00	174.69	177.03	90.41	212.04	182.13	521.30
73	-7.10	177.63	179.97	93.33	217.47	191.31	542.77
74	-7.20	180.58	182.92	96.29	222.94	200.79	564.78
75	-7.30	183.52	185.86	99.31	228.46	210.56	587.34
76	-7.40	186.46	188.80	102.37	234.04	220.64	610.45
77	-7.50	189.40	191.74	105.48	239.65	231.03	634.12
78	-7.60	192.34	194.68	108.64	245.32	241.73	658.36
79	-7.70	195.28	197.62	111.84	251.04	252.75	683.16
80	-7.80	198.22	200.56	115.10	256.80	264.09	708.54
81	-7.90	201.16	203.50	118.40	262.62	275.76	734.50
82	-8.00	204.10	206.44	121.75	268.48	287.76	761.04
83	-8.00	204.16	206.50	121.82	268.60	288.00	761.58
84	-8.10	207.10	209.44	125.22	274.51	300.34	788.71
85	-8.20	210.04	212.38	128.66	280.46	313.02	816.43
86	-8.30	212.98	215.32	132.16	286.46	326.05	844.74
87	-8.40	215.92	218.26	135.70	292.52	339.43	873.66
88	-8.50	218.85	221.19	139.29	298.63	353.16	903.19
89	-8.60	221.79	224.13	142.93	304.82	367.26	933.33
90	-8.70	224.73	227.07	146.62	311.13	381.72	964.10
91	-8.80	227.67	230.01	150.36	317.60	396.56	995.50

APPALTATORE:

TELESE S.c.a r.l.
 Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
 RADDOPPIO TRATTA CANCELLO-BENEVENTO
 II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
 2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo
 IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	17 di 123

n°	X [m]	Nmin [kN]	Nmax [kN]	Tmin [kN]	Tmax [kN]	Mmin [kNm]	Mmax [kNm]
92	-8.90	230.61	232.95	154.15	324.24	411.77	1027.56
93	-9.00	233.55	235.89	158.00	331.05	427.36	1060.29

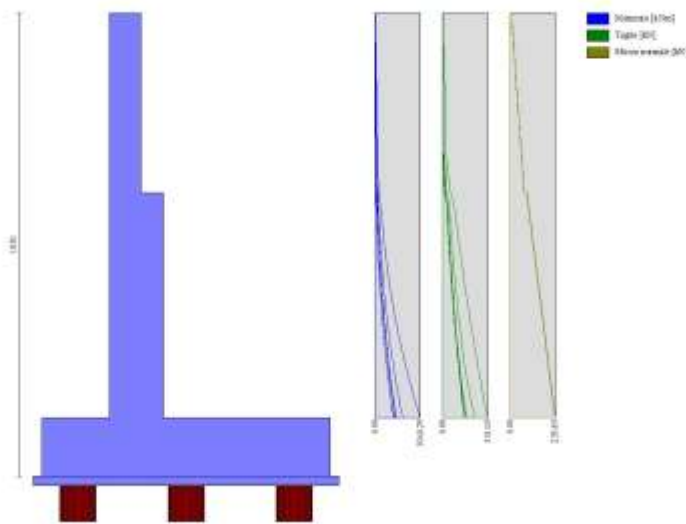


Fig. 7 - Paramento

Piastra fondazione

In	Mx [kNm]	My [kNm]	Mxy [kNm]	Tx [kN]	Ty [kN]	
1	-2.71	6.37	-5.29	-4.58	46.17	MAX
	-4.51	1.72	-14.92	-56.06	6.87	MIN
2	-33.44	-23.07	-8.56	-7.20	-16.87	MAX
	-72.98	-63.96	-24.52	-77.45	-19.46	MIN
3	4.39	-11.03	-12.00	141.74	-44.53	MAX
	-2.27	-42.44	-35.45	79.58	-72.54	MIN
4	6.17	-0.36	-1.86	61.39	8.42	MAX
	2.10	-10.35	-4.60	33.07	-14.30	MIN
5	-73.57	-0.82	-21.80	-9.16	64.67	MAX
	-161.66	-9.10	-62.79	-76.40	41.07	MIN
6	-90.98	-68.81	-29.93	105.93	-36.25	MAX
	-193.60	-180.98	-86.32	67.17	-83.11	MIN
7	12.18	11.97	10.16	214.21	-122.92	MAX
	7.02	-16.84	7.56	99.34	-236.03	MIN
8	23.68	25.36	2.82	100.07	-57.38	MAX
	10.38	21.94	2.23	44.46	-94.75	MIN
9	8.65	-30.90	-42.80	1077.70	-175.88	MAX
	7.05	-116.81	-161.00	523.52	-361.19	MIN
10	-81.78	117.24	2.28	-23.30	5.95	MAX
	-172.67	39.51	0.91	-45.75	-52.60	MIN
11	-65.07	441.16	6.90	-20.01	462.73	MAX
	-105.41	142.55	3.17	-39.02	293.95	MIN
12	-354.65	-333.50	12.04	-16.32	-392.44	MAX
	-736.80	-756.17	5.96	-30.14	-1013.11	MIN
13	9.35	83.09	33.11	223.55	-202.48	MAX
	-1.97	65.15	23.35	93.98	-416.87	MIN
14	19.05	135.79	38.28	64.47	-93.12	MAX
	11.13	84.43	21.60	23.80	-202.20	MIN
15	-29.45	28.73	18.38	296.86	-363.48	MAX
	-67.85	-8.92	5.71	124.56	-771.31	MIN
16	-73.25	-85.16	15.23	-11.24	-1003.09	MAX
	-204.07	-483.77	7.94	-20.19	-2210.15	MIN
17	-48.42	-0.33	67.62	-17.57	64.64	MAX
	-107.43	-6.57	23.58	-38.54	40.15	MIN
18	-69.33	-68.46	100.43	-104.41	-38.68	MAX
	-151.33	-179.67	36.17	-178.49	-85.58	MIN
19	42.54	-27.20	185.76	-554.62	-181.52	MAX
	26.45	-109.59	54.97	-1133.71	-370.29	MIN
20	-16.09	38.14	28.10	-146.09	-371.66	MAX
	-45.43	7.67	0.24	-334.39	-787.05	MIN

APPALTATORE:	TELESE S.c.a r.l. <small>Consorzio Telese Società Consortile a Responsabilità Limitata</small>	
PROGETTAZIONE:		
Mandataria:	Mandante:	
SYSTRA S.A.	SWS Engineering S.p.A.	SYSTRA-SOTECNI S.p.A.
Relazione di calcolo		
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX		

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	18 di 123

In	Mx [kNm]	My [kNm]	Mxy [kNm]	Tx [kN]	Ty [kN]	
21	81.29	270.97	58.07	0.00	-231.31	MAX
	45.13	150.44	34.41	0.00	-487.44	MIN
22	83.27	277.58	72.76	0.00	-105.19	MAX
	46.58	155.25	42.56	0.00	-244.22	MIN
23	86.47	288.23	24.49	0.00	-488.78	MAX
	55.93	186.44	22.07	0.00	-1051.11	MIN
24	52.16	173.88	14.50	0.00	-639.36	MAX
	39.78	132.60	7.72	0.00	-1416.02	MIN
25	93.05	310.18	8.85	0.00	-497.80	MAX
	59.27	197.56	-4.48	0.00	-1069.31	MIN
26	40.00	-21.30	27.98	-9.52	-20.88	MAX
	16.54	-56.85	9.63	-33.64	-23.81	MIN
27	79.74	-11.29	46.20	-105.67	-55.21	MAX
	36.53	-42.80	16.37	-191.61	-89.44	MIN
28	74.92	15.85	10.73	-122.95	-144.36	MAX
	43.69	-9.67	2.65	-254.66	-275.50	MIN
29	54.26	113.37	-0.51	-112.21	-230.53	MAX
	43.03	81.66	-5.70	-253.62	-471.28	MIN
30	95.85	319.51	-9.69	0.00	-261.89	MAX
	52.82	176.07	-14.19	0.00	-547.44	MIN
31	95.85	319.51	-9.69	0.00	-261.89	MAX
	52.82	176.07	-14.19	0.00	-547.44	MIN
32	95.85	319.51	-9.69	0.00	-261.89	MAX
	52.82	176.07	-14.19	0.00	-547.44	MIN
33	95.85	319.51	-9.69	0.00	-261.89	MAX
	52.82	176.07	-14.19	0.00	-547.44	MIN
34	95.85	319.51	-9.69	0.00	-261.89	MAX
	52.82	176.07	-14.19	0.00	-547.44	MIN
35	95.85	319.51	-9.69	0.00	-261.89	MAX
	52.82	176.07	-14.19	0.00	-547.44	MIN
36	95.85	319.51	-9.69	0.00	-261.89	MAX
	52.82	176.07	-14.19	0.00	-547.44	MIN
37	144.46	2.43	-0.48	-11.13	-15.39	MAX
	62.03	0.49	-0.88	-21.08	-19.69	MIN
38	95.00	-0.31	-0.30	-7.96	-52.97	MAX
	49.17	-16.43	-0.51	-15.23	-81.83	MIN
39	103.58	37.58	-0.17	-5.53	-125.66	MAX
	58.55	33.16	-0.25	-10.65	-234.18	MIN
40	94.46	147.91	0.21	-3.00	-184.96	MAX
	57.95	93.28	0.07	-5.79	-375.40	MIN
41	87.51	291.70	0.46	0.00	-206.62	MAX
	48.77	162.55	0.21	0.00	-430.72	MIN
42	87.51	291.70	0.46	0.00	-206.62	MAX
	48.77	162.55	0.21	0.00	-430.72	MIN
43	87.51	291.70	0.46	0.00	-206.62	MAX
	48.77	162.55	0.21	0.00	-430.72	MIN
44	87.51	291.70	0.46	0.00	-206.62	MAX
	48.77	162.55	0.21	0.00	-430.72	MIN
45	87.51	291.70	0.46	0.00	-206.62	MAX
	48.77	162.55	0.21	0.00	-430.72	MIN
46	87.51	291.70	0.46	0.00	-206.62	MAX
	48.77	162.55	0.21	0.00	-430.72	MIN
47	87.51	291.70	0.46	0.00	-206.62	MAX
	48.77	162.55	0.21	0.00	-430.72	MIN
48	87.51	291.70	0.46	0.00	-206.62	MAX
	48.77	162.55	0.21	0.00	-430.72	MIN
49	87.51	291.70	0.46	0.00	-206.62	MAX
	48.77	162.55	0.21	0.00	-430.72	MIN
50	53.80	-21.00	-10.42	9.60	-20.26	MAX
	23.71	-56.23	-29.39	-33.77	-23.03	MIN
51	92.93	-10.85	-16.61	159.46	-53.81	MAX
	43.37	-41.87	-46.48	88.89	-86.74	MIN
52	84.91	16.25	-2.40	231.76	-141.36	MAX
	48.91	-8.85	-10.06	111.02	-269.75	MIN
53	60.09	113.85	6.62	240.74	-226.17	MAX
	46.10	81.84	2.31	105.51	-462.96	MIN
54	95.04	316.80	16.38	0.00	-256.98	MAX
	52.37	174.55	10.78	0.00	-538.10	MIN
55	95.04	316.80	16.38	0.00	-256.98	MAX
	52.37	174.55	10.78	0.00	-538.10	MIN
56	95.04	316.80	16.38	0.00	-256.98	MAX
	52.37	174.55	10.78	0.00	-538.10	MIN
57	-109.59	-365.30	87.78	0.00	-212.20	MAX
	-359.15	-1197.16	1.06	0.00	-507.87	MIN
58	-113.38	-377.92	242.37	0.00	-191.13	MAX
	-388.88	-1296.26	47.26	0.00	-244.06	MIN
59	-87.70	-292.33	-23.92	0.00	-44.11	MAX
	-329.19	-1097.31	-36.62	0.00	-478.22	MIN
60	-22.98	-76.60	34.99	0.00	107.86	MAX
	-158.79	-529.29	1.10	0.00	-503.87	MIN
61	-86.84	-289.46	105.44	0.00	-38.28	MAX
	-344.58	-1148.59	39.27	0.00	-509.60	MIN

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
IF2R 2.2.E.ZZ CL TR.16.0.5.003 A 19 di 123

In	Mx [kNm]	My [kNm]	Mxy [kNm]	Tx [kN]	Ty [kN]	
62	-109.84	-366.13	33.24	0.00	-206.61	MAX
	-398.22	-1327.42	13.72	0.00	-617.94	MIN
63	-109.14	-363.81	5.96	0.00	-234.75	MAX
	-395.88	-1319.60	-1.13	0.00	-642.63	MIN
64	-108.95	-363.17	-15.81	0.00	-203.76	MAX
	-400.83	-1336.11	-19.21	0.00	-608.87	MIN
65	-32.58	0.36	-23.87	12.45	66.91	MAX
	-76.67	-5.11	-67.93	-29.26	41.29	MIN
66	-54.43	-67.48	-35.31	141.73	-36.17	MAX
	-122.53	-177.59	-98.41	85.34	-80.59	MIN
67	64.32	-26.07	-52.92	1106.60	-176.23	MAX
	37.93	-107.19	-181.48	540.36	-359.98	MIN
68	-9.19	39.46	2.88	318.09	-364.00	MAX
	-32.48	10.29	-21.97	137.42	-772.42	MIN
69	92.17	307.23	7.81	0.00	-489.17	MAX
	58.74	195.79	-2.72	0.00	-1052.97	MIN
70	92.17	307.23	7.81	0.00	-489.17	MAX
	58.74	195.79	-2.72	0.00	-1052.97	MIN
71	92.17	307.23	7.81	0.00	-489.17	MAX
	58.74	195.79	-2.72	0.00	-1052.97	MIN
72	-85.07	-283.58	-40.62	0.00	-32.23	MAX
	-350.74	-1169.14	-84.43	0.00	-494.17	MIN
73	-16.85	-296.21	57.87	77.84	-194.39	MAX
	-92.30	-1031.62	-4.97	56.50	-487.59	MIN
74	-9.92	-298.77	127.79	70.21	-192.19	MAX
	-61.03	-1083.43	20.18	25.49	-258.24	MIN
75	-96.93	-326.92	-34.45	101.28	-113.12	MAX
	-287.25	-1101.33	-41.90	80.73	-510.54	MIN
76	-88.70	-26.31	35.37	41.15	324.18	MAX
	-178.55	-244.06	0.44	4.50	-362.58	MIN
77	-106.71	-326.75	119.66	3.67	-108.31	MAX
	-342.69	-1149.19	41.76	-82.76	-543.45	MIN
78	-50.99	-299.64	38.66	10.97	-190.61	MAX
	-258.62	-1133.77	13.92	-40.71	-596.22	MIN
79	-66.59	-306.11	6.40	11.35	-222.32	MAX
	-307.30	-1164.33	-1.31	-0.49	-625.40	MIN
80	-50.99	-297.43	-16.38	40.17	-187.98	MAX
	-268.89	-1144.75	-23.76	13.95	-588.34	MIN
81	-107.41	-322.52	-43.57	83.69	-102.80	MAX
	-366.50	-1173.89	-97.70	28.17	-530.51	MIN
82	-54.50	119.78	-0.41	-3.91	7.38	MAX
	-118.57	40.54	-0.78	-7.46	-49.32	MIN
83	-39.81	444.51	-0.57	-1.91	468.97	MAX
	-56.45	144.06	-1.08	-3.67	296.78	MIN
84	-334.89	-331.04	-0.78	-0.74	-386.79	MAX
	-699.95	-751.07	-1.47	-1.45	-1001.55	MIN
85	-61.00	-81.28	-0.81	-0.04	-995.00	MAX
	-181.71	-475.93	-1.53	-0.10	-2194.68	MIN
86	52.49	174.97	-0.68	0.00	-630.23	MAX
	40.45	134.84	-1.28	0.00	-1399.01	MIN
87	52.49	174.97	-0.68	0.00	-630.23	MAX
	40.45	134.84	-1.28	0.00	-1399.01	MIN
88	52.49	174.97	-0.68	0.00	-630.23	MAX
	40.45	134.84	-1.28	0.00	-1399.01	MIN
89	-20.49	-68.31	0.27	0.00	117.53	MAX
	-170.93	-569.77	-0.52	0.00	-489.80	MIN
90	-91.89	-25.92	0.32	2.65	332.81	MAX
	-223.36	-266.85	-0.58	-0.57	-352.43	MIN
91	-17.51	-264.62	46.58	130.30	-183.05	MAX
	-82.74	-960.86	0.25	72.68	-472.02	MIN
92	1.96	-246.56	19.75	88.27	-196.38	MAX
	-13.27	-904.26	-5.84	40.42	-313.87	MIN
93	-28.45	-276.17	-49.32	465.25	-178.23	MAX
	-154.22	-975.87	-118.60	388.81	-538.12	MIN
94	-294.49	-440.34	28.39	60.81	-211.17	MAX
	-438.78	-1059.92	-1.32	7.26	-973.79	MIN
95	-43.14	-275.26	178.04	-332.41	-176.05	MAX
	-235.73	-1007.36	47.21	-383.41	-574.18	MIN
96	-47.90	-260.99	10.37	-20.55	-182.18	MAX
	-251.31	-1005.82	-0.54	-56.24	-576.01	MIN
97	-41.86	-257.67	6.19	18.57	-198.43	MAX
	-252.33	-1020.12	-1.45	-0.43	-591.72	MIN
98	-48.45	-259.28	3.65	64.32	-180.27	MAX
	-266.38	-1015.87	-2.31	56.06	-571.70	MIN
99	-45.29	-271.93	-49.84	410.29	-172.20	MAX
	-270.32	-1028.93	-158.89	373.93	-568.65	MIN
100	-300.77	-435.58	0.50	4.96	-205.57	MAX
	-503.23	-1095.33	-0.60	-0.83	-974.96	MIN
101	-31.46	0.39	66.39	13.43	67.81	MAX
	-74.50	-5.05	23.05	-21.03	41.76	MIN
102	-53.43	-67.60	96.35	-89.63	-35.24	MAX
	-120.58	-177.81	34.21	-149.97	-78.83	MIN

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	20 di 123

In	Mx [kNm]	My [kNm]	Mxy [kNm]	Tx [kN]	Ty [kN]	
103	65.56	-26.64	178.71	-542.26	-174.47	MAX
	38.57	-108.26	51.45	-1110.29	-356.64	MIN
104	-9.05	38.22	19.11	-137.77	-361.66	MAX
	-32.20	8.12	-4.40	-318.81	-767.96	MIN
105	91.01	303.36	0.36	0.00	-486.63	MAX
	58.12	193.74	-9.16	0.00	-1048.10	MIN
106	91.01	303.36	0.36	0.00	-486.63	MAX
	58.12	193.74	-9.16	0.00	-1048.10	MIN
107	91.01	303.36	0.36	0.00	-486.63	MAX
	58.12	193.74	-9.16	0.00	-1048.10	MIN
108	-84.75	-282.49	85.45	0.00	-31.86	MAX
	-350.60	-1168.67	39.54	0.00	-487.28	MIN
109	-107.00	-321.53	98.85	-22.23	-102.44	MAX
	-368.37	-1175.12	42.36	-84.80	-523.98	MIN
110	-44.82	-271.11	160.36	-371.35	-171.89	MAX
	-273.62	-1030.97	48.58	-404.76	-563.27	MIN
111	-18.73	-189.74	-1.13	182.38	-190.01	MAX
	-71.95	-771.05	-5.14	92.21	-494.77	MIN
112	0.81	-175.59	-1.16	88.50	-207.66	MAX
	-5.22	-716.95	-6.14	37.25	-443.44	MIN
113	-67.56	-211.69	-9.51	223.00	-234.75	MAX
	-128.47	-779.72	-23.36	102.59	-629.73	MIN
114	-106.26	-307.74	17.99	65.71	-652.13	MAX
	-268.28	-1234.15	-4.26	7.62	-1303.91	MIN
115	-79.43	-210.01	56.43	-87.20	-235.25	MAX
	-206.44	-791.76	0.83	-94.18	-667.32	MIN
116	-40.77	-187.61	23.34	-80.37	-188.46	MAX
	-219.98	-793.80	-2.79	-85.05	-581.09	MIN
117	-28.21	-181.05	6.37	24.00	-181.55	MAX
	-203.87	-789.52	-1.83	-0.22	-571.36	MIN
118	-41.58	-186.60	-1.01	131.32	-187.68	MAX
	-239.75	-802.89	-9.74	80.71	-581.80	MIN
119	-82.09	-208.00	-5.02	153.84	-233.90	MAX
	-250.57	-810.04	-40.44	89.83	-671.86	MIN
120	-113.14	-304.74	0.91	7.71	-650.71	MAX
	-347.17	-1261.50	-0.70	-0.99	-1319.38	MIN
121	-81.52	-207.39	42.72	-91.71	-233.72	MAX
	-255.75	-813.18	3.55	-137.31	-668.29	MIN
122	59.08	-20.91	27.94	15.23	-19.32	MAX
	26.45	-56.06	9.65	-19.54	-21.84	MIN
123	97.77	-11.02	44.75	-94.63	-51.95	MAX
	45.87	-42.19	15.68	-170.45	-83.20	MIN
124	88.15	15.15	7.86	-114.19	-137.79	MAX
	50.58	-10.76	1.23	-237.90	-262.97	MIN
125	61.16	109.85	-4.42	-106.71	-221.38	MAX
	46.63	79.70	-7.85	-243.12	-453.84	MIN
126	92.79	309.29	-11.67	0.00	-251.74	MAX
	51.17	170.58	-18.04	0.00	-528.11	MIN
127	92.79	309.29	-11.67	0.00	-251.74	MAX
	51.17	170.58	-18.04	0.00	-528.11	MIN
128	92.79	309.29	-11.67	0.00	-251.74	MAX
	51.17	170.58	-18.04	0.00	-528.11	MIN
129	-108.26	-360.86	21.75	0.00	-202.80	MAX
	-400.80	-1335.98	14.63	0.00	-595.12	MIN
130	-50.20	-295.38	26.53	-5.97	-187.06	MAX
	-273.24	-1148.00	15.05	-41.18	-575.36	MIN
131	-47.62	-257.59	0.90	-46.84	-179.51	MAX
	-273.81	-1020.59	-0.68	-58.18	-561.20	MIN
132	-40.56	-185.38	13.41	-82.22	-187.26	MAX
	-251.14	-809.59	-0.68	-111.35	-575.14	MIN
133	-14.66	-110.13	-7.36	90.91	-182.43	MAX
	-29.29	-550.41	-13.61	36.73	-525.72	MIN
134	-2.48	-106.02	-9.43	63.06	-207.63	MAX
	-5.51	-527.21	-21.34	26.41	-542.45	MIN
135	-34.45	-113.87	-10.72	104.76	-245.52	MAX
	-72.52	-593.06	-20.44	37.94	-675.90	MIN
136	-51.70	-132.56	7.78	52.25	-278.70	MAX
	-127.46	-672.05	-6.52	4.58	-786.63	MIN
137	-41.06	-112.78	31.27	-5.31	-247.08	MAX
	-130.63	-596.78	-2.68	-29.18	-710.00	MIN
138	-27.05	-108.84	16.97	-14.75	-177.56	MAX
	-137.79	-560.69	-3.99	-30.66	-583.27	MIN
139	-18.59	-108.06	6.19	24.13	-163.74	MAX
	-148.35	-565.07	-2.16	-0.40	-556.32	MIN
140	-27.34	-108.25	-0.55	64.80	-177.89	MAX
	-158.37	-567.46	-4.58	30.21	-588.25	MIN
141	-42.33	-111.56	-2.87	60.37	-248.07	MAX
	-174.91	-609.76	-19.40	30.43	-722.69	MIN
142	-55.20	-130.58	1.39	9.24	-280.79	MAX
	-201.14	-689.64	-0.78	-1.06	-812.38	MIN
143	-41.61	-111.13	22.57	-32.45	-248.07	MAX
	-181.43	-613.11	1.23	-40.95	-721.03	MIN

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
IF2R 2.2.E.ZZ CL TR.16.0.5.003 A 21 di 123

In	Mx [kNm]	My [kNm]	Mxy [kNm]	Tx [kN]	Ty [kN]	
144	-26.01	-107.40	8.89	-31.88	-177.91	MAX
	-172.36	-574.35	-1.30	-42.54	-585.58	MIN
145	154.88	2.81	-0.16	-0.96	-12.79	MAX
	67.44	0.68	-0.30	-1.84	-17.94	MIN
146	104.72	-0.42	-0.25	-0.23	-50.19	MAX
	54.19	-16.58	-0.47	-0.46	-76.55	MIN
147	110.41	36.04	-0.36	0.26	-120.25	MAX
	62.09	31.93	-0.68	0.14	-223.89	MIN
148	97.38	142.87	-0.39	0.49	-177.60	MAX
	59.45	90.56	-0.75	0.26	-361.37	MIN
149	84.38	281.26	-0.34	0.00	-198.52	MAX
	47.10	157.00	-0.65	0.00	-415.28	MIN
150	84.38	281.26	-0.34	0.00	-198.52	MAX
	47.10	157.00	-0.65	0.00	-415.28	MIN
151	84.38	281.26	-0.34	0.00	-198.52	MAX
	47.10	157.00	-0.65	0.00	-415.28	MIN
152	-108.01	-360.05	-0.14	0.00	-232.76	MAX
	-396.47	-1321.57	-0.47	0.00	-622.29	MIN
153	-65.55	-302.87	-0.16	0.42	-220.45	MAX
	-315.57	-1171.32	-0.51	-0.23	-606.37	MIN
154	-40.89	-255.03	-0.17	1.06	-196.95	MAX
	-265.83	-1028.82	-0.44	-0.37	-576.84	MIN
155	-27.08	-179.20	-0.20	2.13	-180.81	MAX
	-223.75	-800.57	-0.33	-0.50	-562.81	MIN
156	-16.92	-106.81	-0.15	3.00	-163.86	MAX
	-171.87	-575.78	-0.24	-0.56	-554.09	MIN
157	-8.06	-43.68	-12.76	18.23	-147.51	MAX
	-9.80	-342.97	-20.69	11.64	-514.21	MIN
158	-1.36	-48.52	-11.38	10.94	-180.65	MAX
	-3.78	-340.97	-24.77	7.53	-555.27	MIN
159	-19.08	-35.68	-13.92	29.54	-160.24	MAX
	-24.80	-340.21	-17.96	11.79	-597.65	MIN
160	-24.32	-31.21	1.20	33.70	-172.98	MAX
	-40.27	-338.49	-7.44	0.48	-660.84	MIN
161	-19.81	-35.40	15.71	32.66	-161.41	MAX
	-56.96	-341.38	-1.08	-11.16	-623.66	MIN
162	-9.82	-43.15	15.15	27.95	-140.57	MAX
	-70.67	-347.04	0.13	-11.77	-546.85	MIN
163	-4.96	-47.58	5.66	21.38	-130.54	MAX
	-81.39	-351.28	-2.31	-1.00	-509.72	MIN
164	-9.14	-42.81	-4.42	15.27	-141.60	MAX
	-89.52	-351.47	-5.38	9.98	-553.98	MIN
165	-18.64	-34.71	-4.95	12.86	-163.72	MAX
	-95.70	-349.59	-7.29	9.90	-639.90	MIN
166	-22.94	-30.18	1.75	9.77	-176.75	MAX
	-100.12	-349.31	-0.81	-1.16	-689.48	MIN
167	-17.71	-34.41	11.09	8.78	-163.88	MAX
	-103.10	-352.58	3.37	-12.15	-639.74	MIN
168	-7.36	-42.22	9.05	6.75	-141.98	MAX
	-105.03	-357.44	3.12	-12.00	-554.32	MIN
169	-2.47	-46.73	0.03	3.58	-131.31	MAX
	-106.48	-360.18	-0.25	-0.61	-511.99	MIN
170	58.99	-20.92	-9.98	17.24	-19.13	MAX
	26.40	-56.07	-28.57	-19.32	-21.60	MIN
171	97.57	-11.13	-16.19	169.26	-51.61	MAX
	45.76	-42.39	-45.72	94.02	-82.56	MIN
172	87.87	14.80	-1.96	238.23	-137.22	MAX
	50.43	-11.37	-9.25	114.38	-261.88	MIN
173	60.78	108.75	6.99	244.00	-220.68	MAX
	46.43	79.12	2.90	107.18	-452.50	MIN
174	92.30	307.68	16.72	0.00	-251.00	MAX
	50.92	169.73	10.98	0.00	-526.69	MIN
175	92.30	307.68	16.72	0.00	-251.00	MAX
	50.92	169.73	10.98	0.00	-526.69	MIN
176	92.30	307.68	16.72	0.00	-251.00	MAX
	50.92	169.73	10.98	0.00	-526.69	MIN
177	-108.18	-360.60	-14.94	0.00	-202.92	MAX
	-400.39	-1334.64	-22.58	0.00	-591.94	MIN
178	-50.03	-295.09	-15.40	40.70	-187.17	MAX
	-273.45	-1147.44	-27.41	6.99	-572.29	MIN
179	-47.38	-257.32	-0.07	58.02	-179.60	MAX
	-274.49	-1020.56	-1.27	49.24	-558.47	MIN
180	-40.24	-185.13	0.23	115.97	-187.33	MAX
	-252.51	-810.30	-13.91	81.22	-573.00	MIN
181	-25.61	-107.19	0.79	48.89	-177.96	MAX
	-174.35	-575.44	-9.01	30.75	-584.11	MIN
182	-6.88	-42.05	-3.65	10.78	-142.03	MAX
	-107.56	-358.63	-8.79	0.70	-553.46	MIN
183	8.94	-6.82	-17.97	2.31	-93.84	MAX
	-7.15	-161.09	-24.82	-50.92	-429.22	MIN
184	2.75	-11.44	-13.10	1.69	-131.39	MAX
	-0.42	-175.94	-25.40	-38.67	-469.20	MIN

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
IF2R 2.2.E.ZZ CL TR.16.0.5.003 A 22 di 123

In	Mx [kNm]	My [kNm]	Mxy [kNm]	Tx [kN]	Ty [kN]	
185	19.90 -15.72	17.97 -107.70	-24.33 -35.40	2.41 -42.28	-84.26 -560.82	MAX MIN
186	36.68 -14.55	47.43 -24.07	-1.44 -7.03	17.17 -3.31	-101.14 -664.75	MAX MIN
187	6.40 -10.78	17.56 -108.48	29.79 10.16	71.84 -9.44	-84.50 -577.31	MAX MIN
188	2.76 -13.32	-7.23 -162.79	17.91 6.31	71.10 -8.81	-86.39 -444.15	MAX MIN
189	13.84 -22.39	-7.42 -167.92	4.83 -2.25	17.60 -1.79	-86.04 -411.73	MAX MIN
190	4.56 -29.28	-7.04 -165.27	-9.07 -11.45	5.18 -36.49	-87.63 -451.35	MAX MIN
191	-6.99 -24.87	17.89 -113.08	-16.11 -23.76	5.55 -39.55	-87.08 -592.76	MAX MIN
192	-5.99 -15.12	47.20 -30.31	1.85 -0.78	9.64 -1.29	-104.88 -689.71	MAX MIN
193	-5.84 -32.75	18.11 -115.36	27.67 14.46	59.13 -8.11	-87.33 -593.52	MAX MIN
194	6.85 -45.46	-6.61 -169.75	13.51 9.22	56.91 -7.68	-88.20 -453.43	MAX MIN
195	17.27 -47.62	-6.81 -174.36	0.15 -0.25	3.91 -0.64	-87.11 -416.31	MAX MIN
196	7.39 -48.46	-6.48 -170.82	-9.70 -13.03	6.40 -48.89	-88.25 -453.06	MAX MIN
197	-31.44 -74.44	0.38 -5.07	-23.42 -67.09	18.02 -18.76	68.57 42.16	MAX MIN
198	-53.53 -120.76	-67.80 -178.20	-34.75 -97.38	147.90 88.56	-34.53 -77.47	MAX MIN
199	65.17 38.35	-27.29 -109.49	-52.21 -180.15	1110.01 542.13	-173.25 -354.31	MAX MIN
200	-9.42 -32.88	36.95 5.89	3.58 -20.67	319.37 138.07	-360.15 -765.07	MAX MIN
201	90.01 57.60	300.03 191.99	8.41 -1.69	0.00 0.00	-485.02 -1045.03	MAX MIN
202	90.01 57.60	300.03 191.99	8.41 -1.69	0.00 0.00	-485.02 -1045.03	MAX MIN
203	90.01 57.60	300.03 191.99	8.41 -1.69	0.00 0.00	-485.02 -1045.03	MAX MIN
204	-84.57 -349.86	-281.90 -1166.21	-39.93 -85.89	0.00 0.00	-32.03 -480.85	MAX MIN
205	-106.65 -368.93	-320.90 -1174.24	-42.80 -99.31	84.29 23.82	-102.60 -517.77	MAX MIN
206	-44.35 -275.16	-270.54 -1031.13	-49.03 -160.66	406.24 374.66	-172.02 -557.80	MAX MIN
207	-80.88 -258.74	-206.87 -814.78	-4.09 -42.70	143.04 90.69	-233.82 -664.06	MAX MIN
208	-40.81 -185.66	-110.71 -615.44	-1.83 -22.13	48.35 31.33	-248.16 -718.21	MAX MIN
209	-16.76 -108.41	-34.07 -355.04	-4.01 -10.27	10.94 -0.47	-163.98 -638.17	MAX MIN
210	-4.74 -38.96	18.37 -117.53	-15.08 -26.66	6.82 -50.49	-87.43 -592.92	MAX MIN
211	40.16 7.49	14.16 -15.90	-20.08 -31.12	20.02 -131.44	-47.98 -293.04	MAX MIN
212	1.87 -0.68	4.53 -54.98	-8.94 -14.83	6.29 -59.50	-75.08 -309.25	MAX MIN
213	49.26 -35.84	17.99 -5.17	-34.78 -58.85	12.91 -152.30	-38.11 -422.11	MAX MIN
214	144.82 -10.09	485.66 176.93	-1.11 -5.58	6.34 -5.82	51.94 -1015.18	MAX MIN
215	48.82 -27.09	16.83 -6.35	55.51 23.83	160.94 -25.04	-37.19 -429.29	MAX MIN
216	42.38 24.98	12.99 -17.07	27.88 11.41	135.51 -30.89	-40.90 -296.58	MAX MIN
217	26.80 6.64	10.56 -38.40	3.81 -2.00	14.06 -2.50	-43.58 -271.93	MAX MIN
218	29.96 26.90	12.97 -18.19	-15.62 -20.99	25.69 -108.52	-41.99 -302.41	MAX MIN
219	24.10 -21.15	14.66 -7.54	-28.89 -50.92	19.17 -137.77	-39.30 -441.14	MAX MIN
220	112.40 0.05	482.35 176.82	1.65 -0.69	9.17 -1.42	49.27 -1032.65	MAX MIN
221	16.02 -19.79	13.17 -8.33	54.36 27.42	156.16 -22.04	-39.55 -442.27	MAX MIN
222	30.69 12.93	12.94 -21.05	24.74 13.94	126.94 -28.66	-42.55 -305.07	MAX MIN
223	31.12 -18.03	11.01 -42.39	0.16 -0.22	4.05 -0.66	-44.61 -276.94	MAX MIN
224	31.12 9.56	12.94 -21.86	-14.41 -24.26	27.32 -118.70	-42.59 -305.04	MAX MIN
225	9.12 -18.56	11.56 -9.18	-27.97 -53.42	20.67 -147.54	-39.63 -442.32	MAX MIN

APPALTATORE:	TELESE S.c.a r.l. <small>Consorzio Telese Società Consortile a Responsabilità Limitata</small>	
PROGETTAZIONE:		
Mandataria:	Mandante:	
SYSTRA S.A.	SWS Engineering S.p.A.	SYSTRA-SOTECNI S.p.A.
Relazione di calcolo		
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX		

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	23 di 123

In	Mx [kNm]	My [kNm]	Mxy [kNm]	Tx [kN]	Ty [kN]	
226	-54.15	119.78	0.00	0.00	8.00	MAX
	-117.87	40.54	0.00	0.00	-48.14	MIN
227	-39.65	443.97	0.00	0.00	471.14	MAX
	-56.10	143.77	0.00	0.00	297.92	MIN
228	-334.97	-332.00	0.00	0.00	-384.78	MAX
	-700.07	-752.89	0.00	0.00	-997.72	MIN
229	-61.40	-83.05	0.00	0.00	-992.46	MAX
	-182.45	-479.30	0.00	0.00	-2189.84	MIN
230	51.45	171.50	0.00	0.00	-627.52	MAX
	38.89	129.64	0.00	0.00	-1393.82	MIN
231	51.45	171.50	0.00	0.00	-627.52	MAX
	38.89	129.64	0.00	0.00	-1393.82	MIN
232	51.45	171.50	0.00	0.00	-627.52	MAX
	38.89	129.64	0.00	0.00	-1393.82	MIN
233	-20.18	-67.27	0.00	0.00	117.42	MAX
	-170.00	-566.67	0.00	0.00	-480.00	MIN
234	-91.33	-24.91	0.00	0.00	332.72	MAX
	-224.57	-265.75	0.00	0.00	-343.00	MIN
235	-300.06	-434.64	0.00	0.00	-205.63	MAX
	-506.04	-1096.14	0.00	0.00	-966.76	MIN
236	-112.19	-303.94	0.00	0.00	-650.77	MAX
	-352.28	-1264.38	0.00	0.00	-1313.20	MIN
237	-54.01	-129.95	0.00	0.00	-280.89	MAX
	-208.16	-693.45	0.00	0.00	-808.47	MIN
238	-21.51	-29.69	0.00	0.00	-176.91	MAX
	-108.71	-353.18	0.00	0.00	-687.53	MIN
239	-5.55	47.57	0.00	0.00	-105.08	MAX
	-19.96	-33.61	0.00	0.00	-689.21	MIN
240	101.67	479.96	0.00	0.00	49.10	MAX
	1.94	177.10	0.00	0.00	-1033.05	MIN
241	10.19	44.73	-9.17	44.15	-21.32	MAX
	0.21	12.57	-20.07	-90.61	-146.06	MIN
242	1.55	10.33	-6.18	18.40	-26.14	MAX
	-8.04	1.45	-15.76	-50.04	-129.68	MIN
243	29.41	92.68	-61.90	222.81	-33.81	MAX
	-4.54	3.42	-194.58	-337.00	-214.83	MIN
244	251.94	276.51	0.48	2.43	-187.46	MAX
	-156.21	-115.51	-3.61	-6.43	-746.69	MIN
245	32.51	91.29	195.83	338.62	-31.94	MAX
	5.00	2.36	55.25	-236.01	-214.40	MIN
246	21.57	43.33	22.17	89.92	-15.03	MAX
	17.97	11.12	4.44	-55.68	-141.98	MIN
247	27.98	23.41	2.68	11.40	-12.17	MAX
	5.67	12.70	-1.57	-2.93	-125.09	MIN
248	22.37	43.03	-7.74	49.60	-15.80	MAX
	6.85	11.19	-17.29	-68.29	-145.82	MIN
249	12.93	90.57	-58.96	229.27	-33.33	MAX
	11.86	2.38	-192.31	-320.67	-221.77	MIN
250	225.66	274.98	1.19	8.68	-188.85	MAX
	-144.21	-115.80	-0.55	-1.49	-756.20	MIN
251	13.76	89.80	194.77	337.89	-33.50	MAX
	3.78	2.50	57.80	-232.31	-222.83	MIN
252	25.54	41.58	19.93	84.98	-16.20	MAX
	-9.33	11.42	6.37	-52.84	-148.18	MIN
253	32.99	21.46	0.07	4.14	-12.90	MAX
	-18.29	12.86	-0.17	-0.67	-129.19	MIN
254	26.20	41.08	-6.73	51.49	-16.21	MAX
	-12.98	11.48	-19.67	-76.65	-148.34	MIN
255	15.10	88.83	-58.23	230.91	-33.54	MAX
	-3.61	2.62	-194.14	-329.39	-223.23	MIN
256	214.31	273.58	0.00	0.00	-188.95	MAX
	-142.14	-115.63	0.00	0.00	-756.98	MIN
257	-31.44	0.38	67.09	18.76	68.57	MAX
	-74.44	-5.07	23.42	-18.02	42.16	MIN
258	-53.53	-67.80	97.38	-88.56	-34.53	MAX
	-120.76	-178.20	34.75	-147.90	-77.47	MIN
259	65.17	-27.29	180.15	-542.13	-173.25	MAX
	38.35	-109.49	52.21	-1110.01	-354.31	MIN
260	-9.42	36.95	20.67	-138.07	-360.15	MAX
	-32.88	5.89	-3.58	-319.37	-765.07	MIN
261	90.01	300.03	1.69	0.00	-485.02	MAX
	57.60	191.99	-8.41	0.00	-1045.03	MIN
262	90.01	300.03	1.69	0.00	-485.02	MAX
	57.60	191.99	-8.41	0.00	-1045.03	MIN
263	90.01	300.03	1.69	0.00	-485.02	MAX
	57.60	191.99	-8.41	0.00	-1045.03	MIN
264	-84.57	-281.90	85.89	0.00	-32.03	MAX
	-349.86	-1166.21	39.93	0.00	-480.85	MIN
265	-106.65	-320.90	99.31	-23.82	-102.60	MAX
	-368.93	-1174.24	42.80	-84.29	-517.77	MIN
266	-44.35	-270.54	160.66	-374.66	-172.02	MAX
	-275.16	-1031.13	49.03	-406.24	-557.80	MIN

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandatario:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.


PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	24 di 123

In	Mx [kNm]	My [kNm]	Mxy [kNm]	Tx [kN]	Ty [kN]	
267	-80.88	-206.87	42.70	-90.69	-233.82	MAX
	-258.74	-814.78	4.09	-143.04	-664.06	MIN
268	-40.81	-110.71	22.13	-31.33	-248.16	MAX
	-185.66	-615.44	1.83	-48.35	-718.21	MIN
269	-16.76	-34.07	10.27	0.47	-163.98	MAX
	-108.41	-355.04	4.01	-10.94	-638.17	MIN
270	-4.74	18.37	26.66	50.49	-87.43	MAX
	-38.96	-117.53	15.08	-6.82	-592.92	MIN
271	9.12	11.56	53.42	147.54	-39.63	MAX
	-18.56	-9.18	27.97	-20.67	-442.32	MIN
272	15.10	88.83	194.14	329.39	-33.54	MAX
	-3.61	2.62	58.23	-230.91	-223.23	MIN
273	-7.02	42.08	-7.63	62.31	-6.49	MAX
	-11.10	7.73	-36.39	-12.05	-38.80	MIN
274	0.29	13.15	-1.65	24.92	5.46	MAX
	-1.31	3.88	-8.30	-13.14	-11.20	MIN
275	88.83	110.16	-15.05	69.86	-49.61	MAX
	-33.63	2.53	-76.29	16.75	-88.52	MIN
276	6.85	-110.18	1.23	3.58	-159.29	MAX
	-62.70	-411.36	-1.69	-5.37	-325.44	MIN
277	86.43	108.59	79.83	-10.17	-48.02	MAX
	-26.14	1.56	12.30	-80.08	-85.43	MIN
278	3.48	41.11	40.83	16.50	-1.85	MAX
	-9.73	6.56	6.12	-70.70	-30.74	MIN
279	20.67	28.78	1.42	9.67	3.36	MAX
	0.24	7.96	-0.92	-2.85	-22.12	MIN
280	7.21	41.20	-8.03	64.81	-2.25	MAX
	-19.80	6.61	-38.21	1.87	-32.58	MIN
281	67.47	108.57	-14.34	73.72	-48.71	MAX
	-18.42	1.58	-77.74	25.86	-88.79	MIN
282	-18.87	-110.46	0.58	8.45	-162.94	MAX
	-50.57	-412.00	-0.32	-1.40	-325.98	MIN
283	59.37	108.31	78.96	-9.24	-48.78	MAX
	-16.76	1.64	13.67	-76.60	-89.44	MIN
284	10.64	40.74	39.53	13.86	-2.42	MAX
	-35.81	6.75	7.23	-67.91	-33.99	MIN
285	26.11	28.22	-0.03	4.37	3.02	MAX
	-23.19	8.16	-0.10	-0.64	-24.45	MIN
286	11.32	40.52	-7.43	66.62	-2.42	MAX
	-39.60	6.78	-39.52	-5.13	-34.17	MIN
287	51.69	107.89	-13.91	75.27	-48.78	MAX
	-15.36	1.70	-78.71	17.90	-89.83	MIN
288	-30.54	-110.37	0.00	0.00	-163.61	MAX
	-48.40	-412.57	0.00	0.00	-326.00	MIN
289	51.69	107.89	78.71	-17.90	-48.78	MAX
	-15.36	1.70	13.91	-75.27	-89.83	MIN
290	58.99	-20.92	28.57	19.32	-19.13	MAX
	26.40	-56.07	9.98	-17.24	-21.60	MIN
291	97.57	-11.13	45.72	-94.02	-51.61	MAX
	45.76	-42.39	16.19	-169.26	-82.56	MIN
292	87.87	14.80	9.25	-114.38	-137.22	MAX
	50.43	-11.37	1.96	-238.23	-261.88	MIN
293	60.78	108.75	-2.90	-107.18	-220.68	MAX
	46.43	79.12	-6.99	-244.00	-452.50	MIN
294	92.30	307.68	-10.98	0.00	-251.00	MAX
	50.92	169.73	-16.72	0.00	-526.69	MIN
295	92.30	307.68	-10.98	0.00	-251.00	MAX
	50.92	169.73	-16.72	0.00	-526.69	MIN
296	92.30	307.68	-10.98	0.00	-251.00	MAX
	50.92	169.73	-16.72	0.00	-526.69	MIN
297	-108.18	-360.60	22.58	0.00	-202.92	MAX
	-400.39	-1334.64	14.94	0.00	-591.94	MIN
298	-50.03	-295.09	27.41	-6.99	-187.17	MAX
	-273.45	-1147.44	15.40	-40.70	-572.29	MIN
299	-47.38	-257.32	1.27	-49.24	-179.60	MAX
	-274.49	-1020.56	0.07	-58.02	-558.47	MIN
300	-40.24	-185.13	13.91	-81.22	-187.33	MAX
	-252.51	-810.30	-0.23	-115.97	-573.00	MIN
301	-25.61	-107.19	9.01	-30.75	-177.96	MAX
	-174.35	-575.44	-0.79	-48.89	-584.11	MIN
302	-6.88	-42.05	8.79	-0.70	-142.03	MAX
	-107.56	-358.63	3.65	-10.78	-553.46	MIN
303	7.39	-6.48	13.03	48.89	-88.25	MAX
	-48.46	-170.82	9.70	-6.40	-453.06	MIN
304	31.12	12.94	24.26	118.70	-42.59	MAX
	9.56	-21.86	14.41	-27.32	-305.04	MIN
305	26.20	41.08	19.67	76.65	-16.21	MAX
	-12.98	11.48	6.73	-51.49	-148.34	MIN
306	11.32	40.52	39.52	5.13	-2.42	MAX
	-39.60	6.78	7.43	-66.62	-34.17	MIN
307	37.96	49.91	-4.67	124.39	1.65	MAX
	-8.59	8.21	-22.36	70.07	-4.55	MIN

APPALTATORE:	 Consorzio Telese Società Consortile a Responsabilità Limitata	
PROGETTAZIONE:		
Mandataria:	Mandante:	
SYSTRA S.A.	SWS Engineering S.p.A.	SYSTRA-SOTECNI S.p.A.
Relazione di calcolo		
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX		

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	25 di 123

In	Mx [kNm]	My [kNm]	Mxy [kNm]	Tx [kN]	Ty [kN]	
308	1.50	-1.77	-3.21	90.64	33.06	MAX
	-1.38	-5.36	-14.16	51.02	9.53	MIN
309	86.20	13.92	-11.10	115.74	-39.55	MAX
	-19.72	7.07	-53.55	67.18	-63.91	MIN
310	86.86	-22.17	0.84	3.08	-99.79	MAX
	-30.77	-102.03	-0.63	-3.62	-155.99	MIN
311	74.34	10.82	56.08	-72.45	-36.91	MAX
	-14.69	5.96	10.23	-103.45	-62.91	MIN
312	1.78	41.06	25.06	-70.53	5.94	MAX
	-3.50	5.39	4.31	-99.52	1.93	MIN
313	3.84	-1.06	0.46	8.50	11.29	MAX
	-53.63	-1.48	-0.42	-1.72	5.78	MIN
314	0.79	41.25	-5.17	115.67	5.68	MAX
	-7.98	5.45	-24.20	66.88	1.25	MIN
315	55.76	11.03	-11.11	117.39	-38.48	MAX
	-6.72	6.03	-55.35	68.23	-63.27	MIN
316	60.01	-22.34	0.04	8.94	-100.06	MAX
	-18.71	-102.49	-0.13	-1.01	-157.47	MIN
317	47.77	10.99	55.47	-70.27	-38.86	MAX
	-5.07	6.06	10.82	-99.95	-63.29	MIN
318	4.21	41.22	24.41	-68.98	5.55	MAX
	-23.74	5.51	4.82	-99.55	0.72	MIN
319	9.32	-0.95	-0.03	5.32	10.02	MAX
	-76.62	-1.47	-0.17	-0.56	4.99	MIN
320	4.88	41.16	-4.89	110.01	5.54	MAX
	-27.46	5.52	-24.70	67.87	0.65	MIN
321	40.25	10.89	-10.92	109.84	-39.15	MAX
	-3.70	6.08	-55.63	69.20	-63.28	MIN
322	48.54	-22.31	0.00	0.00	-100.05	MAX
	-16.56	-102.63	0.00	0.00	-157.94	MIN
323	40.25	10.89	55.63	-69.20	-39.15	MAX
	-3.70	6.08	10.92	-109.84	-63.28	MIN
324	4.88	41.16	24.70	-67.87	5.54	MAX
	-27.46	5.52	4.89	-110.01	0.65	MIN
325	154.88	2.81	0.30	1.84	-12.79	MAX
	67.44	0.68	0.16	0.96	-17.94	MIN
326	104.72	-0.42	0.47	0.46	-50.19	MAX
	54.19	-16.58	0.25	0.23	-76.55	MIN
327	110.41	36.04	0.68	-0.14	-120.25	MAX
	62.09	31.93	0.36	-0.26	-223.89	MIN
328	97.38	142.87	0.75	-0.26	-177.60	MAX
	59.45	90.56	0.39	-0.49	-361.37	MIN
329	84.38	281.26	0.65	0.00	-198.52	MAX
	47.10	157.00	0.34	0.00	-415.28	MIN
330	84.38	281.26	0.65	0.00	-198.52	MAX
	47.10	157.00	0.34	0.00	-415.28	MIN
331	84.38	281.26	0.65	0.00	-198.52	MAX
	47.10	157.00	0.34	0.00	-415.28	MIN
332	-108.01	-360.05	0.47	0.00	-232.76	MAX
	-396.47	-1321.57	0.14	0.00	-622.29	MIN
333	-65.55	-302.87	0.51	0.23	-220.45	MAX
	-315.57	-1171.32	0.16	-0.42	-606.37	MIN
334	-40.89	-255.03	0.44	0.37	-196.95	MAX
	-265.83	-1028.82	0.17	-1.06	-576.84	MIN
335	-27.08	-179.20	0.33	0.50	-180.81	MAX
	-223.75	-800.57	0.20	-2.13	-562.81	MIN
336	-16.92	-106.81	0.24	0.56	-163.86	MAX
	-171.87	-575.78	0.15	-3.00	-554.09	MIN
337	-2.47	-46.73	0.25	0.61	-131.31	MAX
	-106.48	-360.18	-0.03	-3.58	-511.99	MIN
338	17.27	-6.81	0.25	0.64	-87.11	MAX
	-47.62	-174.36	-0.15	-3.91	-416.31	MIN
339	31.12	11.01	0.22	0.66	-44.61	MAX
	-18.03	-42.39	-0.16	-4.05	-276.94	MIN
340	32.99	21.46	0.17	0.67	-12.90	MAX
	-18.29	12.86	-0.07	-4.14	-129.19	MIN
341	26.11	28.22	0.10	0.64	3.02	MAX
	-23.19	8.16	0.03	-4.37	-24.45	MIN
342	9.32	-0.95	0.17	0.56	10.02	MAX
	-76.62	-1.47	0.03	-5.32	4.99	MIN
343	59.08	-20.91	-9.65	19.54	-19.32	MAX
	26.45	-56.06	-27.94	-15.23	-21.84	MIN
344	97.77	-11.02	-15.68	170.45	-51.95	MAX
	45.87	-42.19	-44.75	94.63	-83.20	MIN
345	88.15	15.15	-1.23	237.90	-137.79	MAX
	50.58	-10.76	-7.86	114.19	-262.97	MIN
346	61.16	109.85	7.85	243.12	-221.38	MAX
	46.63	79.70	4.42	106.71	-453.84	MIN
347	92.79	309.29	18.04	0.00	-251.74	MAX
	51.17	170.58	11.67	0.00	-528.11	MIN
348	92.79	309.29	18.04	0.00	-251.74	MAX
	51.17	170.58	11.67	0.00	-528.11	MIN

APPALTATORE:	TELESE S.c.a r.l. <small>Consorzio Telese Società Consortile a Responsabilità Limitata</small>	
PROGETTAZIONE:		
Mandataria:	Mandante:	
SYSTRA S.A.	SWS Engineering S.p.A.	SYSTRA-SOTECNI S.p.A.
Relazione di calcolo		
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX		

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	26 di 123

In	Mx [kNm]	My [kNm]	Mxy [kNm]	Tx [kN]	Ty [kN]	
349	92.79	309.29	18.04	0.00	-251.74	MAX
	51.17	170.58	11.67	0.00	-528.11	MIN
350	-108.26	-360.86	-14.63	0.00	-202.80	MAX
	-400.80	-1335.98	-21.75	0.00	-595.12	MIN
351	-50.20	-295.38	-15.05	41.18	-187.06	MAX
	-273.24	-1148.00	-26.53	5.97	-575.36	MIN
352	-47.62	-257.59	0.68	58.18	-179.51	MAX
	-273.81	-1020.59	-0.90	46.84	-561.20	MIN
353	-40.56	-185.38	0.68	111.35	-187.26	MAX
	-251.14	-809.59	-13.41	82.22	-575.14	MIN
354	-26.01	-107.40	1.30	42.54	-177.91	MAX
	-172.36	-574.35	-8.89	31.88	-585.58	MIN
355	-7.36	-42.22	-3.12	12.00	-141.98	MAX
	-105.03	-357.44	-9.05	-6.75	-554.32	MIN
356	6.85	-6.61	-9.22	7.68	-88.20	MAX
	-45.46	-169.75	-13.51	-56.91	-453.43	MIN
357	30.69	12.94	-13.94	28.66	-42.55	MAX
	12.93	-21.05	-24.74	-126.94	-305.07	MIN
358	25.54	41.58	-6.37	52.84	-16.20	MAX
	-9.33	11.42	-19.93	-84.98	-148.18	MIN
359	10.64	40.74	-7.23	67.91	-2.42	MAX
	-35.81	6.75	-39.53	-13.86	-33.99	MIN
360	4.21	41.22	-4.82	99.55	5.55	MAX
	-23.74	5.51	-24.41	68.98	0.72	MIN
361	-31.46	0.39	-23.05	21.03	67.81	MAX
	-74.50	-5.05	-66.39	-13.43	41.76	MIN
362	-53.43	-67.60	-34.21	149.97	-35.24	MAX
	-120.58	-177.81	-96.35	89.63	-78.83	MIN
363	65.56	-26.64	-51.45	1110.29	-174.47	MAX
	38.57	-108.26	-178.71	542.26	-356.64	MIN
364	-9.05	38.22	4.40	318.81	-361.66	MAX
	-32.20	8.12	-19.11	137.77	-767.96	MIN
365	91.01	303.36	9.16	0.00	-486.63	MAX
	58.12	193.74	-0.36	0.00	-1048.10	MIN
366	91.01	303.36	9.16	0.00	-486.63	MAX
	58.12	193.74	-0.36	0.00	-1048.10	MIN
367	91.01	303.36	9.16	0.00	-486.63	MAX
	58.12	193.74	-0.36	0.00	-1048.10	MIN
368	-84.75	-282.49	-39.54	0.00	-31.86	MAX
	-350.60	-1168.67	-85.45	0.00	-487.28	MIN
369	-107.00	-321.53	-42.36	84.80	-102.44	MAX
	-368.37	-1175.12	-98.85	22.23	-523.98	MIN
370	-44.82	-271.11	-48.58	404.76	-171.89	MAX
	-273.62	-1030.97	-160.36	371.35	-563.27	MIN
371	-81.52	-207.39	-3.55	137.31	-233.72	MAX
	-255.75	-813.18	-42.72	91.71	-668.29	MIN
372	-41.61	-111.13	-1.23	40.95	-248.07	MAX
	-181.43	-613.11	-22.57	32.45	-721.03	MIN
373	-17.71	-34.41	-3.37	12.15	-163.88	MAX
	-103.10	-352.58	-11.09	-8.78	-639.74	MIN
374	-5.84	18.11	-14.46	8.11	-87.33	MAX
	-32.75	-115.36	-27.67	-59.13	-593.52	MIN
375	16.02	13.17	-27.42	22.04	-39.55	MAX
	-19.79	-8.33	-54.36	-156.16	-442.27	MIN
376	13.76	89.80	-57.80	232.31	-33.50	MAX
	3.78	2.50	-194.77	-337.89	-222.83	MIN
377	59.37	108.31	-13.67	76.60	-48.78	MAX
	-16.76	1.64	-78.96	9.24	-89.44	MIN
378	47.77	10.99	-10.82	99.95	-38.86	MAX
	-5.07	6.06	-55.47	70.27	-63.29	MIN
379	-54.50	119.78	0.78	7.46	7.38	MAX
	-118.57	40.54	0.41	3.91	-49.32	MIN
380	-39.81	444.51	1.08	3.67	468.97	MAX
	-56.45	144.06	0.57	1.91	296.78	MIN
381	-334.89	-331.04	1.47	1.45	-386.79	MAX
	-699.95	-751.07	0.78	0.74	-1001.55	MIN
382	-61.00	-81.28	1.53	0.10	-995.00	MAX
	-181.71	-475.93	0.81	0.04	-2194.68	MIN
383	52.49	174.97	1.28	0.00	-630.23	MAX
	40.45	134.84	0.68	0.00	-1399.01	MIN
384	52.49	174.97	1.28	0.00	-630.23	MAX
	40.45	134.84	0.68	0.00	-1399.01	MIN
385	52.49	174.97	1.28	0.00	-630.23	MAX
	40.45	134.84	0.68	0.00	-1399.01	MIN
386	-20.49	-68.31	0.52	0.00	117.53	MAX
	-170.93	-569.77	-0.27	0.00	-489.80	MIN
387	-91.89	-25.92	0.58	0.57	332.81	MAX
	-223.36	-266.85	-0.32	-2.65	-352.43	MIN
388	-300.77	-435.58	0.60	0.83	-205.57	MAX
	-503.23	-1095.33	-0.50	-4.96	-974.96	MIN
389	-113.14	-304.74	0.70	0.99	-650.71	MAX
	-347.17	-1261.50	-0.91	-7.71	-1319.38	MIN

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
IF2R 2.2.E.ZZ CL TR.16.0.5.003 A 27 di 123

In	Mx [kNm]	My [kNm]	Mxy [kNm]	Tx [kN]	Ty [kN]	
390	-55.20	-130.58	0.78	1.06	-280.79	MAX
	-201.14	-689.64	-1.39	-9.24	-812.38	MIN
391	-22.94	-30.18	0.81	1.16	-176.75	MAX
	-100.12	-349.31	-1.75	-9.77	-689.48	MIN
392	-5.99	47.20	0.78	1.29	-104.88	MAX
	-15.12	-30.31	-1.85	-9.64	-689.71	MIN
393	112.40	482.35	0.69	1.42	49.27	MAX
	0.05	176.82	-1.65	-9.17	-1032.65	MIN
394	225.66	274.98	0.55	1.49	-188.85	MAX
	-144.21	-115.80	-1.19	-8.68	-756.20	MIN
395	-18.87	-110.46	0.32	1.40	-162.94	MAX
	-50.57	-412.00	-0.58	-8.45	-325.98	MIN
396	60.01	-22.34	0.13	1.01	-100.06	MAX
	-18.71	-102.49	-0.04	-8.94	-157.47	MIN
397	-32.58	0.36	67.93	29.26	66.91	MAX
	-76.67	-5.11	23.87	-12.45	41.29	MIN
398	-54.43	-67.48	98.41	-85.34	-36.17	MAX
	-122.53	-177.59	35.31	-141.73	-80.59	MIN
399	64.32	-26.07	181.48	-540.36	-176.23	MAX
	37.93	-107.19	52.92	-1106.60	-359.98	MIN
400	-9.19	39.46	21.97	-137.42	-364.00	MAX
	-32.48	10.29	-2.88	-318.09	-772.42	MIN
401	92.17	307.23	2.72	0.00	-489.17	MAX
	58.74	195.79	-7.81	0.00	-1052.97	MIN
402	92.17	307.23	2.72	0.00	-489.17	MAX
	58.74	195.79	-7.81	0.00	-1052.97	MIN
403	92.17	307.23	2.72	0.00	-489.17	MAX
	58.74	195.79	-7.81	0.00	-1052.97	MIN
404	-85.07	-283.58	84.43	0.00	-32.23	MAX
	-350.74	-1169.14	40.62	0.00	-494.17	MIN
405	-107.41	-322.52	97.70	-28.17	-102.80	MAX
	-366.50	-1173.89	43.57	-83.69	-530.51	MIN
406	-45.29	-271.93	158.89	-373.93	-172.20	MAX
	-270.32	-1028.93	49.84	-410.29	-568.65	MIN
407	-82.09	-208.00	40.44	-89.83	-233.90	MAX
	-250.57	-810.04	5.02	-153.84	-671.86	MIN
408	-42.33	-111.56	19.40	-30.43	-248.07	MAX
	-174.91	-609.76	2.87	-60.37	-722.69	MIN
409	-18.64	-34.71	7.29	-9.90	-163.72	MAX
	-95.70	-349.59	4.95	-12.86	-639.90	MIN
410	-6.99	17.89	23.76	39.55	-87.08	MAX
	-24.87	-113.08	16.11	-5.55	-592.76	MIN
411	24.10	14.66	50.92	137.77	-39.30	MAX
	-21.15	-7.54	28.89	-19.17	-441.14	MIN
412	12.93	90.57	192.31	320.67	-33.33	MAX
	11.86	2.38	58.96	-229.27	-221.77	MIN
413	67.47	108.57	77.74	-25.86	-48.71	MAX
	-18.42	1.58	14.34	-73.72	-88.79	MIN
414	55.76	11.03	55.35	-68.23	-38.48	MAX
	-6.72	6.03	11.11	-117.39	-63.27	MIN
415	53.80	-21.00	29.39	33.77	-20.26	MAX
	23.71	-56.23	10.42	-9.60	-23.03	MIN
416	92.93	-10.85	46.48	-88.89	-53.81	MAX
	43.37	-41.87	16.61	-159.46	-86.74	MIN
417	84.91	16.25	10.06	-111.02	-141.36	MAX
	48.91	-8.85	2.40	-231.76	-269.75	MIN
418	60.09	113.85	-2.31	-105.51	-226.17	MAX
	46.10	81.84	-6.62	-240.74	-462.96	MIN
419	95.04	316.80	-10.78	0.00	-256.98	MAX
	52.37	174.55	-16.38	0.00	-538.10	MIN
420	95.04	316.80	-10.78	0.00	-256.98	MAX
	52.37	174.55	-16.38	0.00	-538.10	MIN
421	95.04	316.80	-10.78	0.00	-256.98	MAX
	52.37	174.55	-16.38	0.00	-538.10	MIN
422	-108.95	-363.17	19.21	0.00	-203.76	MAX
	-400.83	-1336.11	15.81	0.00	-608.87	MIN
423	-50.99	-297.43	23.76	-13.95	-187.98	MAX
	-268.89	-1144.75	16.38	-40.17	-588.34	MIN
424	-48.45	-259.28	2.31	-56.06	-180.27	MAX
	-266.38	-1015.87	-3.65	-64.32	-571.70	MIN
425	-41.58	-186.60	9.74	-80.71	-187.68	MAX
	-239.75	-802.89	1.01	-131.32	-581.80	MIN
426	-27.34	-108.25	4.58	-30.21	-177.89	MAX
	-158.37	-567.46	0.55	-64.80	-588.25	MIN
427	-9.14	-42.81	5.38	-9.98	-141.60	MAX
	-89.52	-351.47	4.42	-15.27	-553.98	MIN
428	4.56	-7.04	11.45	36.49	-87.63	MAX
	-29.28	-165.27	9.07	-5.18	-451.35	MIN
429	29.96	12.97	20.99	108.52	-41.99	MAX
	26.90	-18.19	15.62	-25.69	-302.41	MIN
430	22.37	43.03	17.29	68.29	-15.80	MAX
	6.85	11.19	7.74	-49.60	-145.82	MIN

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
IF2R 2.2.E.ZZ CL TR.16.0.5.003 A 28 di 123

In	Mx [kNm]	My [kNm]	Mxy [kNm]	Tx [kN]	Ty [kN]	
431	7.21	41.20	38.21	-1.87	-2.25	MAX
	-19.80	6.61	8.03	-64.81	-32.58	MIN
432	0.79	41.25	24.20	-66.88	5.68	MAX
	-7.98	5.45	5.17	-115.67	1.25	MIN
433	144.46	2.43	0.88	21.08	-15.39	MAX
	62.03	0.49	0.48	11.13	-19.69	MIN
434	95.00	-0.31	0.51	15.23	-52.97	MAX
	49.17	-16.43	0.30	7.96	-81.83	MIN
435	103.58	37.58	0.25	10.65	-125.66	MAX
	58.55	33.16	0.17	5.53	-234.18	MIN
436	94.46	147.91	-0.07	5.79	-184.96	MAX
	57.95	93.28	-0.21	3.00	-375.40	MIN
437	87.51	291.70	-0.21	0.00	-206.62	MAX
	48.77	162.55	-0.46	0.00	-430.72	MIN
438	87.51	291.70	-0.21	0.00	-206.62	MAX
	48.77	162.55	-0.46	0.00	-430.72	MIN
439	87.51	291.70	-0.21	0.00	-206.62	MAX
	48.77	162.55	-0.46	0.00	-430.72	MIN
440	-109.14	-363.81	1.13	0.00	-234.75	MAX
	-395.88	-1319.60	-5.96	0.00	-642.63	MIN
441	-66.59	-306.11	1.31	0.49	-222.32	MAX
	-307.30	-1164.33	-6.40	-11.35	-625.40	MIN
442	-41.86	-257.67	1.45	0.43	-198.43	MAX
	-252.33	-1020.12	-6.19	-18.57	-591.72	MIN
443	-28.21	-181.05	1.83	0.22	-181.55	MAX
	-203.87	-789.52	-6.37	-24.00	-571.36	MIN
444	-18.59	-108.06	2.16	0.40	-163.74	MAX
	-148.35	-565.07	-6.19	-24.13	-556.32	MIN
445	-4.96	-47.58	2.31	1.00	-130.54	MAX
	-81.39	-351.28	-5.66	-21.38	-509.72	MIN
446	13.84	-7.42	2.25	1.79	-86.04	MAX
	-22.39	-167.92	-4.83	-17.60	-411.73	MIN
447	26.80	10.56	2.00	2.50	-43.58	MAX
	6.64	-38.40	-3.81	-14.06	-271.93	MIN
448	27.98	23.41	1.57	2.93	-12.17	MAX
	5.67	12.70	-2.68	-11.40	-125.09	MIN
449	20.67	28.78	0.92	2.85	3.36	MAX
	0.24	7.96	-1.42	-9.67	-22.12	MIN
450	3.84	-1.06	0.42	1.72	11.29	MAX
	-53.63	-1.48	-0.46	-8.50	5.78	MIN
451	40.00	-21.30	-9.63	33.64	-20.88	MAX
	16.54	-56.85	-27.98	9.52	-23.81	MIN
452	79.74	-11.29	-16.37	191.61	-55.21	MAX
	36.53	-42.80	-46.20	105.67	-89.44	MIN
453	74.92	15.85	-2.65	254.66	-144.36	MAX
	43.69	-9.67	-10.73	122.95	-275.50	MIN
454	54.26	113.37	5.70	253.62	-230.53	MAX
	43.03	81.66	0.51	112.21	-471.28	MIN
455	95.85	319.51	14.19	0.00	-261.89	MAX
	52.82	176.07	9.69	0.00	-547.44	MIN
456	95.85	319.51	14.19	0.00	-261.89	MAX
	52.82	176.07	9.69	0.00	-547.44	MIN
457	95.85	319.51	14.19	0.00	-261.89	MAX
	52.82	176.07	9.69	0.00	-547.44	MIN
458	-109.84	-366.13	-13.72	0.00	-206.61	MAX
	-398.22	-1327.42	-33.24	0.00	-617.94	MIN
459	-50.99	-299.64	-13.92	40.71	-190.61	MAX
	-258.62	-1133.77	-38.66	-10.97	-596.22	MIN
460	-47.90	-260.99	0.54	56.24	-182.18	MAX
	-251.31	-1005.82	-10.37	20.55	-576.01	MIN
461	-40.77	-187.61	2.79	85.05	-188.46	MAX
	-219.98	-793.80	-23.34	80.37	-581.09	MIN
462	-27.05	-108.84	3.99	30.66	-177.56	MAX
	-137.79	-560.69	-16.97	14.75	-583.27	MIN
463	-9.82	-43.15	-0.13	11.77	-140.57	MAX
	-70.67	-347.04	-15.15	-27.95	-546.85	MIN
464	2.76	-7.23	-6.31	8.81	-86.39	MAX
	-13.32	-162.79	-17.91	-71.10	-444.15	MIN
465	42.38	12.99	-11.41	30.89	-40.90	MAX
	24.98	-17.07	-27.88	-135.51	-296.58	MIN
466	21.57	43.33	-4.44	55.68	-15.03	MAX
	17.97	11.12	-22.17	-89.92	-141.98	MIN
467	3.48	41.11	-6.12	70.70	-1.85	MAX
	-9.73	6.56	-40.83	-16.50	-30.74	MIN
468	1.78	41.06	-4.31	99.52	5.94	MAX
	-3.50	5.39	-25.06	70.53	1.93	MIN
469	-48.42	-0.33	-23.58	38.54	64.64	MAX
	-107.43	-6.57	-67.62	17.57	40.15	MIN
470	-69.33	-68.46	-36.17	178.49	-38.68	MAX
	-151.33	-179.67	-100.43	104.41	-85.58	MIN
471	42.54	-27.20	-54.97	1133.71	-181.52	MAX
	26.45	-109.59	-185.76	554.62	-370.29	MIN

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
IF2R 2.2.E.ZZ CL TR.16.0.5.003 A 29 di 123

In	Mx [kNm]	My [kNm]	Mxy [kNm]	Tx [kN]	Ty [kN]		
472	-16.09 -45.43	38.14 7.67	-0.24 -28.10	334.39 146.09	-371.66 -787.05	MAX MIN	
473	93.05 59.27	310.18 197.56	4.48 -8.85	0.00 0.00	-497.80 -1069.31	MAX MIN	
474	93.05 59.27	310.18 197.56	4.48 -8.85	0.00 0.00	-497.80 -1069.31	MAX MIN	
475	93.05 59.27	310.18 197.56	4.48 -8.85	0.00 0.00	-497.80 -1069.31	MAX MIN	
476	-86.84 -344.58	-289.46 -1148.59	-39.27 -105.44	0.00 0.00	-38.28 -509.60	MAX MIN	
477	-106.71 -342.69	-326.75 -1149.19	-41.76 -119.66	82.76 -3.67	-108.31 -543.45	MAX MIN	
478	-43.14 -235.73	-275.26 -1007.36	-47.21 -178.04	383.41 332.41	-176.05 -574.18	MAX MIN	
479	-79.43 -206.44	-210.01 -791.76	-0.83 -56.43	94.18 87.20	-235.25 -667.32	MAX MIN	
480	-41.06 -130.63	-112.78 -596.78	2.68 -31.27	29.18 5.31	-247.08 -710.00	MAX MIN	
481	-19.81 -56.96	-35.40 -341.38	1.08 -15.71	11.16 -32.66	-161.41 -623.66	MAX MIN	
482	6.40 -10.78	17.56 -108.48	-10.16 -29.79	9.44 -71.84	-84.50 -577.31	MAX MIN	
483	48.82 -27.09	16.83 -6.35	-23.83 -55.51	25.04 -160.94	-37.19 -429.29	MAX MIN	
484	32.51 5.00	91.29 2.36	-55.25 -195.83	236.01 -338.62	-31.94 -214.40	MAX MIN	
485	86.43 -26.14	108.59 1.56	-12.30 -79.83	80.08 10.17	-48.02 -85.43	MAX MIN	
486	74.34 -14.69	10.82 5.96	-10.23 -56.08	103.45 72.45	-36.91 -62.91	MAX MIN	
487	-81.78 -172.67	117.24 39.51	-0.91 -2.28	45.75 23.30	5.95 -52.60	MAX MIN	
488	-65.07 -105.41	441.16 142.55	-3.17 -6.90	39.02 20.01	462.73 293.95	MAX MIN	
489	-354.65 -736.80	-333.50 -756.17	-5.96 -12.04	30.14 16.32	-392.44 -1013.11	MAX MIN	
490	-73.25 -204.07	-85.16 -483.77	-7.94 -15.23	20.19 11.24	-1003.09 -2210.15	MAX MIN	
491	52.16 39.78	173.88 132.60	-7.72 -14.50	0.00 0.00	-639.36 -1416.02	MAX MIN	
492	52.16 39.78	173.88 132.60	-7.72 -14.50	0.00 0.00	-639.36 -1416.02	MAX MIN	
493	52.16 39.78	173.88 132.60	-7.72 -14.50	0.00 0.00	-639.36 -1416.02	MAX MIN	
494	-22.98 -158.79	-76.60 -529.29	-1.10 -34.99	0.00 0.00	107.86 -503.87	MAX MIN	
495	-88.70 -178.55	-26.31 -244.06	-0.44 -35.37	-4.50 -41.15	324.18 -362.58	MAX MIN	
496	-294.49 -438.78	-440.34 -1059.92	1.32 -28.39	-7.26 -60.81	-211.17 -973.79	MAX MIN	
497	-106.26 -268.28	-307.74 -1234.15	4.26 -17.99	-7.62 -65.71	-652.13 -1303.91	MAX MIN	
498	-51.70 -127.46	-132.56 -672.05	6.52 -7.78	-4.58 -52.25	-278.70 -786.63	MAX MIN	
499	-24.32 -40.27	-31.21 -338.49	7.44 -1.20	-0.48 -33.70	-172.98 -660.84	MAX MIN	
500	36.68 -14.55	47.43 -24.07	7.03 1.44	3.31 -17.17	-101.14 -664.75	MAX MIN	
501	144.82 -10.09	485.66 176.93	5.58 1.11	5.82 -6.34	51.94 -1015.18	MAX MIN	
502	251.94 -156.21	276.51 -115.51	3.61 -0.48	6.43 -2.43	-187.46 -746.69	MAX MIN	
503	6.85 -62.70	-110.18 -411.36	1.69 -1.23	5.37 -3.58	-159.29 -325.44	MAX MIN	
504	86.86 -30.77	-22.17 -102.03	0.63 -0.84	3.62 -3.08	-99.79 -155.99	MAX MIN	
505	-73.57 -161.66	-0.82 -9.10	62.79 21.80	76.40 9.16	64.67 41.07	MAX MIN	
506	-90.98 -193.60	-68.81 -180.98	86.32 29.93	-67.17 -105.93	-36.25 -83.11	MAX MIN	
507	8.65 7.05	-30.90 -116.81	161.00 42.80	-523.52 -1077.70	-175.88 -361.19	MAX MIN	
508	-29.45 -67.85	28.73 -8.92	-5.71 -18.38	-124.56 -296.86	-363.48 -771.31	MAX MIN	
509	86.47 55.93	288.23 186.44	-22.07 -24.49	0.00 0.00	-488.78 -1051.11	MAX MIN	
510	86.47 55.93	288.23 186.44	-22.07 -24.49	0.00 0.00	-488.78 -1051.11	MAX MIN	
511	86.47 55.93	288.23 186.44	-22.07 -24.49	0.00 0.00	-488.78 -1051.11	MAX MIN	
512	-87.70 -329.19	-292.33 -1097.31	36.62 23.92	0.00 0.00	-44.11 -478.22	MAX MIN	

APPALTATORE:	TELESE S.c.a r.l. <small>Consorzio Telese Società Consortile a Responsabilità Limitata</small>	
PROGETTAZIONE:		
Mandataria:	Mandante:	
SYSTRA S.A.	SWS Engineering S.p.A.	SYSTRA-SOTECNI S.p.A.
Relazione di calcolo		
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX		

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	30 di 123

In	Mx [kNm]	My [kNm]	Mxy [kNm]	Tx [kN]	Ty [kN]	
513	-96.93	-326.92	41.90	-80.73	-113.12	MAX
	-287.25	-1101.33	34.45	-101.28	-510.54	MIN
514	-28.45	-276.17	118.60	-388.81	-178.23	MAX
	-154.22	-975.87	49.32	-465.25	-538.12	MIN
515	-67.56	-211.69	23.36	-102.59	-234.75	MAX
	-128.47	-779.72	9.51	-223.00	-629.73	MIN
516	-34.45	-113.87	20.44	-37.94	-245.52	MAX
	-72.52	-593.06	10.72	-104.76	-675.90	MIN
517	-19.08	-35.68	17.96	-11.79	-160.24	MAX
	-24.80	-340.21	13.92	-29.54	-597.65	MIN
518	19.90	17.97	35.40	42.28	-84.26	MAX
	-15.72	-107.70	24.33	-2.41	-560.82	MIN
519	49.26	17.99	58.85	152.30	-38.11	MAX
	-35.84	-5.17	34.78	-12.91	-422.11	MIN
520	29.41	92.68	194.58	337.00	-33.81	MAX
	-4.54	3.42	61.90	-222.81	-214.83	MIN
521	88.83	110.16	76.29	-16.75	-49.61	MAX
	-33.63	2.53	15.05	-69.86	-88.52	MIN
522	86.20	13.92	53.55	-67.18	-39.55	MAX
	-19.72	7.07	11.10	-115.74	-63.91	MIN
523	-33.44	-23.07	24.52	77.45	-16.87	MAX
	-72.98	-63.96	8.56	7.20	-19.46	MIN
524	4.39	-11.03	35.45	-79.58	-44.53	MAX
	-2.27	-42.44	12.00	-141.74	-72.54	MIN
525	12.18	11.97	-7.56	-99.34	-122.92	MAX
	7.02	-16.84	-10.16	-214.21	-236.03	MIN
526	9.35	83.09	-23.35	-93.98	-202.48	MAX
	-1.97	65.15	-33.11	-223.55	-416.87	MIN
527	81.29	270.97	-34.41	0.00	-231.31	MAX
	45.13	150.44	-58.07	0.00	-487.44	MIN
528	81.29	270.97	-34.41	0.00	-231.31	MAX
	45.13	150.44	-58.07	0.00	-487.44	MIN
529	81.29	270.97	-34.41	0.00	-231.31	MAX
	45.13	150.44	-58.07	0.00	-487.44	MIN
530	-109.59	-365.30	-1.06	0.00	-212.20	MAX
	-359.15	-1197.16	-87.78	0.00	-507.87	MIN
531	-16.85	-296.21	4.97	-56.50	-194.39	MAX
	-92.30	-1031.62	-57.87	-77.84	-487.59	MIN
532	-17.51	-264.62	-0.25	-72.68	-183.05	MAX
	-82.74	-960.86	-46.58	-130.30	-472.02	MIN
533	-18.73	-189.74	5.14	-92.21	-190.01	MAX
	-71.95	-771.05	1.13	-182.38	-494.77	MIN
534	-14.66	-110.13	13.61	-36.73	-182.43	MAX
	-29.29	-550.41	7.36	-90.91	-525.72	MIN
535	-8.06	-43.68	20.69	-11.64	-147.51	MAX
	-9.80	-342.97	12.76	-18.23	-514.21	MIN
536	8.94	-6.82	24.82	50.92	-93.84	MAX
	-7.15	-161.09	17.97	-2.31	-429.22	MIN
537	40.16	14.16	31.12	131.44	-47.98	MAX
	7.49	-15.90	20.08	-20.02	-293.04	MIN
538	10.19	44.73	20.07	90.61	-21.32	MAX
	0.21	12.57	9.17	-44.15	-146.06	MIN
539	-7.02	42.08	36.39	12.05	-6.49	MAX
	-11.10	7.73	7.63	-62.31	-38.80	MIN
540	37.96	49.91	22.36	-70.07	1.65	MAX
	-8.59	8.21	4.67	-124.39	-4.55	MIN
541	-2.71	6.37	14.92	56.06	46.17	MAX
	-4.51	1.72	5.29	4.58	6.87	MIN
542	6.17	-0.36	4.60	-33.07	8.42	MAX
	2.10	-10.35	1.86	-61.39	-14.30	MIN
543	23.68	25.36	-2.23	-44.46	-57.38	MAX
	10.38	21.94	-2.82	-100.07	-94.75	MIN
544	19.05	135.79	-21.60	-23.80	-93.12	MAX
	11.13	84.43	-38.28	-64.47	-202.20	MIN
545	83.27	277.58	-42.56	0.00	-105.19	MAX
	46.58	155.25	-72.76	0.00	-244.22	MIN
546	83.27	277.58	-42.56	0.00	-105.19	MAX
	46.58	155.25	-72.76	0.00	-244.22	MIN
547	83.27	277.58	-42.56	0.00	-105.19	MAX
	46.58	155.25	-72.76	0.00	-244.22	MIN
548	-113.38	-377.92	-47.26	0.00	-191.13	MAX
	-388.88	-1296.26	-242.37	0.00	-244.06	MIN
549	-9.92	-298.77	-20.18	-25.49	-192.19	MAX
	-61.03	-1083.43	-127.79	-70.21	-258.24	MIN
550	1.96	-246.56	5.84	-40.42	-196.38	MAX
	-13.27	-904.26	-19.75	-88.27	-313.87	MIN
551	0.81	-175.59	6.14	-37.25	-207.66	MAX
	-5.22	-716.95	1.16	-88.50	-443.44	MIN
552	-2.48	-106.02	21.34	-26.41	-207.63	MAX
	-5.51	-527.21	9.43	-63.06	-542.45	MIN
553	-1.36	-48.52	24.77	-7.53	-180.65	MAX
	-3.78	-340.97	11.38	-10.94	-555.27	MIN

APPALTATORE:	TELESE S.c.a r.l. <small>Consorzio Telese Società Consortile a Responsabilità Limitata</small>	
PROGETTAZIONE:		
Mandatario:	Mandante:	
SYSTRA S.A.	SWS Engineering S.p.A.	SYSTRA-SOTECNI S.p.A.
Relazione di calcolo		
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX		

ITINERARIO NAPOLI – BARI					
RADDOPPIO TRATTA CANCELLO-BENEVENTO					
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO					
2° SUBLOTTO TELESE – SAN LORENZO					
PROGETTO ESECUTIVO					
COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	31 di 123

In	Mx [kNm]	My [kNm]	Mxy [kNm]	Tx [kN]	Ty [kN]	
554	2.75	-11.44	25.40	38.67	-131.39	MAX
	-0.42	-175.94	13.10	-1.69	-469.20	MIN
555	1.87	4.53	14.83	59.50	-75.08	MAX
	-0.68	-54.98	8.94	-6.29	-309.25	MIN
556	1.55	10.33	15.76	50.04	-26.14	MAX
	-8.04	1.45	6.18	-18.40	-129.68	MIN
557	0.29	13.15	8.30	13.14	5.46	MAX
	-1.31	3.88	1.65	-24.92	-11.20	MIN
558	1.50	-1.77	14.16	-51.02	33.06	MAX
	-1.38	-5.36	3.21	-90.64	9.53	MIN

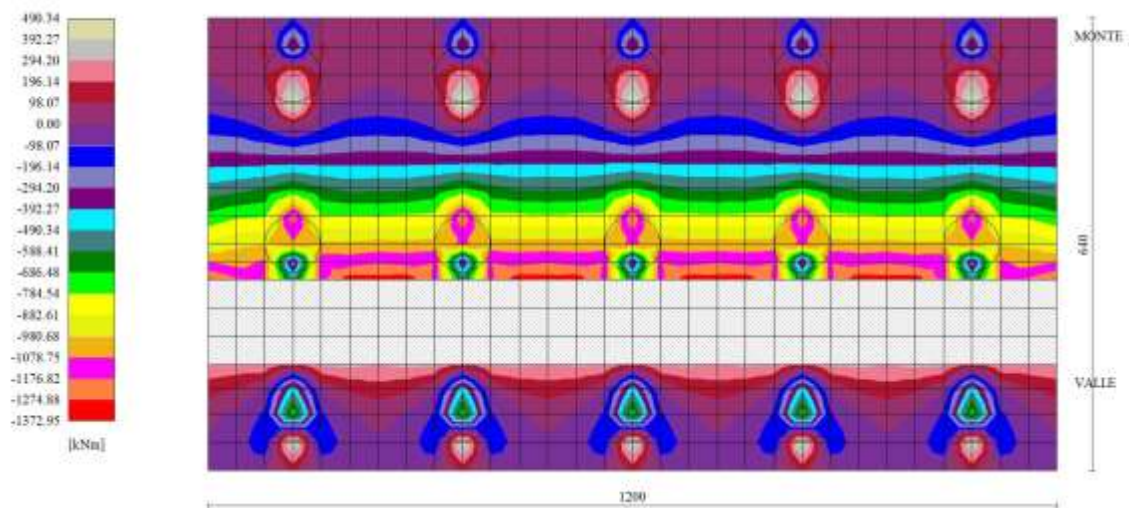


Fig. 8 - Piastra fondazione - Momento My (Combinazione n° 2)

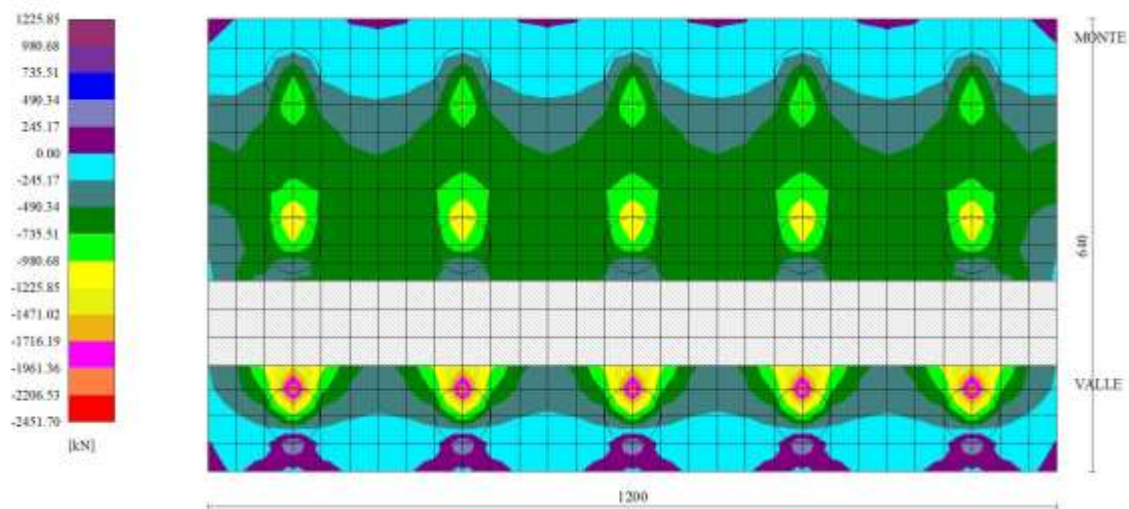


Fig. 9 - Piastra fondazione - Taglio Ty (Combinazione n° 2)

Sollecitazioni pali

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
IF2R 2.2.E.ZZ CL TR.16.0.5.003 A 32 di 123

Simbologia adottata

N Sforzo normale, espresso in [kN]. Positivo se di compressione.
T Taglio, espresso in [kN]. Positivo se diretto da monte verso valle
M Momento, espresso in [kNm]. Positivo se tende le fibre contro terra (a monte)

Palo n° 1

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	-38.43	-960.85	-362.53	-1007.67	-487.54	-1355.13
20	3.42	9.43	-939.76	10.97	-408.23	205.88	1443.71
29	5.04	37.64	-912.17	53.15	239.25	143.82	1649.85
101	18.00	366.78	0.00	-0.03	-0.76	0.00	0.00

Palo n° 2

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	792.91	6977.63	-362.53	-1007.67	-487.54	-1355.13
20	3.42	826.63	6916.57	10.97	-408.23	205.88	1443.71
29	5.04	834.42	6830.55	53.15	239.25	143.82	1649.85
36	6.30	836.11	6733.81	44.71	432.22	79.72	1205.48
101	18.00	744.07	0.00	-0.03	-0.76	0.00	0.00

Palo n° 3

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	1624.26	6977.34	-362.53	-1007.67	-487.54	-1355.13
20	3.42	1651.06	6916.29	10.97	-408.23	205.88	1443.71
23	3.96	1652.49	6896.04	38.17	-209.47	194.46	1629.51
29	5.04	1648.89	6830.28	53.15	239.25	143.82	1649.85
101	18.00	1353.66	0.00	-0.03	-0.76	0.00	0.00

Palo n° 1

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	-610.62	-6977.24	-490.02	-1049.83	-723.09	-1549.16
21	3.60	-552.83	-6909.76	19.06	-387.29	332.90	1474.92
30	5.22	-514.13	-6817.68	85.54	267.04	232.47	1629.54
101	18.00	0.00	0.00	-0.06	-0.81	0.00	0.00

Palo n° 2

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	735.58	6977.06	-490.02	-1049.83	-723.09	-1549.16
21	3.60	771.12	6909.58	19.06	-387.29	332.90	1474.92
30	5.22	778.78	6817.50	85.54	267.04	232.47	1629.54
38	6.66	780.88	6701.69	68.64	432.92	116.15	1088.44
101	18.00	702.03	0.00	-0.06	-0.81	0.00	0.00

Palo n° 3

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	1981.77	6977.18	-490.02	-1049.83	-723.09	-1549.16
21	3.60	2004.92	6909.70	19.06	-387.29	332.90	1474.92
22	3.78	2004.96	6902.95	36.56	-321.03	329.47	1544.64
30	5.22	1995.27	6817.61	85.54	267.04	232.47	1629.54
101	18.00	1589.14	0.00	-0.06	-0.81	0.00	0.00

Palo n° 1

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	215.05	5376.13	-269.04	-972.52	-331.13	-1196.97
19	3.24	242.76	5321.18	3.91	-433.03	133.59	1403.72
24	4.14	245.67	5284.97	29.60	-101.69	118.74	1679.87
29	5.04	243.90	5229.06	34.58	264.00	89.45	1631.87
101	18.00	0.00	0.00	-0.02	-0.72	0.00	0.00

Palo n° 2

n°	Y	Ne	Nr	Te	Tr	Me	Mr
----	---	----	----	----	----	----	----

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandatario:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF2R

2.2.E.ZZ

CL

TR.16.0.5.003

A

33 di 123

	[m]	[kN]	[kN]	[kN]	[kN]	[kN]	[kNm]	[kNm]
1	0.00	766.74	6977.35	-269.04	-972.52	-331.13	-1196.97	
19	3.24	799.30	6922.40	3.91	-433.03	133.59	1403.72	
29	5.04	808.78	6830.27	34.58	264.00	89.45	1631.87	
37	6.48	810.87	6717.95	26.65	433.03	43.32	1092.84	
101	18.00	724.88	0.00	-0.02	-0.72	0.00	0.00	

Palo n° 3

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	1318.44	6976.91	-269.04	-972.52	-331.13	-1196.97
19	3.24	1346.88	6921.97	3.91	-433.03	133.59	1403.72
24	4.14	1350.28	6885.76	29.60	-101.69	118.74	1679.87
29	5.04	1349.28	6829.85	34.58	264.00	89.45	1631.87
101	18.00	1129.42	0.00	-0.02	-0.72	0.00	0.00

Palo n° 1

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	301.42	6977.27	-243.55	-968.09	-296.11	-1177.03
19	3.24	326.71	6922.32	3.23	-428.60	113.81	1409.30
23	3.96	328.36	6895.97	22.91	-169.89	105.35	1650.88
29	5.04	323.70	6830.21	29.46	266.67	76.29	1629.81
101	18.00	0.00	0.00	-0.01	-0.72	0.00	0.00

Palo n° 2

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	757.00	6977.14	-243.55	-968.09	-296.11	-1177.03
19	3.24	789.63	6922.20	3.23	-428.60	113.81	1409.30
29	5.04	799.24	6830.09	29.46	266.67	76.29	1629.81
38	6.66	801.48	6701.78	21.42	428.25	32.88	1011.06
101	18.00	717.74	0.00	-0.01	-0.72	0.00	0.00

Palo n° 3

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	1212.59	6977.11	-243.55	-968.09	-296.11	-1177.03
19	3.24	1241.81	6922.16	3.23	-428.60	113.81	1409.30
26	4.50	1245.95	6864.91	28.14	57.68	91.85	1702.82
29	5.04	1245.57	6830.05	29.46	266.67	76.29	1629.81
101	18.00	1051.80	0.00	-0.01	-0.72	0.00	0.00

Palo n° 1

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	435.29	6977.26	-183.85	-952.29	-213.60	-1106.34
19	3.24	456.84	6922.31	2.29	-412.79	75.98	1428.79
21	3.60	456.97	6909.78	10.03	-289.75	74.40	1566.60
29	5.04	447.38	6830.20	19.67	276.13	50.82	1622.05
101	18.00	0.00	0.00	-0.01	-0.70	0.00	0.00

Palo n° 2

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	727.78	6977.64	-183.85	-952.29	-213.60	-1106.34
19	3.24	760.63	6922.68	2.29	-412.79	75.98	1428.79
29	5.04	770.62	6830.55	19.67	276.13	50.82	1622.05
39	6.84	773.40	6685.75	13.38	418.39	19.30	920.24
101	18.00	696.31	0.00	-0.01	-0.70	0.00	0.00

Palo n° 3

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	1020.28	6976.95	-183.85	-952.29	-213.60	-1106.34
19	3.24	1050.94	6922.00	2.29	-412.79	75.98	1428.79
29	5.04	1057.17	6829.88	19.67	276.13	50.82	1622.05
30	5.22	1057.20	6817.39	19.53	322.09	47.28	1572.35
101	18.00	910.79	0.00	-0.01	-0.70	0.00	0.00

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO												
PROGETTAZIONE: Mandataria: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.													
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	<table border="1"> <tr> <td>COMMESSA</td> <td>LOTTO</td> <td>CODIFICA</td> <td>DOCUMENTO</td> <td>REV.</td> <td>FOGLIO</td> </tr> <tr> <td>IF2R</td> <td>2.2.E.ZZ</td> <td>CL</td> <td>TR.16.0.5.003</td> <td>A</td> <td>34 di 123</td> </tr> </table>	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	34 di 123
COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO								
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	34 di 123								

Palo n° 1

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	370.63	6977.19	-203.97	-952.93	-237.47	-1109.45
19	3.24	393.99	6922.24	3.49	-413.43	89.68	1427.76
23	3.96	394.69	6895.88	18.46	-154.73	82.49	1658.42
29	5.04	387.65	6830.10	23.22	275.71	59.36	1622.14
101	18.00	0.00	0.00	-0.01	-0.70	0.00	0.00

Palo n° 2

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	735.58	6977.06	-203.97	-952.93	-237.47	-1109.45
19	3.24	768.36	6922.11	3.49	-413.43	89.68	1427.76
29	5.04	778.25	6830.00	23.22	275.71	59.36	1622.14
38	6.66	780.88	6701.69	16.69	427.06	25.32	997.53
101	18.00	702.03	0.00	-0.01	-0.70	0.00	0.00

Palo n° 3

n°	Y [m]	Ne [kN]	Nr [kN]	Te [kN]	Tr [kN]	Me [kNm]	Mr [kNm]
1	0.00	1100.52	6977.11	-203.97	-952.93	-237.47	-1109.45
19	3.24	1130.58	6922.17	3.49	-413.43	89.68	1427.76
28	4.86	1135.81	6842.11	23.20	219.53	63.53	1661.65
29	5.04	1135.78	6830.06	23.22	275.71	59.36	1622.14
101	18.00	969.62	0.00	-0.01	-0.70	0.00	0.00

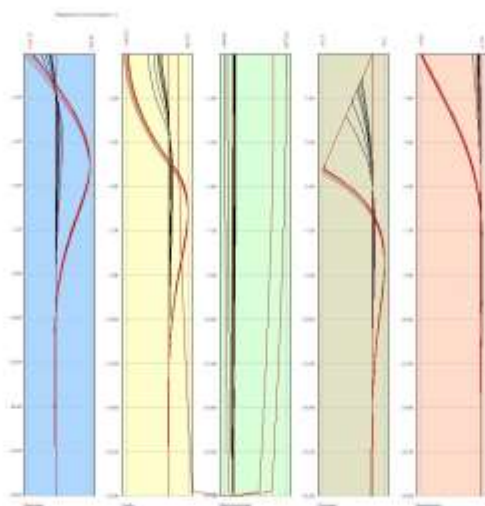


Fig. 10 - Sollecitazioni palo (Palo n° 1) (Inviluppo)

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO					
PROGETTAZIONE: <u>Mandatario:</u> SYSTRA S.A. <u>Mandante:</u> SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	35 di 123

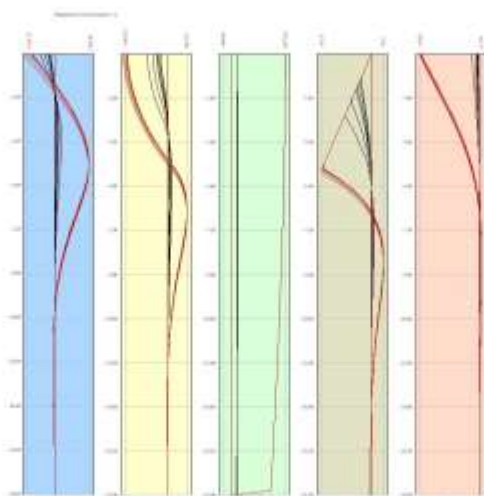


Fig. 11 - Sollecitazioni palo (Palo n° 2) (Inviluppo)

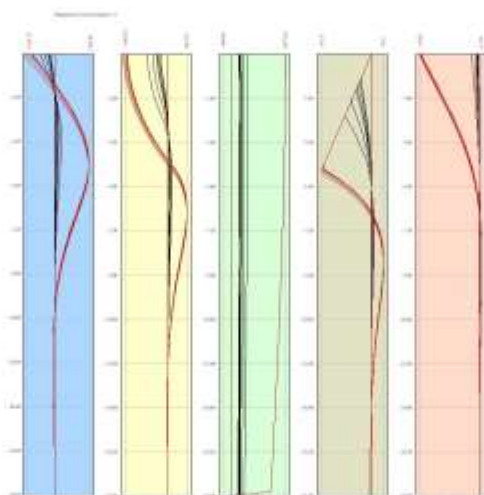


Fig. 12 - Sollecitazioni palo (Palo n° 3) (Inviluppo)

Verifiche strutturali

Verifiche a flessione

Elementi calcolati a trave

Simbologia adottata

n°	indice sezione
Y	ordinata sezione espressa in [m]
B	larghezza sezione espressa in [cm]
H	altezza sezione espressa in [cm]
Afi	area ferri inferiori espressa in [cmq]
Afs	area ferri superiori espressa in [cmq]
M	momento agente espressa in [kNm]
N	sforzo normale agente espressa in [kN]
Mu	momento ultimi espressa in [kNm]

APPALTATORE:	 Consorzio Telese Società Consortile a Responsabilità Limitata		ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO					
PROGETTAZIONE:	Mandatario:	Mandante:	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
SYSTRA S.A.	SWS Engineering S.p.A.	SYSTRA-SOTECNI S.p.A.	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	36 di 123
Relazione di calcolo	IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX							

Nu sforzo normale ultimo espressa in [kN]
 FS fattore di sicurezza (rapporto tra sollecitazione ultima e sollecitazione agente)
Elementi calcolati a piastra
 Simbologia adottata
 n° indice sezione
 Y ordinata sezione espressa in [m]
 B larghezza sezione espressa in [cm]
 H altezza sezione espressa in [cm]
 Afi, Afs area ferri inferiori e superiori, espressa in [cmq]
 Mp, Mn momento positivo e negativo agente espressa in [kNm]
 Mu momento ultimi espresso in [kNm]
 FS fattore di sicurezza (rapporto tra sollecitazione ultima e sollecitazione agente)

Paramento

n°	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	M [kNm]	N [kN]	Mu [kNm]	Nu [kN]	FS
1	100	70	15.71	31.42	9.00	5.00	894.12	496.73	99.346
2	100	70	15.71	31.42	9.89	6.72	931.85	632.75	94.218
3	100	70	15.71	31.42	10.82	8.43	964.87	751.74	89.158
4	100	70	15.71	31.42	11.79	10.15	993.42	854.67	84.226
5	100	70	15.71	31.42	12.81	11.86	1017.85	942.71	79.466
6	100	70	15.71	31.42	13.86	13.58	1038.51	1017.17	74.908
7	100	70	15.71	31.42	14.96	15.29	1055.77	1079.38	70.573
8	100	70	15.71	31.42	16.10	17.01	1070.00	1130.68	66.470
9	100	70	15.71	31.42	17.28	18.73	1081.56	1172.34	62.605
10	100	70	15.71	31.42	18.50	20.44	1090.77	1205.53	58.974
11	100	70	15.71	31.42	19.76	22.16	1097.93	1231.35	55.572
12	100	70	15.71	31.42	21.06	23.87	1103.32	1250.77	52.392
13	100	70	15.71	31.42	22.40	25.59	1107.18	1264.68	49.423
14	100	70	15.71	31.42	23.79	27.30	1109.72	1273.85	46.653
15	100	70	15.71	31.42	25.21	29.02	1111.15	1278.98	44.071
16	100	70	15.71	31.42	26.68	30.74	1111.61	1280.65	41.666
17	100	70	15.71	31.42	28.19	32.45	1111.26	1279.40	39.424
18	100	70	15.71	31.42	29.74	34.17	1110.23	1275.68	37.336
19	100	70	15.71	31.42	31.33	35.88	1108.62	1269.88	35.389
20	100	70	15.71	31.42	32.96	37.60	1106.53	1262.34	33.573
21	100	70	15.71	31.42	34.63	39.32	1104.04	1253.36	31.880
22	100	70	15.71	31.42	36.35	41.03	1101.22	1243.19	30.299
23	100	70	15.71	31.42	38.10	42.75	1098.13	1232.05	28.822
24	100	70	15.71	31.42	39.90	44.46	1094.81	1220.11	27.441
25	100	70	15.71	31.42	41.73	46.18	1091.33	1207.55	26.150
26	100	70	15.71	31.42	43.61	47.89	1087.70	1194.49	24.940
27	100	70	15.71	31.42	45.53	49.61	1083.98	1181.05	23.807
28	100	70	15.71	31.42	47.49	51.33	1080.17	1167.33	22.744
29	100	70	15.71	31.42	49.50	53.04	1076.31	1153.42	21.746
30	100	70	15.71	31.42	51.54	54.76	1072.42	1139.38	20.808
31	100	70	15.71	31.42	53.62	56.47	1068.51	1125.29	19.926
32	100	70	15.71	31.42	55.89	58.19	1063.51	1107.28	19.029
33	100	70	15.71	31.42	58.48	59.90	1056.58	1082.29	18.067
34	100	70	15.71	31.42	61.41	61.62	1048.11	1051.76	17.068
35	100	70	15.71	31.42	64.67	63.34	1038.49	1017.10	16.059
36	100	70	15.71	31.42	68.27	65.05	1028.09	979.60	15.059
37	100	70	15.71	31.42	72.22	66.77	1017.21	940.38	14.084
38	100	70	15.71	31.42	76.52	68.48	1006.11	900.41	13.148
39	100	70	15.71	31.42	81.18	70.20	995.02	860.42	12.257
40	100	70	15.71	31.42	86.20	71.91	984.09	821.02	11.417
41	100	70	15.71	31.42	91.58	73.63	973.44	782.63	10.629
42	100	120	15.71	31.42	107.16	86.48	2281.27	1840.88	21.288
43	100	120	15.71	31.42	113.59	89.42	2246.89	1768.68	19.780
44	100	120	15.71	31.42	120.97	92.36	2207.00	1684.94	18.244
45	100	120	15.71	31.42	129.12	95.30	2165.88	1598.62	16.775
46	100	120	15.71	31.42	137.83	98.24	2126.33	1515.58	15.427
47	100	120	15.71	31.42	146.96	101.18	2089.74	1438.76	14.220
48	100	120	15.71	31.42	156.49	104.12	2056.05	1368.01	13.139
49	100	120	15.71	31.42	166.42	107.06	2024.93	1302.67	12.168
50	100	120	15.71	31.42	176.77	110.00	1996.11	1242.18	11.292
51	100	120	15.71	31.42	187.53	112.94	1969.39	1186.07	10.502
52	100	120	15.71	31.42	198.73	115.88	1944.54	1133.91	9.785
53	100	120	15.71	31.42	210.36	118.82	1921.41	1085.33	9.134
54	100	120	15.71	31.42	222.43	121.76	1899.83	1040.03	8.541
55	100	120	15.71	31.42	234.94	124.70	1879.66	997.69	8.000
56	100	120	15.71	31.42	247.91	127.65	1860.80	958.08	7.506
57	100	120	15.71	31.42	261.34	130.59	1843.12	920.96	7.053
58	100	120	15.71	31.42	275.23	133.53	1825.16	885.46	6.631
59	100	120	15.71	31.42	289.59	136.47	1807.49	851.76	6.242
60	100	120	15.71	31.42	304.43	139.41	1790.90	820.12	5.883
61	100	120	15.71	31.42	319.74	142.35	1775.31	790.37	5.552
62	100	120	15.71	31.42	335.54	145.29	1760.62	762.35	5.247
63	100	120	15.71	31.42	351.83	148.23	1746.77	735.94	4.965
64	100	120	15.71	31.42	368.61	151.17	1733.70	711.00	4.703

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandatario:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	37 di 123

n°	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	M [kNm]	N [kN]	Mu [kNm]	Nu [kN]	FS
65	100	120	15.71	31.42	385.89	154.11	1721.35	687.44	4.461
66	100	120	15.71	31.42	403.68	157.05	1709.66	665.13	4.235
67	100	120	15.71	31.42	421.98	159.99	1698.58	644.00	4.025
68	100	120	15.71	31.42	440.80	162.93	1688.07	623.96	3.830
69	100	120	15.71	31.42	460.13	165.87	1678.10	604.94	3.647
70	100	120	15.71	31.42	479.99	168.81	1668.62	586.85	3.476
71	100	120	15.71	31.42	500.38	171.75	1659.60	569.65	3.317
72	100	120	15.71	31.42	521.30	174.69	1651.01	553.27	3.167
73	100	120	15.71	31.42	542.77	177.63	1642.83	537.66	3.027
74	100	120	15.71	31.42	564.78	180.58	1635.02	522.76	2.895
75	100	120	15.71	31.42	587.34	183.52	1627.57	508.54	2.771
76	100	120	15.71	31.42	610.45	186.46	1620.44	494.95	2.655
77	100	120	15.71	31.42	634.12	189.40	1613.63	481.95	2.545
78	100	120	15.71	31.42	658.36	192.34	1607.11	469.51	2.441
79	100	120	15.71	31.42	683.16	195.28	1600.86	457.60	2.343
80	100	120	15.71	31.42	708.54	198.22	1594.87	446.17	2.251
81	100	120	15.71	31.42	734.50	201.16	1589.13	435.22	2.164
82	100	120	15.71	31.42	761.04	204.10	1583.62	424.70	2.081
83	100	120	15.71	31.42	761.58	204.16	1583.51	424.50	2.079
84	100	120	15.71	31.42	788.71	207.10	1578.22	414.41	2.001
85	100	120	15.71	31.42	816.43	210.04	1573.14	404.71	1.927
86	100	120	15.71	31.42	844.74	212.98	1568.25	395.38	1.856
87	100	120	15.71	31.42	873.66	215.92	1563.54	386.41	1.790
88	100	120	15.71	31.42	903.19	218.85	1559.01	377.77	1.726
89	100	120	15.71	31.42	933.33	221.79	1554.65	369.44	1.666
90	100	120	15.71	31.42	964.10	224.73	1550.44	361.41	1.608
91	100	120	15.71	31.42	995.50	227.67	1546.37	353.66	1.553
92	100	120	15.71	31.42	1027.56	230.61	1542.44	346.16	1.501
93	100	120	15.71	31.42	1060.29	233.55	1538.64	338.92	1.451

Fondazione

Is	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	Mu [kNm]	FS
1-1-P	30.41	30.41	5.09	-1.44	4874.24	100.000 (1)
1-2-P	30.41	30.41	3.72	-8.01	4874.24	100.000 (1)
1-3-P	30.41	30.41	1.05	-28.59	4874.24	100.000 (1)
1-4-P	30.41	30.41	4.11	-100.46	-4874.24	48.518 (2)
1-5-P	30.41	30.41	0.85	-148.64	-4874.24	32.792 (2)
1-6-P	30.41	30.41	0.21	-175.09	-4874.24	27.838 (2)
1-7-P	30.41	30.41	1.55	-105.14	-4874.24	46.361 (2)
1-8-P	30.41	30.41	9.35	-30.17	4874.24	100.000 (1)
1-9-P	30.41	30.41	54.30	-3.04	4874.24	89.766 (2)
1-10-P	30.41	30.41	70.83	-0.19	4874.24	68.814 (2)
1-11-P	30.41	30.41	76.98	-0.07	4874.24	63.320 (2)
1-12-P	30.41	30.41	65.30	-1.82	4874.24	74.648 (2)
1-13-P	30.41	30.41	18.95	-15.52	4874.24	100.000 (1)
1-14-P	30.41	30.41	5.10	-71.97	-4874.24	67.727 (2)
1-15-P	30.41	30.41	0.60	-129.07	-4874.24	37.764 (2)
1-16-P	30.41	30.41	1.07	-115.54	-4874.24	42.187 (2)
1-17-P	30.41	30.41	14.24	-67.68	-4874.24	72.019 (2)
1-18-P	30.41	30.41	25.74	-9.20	4874.24	100.000 (1)
1-19-P	30.41	30.41	71.51	-0.99	4874.24	68.161 (2)
1-20-P	30.41	30.41	86.15	-0.01	4874.24	56.578 (2)
1-21-P	30.41	30.41	77.05	-0.36	4874.24	63.259 (2)
1-22-P	30.41	30.41	54.21	-4.80	4874.24	89.910 (2)
1-23-P	30.41	30.41	12.05	-29.14	4874.24	100.000 (1)
1-24-P	30.41	30.41	2.92	-92.96	-4874.24	52.435 (2)
1-25-P	30.41	30.41	0.00	-152.99	-4874.24	31.860 (2)
1-26-P	30.41	30.41	2.92	-92.96	-4874.24	52.435 (2)
1-27-P	30.41	30.41	12.05	-29.14	4874.24	100.000 (1)
1-28-P	30.41	30.41	54.21	-4.80	4874.24	89.910 (2)
1-29-P	30.41	30.41	77.05	-0.36	4874.24	63.259 (2)
1-30-P	30.41	30.41	86.15	-0.01	4874.24	56.578 (2)
1-31-P	30.41	30.41	71.51	-0.99	4874.24	68.161 (2)
1-32-P	30.41	30.41	25.74	-9.20	4874.24	100.000 (1)
1-33-P	30.41	30.41	14.24	-67.68	-4874.24	72.019 (2)
1-34-P	30.41	30.41	1.07	-115.54	-4874.24	42.187 (2)
1-35-P	30.41	30.41	0.60	-129.07	-4874.24	37.764 (2)
1-36-P	30.41	30.41	5.10	-71.97	-4874.24	67.727 (2)
1-37-P	30.41	30.41	18.95	-15.52	4874.24	100.000 (1)
1-38-P	30.41	30.41	65.30	-1.82	4874.24	74.648 (2)
1-39-P	30.41	30.41	76.98	-0.07	4874.24	63.320 (2)
1-40-P	30.41	30.41	70.83	-0.19	4874.24	68.814 (2)
1-41-P	30.41	30.41	54.30	-3.04	4874.24	89.766 (2)
1-42-P	30.41	30.41	9.35	-30.17	4874.24	100.000 (1)
1-43-P	30.41	30.41	1.55	-105.14	-4874.24	46.361 (2)
1-44-P	30.41	30.41	0.21	-175.09	-4874.24	27.838 (2)
1-45-P	30.41	30.41	0.85	-148.64	-4874.24	32.792 (2)

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
IF2R 2.2.E.ZZ CL TR.16.0.5.003 A 38 di 123

Is	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	Mu [kNm]	FS
1-46-P	30.41	30.41	4.11	-100.46	-4874.24	48.518 (2)
1-47-P	30.41	30.41	1.05	-28.59	4874.24	100.000 (1)
1-48-P	30.41	30.41	3.72	-8.01	4874.24	100.000 (1)
1-49-P	30.41	30.41	5.09	-1.44	4874.24	100.000 (1)
2-1-P	30.41	30.41	21.39	0.00	4874.24	100.000 (1)
2-2-P	30.41	30.41	17.59	-0.08	4874.24	100.000 (1)
2-3-P	30.41	30.41	13.48	-2.87	4874.24	100.000 (1)
2-4-P	30.41	30.41	15.71	-16.49	4874.24	100.000 (1)
2-5-P	30.41	30.41	3.07	-122.24	-4874.24	31.900 (2)
2-6-P	30.41	30.41	0.65	-201.69	-4874.24	24.167 (2)
2-7-P	30.41	30.41	7.15	-57.83	-4874.24	67.424 (2)
2-8-P	30.41	30.41	29.26	-5.33	4874.24	100.000 (1)
2-9-P	30.41	30.41	52.66	-0.02	4874.24	92.567 (2)
2-10-P	30.41	30.41	64.53	0.00	4874.24	75.539 (2)
2-11-P	30.41	30.41	67.94	0.00	4874.24	71.740 (2)
2-12-P	30.41	30.41	58.66	0.00	4874.24	83.097 (2)
2-13-P	30.41	30.41	35.89	-2.18	4874.24	100.000 (1)
2-14-P	30.41	30.41	14.18	-17.96	4874.24	100.000 (1)
2-15-P	30.41	30.41	1.65	-158.05	-4874.24	24.671 (2)
2-16-P	30.41	30.41	2.96	-130.10	-4874.24	29.972 (2)
2-17-P	30.41	30.41	30.14	-11.77	4874.24	100.000 (1)
2-18-P	30.41	30.41	38.91	-0.92	4874.24	100.000 (1)
2-19-P	30.41	30.41	61.55	0.00	4874.24	79.187 (2)
2-20-P	30.41	30.41	71.66	0.00	4874.24	68.020 (2)
2-21-P	30.41	30.41	65.45	0.00	4874.24	74.469 (2)
2-22-P	30.41	30.41	52.59	-0.22	4874.24	92.688 (2)
2-23-P	30.41	30.41	31.63	-5.78	4874.24	100.000 (1)
2-24-P	30.41	30.41	5.49	-74.71	-4874.24	52.197 (2)
2-25-P	30.41	30.41	0.00	-215.36	-4874.24	22.633 (2)
2-26-P	30.41	30.41	5.49	-74.71	-4874.24	52.197 (2)
2-27-P	30.41	30.41	31.63	-5.78	4874.24	100.000 (1)
2-28-P	30.41	30.41	52.59	-0.22	4874.24	92.688 (2)
2-29-P	30.41	30.41	65.45	0.00	4874.24	74.469 (2)
2-30-P	30.41	30.41	71.66	0.00	4874.24	68.020 (2)
2-31-P	30.41	30.41	61.55	0.00	4874.24	79.187 (2)
2-32-P	30.41	30.41	38.91	-0.92	4874.24	100.000 (1)
2-33-P	30.41	30.41	30.14	-11.77	4874.24	100.000 (1)
2-34-P	30.41	30.41	2.96	-130.10	-4874.24	29.972 (2)
2-35-P	30.41	30.41	1.65	-158.05	-4874.24	24.671 (2)
2-36-P	30.41	30.41	14.18	-17.96	4874.24	100.000 (1)
2-37-P	30.41	30.41	35.89	-2.18	4874.24	100.000 (1)
2-38-P	30.41	30.41	58.66	0.00	4874.24	83.097 (2)
2-39-P	30.41	30.41	67.94	0.00	4874.24	71.740 (2)
2-40-P	30.41	30.41	64.53	0.00	4874.24	75.539 (2)
2-41-P	30.41	30.41	52.66	-0.02	4874.24	92.567 (2)
2-42-P	30.41	30.41	29.26	-5.33	4874.24	100.000 (1)
2-43-P	30.41	30.41	7.15	-57.83	-4874.24	67.424 (2)
2-44-P	30.41	30.41	0.65	-201.69	-4874.24	24.167 (2)
2-45-P	30.41	30.41	3.07	-122.24	-4874.24	31.900 (2)
2-46-P	30.41	30.41	15.71	-16.49	4874.24	100.000 (1)
2-47-P	30.41	30.41	13.48	-2.87	4874.24	100.000 (1)
2-48-P	30.41	30.41	17.59	-0.08	4874.24	100.000 (1)
2-49-P	30.41	30.41	21.39	0.00	4874.24	100.000 (1)
5-1-P	38.01	38.01	0.00	-69.22	-6091.27	88.003 (2)
5-2-P	38.01	38.01	0.00	-95.28	-6091.27	63.928 (2)
5-3-P	38.01	38.01	0.00	-131.18	-6091.27	46.435 (2)
5-4-P	38.01	38.01	0.00	-181.81	-6091.27	33.503 (2)
5-5-P	38.01	38.01	0.00	-229.67	-6091.27	26.521 (2)
5-6-P	38.01	38.01	0.00	-265.45	-6091.27	22.947 (2)
5-7-P	38.01	38.01	0.00	-255.68	-6091.27	23.824 (2)
5-8-P	38.01	38.01	0.00	-249.42	-6091.27	24.421 (2)
5-9-P	38.01	38.01	0.00	-245.51	-6091.27	24.810 (2)
5-10-P	38.01	38.01	0.00	-250.89	-6091.27	24.278 (2)
5-11-P	38.01	38.01	0.00	-255.03	-6091.27	23.884 (2)
5-12-P	38.01	38.01	0.00	-257.31	-6091.27	23.673 (2)
5-13-P	38.01	38.01	0.00	-268.72	-6091.27	22.668 (2)
5-14-P	38.01	38.01	0.00	-284.57	-6091.27	21.405 (2)
5-15-P	38.01	38.01	0.00	-309.05	-6091.27	19.710 (2)
5-16-P	38.01	38.01	0.00	-305.16	-6091.27	19.961 (2)
5-17-P	38.01	38.01	0.00	-282.36	-6091.27	21.573 (2)
5-18-P	38.01	38.01	0.00	-270.78	-6091.27	22.496 (2)
5-19-P	38.01	38.01	0.00	-264.15	-6091.27	23.060 (2)
5-20-P	38.01	38.01	0.00	-264.96	-6091.27	22.989 (2)
5-21-P	38.01	38.01	0.00	-264.74	-6091.27	23.008 (2)
5-22-P	38.01	38.01	0.00	-266.76	-6091.27	22.834 (2)
5-23-P	38.01	38.01	0.00	-278.77	-6091.27	21.850 (2)
5-24-P	38.01	38.01	0.00	-297.65	-6091.27	20.465 (2)
5-25-P	38.01	38.01	0.00	-321.09	-6091.27	18.970 (2)
5-26-P	38.01	38.01	0.00	-297.65	-6091.27	20.465 (2)
5-27-P	38.01	38.01	0.00	-278.77	-6091.27	21.850 (2)
5-28-P	38.01	38.01	0.00	-266.76	-6091.27	22.834 (2)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

ITINERARIO NAPOLI – BARI

RADDOPPIO TRATTA CANCELLO-BENEVENTO

II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO

2° SUBLOTTO TELESE – SAN LORENZO

PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	39 di 123

Is	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	Mu [kNm]	FS
5-29-P	38.01	38.01	0.00	-264.74	-6091.27	23.008 (2)
5-30-P	38.01	38.01	0.00	-264.96	-6091.27	22.989 (2)
5-31-P	38.01	38.01	0.00	-264.15	-6091.27	23.060 (2)
5-32-P	38.01	38.01	0.00	-270.78	-6091.27	22.496 (2)
5-33-P	38.01	38.01	0.00	-282.36	-6091.27	21.573 (2)
5-34-P	38.01	38.01	0.00	-305.16	-6091.27	19.961 (2)
5-35-P	38.01	38.01	0.00	-309.05	-6091.27	19.710 (2)
5-36-P	38.01	38.01	0.00	-284.57	-6091.27	21.405 (2)
5-37-P	38.01	38.01	0.00	-268.72	-6091.27	22.668 (2)
5-38-P	38.01	38.01	0.00	-257.31	-6091.27	23.673 (2)
5-39-P	38.01	38.01	0.00	-255.03	-6091.27	23.884 (2)
5-40-P	38.01	38.01	0.00	-250.89	-6091.27	24.278 (2)
5-41-P	38.01	38.01	0.00	-245.51	-6091.27	24.810 (2)
5-42-P	38.01	38.01	0.00	-249.42	-6091.27	24.421 (2)
5-43-P	38.01	38.01	0.00	-255.68	-6091.27	23.824 (2)
5-44-P	38.01	38.01	0.00	-265.45	-6091.27	22.947 (2)
5-45-P	38.01	38.01	0.00	-229.67	-6091.27	26.521 (2)
5-46-P	38.01	38.01	0.00	-181.81	-6091.27	33.503 (2)
5-47-P	38.01	38.01	0.00	-131.18	-6091.27	46.435 (2)
5-48-P	38.01	38.01	0.00	-95.28	-6091.27	63.928 (2)
5-49-P	38.01	38.01	0.00	-69.22	-6091.27	88.003 (2)
6-1-P	34.21	34.21	0.00	-3.00	5493.58	100.000 (1)
6-2-P	34.21	34.21	0.00	-14.94	-5493.58	100.000 (1)
6-3-P	34.21	34.21	0.00	-29.65	-5493.58	100.000 (1)
6-4-P	34.21	34.21	0.00	-48.51	-5493.58	100.000 (1)
6-5-P	34.21	34.21	0.00	-84.08	-5493.58	65.334 (2)
6-6-P	34.21	34.21	0.00	-109.52	-5493.58	50.161 (2)
6-7-P	34.21	34.21	0.00	-107.43	-5493.58	51.138 (2)
6-8-P	34.21	34.21	0.00	-110.40	-5493.58	49.758 (2)
6-9-P	34.21	34.21	0.00	-116.78	-5493.58	47.041 (2)
6-10-P	34.21	34.21	0.00	-119.97	-5493.58	45.793 (2)
6-11-P	34.21	34.21	0.00	-125.16	-5493.58	43.894 (2)
6-12-P	34.21	34.21	0.00	-133.35	-5493.58	41.196 (2)
6-13-P	34.21	34.21	0.00	-140.18	-5493.58	39.190 (2)
6-14-P	34.21	34.21	0.00	-148.91	-5493.58	36.891 (2)
6-15-P	34.21	34.21	0.00	-166.65	-5493.58	32.965 (2)
6-16-P	34.21	34.21	0.00	-165.40	-5493.58	33.215 (2)
6-17-P	34.21	34.21	0.00	-151.48	-5493.58	36.266 (2)
6-18-P	34.21	34.21	0.00	-149.32	-5493.58	36.790 (2)
6-19-P	34.21	34.21	0.00	-146.91	-5493.58	37.395 (2)
6-20-P	34.21	34.21	0.00	-144.11	-5493.58	38.121 (2)
6-21-P	34.21	34.21	0.00	-146.76	-5493.58	37.434 (2)
6-22-P	34.21	34.21	0.00	-150.66	-5493.58	36.462 (2)
6-23-P	34.21	34.21	0.00	-154.18	-5493.58	35.632 (2)
6-24-P	34.21	34.21	0.00	-164.93	-5493.58	33.310 (2)
6-25-P	34.21	34.21	0.00	-180.48	-5493.58	30.438 (2)
6-26-P	34.21	34.21	0.00	-164.93	-5493.58	33.310 (2)
6-27-P	34.21	34.21	0.00	-154.18	-5493.58	35.632 (2)
6-28-P	34.21	34.21	0.00	-150.66	-5493.58	36.462 (2)
6-29-P	34.21	34.21	0.00	-146.76	-5493.58	37.434 (2)
6-30-P	34.21	34.21	0.00	-144.11	-5493.58	38.121 (2)
6-31-P	34.21	34.21	0.00	-146.91	-5493.58	37.395 (2)
6-32-P	34.21	34.21	0.00	-149.32	-5493.58	36.790 (2)
6-33-P	34.21	34.21	0.00	-151.48	-5493.58	36.266 (2)
6-34-P	34.21	34.21	0.00	-165.40	-5493.58	33.215 (2)
6-35-P	34.21	34.21	0.00	-166.65	-5493.58	32.965 (2)
6-36-P	34.21	34.21	0.00	-148.91	-5493.58	36.891 (2)
6-37-P	34.21	34.21	0.00	-140.18	-5493.58	39.190 (2)
6-38-P	34.21	34.21	0.00	-133.35	-5493.58	41.196 (2)
6-39-P	34.21	34.21	0.00	-125.16	-5493.58	43.894 (2)
6-40-P	34.21	34.21	0.00	-119.97	-5493.58	45.793 (2)
6-41-P	34.21	34.21	0.00	-116.78	-5493.58	47.041 (2)
6-42-P	34.21	34.21	0.00	-110.40	-5493.58	49.758 (2)
6-43-P	34.21	34.21	0.00	-107.43	-5493.58	51.138 (2)
6-44-P	34.21	34.21	0.00	-109.52	-5493.58	50.161 (2)
6-45-P	34.21	34.21	0.00	-84.08	-5493.58	65.334 (2)
6-46-P	34.21	34.21	0.00	-48.51	-5493.58	100.000 (1)
6-47-P	34.21	34.21	0.00	-29.65	-5493.58	100.000 (1)
6-48-P	34.21	34.21	0.00	-14.94	-5493.58	100.000 (1)
6-49-P	34.21	34.21	0.00	-3.00	5493.58	100.000 (1)
7-1-P	34.21	34.21	4.05	-3.73	5493.58	100.000 (1)
7-2-P	34.21	34.21	10.89	-4.71	5493.58	100.000 (1)
7-3-P	34.21	34.21	15.69	-8.27	5493.58	100.000 (1)
7-4-P	34.21	34.21	19.41	-17.69	5493.58	100.000 (1)
7-5-P	34.21	34.21	59.06	-0.78	5493.58	88.581 (2)
7-6-P	34.21	34.21	81.20	-0.52	5493.58	61.212 (2)
7-7-P	34.21	34.21	14.54	-7.87	5493.58	100.000 (1)
7-8-P	34.21	34.21	15.27	-12.33	5493.58	100.000 (1)
7-9-P	34.21	34.21	15.88	-6.78	5493.58	100.000 (1)
7-10-P	34.21	34.21	10.79	-5.89	5493.58	100.000 (1)
7-11-P	34.21	34.21	8.86	-6.51	5493.58	100.000 (1)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandatario:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	40 di 123

Is	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	Mu [kNm]	FS
7-12-P	34.21	34.21	11.79	-9.48	5493.58	100.000 (1)
7-13-P	34.21	34.21	11.45	-17.12	5493.58	100.000 (1)
7-14-P	34.21	34.21	12.36	-22.85	5493.58	100.000 (1)
7-15-P	34.21	34.21	48.51	-10.07	5493.58	75.499 (2)
7-16-P	34.21	34.21	39.89	-11.69	5493.58	91.813 (2)
7-17-P	34.21	34.21	12.06	-29.40	5493.58	100.000 (1)
7-18-P	34.21	34.21	9.18	-18.93	5493.58	100.000 (1)
7-19-P	34.21	34.21	6.76	-12.95	5493.58	100.000 (1)
7-20-P	34.21	34.21	3.06	-11.73	-5493.58	100.000 (1)
7-21-P	34.21	34.21	4.91	-12.81	5493.58	100.000 (1)
7-22-P	34.21	34.21	7.96	-16.29	5493.58	100.000 (1)
7-23-P	34.21	34.21	9.80	-26.67	5493.58	100.000 (1)
7-24-P	34.21	34.21	7.46	-17.47	5493.58	100.000 (1)
7-25-P	34.21	34.21	55.94	-12.04	5493.58	70.142 (2)
7-26-P	34.21	34.21	7.46	-17.47	5493.58	100.000 (1)
7-27-P	34.21	34.21	9.80	-26.67	5493.58	100.000 (1)
7-28-P	34.21	34.21	7.96	-16.29	5493.58	100.000 (1)
7-29-P	34.21	34.21	4.91	-12.81	5493.58	100.000 (1)
7-30-P	34.21	34.21	3.06	-11.73	-5493.58	100.000 (1)
7-31-P	34.21	34.21	6.76	-12.95	5493.58	100.000 (1)
7-32-P	34.21	34.21	9.18	-18.93	5493.58	100.000 (1)
7-33-P	34.21	34.21	12.06	-29.40	5493.58	100.000 (1)
7-34-P	34.21	34.21	39.89	-11.69	5493.58	91.813 (2)
7-35-P	34.21	34.21	48.51	-10.07	5493.58	75.499 (2)
7-36-P	34.21	34.21	12.36	-22.85	5493.58	100.000 (1)
7-37-P	34.21	34.21	11.45	-17.12	5493.58	100.000 (1)
7-38-P	34.21	34.21	11.79	-9.48	5493.58	100.000 (1)
7-39-P	34.21	34.21	8.86	-6.51	5493.58	100.000 (1)
7-40-P	34.21	34.21	10.79	-5.89	5493.58	100.000 (1)
7-41-P	34.21	34.21	15.88	-6.78	5493.58	100.000 (1)
7-42-P	34.21	34.21	15.27	-12.33	5493.58	100.000 (1)
7-43-P	34.21	34.21	14.54	-7.87	5493.58	100.000 (1)
7-44-P	34.21	34.21	81.20	-0.52	5493.58	61.212 (2)
7-45-P	34.21	34.21	59.06	-0.78	5493.58	88.581 (2)
7-46-P	34.21	34.21	19.41	-17.69	5493.58	100.000 (1)
7-47-P	34.21	34.21	15.69	-8.27	5493.58	100.000 (1)
7-48-P	34.21	34.21	10.89	-4.71	5493.58	100.000 (1)
7-49-P	34.21	34.21	4.05	-3.73	5493.58	100.000 (1)
8-1-P	38.01	38.01	3.55	-4.54	6091.27	100.000 (1)
8-2-P	38.01	38.01	6.47	-5.95	6091.27	100.000 (1)
8-3-P	38.01	38.01	16.50	-10.26	6091.27	100.000 (1)
8-4-P	38.01	38.01	75.23	-19.54	6091.27	80.965 (2)
8-5-P	38.01	38.01	84.42	-2.64	6091.27	72.157 (2)
8-6-P	38.01	38.01	95.19	-0.22	6091.27	63.989 (2)
8-7-P	38.01	38.01	81.75	-11.41	6091.27	74.508 (2)
8-8-P	38.01	38.01	31.75	-13.71	6091.27	100.000 (1)
8-9-P	38.01	38.01	11.86	-4.40	6091.27	100.000 (1)
8-10-P	38.01	38.01	9.77	-1.92	6091.27	100.000 (1)
8-11-P	38.01	38.01	9.10	-2.06	6091.27	100.000 (1)
8-12-P	38.01	38.01	9.17	-4.77	6091.27	100.000 (1)
8-13-P	38.01	38.01	24.88	-13.85	6091.27	100.000 (1)
8-14-P	38.01	38.01	68.93	-22.56	6091.27	88.368 (2)
8-15-P	38.01	38.01	68.20	-0.94	6091.27	89.310 (2)
8-16-P	38.01	38.01	62.81	-2.53	6091.27	96.974 (2)
8-17-P	38.01	38.01	66.12	-31.58	6091.27	92.130 (2)
8-18-P	38.01	38.01	18.48	-14.89	6091.27	100.000 (1)
8-19-P	38.01	38.01	5.30	-8.04	6091.27	100.000 (1)
8-20-P	38.01	38.01	3.54	-5.51	6091.27	100.000 (1)
8-21-P	38.01	38.01	3.65	-6.92	6091.27	100.000 (1)
8-22-P	38.01	38.01	10.04	-12.75	6091.27	100.000 (1)
8-23-P	38.01	38.01	29.52	-22.24	6091.27	100.000 (1)
8-24-P	38.01	38.01	21.12	-17.39	6091.27	100.000 (1)
8-25-P	38.01	38.01	68.02	-3.06	6091.27	72.490 (2)
8-26-P	38.01	38.01	21.12	-17.39	6091.27	100.000 (1)
8-27-P	38.01	38.01	29.52	-22.24	6091.27	100.000 (1)
8-28-P	38.01	38.01	10.04	-12.75	6091.27	100.000 (1)
8-29-P	38.01	38.01	3.65	-6.92	6091.27	100.000 (1)
8-30-P	38.01	38.01	3.54	-5.51	6091.27	100.000 (1)
8-31-P	38.01	38.01	5.30	-8.04	6091.27	100.000 (1)
8-32-P	38.01	38.01	18.48	-14.89	6091.27	100.000 (1)
8-33-P	38.01	38.01	66.12	-31.58	6091.27	92.130 (2)
8-34-P	38.01	38.01	62.81	-2.53	6091.27	96.974 (2)
8-35-P	38.01	38.01	68.20	-0.94	6091.27	89.310 (2)
8-36-P	38.01	38.01	68.93	-22.56	6091.27	88.368 (2)
8-37-P	38.01	38.01	24.88	-13.85	6091.27	100.000 (1)
8-38-P	38.01	38.01	9.17	-4.77	6091.27	100.000 (1)
8-39-P	38.01	38.01	9.10	-2.06	6091.27	100.000 (1)
8-40-P	38.01	38.01	9.77	-1.92	6091.27	100.000 (1)
8-41-P	38.01	38.01	11.86	-4.40	6091.27	100.000 (1)
8-42-P	38.01	38.01	31.75	-13.71	6091.27	100.000 (1)
8-43-P	38.01	38.01	81.75	-11.41	6091.27	74.508 (2)

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	41 di 123

Is	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	Mu [kNm]	FS
8-44-P	38.01	38.01	95.19	-0.22	6091.27	63.989 (2)
8-45-P	38.01	38.01	84.42	-2.64	6091.27	72.157 (2)
8-46-P	38.01	38.01	75.23	-19.54	6091.27	80.965 (2)
8-47-P	38.01	38.01	16.50	-10.26	6091.27	100.000 (1)
8-48-P	38.01	38.01	6.47	-5.95	6091.27	100.000 (1)
8-49-P	38.01	38.01	3.55	-4.54	6091.27	100.000 (1)
9-1-S	38.01	38.01	4.59	-19.61	6100.54	100.000 (1)
9-2-S	38.01	38.01	1.07	-33.26	6100.54	100.000 (1)
9-3-S	38.01	38.01	0.77	-66.28	-6100.54	92.046 (2)
9-4-S	38.01	38.01	6.88	-85.33	-6100.54	57.197 (2)
9-5-S	38.01	38.01	31.01	-27.52	6100.54	100.000 (1)
9-6-S	38.01	38.01	105.25	-4.07	6100.54	46.370 (2)
9-7-S	38.01	38.01	271.42	0.00	6100.54	22.476 (2)
9-8-S	38.01	38.01	0.00	-1148.69	-6100.54	5.311 (2)
9-9-S	38.01	38.01	0.00	-1027.49	-6100.54	5.937 (2)
9-10-S	38.01	38.01	0.00	-961.52	-6100.54	6.345 (2)
9-11-S	38.01	38.01	0.00	-855.74	-6100.54	7.129 (2)
9-12-S	38.01	38.01	0.00	-738.80	-6100.54	8.257 (2)
9-13-S	38.01	38.01	0.00	-603.39	-6100.54	10.111 (2)
9-14-S	38.01	38.01	0.00	-465.35	-6100.54	13.110 (2)
9-15-S	38.01	38.01	0.00	-327.85	-6100.54	18.608 (2)
9-16-S	38.01	38.01	0.11	-202.87	-6100.54	30.071 (2)
9-17-S	38.01	38.01	2.87	-95.87	-6100.54	63.631 (2)
9-18-S	38.01	38.01	20.54	-25.97	6100.54	100.000 (1)
9-19-S	38.01	38.01	32.28	-16.40	6100.54	100.000 (1)
9-20-S	38.01	38.01	73.91	-12.70	6100.54	82.539 (2)
9-21-S	38.01	38.01	29.72	-10.45	6100.54	100.000 (1)
9-22-S	38.01	38.01	22.60	-7.81	6100.54	100.000 (1)
9-23-S	38.01	38.01	16.52	-4.72	6100.54	100.000 (1)
10-1-S	38.01	38.01	32.03	-13.26	6100.54	100.000 (1)
10-2-S	38.01	38.01	92.58	-42.16	6100.54	50.204 (2)
10-3-S	38.01	38.01	16.91	-42.55	6100.54	100.000 (1)
10-4-S	38.01	38.01	9.68	-278.30	-6100.54	21.921 (2)
10-5-S	38.01	38.01	12.75	-230.60	-6100.54	21.164 (2)
10-6-S	38.01	38.01	53.90	-85.69	-6100.54	42.717 (2)
10-7-S	38.01	38.01	248.84	0.00	6100.54	24.516 (2)
10-8-S	38.01	38.01	0.00	-965.10	-6100.54	6.321 (2)
10-9-S	38.01	38.01	0.00	-820.66	-6100.54	7.434 (2)
10-10-S	38.01	38.01	0.00	-1018.40	-6100.54	5.990 (2)
10-11-S	38.01	38.01	0.00	-977.33	-6100.54	6.242 (2)
10-12-S	38.01	38.01	0.00	-874.68	-6100.54	6.975 (2)
10-13-S	38.01	38.01	0.00	-670.83	-6100.54	9.094 (2)
10-14-S	38.01	38.01	0.00	-492.30	-6100.54	12.392 (2)
10-15-S	38.01	38.01	0.00	-324.66	-6100.54	18.790 (2)
10-16-S	38.01	38.01	0.01	-169.47	-6100.54	35.998 (2)
10-17-S	38.01	38.01	33.52	-44.09	-6100.54	83.017 (2)
10-18-S	38.01	38.01	163.07	-10.95	6100.54	37.411 (2)
10-19-S	38.01	38.01	169.47	-10.04	6100.54	35.998 (2)
10-20-S	38.01	38.01	123.84	-12.25	6100.54	49.263 (2)
10-21-S	38.01	38.01	41.17	-73.52	-6100.54	82.975 (2)
10-22-S	38.01	38.01	26.82	-88.97	-6100.54	54.855 (2)
10-23-S	38.01	38.01	10.12	-23.72	6100.54	100.000 (1)
11-1-S	38.01	38.01	1.78	-23.56	6100.54	100.000 (1)
11-2-S	38.01	38.01	2.78	-26.51	6100.54	100.000 (1)
11-3-S	38.01	38.01	3.23	-18.51	6100.54	100.000 (1)
11-4-S	38.01	38.01	14.46	-5.67	6100.54	100.000 (1)
11-5-S	38.01	38.01	71.42	0.00	6100.54	85.417 (2)
11-6-S	38.01	38.01	174.95	0.00	6100.54	34.870 (2)
11-7-S	38.01	38.01	306.80	0.00	6100.54	19.884 (2)
11-8-S	38.01	38.01	0.00	-1319.43	-6100.54	4.624 (2)
11-9-S	38.01	38.01	0.00	-1154.10	-6100.54	5.286 (2)
11-10-S	38.01	38.01	0.00	-1019.84	-6100.54	5.982 (2)
11-11-S	38.01	38.01	0.00	-884.13	-6100.54	6.900 (2)
11-12-S	38.01	38.01	0.00	-746.50	-6100.54	8.172 (2)
11-13-S	38.01	38.01	0.00	-605.40	-6100.54	10.077 (2)
11-14-S	38.01	38.01	0.00	-469.68	-6100.54	12.989 (2)
11-15-S	38.01	38.01	0.00	-337.93	-6100.54	18.053 (2)
11-16-S	38.01	38.01	0.00	-222.50	-6100.54	27.418 (2)
11-17-S	38.01	38.01	0.01	-121.58	-6100.54	50.175 (2)
11-18-S	38.01	38.01	2.03	-28.04	6100.54	100.000 (1)
11-19-S	38.01	38.01	6.49	-4.51	6100.54	100.000 (1)
11-20-S	38.01	38.01	22.05	-1.70	6100.54	100.000 (1)
11-21-S	38.01	38.01	23.37	-1.57	6100.54	100.000 (1)
11-22-S	38.01	38.01	20.37	-1.63	6100.54	100.000 (1)
11-23-S	38.01	38.01	14.26	-1.34	6100.54	100.000 (1)
12-1-S	38.01	38.01	38.86	-8.77	6100.54	100.000 (1)
12-2-S	38.01	38.01	100.03	-35.08	6100.54	49.372 (2)
12-3-S	38.01	38.01	30.25	-61.77	-6100.54	98.768 (2)
12-4-S	38.01	38.01	6.88	-312.16	-6100.54	19.543 (2)
12-5-S	38.01	38.01	5.52	-262.37	-6100.54	23.252 (2)
12-6-S	38.01	38.01	23.13	-83.32	-6100.54	58.576 (2)

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandatario:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	42 di 123

Is	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	Mu [kNm]	FS
12-7-S	38.01	38.01	237.84	0.00	6100.54	25.649 (2)
12-8-S	38.01	38.01	0.00	-937.15	-6100.54	6.510 (2)
12-9-S	38.01	38.01	0.00	-809.71	-6100.54	7.534 (2)
12-10-S	38.01	38.01	0.00	-1048.70	-6100.54	5.817 (2)
12-11-S	38.01	38.01	0.00	-1016.87	-6100.54	5.999 (2)
12-12-S	38.01	38.01	0.00	-915.22	-6100.54	6.666 (2)
12-13-S	38.01	38.01	0.00	-698.70	-6100.54	8.731 (2)
12-14-S	38.01	38.01	0.00	-509.72	-6100.54	11.968 (2)
12-15-S	38.01	38.01	0.00	-332.36	-6100.54	18.355 (2)
12-16-S	38.01	38.01	0.00	-167.63	-6100.54	36.393 (2)
12-17-S	38.01	38.01	24.20	-18.97	6100.54	100.000 (1)
12-18-S	38.01	38.01	182.16	-5.58	6100.54	33.491 (2)
12-19-S	38.01	38.01	189.67	-9.88	6100.54	32.163 (2)
12-20-S	38.01	38.01	136.98	-14.91	6100.54	44.537 (2)
12-21-S	38.01	38.01	37.87	-79.15	-6100.54	77.080 (2)
12-22-S	38.01	38.01	20.35	-96.51	-6100.54	63.209 (2)
12-23-S	38.01	38.01	7.69	-27.20	6100.54	100.000 (1)
13-1-S	38.01	38.01	3.78	-21.69	6100.54	100.000 (1)
13-2-S	38.01	38.01	1.95	-34.29	6100.54	100.000 (1)
13-3-S	38.01	38.01	3.29	-34.13	6100.54	100.000 (1)
13-4-S	38.01	38.01	16.46	-21.91	6100.54	100.000 (1)
13-5-S	38.01	38.01	57.02	-3.61	6100.54	100.000 (1)
13-6-S	38.01	38.01	157.35	0.00	6100.54	38.771 (2)
13-7-S	38.01	38.01	298.22	0.00	6100.54	20.456 (2)
13-8-S	38.01	38.01	0.00	-1297.49	-6100.54	4.702 (2)
13-9-S	38.01	38.01	0.00	-1163.36	-6100.54	5.244 (2)
13-10-S	38.01	38.01	0.00	-1029.16	-6100.54	5.928 (2)
13-11-S	38.01	38.01	0.00	-894.53	-6100.54	6.820 (2)
13-12-S	38.01	38.01	0.00	-758.54	-6100.54	8.042 (2)
13-13-S	38.01	38.01	0.00	-620.08	-6100.54	9.838 (2)
13-14-S	38.01	38.01	0.00	-481.33	-6100.54	12.674 (2)
13-15-S	38.01	38.01	0.00	-344.36	-6100.54	17.716 (2)
13-16-S	38.01	38.01	0.00	-222.91	-6100.54	27.368 (2)
13-17-S	38.01	38.01	0.00	-118.89	-6100.54	51.312 (2)
13-18-S	38.01	38.01	3.83	-29.64	6100.54	100.000 (1)
13-19-S	38.01	38.01	14.53	-11.33	6100.54	100.000 (1)
13-20-S	38.01	38.01	31.04	-7.98	6100.54	100.000 (1)
13-21-S	38.01	38.01	29.88	-3.96	6100.54	100.000 (1)
13-22-S	38.01	38.01	24.01	-2.74	6100.54	100.000 (1)
13-23-S	38.01	38.01	14.85	-2.79	6100.54	100.000 (1)
14-1-S	41.81	41.81	21.99	-20.20	6698.25	100.000 (1)
14-2-S	41.81	41.81	34.11	-33.53	6698.25	100.000 (1)
14-3-S	41.81	41.81	11.14	-45.98	6698.25	100.000 (1)
14-4-S	41.81	41.81	9.37	-181.26	-6698.25	36.954 (2)
14-5-S	41.81	41.81	24.93	-136.83	-6698.25	29.372 (2)
14-6-S	41.81	41.81	85.06	-43.08	6698.25	47.248 (2)
14-7-S	41.81	41.81	267.77	0.00	6698.25	25.015 (2)
14-8-S	41.81	41.81	0.00	-1113.24	-6698.25	6.017 (2)
14-9-S	41.81	41.81	0.00	-984.67	-6698.25	6.802 (2)
14-10-S	41.81	41.81	0.00	-1038.76	-6698.25	6.448 (2)
14-11-S	41.81	41.81	0.00	-957.45	-6698.25	6.996 (2)
14-12-S	41.81	41.81	0.00	-840.00	-6698.25	7.974 (2)
14-13-S	41.81	41.81	0.00	-662.95	-6698.25	10.104 (2)
14-14-S	41.81	41.81	0.00	-498.56	-6698.25	13.435 (2)
14-15-S	41.81	41.81	0.00	-340.58	-6698.25	19.667 (2)
14-16-S	41.81	41.81	0.00	-196.32	-6698.25	34.119 (2)
14-17-S	41.81	41.81	14.54	-72.85	-6698.25	73.555 (2)
14-18-S	41.81	41.81	93.42	-20.52	6698.25	68.284 (2)
14-19-S	41.81	41.81	111.66	-13.02	6698.25	59.989 (2)
14-20-S	41.81	41.81	101.11	-14.83	6698.25	66.250 (2)
14-21-S	41.81	41.81	26.75	-37.17	6698.25	100.000 (1)
14-22-S	41.81	41.81	20.18	-35.69	6698.25	100.000 (1)
14-23-S	41.81	41.81	14.68	-15.68	6698.25	100.000 (1)
15-1-S	38.01	38.01	21.99	-20.20	6100.54	100.000 (1)
15-2-S	38.01	38.01	52.39	-50.54	6100.54	99.814 (2)
15-3-S	38.01	38.01	18.72	-66.51	-6100.54	91.722 (2)
15-4-S	38.01	38.01	9.37	-181.26	-6100.54	33.657 (2)
15-5-S	38.01	38.01	24.93	-136.83	-6100.54	26.751 (2)
15-6-S	38.01	38.01	85.06	-43.08	6100.54	43.032 (2)
15-7-S	38.01	38.01	267.77	0.00	6100.54	22.783 (2)
15-8-S	38.01	38.01	0.00	-1113.24	-6100.54	5.480 (2)
15-9-S	38.01	38.01	0.00	-984.67	-6100.54	6.195 (2)
15-10-S	38.01	38.01	0.00	-1038.76	-6100.54	5.873 (2)
15-11-S	38.01	38.01	0.00	-957.45	-6100.54	6.372 (2)
15-12-S	38.01	38.01	0.00	-840.00	-6100.54	7.263 (2)
15-13-S	38.01	38.01	0.00	-662.95	-6100.54	9.202 (2)
15-14-S	38.01	38.01	0.00	-498.56	-6100.54	12.236 (2)
15-15-S	38.01	38.01	0.00	-340.58	-6100.54	17.912 (2)
15-16-S	38.01	38.01	0.00	-196.32	-6100.54	31.074 (2)
15-17-S	38.01	38.01	14.54	-72.85	-6100.54	66.992 (2)
15-18-S	38.01	38.01	93.42	-20.52	6100.54	62.191 (2)

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandatario:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
IF2R 2.2.E.ZZ CL TR.16.0.5.003 A 43 di 123

Is	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	Mu [kNm]	FS
15-19-S	38.01	38.01	111.66	-13.02	6100.54	54.636 (2)
15-20-S	38.01	38.01	101.11	-14.83	6100.54	60.338 (2)
15-21-S	38.01	38.01	26.75	-37.17	6100.54	100.000 (1)
15-22-S	38.01	38.01	20.18	-35.69	6100.54	100.000 (1)
15-23-S	38.01	38.01	14.68	-15.68	6100.54	100.000 (1)
16-1-S	38.01	38.01	3.78	-21.69	6100.54	100.000 (1)
16-2-S	38.01	38.01	1.95	-34.29	6100.54	100.000 (1)
16-3-S	38.01	38.01	3.29	-34.13	6100.54	100.000 (1)
16-4-S	38.01	38.01	16.46	-21.91	6100.54	100.000 (1)
16-5-S	38.01	38.01	57.02	-3.61	6100.54	100.000 (1)
16-6-S	38.01	38.01	157.35	0.00	6100.54	38.771 (2)
16-7-S	38.01	38.01	298.22	0.00	6100.54	20.456 (2)
16-8-S	38.01	38.01	0.00	-1297.49	-6100.54	4.702 (2)
16-9-S	38.01	38.01	0.00	-1163.36	-6100.54	5.244 (2)
16-10-S	38.01	38.01	0.00	-1029.16	-6100.54	5.928 (2)
16-11-S	38.01	38.01	0.00	-894.53	-6100.54	6.820 (2)
16-12-S	38.01	38.01	0.00	-758.54	-6100.54	8.042 (2)
16-13-S	38.01	38.01	0.00	-620.08	-6100.54	9.838 (2)
16-14-S	38.01	38.01	0.00	-481.33	-6100.54	12.674 (2)
16-15-S	38.01	38.01	0.00	-344.36	-6100.54	17.716 (2)
16-16-S	38.01	38.01	0.00	-222.91	-6100.54	27.368 (2)
16-17-S	38.01	38.01	0.00	-118.89	-6100.54	51.312 (2)
16-18-S	38.01	38.01	3.83	-29.64	6100.54	100.000 (1)
16-19-S	38.01	38.01	14.53	-11.33	6100.54	100.000 (1)
16-20-S	38.01	38.01	31.04	-7.98	6100.54	100.000 (1)
16-21-S	38.01	38.01	29.88	-3.96	6100.54	100.000 (1)
16-22-S	38.01	38.01	24.01	-2.74	6100.54	100.000 (1)
16-23-S	38.01	38.01	14.85	-2.79	6100.54	100.000 (1)
17-1-S	38.01	38.01	38.86	-8.77	6100.54	100.000 (1)
17-2-S	38.01	38.01	100.03	-35.08	6100.54	49.372 (2)
17-3-S	38.01	38.01	30.25	-61.77	-6100.54	98.768 (2)
17-4-S	38.01	38.01	6.88	-312.16	-6100.54	19.543 (2)
17-5-S	38.01	38.01	5.52	-262.37	-6100.54	23.252 (2)
17-6-S	38.01	38.01	23.13	-83.32	-6100.54	58.576 (2)
17-7-S	38.01	38.01	237.84	0.00	6100.54	25.649 (2)
17-8-S	38.01	38.01	0.00	-937.15	-6100.54	6.510 (2)
17-9-S	38.01	38.01	0.00	-809.71	-6100.54	7.534 (2)
17-10-S	38.01	38.01	0.00	-1048.70	-6100.54	5.817 (2)
17-11-S	38.01	38.01	0.00	-1016.87	-6100.54	5.999 (2)
17-12-S	38.01	38.01	0.00	-915.22	-6100.54	6.666 (2)
17-13-S	38.01	38.01	0.00	-698.70	-6100.54	8.731 (2)
17-14-S	38.01	38.01	0.00	-509.72	-6100.54	11.968 (2)
17-15-S	38.01	38.01	0.00	-332.36	-6100.54	18.355 (2)
17-16-S	38.01	38.01	0.00	-167.63	-6100.54	36.393 (2)
17-17-S	38.01	38.01	24.20	-18.97	6100.54	100.000 (1)
17-18-S	38.01	38.01	182.16	-5.58	6100.54	33.491 (2)
17-19-S	38.01	38.01	189.67	-9.88	6100.54	32.163 (2)
17-20-S	38.01	38.01	136.98	-14.91	6100.54	44.537 (2)
17-21-S	38.01	38.01	37.87	-79.15	-6100.54	77.080 (2)
17-22-S	38.01	38.01	20.35	-96.51	-6100.54	63.209 (2)
17-23-S	38.01	38.01	7.69	-27.20	6100.54	100.000 (1)
18-1-S	38.01	38.01	1.78	-23.56	6100.54	100.000 (1)
18-2-S	38.01	38.01	2.78	-26.51	6100.54	100.000 (1)
18-3-S	38.01	38.01	3.23	-18.51	6100.54	100.000 (1)
18-4-S	38.01	38.01	14.46	-5.67	6100.54	100.000 (1)
18-5-S	38.01	38.01	71.42	0.00	6100.54	85.417 (2)
18-6-S	38.01	38.01	174.95	0.00	6100.54	34.870 (2)
18-7-S	38.01	38.01	306.80	0.00	6100.54	19.884 (2)
18-8-S	38.01	38.01	0.00	-1319.43	-6100.54	4.624 (2)
18-9-S	38.01	38.01	0.00	-1154.10	-6100.54	5.286 (2)
18-10-S	38.01	38.01	0.00	-1019.84	-6100.54	5.982 (2)
18-11-S	38.01	38.01	0.00	-884.13	-6100.54	6.900 (2)
18-12-S	38.01	38.01	0.00	-746.50	-6100.54	8.172 (2)
18-13-S	38.01	38.01	0.00	-605.40	-6100.54	10.077 (2)
18-14-S	38.01	38.01	0.00	-469.68	-6100.54	12.989 (2)
18-15-S	38.01	38.01	0.00	-337.93	-6100.54	18.053 (2)
18-16-S	38.01	38.01	0.00	-222.50	-6100.54	27.418 (2)
18-17-S	38.01	38.01	0.01	-121.58	-6100.54	50.175 (2)
18-18-S	38.01	38.01	2.03	-28.04	6100.54	100.000 (1)
18-19-S	38.01	38.01	6.49	-4.51	6100.54	100.000 (1)
18-20-S	38.01	38.01	22.05	-1.70	6100.54	100.000 (1)
18-21-S	38.01	38.01	23.37	-1.57	6100.54	100.000 (1)
18-22-S	38.01	38.01	20.37	-1.63	6100.54	100.000 (1)
18-23-S	38.01	38.01	14.26	-1.34	6100.54	100.000 (1)
19-1-S	38.01	38.01	32.03	-13.26	6100.54	100.000 (1)
19-2-S	38.01	38.01	92.58	-42.16	6100.54	50.204 (2)
19-3-S	38.01	38.01	16.91	-42.55	6100.54	100.000 (1)
19-4-S	38.01	38.01	9.68	-278.30	-6100.54	21.921 (2)
19-5-S	38.01	38.01	12.75	-230.60	-6100.54	21.164 (2)
19-6-S	38.01	38.01	53.90	-85.69	-6100.54	42.717 (2)
19-7-S	38.01	38.01	248.84	0.00	6100.54	24.516 (2)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

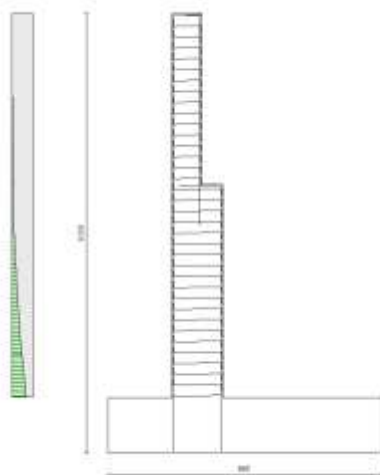
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	44 di 123

Is	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	Mu [kNm]	FS
19-8-S	38.01	38.01	0.00	-965.10	-6100.54	6.321 (2)
19-9-S	38.01	38.01	0.00	-820.66	-6100.54	7.434 (2)
19-10-S	38.01	38.01	0.00	-1018.40	-6100.54	5.990 (2)
19-11-S	38.01	38.01	0.00	-977.33	-6100.54	6.242 (2)
19-12-S	38.01	38.01	0.00	-874.68	-6100.54	6.975 (2)
19-13-S	38.01	38.01	0.00	-670.83	-6100.54	9.094 (2)
19-14-S	38.01	38.01	0.00	-492.30	-6100.54	12.392 (2)
19-15-S	38.01	38.01	0.00	-324.66	-6100.54	18.790 (2)
19-16-S	38.01	38.01	0.01	-169.47	-6100.54	35.998 (2)
19-17-S	38.01	38.01	33.52	-44.09	-6100.54	83.017 (2)
19-18-S	38.01	38.01	163.07	-10.95	6100.54	37.411 (2)
19-19-S	38.01	38.01	169.47	-10.04	6100.54	35.998 (2)
19-20-S	38.01	38.01	123.84	-12.25	6100.54	49.263 (2)
19-21-S	38.01	38.01	41.17	-73.52	-6100.54	82.975 (2)
19-22-S	38.01	38.01	26.82	-88.97	-6100.54	54.855 (2)
19-23-S	38.01	38.01	10.12	-23.72	6100.54	100.000 (1)
20-1-S	38.01	38.01	4.59	-19.61	6100.54	100.000 (1)
20-2-S	38.01	38.01	1.07	-33.26	6100.54	100.000 (1)
20-3-S	38.01	38.01	0.77	-66.28	-6100.54	92.046 (2)
20-4-S	38.01	38.01	6.88	-85.33	-6100.54	57.197 (2)
20-5-S	38.01	38.01	31.01	-27.52	6100.54	100.000 (1)
20-6-S	38.01	38.01	105.25	-4.07	6100.54	46.370 (2)
20-7-S	38.01	38.01	271.42	0.00	6100.54	22.476 (2)
20-8-S	38.01	38.01	0.00	-1148.69	-6100.54	5.311 (2)
20-9-S	38.01	38.01	0.00	-1027.49	-6100.54	5.937 (2)
20-10-S	38.01	38.01	0.00	-961.52	-6100.54	6.345 (2)
20-11-S	38.01	38.01	0.00	-855.74	-6100.54	7.129 (2)
20-12-S	38.01	38.01	0.00	-738.80	-6100.54	8.257 (2)
20-13-S	38.01	38.01	0.00	-603.39	-6100.54	10.111 (2)
20-14-S	38.01	38.01	0.00	-465.35	-6100.54	13.110 (2)
20-15-S	38.01	38.01	0.00	-327.85	-6100.54	18.608 (2)
20-16-S	38.01	38.01	0.11	-202.87	-6100.54	30.071 (2)
20-17-S	38.01	38.01	2.87	-95.87	-6100.54	63.631 (2)
20-18-S	38.01	38.01	20.54	-25.97	6100.54	100.000 (1)
20-19-S	38.01	38.01	32.28	-16.40	6100.54	100.000 (1)
20-20-S	38.01	38.01	73.91	-12.70	6100.54	82.539 (2)
20-21-S	38.01	38.01	29.72	-10.45	6100.54	100.000 (1)
20-22-S	38.01	38.01	22.60	-7.81	6100.54	100.000 (1)
20-23-S	38.01	38.01	16.52	-4.72	6100.54	100.000 (1)

Pali in c.a.

Ip	Is	Ar [cmq]	M [kNm]	N [kN]	Mu [kNm]	Nu [kN]	FS
1	1	108.57	723.09	-610.62	1703.80	-1438.78	2.356
2	1	108.57	723.09	735.58	1519.48	1545.71	2.101
3	1	108.57	723.09	2081.77	1375.16	3959.08	1.902



APPALTATORE: TELESE S.c.a r.l. <i>Consorzio Telese Società Consortile a Responsabilità Limitata</i>	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO					
PROGETTAZIONE: <u>Mandatario:</u> SYSTRA S.A. <u>Mandante:</u> SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	45 di 123

Fig. 13 - Paramento (Inviluppo)

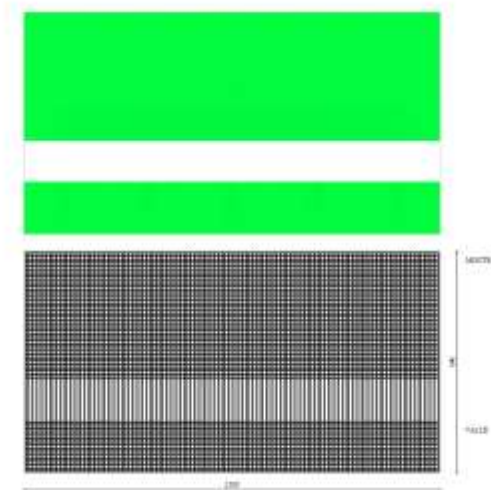


Fig. 14 - Piastra fondazione dir. X (Inviluppo)

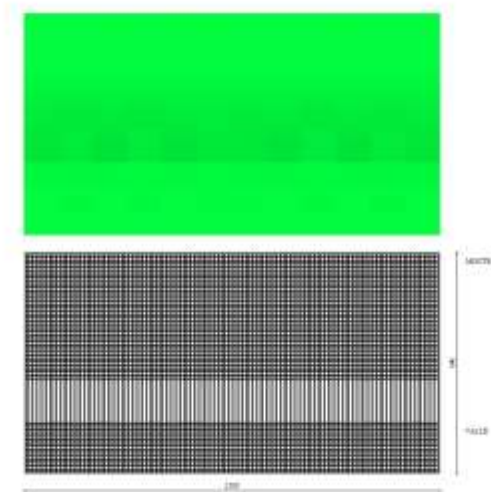


Fig. 15 - Piastra fondazione dir. Y (Inviluppo)

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO												
PROGETTAZIONE: <u>Mandatario:</u> SYSTRA S.A. <u>Mandante:</u> SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.													
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	<table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF2R</td> <td>2.2.E.ZZ</td> <td>CL</td> <td>TR.16.0.5.003</td> <td>A</td> <td>46 di 123</td> </tr> </tbody> </table>	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	46 di 123
COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO								
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	46 di 123								

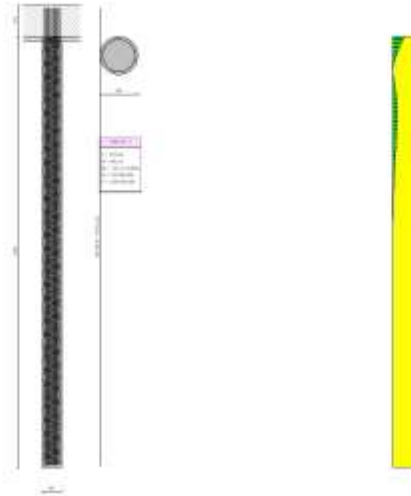


Fig. 16 - Pali (Palo n° 1) (Inviluppo)

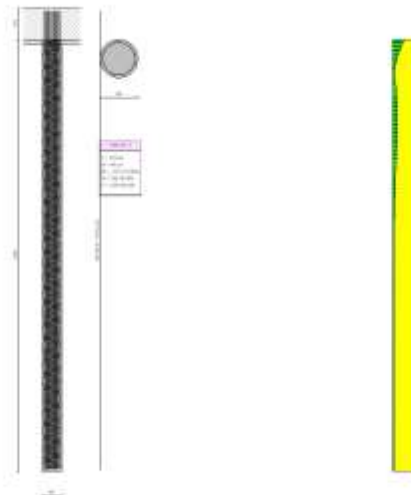


Fig. 17 - Pali (Palo n° 2) (Inviluppo)

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO					
PROGETTAZIONE: <u>Mandatario:</u> SYSTRA S.A. <u>Mandante:</u> SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.	PROGETTO ESECUTIVO					
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	COMMESSA IF2R	LOTTO 2.2.E.ZZ	CODIFICA CL	DOCUMENTO TR.16.0.5.003	REV. A	FOGLIO 47 di 123

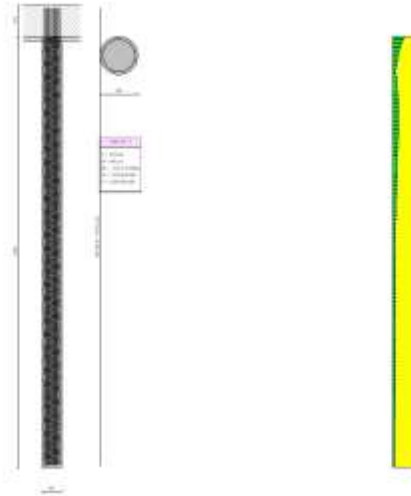


Fig. 18 - Pali (Palo n° 3) (Inviluppo)

Verifiche a taglio

Simbologia adottata

Is	indice sezione
Y	ordinata sezione espressa in [m]
B	larghezza sezione espressa in [cm]
H	altezza sezione espressa in [cm]
A _{sw}	area ferri a taglio espresso in [cmq]
cotgθ	inclinazione delle bielle compresse, θ inclinazione dei puntoni di calcestruzzo
V _{Rcd}	resistenza di progetto a 'taglio compressione' espressa in [kN]
V _{Rsd}	resistenza di progetto a 'taglio trazione' espressa in [kN]
V _{Rd}	resistenza di progetto a taglio espresso in [kN]. Per elementi con armature trasversali resistenti al taglio (A _{sw} >0.0) V _{Rd} =min(V _{Rcd} , V _{Rsd}).
T	taglio agente espressa in [kN]
FS	fattore di sicurezza (rapporto tra sollecitazione resistente e sollecitazione agente)

Paramento

n°	B [cm]	H [cm]	A _{sw} [cmq]	cotθ	V _{Rcd} [kN]	V _{Rsd} [kN]	V _{Rd} [kN]	T [kN]	FS
1	100	70	0.00	--	0.00	0.00	356.22	10.15	35.096
2	100	70	0.00	--	0.00	0.00	356.46	10.15	35.119
3	100	70	0.00	--	0.00	0.00	356.71	10.15	35.143
4	100	70	0.00	--	0.00	0.00	356.95	10.15	35.167
5	100	70	0.00	--	0.00	0.00	356.98	10.35	34.498
6	100	70	0.00	--	0.00	0.00	357.22	10.76	33.200
7	100	70	0.00	--	0.00	0.00	357.46	11.17	31.998
8	100	70	0.00	--	0.00	0.00	357.71	11.58	30.881
9	100	70	0.00	--	0.00	0.00	357.95	12.00	29.841
10	100	70	0.00	--	0.00	0.00	358.19	12.41	28.870
11	100	70	0.00	--	0.00	0.00	358.43	12.82	27.962
12	100	70	0.00	--	0.00	0.00	358.68	13.23	27.109
13	100	70	0.00	--	0.00	0.00	358.92	13.64	26.309
14	100	70	0.00	--	0.00	0.00	359.16	14.05	25.555
15	100	70	0.00	--	0.00	0.00	359.40	14.47	24.844
16	100	70	0.00	--	0.00	0.00	359.65	14.88	24.173
17	100	70	0.00	--	0.00	0.00	359.89	15.29	23.538
18	100	70	0.00	--	0.00	0.00	360.13	15.70	22.936
19	100	70	0.00	--	0.00	0.00	360.38	16.11	22.365
20	100	70	0.00	--	0.00	0.00	360.62	16.53	21.822
21	100	70	0.00	--	0.00	0.00	360.86	16.94	21.306
22	100	70	0.00	--	0.00	0.00	361.10	17.35	20.814
23	100	70	0.00	--	0.00	0.00	361.35	17.76	20.345
24	100	70	0.00	--	0.00	0.00	361.59	18.17	19.897
25	100	70	0.00	--	0.00	0.00	361.83	18.58	19.469
26	100	70	0.00	--	0.00	0.00	362.07	19.00	19.060
27	100	70	0.00	--	0.00	0.00	362.32	19.41	18.668
28	100	70	0.00	--	0.00	0.00	362.56	19.82	18.292

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandatario:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	48 di 123

n°	B [cm]	H [cm]	A _{sw} [cmq]	cotθ	V _{Rcd} [kN]	V _{Rsd} [kN]	V _{Rd} [kN]	T [kN]	FS
29	100	70	0.00	--	0.00	0.00	362.80	20.23	17.932
30	100	70	0.00	--	0.00	0.00	363.04	20.64	17.586
31	100	70	0.00	--	0.00	0.00	363.29	21.06	17.253
32	100	70	0.00	--	0.00	0.00	363.53	24.29	14.968
33	100	70	0.00	--	0.00	0.00	363.77	27.59	13.186
34	100	70	0.00	--	0.00	0.00	364.02	30.93	11.767
35	100	70	0.00	--	0.00	0.00	364.26	34.33	10.611
36	100	70	0.00	--	0.00	0.00	364.50	37.77	9.650
37	100	70	0.00	--	0.00	0.00	364.74	41.26	8.840
38	100	70	0.00	--	0.00	0.00	364.99	44.80	8.148
39	100	70	0.00	--	0.00	0.00	365.23	48.38	7.549
40	100	70	0.00	--	0.00	0.00	365.47	52.01	7.026
41	100	70	0.00	--	0.00	0.00	365.71	55.69	6.567
42	100	120	0.00	--	0.00	0.00	484.85	58.92	8.229
43	100	120	0.00	--	0.00	0.00	485.28	69.40	6.992
44	100	120	0.00	--	0.00	0.00	485.71	77.96	6.230
45	100	120	0.00	--	0.00	0.00	486.13	84.63	5.745
46	100	120	0.00	--	0.00	0.00	486.56	89.41	5.442
47	100	120	0.00	--	0.00	0.00	486.99	93.32	5.218
48	100	120	0.00	--	0.00	0.00	487.41	97.33	5.008
49	100	120	0.00	--	0.00	0.00	487.84	101.43	4.810
50	100	120	0.00	--	0.00	0.00	488.26	105.61	4.623
51	100	120	0.00	--	0.00	0.00	488.69	109.85	4.449
52	100	120	0.00	--	0.00	0.00	489.12	114.17	4.284
53	100	120	0.00	--	0.00	0.00	489.54	118.55	4.130
54	100	120	0.00	--	0.00	0.00	489.97	122.99	3.984
55	100	120	0.00	--	0.00	0.00	490.40	127.48	3.847
56	100	120	0.00	--	0.00	0.00	490.82	132.04	3.717
57	100	120	0.00	--	0.00	0.00	491.25	136.65	3.595
58	100	120	0.00	--	0.00	0.00	491.68	141.31	3.479
59	100	120	0.00	--	0.00	0.00	492.10	146.03	3.370
60	100	120	0.00	--	0.00	0.00	492.53	150.81	3.266
61	100	120	0.00	--	0.00	0.00	492.96	155.63	3.167
62	100	120	0.00	--	0.00	0.00	493.38	160.51	3.074
63	100	120	0.00	--	0.00	0.00	493.81	165.44	2.985
64	100	120	0.00	--	0.00	0.00	494.23	170.41	2.900
65	100	120	0.00	--	0.00	0.00	494.66	175.44	2.819
66	100	120	0.00	--	0.00	0.00	495.09	180.52	2.743
67	100	120	0.00	--	0.00	0.00	495.51	185.65	2.669
68	100	120	0.00	--	0.00	0.00	495.94	190.83	2.599
69	100	120	0.00	--	0.00	0.00	496.37	196.06	2.532
70	100	120	0.00	--	0.00	0.00	496.79	201.34	2.467
71	100	120	0.00	--	0.00	0.00	497.22	206.67	2.406
72	100	120	0.00	--	0.00	0.00	497.65	212.04	2.347
73	100	120	0.00	--	0.00	0.00	498.07	217.47	2.290
74	100	120	0.00	--	0.00	0.00	498.50	222.94	2.236
75	100	120	0.00	--	0.00	0.00	498.92	228.46	2.184
76	100	120	0.00	--	0.00	0.00	499.35	234.04	2.134
77	100	120	0.00	--	0.00	0.00	499.78	239.65	2.085
78	100	120	0.00	--	0.00	0.00	500.20	245.32	2.039
79	100	120	0.00	--	0.00	0.00	500.63	251.04	1.994
80	100	120	0.00	--	0.00	0.00	501.06	256.80	1.951
81	100	120	0.00	--	0.00	0.00	501.48	262.62	1.910
82	100	120	0.00	--	0.00	0.00	501.91	268.48	1.869
83	100	120	0.00	--	0.00	0.00	501.92	268.60	1.869
84	100	120	0.00	--	0.00	0.00	502.34	274.51	1.830
85	100	120	0.00	--	0.00	0.00	502.77	280.46	1.793
86	100	120	0.00	--	0.00	0.00	503.20	286.46	1.757
87	100	120	0.00	--	0.00	0.00	503.62	292.52	1.722
88	100	120	0.00	--	0.00	0.00	504.05	298.63	1.688
89	100	120	0.00	--	0.00	0.00	504.47	304.82	1.655
90	100	120	0.00	--	0.00	0.00	504.90	311.13	1.623
91	100	120	0.00	--	0.00	0.00	505.33	317.60	1.591
92	100	120	0.00	--	0.00	0.00	505.75	324.24	1.560
93	100	120	0.00	--	0.00	0.00	506.18	331.05	1.529

Fondazione

Is	B [cm]	H [cm]	A _{sw} [cmq]	cotg (θ)	V _{Rcd} [kN]	V _{Rsd} [kN]	V _{Rd} [kN]	T [kN]	FS
1-1-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-2-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-3-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-4-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-5-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-6-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-7-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-8-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-9-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)

APPALTATORE: **TELESE S.c.a r.l.**
Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:
Mandatario: _____ Mandante: _____
SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

Relazione di calcolo
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	49 di 123

Is	B [cm]	H [cm]	A _{sw} [cmq]	cotg (θ)	V _{Rcd} [kN]	V _{Rsd} [kN]	V _{Rd} [kN]	T [kN]	FS
1-10-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-11-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-12-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-13-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-14-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-15-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-16-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-17-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-18-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-19-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-20-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-21-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-22-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-23-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-24-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-25-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-26-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-27-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-28-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-29-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-30-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-31-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-32-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-33-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-34-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-35-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-36-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-37-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-38-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-39-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-40-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-41-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-42-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-43-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-44-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-45-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-46-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-47-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-48-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
1-49-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-1-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-2-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-3-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-4-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-5-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-6-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-7-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-8-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-9-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-10-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-11-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-12-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-13-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-14-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-15-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-16-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-17-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-18-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-19-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-20-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-21-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-22-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-23-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-24-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-25-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-26-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-27-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-28-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-29-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-30-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-31-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-32-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-33-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-34-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-35-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-36-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-37-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-38-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-39-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-40-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-41-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)

APPALTATORE:



ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	50 di 123

Is	B [cm]	H [cm]	Asw [cmq]	cotg (θ)	V _{Rcd} [kN]	V _{Rsd} [kN]	V _{Rd} [kN]	T [kN]	FS
2-42-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-43-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-44-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-45-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-46-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-47-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-48-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
2-49-P	75	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-1-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-2-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-3-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-4-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-5-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-6-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-7-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-8-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-9-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-10-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-11-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-12-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-13-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-14-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-15-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-16-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-17-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-18-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-19-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-20-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-21-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-22-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-23-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-24-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-25-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-26-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-27-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-28-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-29-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-30-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-31-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-32-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-33-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-34-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-35-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-36-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-37-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-38-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-39-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-40-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-41-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-42-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-43-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-44-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-45-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-46-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-47-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-48-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
5-49-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-1-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-2-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-3-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-4-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-5-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-6-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-7-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-8-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-9-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-10-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-11-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-12-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-13-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-14-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-15-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-16-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-17-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-18-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-19-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-20-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-21-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-22-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-23-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-24-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)

APPALTATORE: **TELESE S.c.a r.l.**
Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:
Mandatario: _____ Mandante: _____

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

Relazione di calcolo
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	51 di 123

Is	B [cm]	H [cm]	Asw [cmq]	cotg (θ)	V _{Rcd} [kN]	V _{Rsd} [kN]	V _{Rd} [kN]	T [kN]	FS
6-25-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-26-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-27-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-28-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-29-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-30-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-31-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-32-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-33-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-34-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-35-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-36-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-37-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-38-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-39-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-40-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-41-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-42-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-43-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-44-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-45-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-46-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-47-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-48-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
6-49-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-1-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-2-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-3-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-4-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-5-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-6-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-7-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-8-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-9-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-10-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-11-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-12-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-13-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-14-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-15-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-16-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-17-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-18-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-19-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-20-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-21-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-22-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-23-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-24-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-25-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-26-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-27-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-28-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-29-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-30-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-31-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-32-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-33-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-34-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-35-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-36-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-37-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-38-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-39-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-40-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-41-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-42-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-43-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-44-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-45-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-46-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-47-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-48-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
7-49-P	93	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-1-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-2-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-3-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-4-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-5-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-6-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-7-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	52 di 123

Is	B [cm]	H [cm]	A _{sw} [cmq]	cotg (θ)	V _{Rcd} [kN]	V _{Rsd} [kN]	V _{Rd} [kN]	T [kN]	FS
8-8-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-9-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-10-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-11-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-12-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-13-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-14-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-15-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-16-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-17-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-18-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-19-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-20-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-21-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-22-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-23-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-24-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-25-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-26-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-27-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-28-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-29-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-30-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-31-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-32-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-33-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-34-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-35-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-36-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-37-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-38-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-39-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-40-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-41-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-42-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-43-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-44-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-45-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-46-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-47-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-48-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
8-49-P	92	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-1-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-2-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-3-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-4-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-5-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-6-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-7-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-8-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-9-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-10-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-11-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-12-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-13-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-14-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-15-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-16-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-17-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-18-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-19-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-20-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-21-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-22-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
9-23-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-1-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-2-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-3-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-4-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-5-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-6-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-7-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-8-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-9-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-10-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-11-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-12-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-13-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-14-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-15-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-16-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	53 di 123

Is	B [cm]	H [cm]	Asw [cmq]	cotg (θ)	V _{Rcd} [kN]	V _{Rsd} [kN]	V _{Rd} [kN]	T [kN]	FS
10-17-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-18-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-19-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-20-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-21-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-22-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
10-23-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-1-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-2-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-3-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-4-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-5-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-6-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-7-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-8-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-9-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-10-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-11-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-12-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-13-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-14-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-15-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-16-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-17-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-18-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-19-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-20-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-21-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-22-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
11-23-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-1-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-2-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-3-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-4-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-5-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-6-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-7-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-8-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-9-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-10-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-11-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-12-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-13-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-14-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-15-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-16-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-17-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-18-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-19-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-20-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-21-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-22-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
12-23-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-1-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-2-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-3-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-4-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-5-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-6-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-7-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-8-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-9-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-10-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-11-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-12-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-13-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-14-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-15-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-16-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-17-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-18-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-19-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-20-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-21-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-22-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
13-23-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-1-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-2-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-3-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-4-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-5-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria: Mandante:

SYSTRA S.A. **SWS Engineering S.p.A.** **SYSTRA-SOTECNI S.p.A.**

Relazione di calcolo
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	54 di 123

Is	B [cm]	H [cm]	A _{sw} [cmq]	cotg (θ)	V _{Rcd} [kN]	V _{Rsd} [kN]	V _{Rd} [kN]	T [kN]	FS
14-6-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-7-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-8-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-9-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-10-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-11-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-12-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-13-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-14-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-15-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-16-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-17-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-18-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-19-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-20-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-21-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-22-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
14-23-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-1-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-2-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-3-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-4-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-5-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-6-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-7-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-8-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-9-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-10-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-11-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-12-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-13-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-14-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-15-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-16-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-17-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-18-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-19-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-20-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-21-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-22-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
15-23-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-1-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-2-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-3-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-4-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-5-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-6-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-7-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-8-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-9-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-10-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-11-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-12-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-13-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-14-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-15-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-16-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-17-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-18-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-19-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-20-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-21-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-22-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
16-23-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-1-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-2-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-3-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-4-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-5-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-6-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-7-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-8-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-9-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-10-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-11-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-12-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-13-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-14-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-15-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-16-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-17-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	55 di 123

Is	B [cm]	H [cm]	A _{sw} [cmq]	cotg (θ)	V _{Rcd} [kN]	V _{Rsd} [kN]	V _{Rd} [kN]	T [kN]	FS
17-18-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-19-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-20-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-21-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-22-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
17-23-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-1-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-2-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-3-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-4-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-5-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-6-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-7-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-8-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-9-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-10-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-11-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-12-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-13-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-14-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-15-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-16-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-17-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-18-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-19-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-20-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-21-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-22-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
18-23-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-1-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-2-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-3-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-4-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-5-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-6-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-7-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-8-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-9-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-10-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-11-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-12-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-13-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-14-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-15-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-16-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-17-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-18-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-19-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-20-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-21-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-22-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
19-23-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-1-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-2-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-3-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-4-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-5-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-6-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-7-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-8-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-9-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-10-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-11-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-12-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-13-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-14-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-15-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-16-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-17-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-18-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-19-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-20-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-21-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-22-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)
20-23-S	100	130	0.00	0.000	0.00	0.00	0.00	0.00	100.000 (1)

Pali in c.a.

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO					
PROGETTAZIONE: Mandataria: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	56 di 123

La verifica a taglio sui pali circolari in c.a. viene eseguita considerando una sezione quadrata inscritta nella circonferenza. Se D è il diametro del palo, il lato della sezione quadrata sulla quale si esegue la verifica è $L = 2^{0.5}/2 D$.

Ip	Is	L [cm]	A _{sw} [cmq]	s [cm]	cotgθ	V _{Rcd} [kN]	V _{Rsd} [kN]	V _{Rd} [kN]	T [kN]	FS
1	1	56.57	1.57	15	2.500	626.74	3511.48	626.74	490.02	1.279
2	1	56.57	1.57	15	2.500	728.78	3511.48	728.78	490.02	1.487
3	1	56.57	1.57	15	2.500	783.43	3511.48	783.43	490.02	1.599

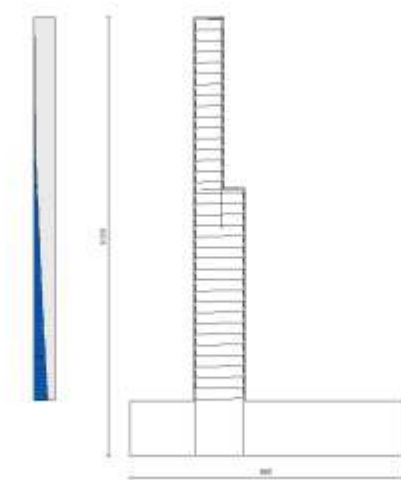


Fig. 19 - Paramento (Inviluppo)

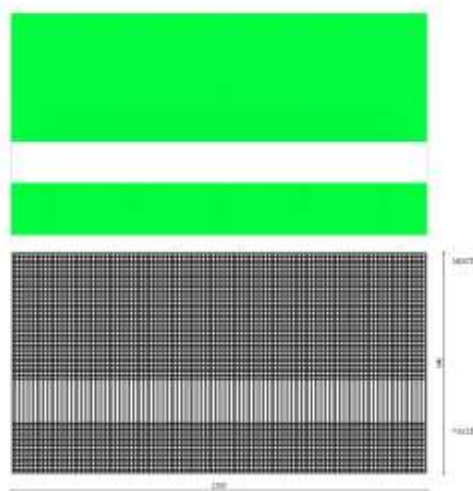


Fig. 20 - Piastra fondazione dir. X (Inviluppo)

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO												
PROGETTAZIONE: <u>Mandatario:</u> SYSTRA S.A. <u>Mandante:</u> SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.													
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	<table border="1"> <thead> <tr> <th>COMMESSA</th> <th>LOTTO</th> <th>CODIFICA</th> <th>DOCUMENTO</th> <th>REV.</th> <th>FOGLIO</th> </tr> </thead> <tbody> <tr> <td>IF2R</td> <td>2.2.E.ZZ</td> <td>CL</td> <td>TR.16.0.5.003</td> <td>A</td> <td>57 di 123</td> </tr> </tbody> </table>	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	57 di 123
COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO								
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	57 di 123								

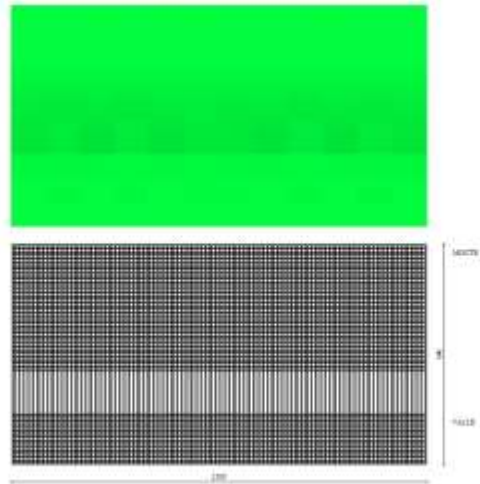


Fig. 21 - Piastra fondazione dir. Y (Inviluppo)

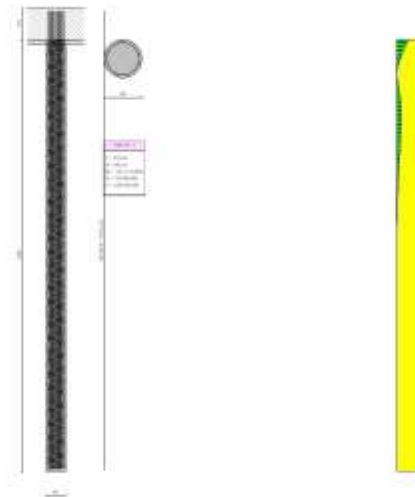


Fig. 22 - Pali (Palo n° 1) (Inviluppo)

APPALTATORE: TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO					
PROGETTAZIONE: <u>Mandatario:</u> SYSTRA S.A. <u>Mandante:</u> SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	58 di 123

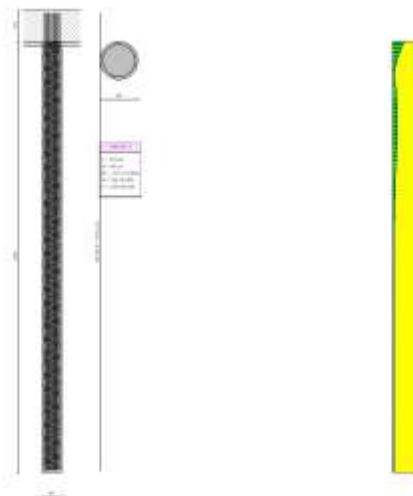


Fig. 23 - Pali (Palo n° 2) (Inviluppo)

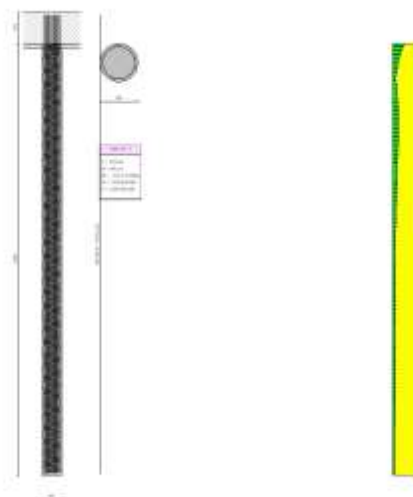


Fig. 24 - Pali (Palo n° 3) (Inviluppo)

Verifica delle tensioni

Simbologia adottata

n°	indice sezione
Y	ordinata sezione, espressa in [m]
B	larghezza sezione, espressa in [cm]
H	altezza sezione, espressa in [cm]
Afi	area ferri inferiori, espresso in [cmq]
Afs	area ferri superiori, espressa in [cmq]
M	momento agente, espressa in [kNm]
N	sforzo normale agente, espressa in [kN]
σ_c	tensione di compressione nel cls, espressa in [kPa]
σ_{fi}	tensione nei ferri inferiori, espressa in [kPa]
σ_{fs}	tensione nei ferri superiori, espressa in [kPa]

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	59 di 123

Combinazioni SLERParamento

Tensione massima di compressione nel calcestruzzo
Tensione massima di trazione dell'acciaio

19920
360000

[kPa]
[kPa]

n°	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	M [kNm]	N [kN]	σc [kPa]	σfi [kPa]	σfs [kPa]
1	100	70	15.71	31.42	2.00	5.00	34 (5)	460 (5)	433 (5)
2	100	70	15.71	31.42	2.70	6.72	46 (5)	624 (5)	584 (5)
3	100	70	15.71	31.42	3.40	8.43	57 (5)	788 (5)	735 (5)
4	100	70	15.71	31.42	4.10	10.15	69 (5)	953 (5)	886 (5)
5	100	70	15.71	31.42	4.80	11.86	81 (5)	1117 (5)	1037 (5)
6	100	70	15.71	31.42	5.50	13.58	93 (5)	1281 (5)	1188 (5)
7	100	70	15.71	31.42	6.20	15.29	105 (5)	1446 (5)	1339 (5)
8	100	70	15.71	31.42	6.90	17.01	117 (5)	1610 (5)	1490 (5)
9	100	70	15.71	31.42	7.60	18.73	128 (5)	1774 (5)	1641 (5)
10	100	70	15.71	31.42	8.30	20.44	140 (5)	1939 (5)	1792 (5)
11	100	70	15.71	31.42	9.00	22.16	152 (5)	2103 (5)	1944 (5)
12	100	70	15.71	31.42	9.70	23.87	164 (5)	2267 (5)	2095 (5)
13	100	70	15.71	31.42	10.40	25.59	176 (5)	2431 (5)	2246 (5)
14	100	70	15.71	31.42	11.10	27.30	188 (5)	2596 (5)	2397 (5)
15	100	70	15.71	31.42	11.80	29.02	199 (5)	2760 (5)	2548 (5)
16	100	70	15.71	31.42	12.50	30.74	211 (5)	2924 (5)	2699 (5)
17	100	70	15.71	31.42	13.20	32.45	223 (5)	3089 (5)	2850 (5)
18	100	70	15.71	31.42	13.90	34.17	235 (5)	3253 (5)	3001 (5)
19	100	70	15.71	31.42	14.60	35.88	247 (5)	3417 (5)	3152 (5)
20	100	70	15.71	31.42	15.30	37.60	258 (5)	3582 (5)	3303 (5)
21	100	70	15.71	31.42	16.00	39.32	270 (5)	3746 (5)	3454 (5)
22	100	70	15.71	31.42	16.70	41.03	282 (5)	3910 (5)	3605 (5)
23	100	70	15.71	31.42	17.40	42.75	294 (5)	4074 (5)	3756 (5)
24	100	70	15.71	31.42	18.10	44.46	306 (5)	4239 (5)	3907 (5)
25	100	70	15.71	31.42	18.80	46.18	318 (5)	4403 (5)	4059 (5)
26	100	70	15.71	31.42	19.50	47.89	329 (5)	4567 (5)	4210 (5)
27	100	70	15.71	31.42	20.20	49.61	341 (5)	4732 (5)	4361 (5)
28	100	70	15.71	31.42	20.90	51.33	353 (5)	4896 (5)	4512 (5)
29	100	70	15.71	31.42	21.60	53.04	365 (5)	5060 (5)	4663 (5)
30	100	70	15.71	31.42	22.29	54.76	377 (5)	5225 (5)	4814 (5)
31	100	70	15.71	31.42	22.99	56.47	389 (5)	5389 (5)	4965 (5)
32	100	70	15.71	31.42	23.75	58.19	401 (5)	5577 (5)	5125 (5)
33	100	70	15.71	31.42	24.60	59.90	416 (5)	5817 (5)	5306 (5)
34	100	70	15.71	31.42	25.57	61.62	432 (5)	6111 (5)	5506 (5)
35	100	70	15.71	31.42	26.65	63.34	450 (5)	6460 (5)	5729 (5)
36	100	70	15.71	31.42	27.85	65.05	470 (5)	6870 (5)	5973 (5)
37	100	70	15.71	31.42	29.18	66.77	491 (5)	7341 (5)	6240 (5)
38	100	70	15.71	31.42	30.64	68.48	515 (5)	7878 (5)	6531 (5)
39	100	70	15.71	31.42	32.23	70.20	542 (5)	8483 (5)	6846 (5)
40	100	70	15.71	31.42	33.96	71.91	570 (5)	9160 (5)	7186 (5)
41	100	70	15.71	31.42	35.84	73.63	600 (5)	9912 (5)	7552 (5)
42	100	120	15.71	31.42	49.81	86.48	321 (5)	4613 (5)	4398 (5)
43	100	120	15.71	31.42	52.18	89.42	336 (5)	4931 (5)	4607 (5)
44	100	120	15.71	31.42	55.25	92.36	356 (5)	5419 (5)	4877 (5)
45	100	120	15.71	31.42	58.84	95.30	380 (5)	6038 (5)	5190 (5)
46	100	120	15.71	31.42	62.74	98.24	406 (5)	6745 (5)	5531 (5)
47	100	120	15.71	31.42	66.81	101.18	433 (5)	7503 (5)	5886 (5)
48	100	120	15.71	31.42	71.03	104.12	461 (5)	8307 (5)	6252 (5)
49	100	120	15.71	31.42	75.40	107.06	490 (5)	9158 (5)	6631 (5)
50	100	120	15.71	31.42	79.93	110.00	520 (5)	10059 (5)	7023 (5)
51	100	120	15.71	31.42	84.64	112.94	551 (5)	11013 (5)	7428 (5)
52	100	120	15.71	31.42	89.52	115.88	583 (5)	12020 (5)	7848 (5)
53	100	120	15.71	31.42	94.58	118.82	617 (5)	13083 (5)	8281 (5)
54	100	120	15.71	31.42	99.84	121.76	651 (5)	14204 (5)	8730 (5)
55	100	120	15.71	31.42	105.29	124.70	687 (5)	15384 (5)	9193 (5)
56	100	120	15.71	31.42	110.94	127.65	725 (5)	16625 (5)	9673 (5)
57	100	120	15.71	31.42	116.80	130.59	763 (5)	17929 (5)	10168 (5)
58	100	120	15.71	31.42	122.87	133.53	803 (5)	19297 (5)	10680 (5)
59	100	120	15.71	31.42	129.16	136.47	844 (5)	20731 (5)	11208 (5)
60	100	120	15.71	31.42	135.67	139.41	887 (5)	22233 (5)	11753 (5)
61	100	120	15.71	31.42	142.41	142.35	931 (5)	23803 (5)	12316 (5)
62	100	120	15.71	31.42	149.39	145.29	976 (5)	25444 (5)	12897 (5)
63	100	120	15.71	31.42	156.60	148.23	1023 (5)	27157 (5)	13496 (5)
64	100	120	15.71	31.42	164.06	151.17	1071 (5)	28943 (5)	14113 (5)
65	100	120	15.71	31.42	171.77	154.11	1121 (5)	30805 (5)	14749 (5)
66	100	120	15.71	31.42	179.73	157.05	1173 (5)	32743 (5)	15405 (5)
67	100	120	15.71	31.42	187.96	159.99	1226 (5)	34759 (5)	16080 (5)
68	100	120	15.71	31.42	196.44	162.93	1281 (5)	36855 (5)	16775 (5)
69	100	120	15.71	31.42	205.20	165.87	1337 (5)	39031 (5)	17490 (5)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	60 di 123

n°	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	M [kNm]	N [kN]	σc [kPa]	σfi [kPa]	σfs [kPa]
70	100	120	15.71	31.42	214.23	168.81	1395 (5)	41290 (5)	18225 (5)
71	100	120	15.71	31.42	223.54	171.75	1455 (5)	43633 (5)	18982 (5)
72	100	120	15.71	31.42	233.13	174.69	1517 (5)	46061 (5)	19760 (5)
73	100	120	15.71	31.42	243.01	177.63	1580 (5)	48576 (5)	20559 (5)
74	100	120	15.71	31.42	253.19	180.58	1645 (5)	51180 (5)	21381 (5)
75	100	120	15.71	31.42	263.66	183.52	1712 (5)	53872 (5)	22225 (5)
76	100	120	15.71	31.42	274.44	186.46	1781 (5)	56656 (5)	23091 (5)
77	100	120	15.71	31.42	285.52	189.40	1852 (5)	59533 (5)	23981 (5)
78	100	120	15.71	31.42	296.92	192.34	1924 (5)	62504 (5)	24894 (5)
79	100	120	15.71	31.42	308.64	195.28	1999 (5)	65570 (5)	25831 (5)
80	100	120	15.71	31.42	320.68	198.22	2076 (5)	68732 (5)	26792 (5)
81	100	120	15.71	31.42	333.05	201.16	2154 (5)	71995 (5)	27777 (5)
82	100	120	15.71	31.42	345.78	204.10	2235 (5)	75362 (5)	28789 (5)
83	100	120	15.71	31.42	346.04	204.16	2237 (5)	75431 (5)	28809 (5)
84	100	120	15.71	31.42	359.14	207.10	2320 (5)	78912 (5)	29850 (5)
85	100	120	15.71	31.42	372.66	210.04	2405 (5)	82517 (5)	30921 (5)
86	100	120	15.71	31.42	386.62	212.98	2493 (5)	86257 (5)	32026 (5)
87	100	120	15.71	31.42	401.06	215.92	2585 (5)	90137 (5)	33166 (5)
88	100	120	15.71	31.42	415.98	218.85	2679 (5)	94163 (5)	34342 (5)
89	100	120	15.71	31.42	431.40	221.79	2776 (5)	98336 (5)	35556 (5)
90	100	120	15.71	31.42	447.32	224.73	2876 (5)	102659 (5)	36807 (5)
91	100	120	15.71	31.42	463.74	227.67	2980 (5)	107133 (5)	38096 (5)
92	100	120	15.71	31.42	480.68	230.61	3086 (5)	111759 (5)	39422 (5)
93	100	120	15.71	31.42	498.13	233.55	3196 (5)	116541 (5)	40788 (5)

Piastra fondazione

Tensione massima di compressione nel calcestruzzo
Tensione massima di trazione dell'acciaio

17430 [kPa]
1255271 [kPa]

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	σc [kPa]	σfi [kPa]	σfs [kPa]
1-1-P	75	130	30.41	30.41	3.78	-1.12	17 (5)	822 (5)	420 (5)
1-2-P	75	130	30.41	30.41	2.58	-6.51	38 (5)	874 (5)	1894 (5)
1-3-P	75	130	30.41	30.41	0.65	-23.06	109 (5)	1408 (5)	5348 (5)
1-4-P	75	130	30.41	30.41	1.33	-60.04	278 (5)	3603 (5)	13689 (5)
1-5-P	75	130	30.41	30.41	0.30	-94.25	447 (5)	5787 (5)	21988 (5)
1-6-P	75	130	30.41	30.41	0.09	-113.39	541 (5)	7016 (5)	26656 (5)
1-7-P	75	130	30.41	30.41	0.37	-64.37	302 (5)	3908 (5)	14847 (5)
1-8-P	75	130	30.41	30.41	6.86	-22.79	102 (5)	2454 (5)	5033 (5)
1-9-P	75	130	30.41	30.41	33.15	-1.17	155 (5)	7629 (5)	2008 (5)
1-10-P	75	130	30.41	30.41	44.93	-0.05	213 (5)	10475 (5)	2757 (5)
1-11-P	75	130	30.41	30.41	49.05	-0.02	233 (5)	11454 (5)	3015 (5)
1-12-P	75	130	30.41	30.41	40.74	-0.65	192 (5)	9444 (5)	2486 (5)
1-13-P	75	130	30.41	30.41	14.53	-10.81	66 (5)	3238 (5)	2226 (5)
1-14-P	75	130	30.41	30.41	1.64	-40.94	186 (5)	2415 (5)	9175 (5)
1-15-P	75	130	30.41	30.41	0.25	-82.52	392 (5)	5085 (5)	19320 (5)
1-16-P	75	130	30.41	30.41	0.45	-73.11	346 (5)	4489 (5)	17054 (5)
1-17-P	75	130	30.41	30.41	6.87	-36.82	164 (5)	2359 (5)	8075 (5)
1-18-P	75	130	30.41	30.41	20.23	-6.10	94 (5)	4605 (5)	1212 (5)
1-19-P	75	130	30.41	30.41	45.07	-0.32	213 (5)	10483 (5)	2759 (5)
1-20-P	75	130	30.41	30.41	55.15	0.00	262 (5)	12897 (5)	3395 (5)
1-21-P	75	130	30.41	30.41	48.96	-0.10	232 (5)	11421 (5)	3006 (5)
1-22-P	75	130	30.41	30.41	33.52	-1.85	157 (5)	7747 (5)	2039 (5)
1-23-P	75	130	30.41	30.41	8.95	-21.36	94 (5)	3248 (5)	4605 (5)
1-24-P	75	130	30.41	30.41	1.15	-56.71	265 (5)	3436 (5)	13055 (5)
1-25-P	75	130	30.41	30.41	0.00	-99.39	475 (5)	6159 (5)	23401 (5)
1-26-P	75	130	30.41	30.41	1.15	-56.71	265 (5)	3436 (5)	13055 (5)
1-27-P	75	130	30.41	30.41	8.95	-21.36	94 (5)	3248 (5)	4605 (5)
1-28-P	75	130	30.41	30.41	33.52	-1.85	157 (5)	7747 (5)	2039 (5)
1-29-P	75	130	30.41	30.41	48.96	-0.10	232 (5)	11421 (5)	3006 (5)
1-30-P	75	130	30.41	30.41	55.15	0.00	262 (5)	12897 (5)	3395 (5)
1-31-P	75	130	30.41	30.41	45.07	-0.32	213 (5)	10483 (5)	2759 (5)
1-32-P	75	130	30.41	30.41	20.23	-6.10	94 (5)	4605 (5)	1212 (5)
1-33-P	75	130	30.41	30.41	6.87	-36.82	164 (5)	2359 (5)	8075 (5)
1-34-P	75	130	30.41	30.41	0.45	-73.11	346 (5)	4489 (5)	17054 (5)
1-35-P	75	130	30.41	30.41	0.25	-82.52	392 (5)	5085 (5)	19320 (5)
1-36-P	75	130	30.41	30.41	1.64	-40.94	186 (5)	2415 (5)	9175 (5)
1-37-P	75	130	30.41	30.41	14.53	-10.81	66 (5)	3238 (5)	2226 (5)
1-38-P	75	130	30.41	30.41	40.74	-0.65	192 (5)	9444 (5)	2486 (5)
1-39-P	75	130	30.41	30.41	49.05	-0.02	233 (5)	11454 (5)	3015 (5)
1-40-P	75	130	30.41	30.41	44.93	-0.05	213 (5)	10475 (5)	2757 (5)
1-41-P	75	130	30.41	30.41	33.15	-1.17	155 (5)	7629 (5)	2008 (5)
1-42-P	75	130	30.41	30.41	6.86	-22.79	102 (5)	2454 (5)	5033 (5)
1-43-P	75	130	30.41	30.41	0.37	-64.37	302 (5)	3908 (5)	14847 (5)
1-44-P	75	130	30.41	30.41	0.09	-113.39	541 (5)	7016 (5)	26656 (5)
1-45-P	75	130	30.41	30.41	0.30	-94.25	447 (5)	5787 (5)	21988 (5)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF2R

2.2.E.ZZ

CL

TR.16.0.5.003

A

61 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
1-46-P	75	130	30.41	30.41	1.33	-60.04	278 (5)	3603 (5)	13689 (5)
1-47-P	75	130	30.41	30.41	0.65	-23.06	109 (5)	1408 (5)	5348 (5)
1-48-P	75	130	30.41	30.41	2.58	-6.51	38 (5)	874 (5)	1894 (5)
1-49-P	75	130	30.41	30.41	3.78	-1.12	17 (5)	822 (5)	420 (5)
2-1-P	75	130	30.41	30.41	18.20	0.00	88 (5)	4335 (5)	1141 (5)
2-2-P	75	130	30.41	30.41	16.03	0.00	81 (5)	3984 (5)	1049 (5)
2-3-P	75	130	30.41	30.41	12.48	-1.52	64 (5)	3155 (5)	830 (5)
2-4-P	75	130	30.41	30.41	13.07	-11.51	68 (5)	3053 (5)	3327 (5)
2-5-P	75	130	30.41	30.41	5.08	-71.09	408 (5)	5287 (5)	20088 (5)
2-6-P	75	130	30.41	30.41	3.41	-117.18	674 (5)	8731 (5)	33170 (5)
2-7-P	75	130	30.41	30.41	6.16	-24.17	229 (8)	4299 (8)	11253 (8)
2-8-P	75	130	30.41	30.41	25.15	-2.41	125 (5)	6133 (5)	1614 (5)
2-9-P	75	130	30.41	30.41	41.26	0.00	208 (5)	10231 (5)	2693 (5)
2-10-P	75	130	30.41	30.41	47.97	0.00	238 (5)	11723 (5)	3086 (5)
2-11-P	75	130	30.41	30.41	50.00	0.00	247 (5)	12185 (5)	3207 (5)
2-12-P	75	130	30.41	30.41	45.02	0.00	225 (5)	11102 (5)	2922 (5)
2-13-P	75	130	30.41	30.41	31.81	-0.87	159 (5)	7851 (5)	2066 (5)
2-14-P	75	130	30.41	30.41	12.67	-11.93	77 (5)	3077 (5)	3813 (5)
2-15-P	75	130	30.41	30.41	4.49	-90.45	516 (5)	6682 (5)	25387 (5)
2-16-P	75	130	30.41	30.41	5.04	-73.65	418 (5)	5421 (5)	20595 (5)
2-17-P	75	130	30.41	30.41	24.44	-6.48	115 (5)	5650 (5)	1646 (5)
2-18-P	75	130	30.41	30.41	34.85	-0.31	175 (5)	8637 (5)	2273 (5)
2-19-P	75	130	30.41	30.41	46.69	0.00	233 (5)	11477 (5)	3021 (5)
2-20-P	75	130	30.41	30.41	52.21	0.00	258 (5)	12687 (5)	3339 (5)
2-21-P	75	130	30.41	30.41	48.80	0.00	242 (5)	11938 (5)	3142 (5)
2-22-P	75	130	30.41	30.41	40.96	0.00	206 (5)	10148 (5)	2671 (5)
2-23-P	75	130	30.41	30.41	26.94	-2.65	132 (5)	6523 (5)	1717 (5)
2-24-P	75	130	30.41	30.41	5.84	-31.82	301 (8)	4076 (8)	14814 (8)
2-25-P	75	130	30.41	30.41	3.18	-124.13	711 (5)	9216 (5)	35012 (5)
2-26-P	75	130	30.41	30.41	5.84	-31.82	301 (8)	4076 (8)	14814 (8)
2-27-P	75	130	30.41	30.41	26.94	-2.65	132 (5)	6523 (5)	1717 (5)
2-28-P	75	130	30.41	30.41	40.96	0.00	206 (5)	10148 (5)	2671 (5)
2-29-P	75	130	30.41	30.41	48.80	0.00	242 (5)	11938 (5)	3142 (5)
2-30-P	75	130	30.41	30.41	52.21	0.00	258 (5)	12687 (5)	3339 (5)
2-31-P	75	130	30.41	30.41	46.69	0.00	233 (5)	11477 (5)	3021 (5)
2-32-P	75	130	30.41	30.41	34.85	-0.31	175 (5)	8637 (5)	2273 (5)
2-33-P	75	130	30.41	30.41	24.44	-6.48	115 (5)	5650 (5)	1646 (5)
2-34-P	75	130	30.41	30.41	5.04	-73.65	418 (5)	5421 (5)	20595 (5)
2-35-P	75	130	30.41	30.41	4.49	-90.45	516 (5)	6682 (5)	25387 (5)
2-36-P	75	130	30.41	30.41	12.67	-11.93	77 (5)	3077 (5)	3813 (5)
2-37-P	75	130	30.41	30.41	31.81	-0.87	159 (5)	7851 (5)	2066 (5)
2-38-P	75	130	30.41	30.41	45.02	0.00	225 (5)	11102 (5)	2922 (5)
2-39-P	75	130	30.41	30.41	50.00	0.00	247 (5)	12185 (5)	3207 (5)
2-40-P	75	130	30.41	30.41	47.97	0.00	238 (5)	11723 (5)	3086 (5)
2-41-P	75	130	30.41	30.41	41.26	0.00	208 (5)	10231 (5)	2693 (5)
2-42-P	75	130	30.41	30.41	25.15	-2.41	125 (5)	6133 (5)	1614 (5)
2-43-P	75	130	30.41	30.41	6.16	-24.17	229 (8)	4299 (8)	11253 (8)
2-44-P	75	130	30.41	30.41	3.41	-117.18	674 (5)	8731 (5)	33170 (5)
2-45-P	75	130	30.41	30.41	5.08	-71.09	408 (5)	5287 (5)	20088 (5)
2-46-P	75	130	30.41	30.41	13.07	-11.51	68 (5)	3053 (5)	3327 (5)
2-47-P	75	130	30.41	30.41	12.48	-1.52	64 (5)	3155 (5)	830 (5)
2-48-P	75	130	30.41	30.41	16.03	0.00	81 (5)	3984 (5)	1049 (5)
2-49-P	75	130	30.41	30.41	18.20	0.00	88 (5)	4335 (5)	1141 (5)
5-1-P	92	130	38.01	38.01	0.00	-26.10	90 (5)	1164 (5)	4391 (5)
5-2-P	92	130	38.01	38.01	0.00	-37.18	128 (5)	1660 (5)	6262 (5)
5-3-P	92	130	38.01	38.01	0.00	-54.40	192 (5)	2493 (5)	9407 (5)
5-4-P	92	130	38.01	38.01	0.00	-80.85	293 (5)	3800 (5)	14338 (5)
5-5-P	92	130	38.01	38.01	0.00	-129.41	510 (5)	6613 (5)	24951 (5)
5-6-P	92	130	38.01	38.01	0.00	-164.29	665 (5)	8624 (5)	32538 (5)
5-7-P	92	130	38.01	38.01	0.00	-122.37	456 (5)	5920 (5)	22334 (5)
5-8-P	92	130	38.01	38.01	0.00	-99.27	343 (5)	4446 (5)	16775 (5)
5-9-P	92	130	38.01	38.01	0.00	-88.71	292 (5)	3794 (5)	14314 (5)
5-10-P	92	130	38.01	38.01	0.00	-89.25	291 (5)	3779 (5)	14260 (5)
5-11-P	92	130	38.01	38.01	0.00	-90.00	292 (5)	3792 (5)	14309 (5)
5-12-P	92	130	38.01	38.01	0.00	-91.08	297 (5)	3846 (5)	14511 (5)
5-13-P	92	130	38.01	38.01	0.00	-101.66	342 (5)	4438 (5)	16744 (5)
5-14-P	92	130	38.01	38.01	0.00	-121.27	431 (5)	5591 (5)	21094 (5)
5-15-P	92	130	38.01	38.01	0.00	-167.47	652 (5)	8451 (5)	31886 (5)
5-16-P	92	130	38.01	38.01	0.00	-158.30	607 (5)	7874 (5)	29710 (5)
5-17-P	92	130	38.01	38.01	0.00	-112.22	386 (5)	5006 (5)	18889 (5)
5-18-P	92	130	38.01	38.01	0.00	-99.49	330 (5)	4276 (5)	16134 (5)
5-19-P	92	130	38.01	38.01	0.00	-91.62	294 (5)	3819 (5)	14410 (5)
5-20-P	92	130	38.01	38.01	0.00	-91.06	291 (5)	3772 (5)	14230 (5)
5-21-P	93	130	38.01	38.01	0.00	-91.37	293 (5)	3796 (5)	14321 (5)
5-22-P	93	130	38.01	38.01	0.00	-94.34	306 (5)	3974 (5)	14995 (5)
5-23-P	93	130	38.01	38.01	0.00	-107.05	362 (5)	4699 (5)	17729 (5)
5-24-P	93	130	38.01	38.01	0.00	-139.79	517 (5)	6707 (5)	25305 (5)
5-25-P	93	130	38.01	38.01	0.00	-185.89	738 (5)	9570 (5)	36108 (5)
5-26-P	93	130	38.01	38.01	0.00	-139.79	517 (5)	6707 (5)	25305 (5)
5-27-P	93	130	38.01	38.01	0.00	-107.05	362 (5)	4699 (5)	17729 (5)
5-28-P	93	130	38.01	38.01	0.00	-94.34	306 (5)	3974 (5)	14995 (5)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF2R

2.2.E.ZZ

CL

TR.16.0.5.003

A

62 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
5-29-P	93	130	38.01	38.01	0.00	-91.37	293 (5)	3796 (5)	14321 (5)
5-30-P	93	130	38.01	38.01	0.00	-91.06	291 (5)	3772 (5)	14230 (5)
5-31-P	93	130	38.01	38.01	0.00	-91.62	294 (5)	3819 (5)	14410 (5)
5-32-P	93	130	38.01	38.01	0.00	-99.49	330 (5)	4276 (5)	16134 (5)
5-33-P	93	130	38.01	38.01	0.00	-112.22	386 (5)	5006 (5)	18889 (5)
5-34-P	93	130	38.01	38.01	0.00	-158.30	607 (5)	7874 (5)	29710 (5)
5-35-P	93	130	38.01	38.01	0.00	-167.47	652 (5)	8451 (5)	31886 (5)
5-36-P	93	130	38.01	38.01	0.00	-121.27	431 (5)	5591 (5)	21094 (5)
5-37-P	93	130	38.01	38.01	0.00	-101.66	342 (5)	4438 (5)	16744 (5)
5-38-P	93	130	38.01	38.01	0.00	-91.08	297 (5)	3846 (5)	14511 (5)
5-39-P	93	130	38.01	38.01	0.00	-90.00	292 (5)	3792 (5)	14309 (5)
5-40-P	93	130	38.01	38.01	0.00	-89.25	291 (5)	3779 (5)	14260 (5)
5-41-P	93	130	38.01	38.01	0.00	-88.71	292 (5)	3794 (5)	14314 (5)
5-42-P	93	130	38.01	38.01	0.00	-99.27	343 (5)	4446 (5)	16775 (5)
5-43-P	93	130	38.01	38.01	0.00	-122.37	456 (5)	5920 (5)	22334 (5)
5-44-P	93	130	38.01	38.01	0.00	-164.29	665 (5)	8624 (5)	32538 (5)
5-45-P	93	130	38.01	38.01	0.00	-129.41	510 (5)	6613 (5)	24951 (5)
5-46-P	93	130	38.01	38.01	0.00	-80.85	293 (5)	3800 (5)	14338 (5)
5-47-P	93	130	38.01	38.01	0.00	-54.40	192 (5)	2493 (5)	9407 (5)
5-48-P	93	130	38.01	38.01	0.00	-37.18	128 (5)	1660 (5)	6262 (5)
5-49-P	93	130	38.01	38.01	0.00	-26.10	90 (5)	1164 (5)	4391 (5)
6-1-P	93	130	34.21	34.21	0.00	-2.45	10 (5)	134 (5)	533 (5)
6-2-P	93	130	34.21	34.21	0.00	-10.53	43 (5)	560 (5)	2231 (5)
6-3-P	93	130	34.21	34.21	0.00	-21.11	89 (5)	1145 (5)	4563 (5)
6-4-P	93	130	34.21	34.21	0.00	-35.43	153 (5)	1969 (5)	7846 (5)
6-5-P	93	130	34.21	34.21	0.00	-49.88	208 (5)	2680 (5)	10679 (5)
6-6-P	93	130	34.21	34.21	0.00	-60.22	244 (5)	3149 (5)	12552 (5)
6-7-P	93	130	34.21	34.21	0.00	-54.04	215 (5)	2769 (5)	11037 (5)
6-8-P	93	130	34.21	34.21	0.00	-47.26	177 (5)	2278 (5)	9078 (5)
6-9-P	93	130	34.21	34.21	0.00	-40.10	133 (5)	1713 (5)	6827 (5)
6-10-P	93	130	34.21	34.21	0.00	-36.78	113 (5)	1454 (5)	5795 (5)
6-11-P	93	130	34.21	34.21	0.00	-37.00	110 (5)	1421 (5)	5665 (5)
6-12-P	93	130	34.21	34.21	0.00	-42.52	134 (5)	1728 (5)	6888 (5)
6-13-P	93	130	34.21	34.21	0.00	-51.56	178 (5)	2300 (5)	9166 (5)
6-14-P	93	130	34.21	34.21	0.00	-61.48	226 (5)	2910 (5)	11599 (5)
6-15-P	93	130	34.21	34.21	0.00	-71.45	265 (5)	3411 (5)	13594 (5)
6-16-P	93	130	34.21	34.21	0.00	-69.69	256 (5)	3305 (5)	13172 (5)
6-17-P	93	130	34.21	34.21	0.00	-60.10	217 (5)	2795 (5)	11137 (5)
6-18-P	93	130	34.21	34.21	0.00	-50.72	167 (5)	2152 (5)	8578 (5)
6-19-P	93	130	34.21	34.21	0.00	-43.22	128 (5)	1648 (5)	6566 (5)
6-20-P	93	130	34.21	34.21	0.00	-38.53	105 (5)	1349 (5)	5376 (5)
6-21-P	93	130	34.21	34.21	0.00	-41.38	118 (5)	1521 (5)	6062 (5)
6-22-P	93	130	34.21	34.21	0.00	-47.05	146 (5)	1880 (5)	7492 (5)
6-23-P	93	130	34.21	34.21	0.00	-56.51	195 (5)	2514 (5)	10019 (5)
6-24-P	93	130	34.21	34.21	0.00	-66.13	238 (5)	3070 (5)	12235 (5)
6-25-P	93	130	34.21	34.21	0.00	-75.84	277 (5)	3574 (5)	14242 (5)
6-26-P	93	130	34.21	34.21	0.00	-66.13	238 (5)	3070 (5)	12235 (5)
6-27-P	93	130	34.21	34.21	0.00	-56.51	195 (5)	2514 (5)	10019 (5)
6-28-P	93	130	34.21	34.21	0.00	-47.05	146 (5)	1880 (5)	7492 (5)
6-29-P	93	130	34.21	34.21	0.00	-41.38	118 (5)	1521 (5)	6062 (5)
6-30-P	93	130	34.21	34.21	0.00	-38.53	105 (5)	1349 (5)	5376 (5)
6-31-P	93	130	34.21	34.21	0.00	-43.22	128 (5)	1648 (5)	6566 (5)
6-32-P	93	130	34.21	34.21	0.00	-50.72	167 (5)	2152 (5)	8578 (5)
6-33-P	93	130	34.21	34.21	0.00	-60.10	217 (5)	2795 (5)	11137 (5)
6-34-P	93	130	34.21	34.21	0.00	-69.69	256 (5)	3305 (5)	13172 (5)
6-35-P	93	130	34.21	34.21	0.00	-71.45	265 (5)	3411 (5)	13594 (5)
6-36-P	93	130	34.21	34.21	0.00	-61.48	226 (5)	2910 (5)	11599 (5)
6-37-P	93	130	34.21	34.21	0.00	-51.56	178 (5)	2300 (5)	9166 (5)
6-38-P	93	130	34.21	34.21	0.00	-42.52	134 (5)	1728 (5)	6888 (5)
6-39-P	93	130	34.21	34.21	0.00	-37.00	110 (5)	1421 (5)	5665 (5)
6-40-P	93	130	34.21	34.21	0.00	-36.78	113 (5)	1454 (5)	5795 (5)
6-41-P	93	130	34.21	34.21	0.00	-40.10	133 (5)	1713 (5)	6827 (5)
6-42-P	93	130	34.21	34.21	0.00	-47.26	177 (5)	2278 (5)	9078 (5)
6-43-P	93	130	34.21	34.21	0.00	-54.04	215 (5)	2769 (5)	11037 (5)
6-44-P	93	130	34.21	34.21	0.00	-60.22	244 (5)	3149 (5)	12552 (5)
6-45-P	93	130	34.21	34.21	0.00	-49.88	208 (5)	2680 (5)	10679 (5)
6-46-P	93	130	34.21	34.21	0.00	-35.43	153 (5)	1969 (5)	7846 (5)
6-47-P	93	130	34.21	34.21	0.00	-21.11	89 (5)	1145 (5)	4563 (5)
6-48-P	93	130	34.21	34.21	0.00	-10.53	43 (5)	560 (5)	2231 (5)
6-49-P	93	130	34.21	34.21	0.00	-2.45	10 (5)	134 (5)	533 (5)
7-1-P	93	130	34.21	34.21	4.46	-4.03	20 (7)	1053 (7)	955 (7)
7-2-P	93	130	34.21	34.21	6.22	-6.25	30 (7)	1548 (7)	1399 (7)
7-3-P	93	130	34.21	34.21	6.91	-12.59	54 (7)	2191 (7)	2787 (7)
7-4-P	93	130	34.21	34.21	6.78	-25.90	114 (7)	1798 (7)	5869 (7)
7-5-P	93	130	34.21	34.21	2.45	-26.10	105 (7)	1354 (7)	5398 (7)
7-6-P	93	130	34.21	34.21	0.13	-24.71	91 (7)	1170 (7)	4661 (7)
7-7-P	93	130	34.21	34.21	1.85	-19.75	84 (7)	1089 (7)	4341 (7)
7-8-P	93	130	34.21	34.21	5.05	-10.47	50 (7)	1817 (7)	2586 (7)
7-9-P	93	130	34.21	34.21	14.24	-1.62	75 (6)	3857 (6)	968 (6)
7-10-P	93	130	34.21	34.21	14.60	-0.22	83 (6)	4269 (6)	1071 (6)
7-11-P	93	130	34.21	34.21	15.00	-0.15	71 (6)	3635 (6)	912 (6)

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria: Mandante:

SYSTRA S.A. **SWS Engineering S.p.A.** **SYSTRA-SOTECNI S.p.A.**

Relazione di calcolo
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	63 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
7-12-P	93	130	34.21	34.21	15.12	-1.76	84 (6)	4326 (6)	1085 (6)
7-13-P	93	130	34.21	34.21	10.65	-8.80	53 (6)	2734 (6)	2134 (6)
7-14-P	93	130	34.21	34.21	6.00	-17.79	86 (8)	1859 (8)	4410 (8)
7-15-P	93	130	34.21	34.21	0.34	-16.90	70 (7)	900 (7)	3585 (7)
7-16-P	93	130	34.21	34.21	0.56	-15.75	68 (7)	879 (7)	3503 (7)
7-17-P	93	130	34.21	34.21	10.07	-20.01	86 (5)	2160 (5)	4444 (5)
7-18-P	93	130	34.21	34.21	11.10	-6.04	58 (6)	3002 (6)	1387 (6)
7-19-P	93	130	34.21	34.21	15.39	-1.18	90 (6)	4624 (6)	1160 (6)
7-20-P	93	130	34.21	34.21	20.71	0.00	80 (7)	4119 (7)	1034 (7)
7-21-P	93	130	34.21	34.21	15.52	-0.57	75 (6)	3847 (6)	965 (6)
7-22-P	93	130	34.21	34.21	13.51	-2.61	77 (6)	3974 (6)	997 (6)
7-23-P	93	130	34.21	34.21	9.94	-13.11	60 (6)	2460 (6)	3064 (6)
7-24-P	93	130	34.21	34.21	2.86	-14.10	68 (8)	885 (8)	3496 (8)
7-25-P	93	130	34.21	34.21	0.11	-16.89	88 (7)	1137 (7)	4532 (7)
7-26-P	93	130	34.21	34.21	2.86	-14.10	68 (8)	885 (8)	3496 (8)
7-27-P	93	130	34.21	34.21	9.94	-13.11	60 (6)	2460 (6)	3064 (6)
7-28-P	93	130	34.21	34.21	13.51	-2.61	77 (6)	3974 (6)	997 (6)
7-29-P	93	130	34.21	34.21	15.52	-0.57	75 (6)	3847 (6)	965 (6)
7-30-P	93	130	34.21	34.21	20.71	0.00	80 (7)	4119 (7)	1034 (7)
7-31-P	93	130	34.21	34.21	15.39	-1.18	90 (6)	4624 (6)	1160 (6)
7-32-P	93	130	34.21	34.21	11.10	-6.04	58 (6)	3002 (6)	1387 (6)
7-33-P	93	130	34.21	34.21	10.07	-20.01	86 (5)	2160 (5)	4444 (5)
7-34-P	93	130	34.21	34.21	0.56	-15.75	68 (7)	879 (7)	3503 (7)
7-35-P	93	130	34.21	34.21	0.34	-16.90	70 (7)	900 (7)	3585 (7)
7-36-P	93	130	34.21	34.21	6.00	-17.79	86 (8)	1859 (8)	4410 (8)
7-37-P	93	130	34.21	34.21	10.65	-8.80	53 (6)	2734 (6)	2134 (6)
7-38-P	93	130	34.21	34.21	15.12	-1.76	84 (6)	4326 (6)	1085 (6)
7-39-P	93	130	34.21	34.21	15.00	-0.15	71 (6)	3635 (6)	912 (6)
7-40-P	93	130	34.21	34.21	14.60	-0.22	83 (6)	4269 (6)	1071 (6)
7-41-P	93	130	34.21	34.21	14.24	-1.62	75 (6)	3857 (6)	968 (6)
7-42-P	93	130	34.21	34.21	5.05	-10.47	50 (7)	1817 (7)	2586 (7)
7-43-P	93	130	34.21	34.21	1.85	-19.75	84 (7)	1089 (7)	4341 (7)
7-44-P	93	130	34.21	34.21	0.13	-24.71	91 (7)	1170 (7)	4661 (7)
7-45-P	93	130	34.21	34.21	2.45	-26.10	105 (7)	1354 (7)	5398 (7)
7-46-P	93	130	34.21	34.21	6.78	-25.90	114 (7)	1798 (7)	5869 (7)
7-47-P	93	130	34.21	34.21	6.91	-12.59	54 (7)	2191 (7)	2787 (7)
7-48-P	93	130	34.21	34.21	6.22	-6.25	30 (7)	1548 (7)	1399 (7)
7-49-P	93	130	34.21	34.21	4.46	-4.03	20 (7)	1053 (7)	955 (7)
8-1-P	92	130	38.01	38.01	2.10	-2.46	8 (5)	400 (5)	355 (5)
8-2-P	92	130	38.01	38.01	2.56	-5.28	23 (6)	473 (6)	1135 (6)
8-3-P	92	130	38.01	38.01	3.74	-12.95	55 (7)	1055 (7)	2668 (7)
8-4-P	92	130	38.01	38.01	7.90	-25.48	106 (7)	2268 (7)	5197 (7)
8-5-P	92	130	38.01	38.01	0.00	-49.71	189 (7)	2455 (7)	9264 (7)
8-6-P	92	130	38.01	38.01	0.00	-70.82	275 (7)	3571 (7)	13474 (7)
8-7-P	92	130	38.01	38.01	0.87	-30.03	116 (7)	1509 (7)	5693 (7)
8-8-P	92	130	38.01	38.01	13.36	-12.89	54 (6)	2147 (6)	2648 (6)
8-9-P	92	130	38.01	38.01	8.69	-2.83	37 (5)	1802 (5)	478 (5)
8-10-P	92	130	38.01	38.01	14.01	0.00	59 (7)	2894 (7)	767 (7)
8-11-P	92	130	38.01	38.01	16.23	0.00	67 (7)	3300 (7)	875 (7)
8-12-P	92	130	38.01	38.01	11.55	-0.14	49 (7)	2388 (7)	633 (7)
8-13-P	92	130	38.01	38.01	16.04	-10.22	52 (5)	2549 (5)	1770 (5)
8-14-P	92	130	38.01	38.01	14.70	-19.89	86 (6)	2051 (6)	4204 (6)
8-15-P	92	130	38.01	38.01	0.00	-52.37	205 (7)	2662 (7)	10043 (7)
8-16-P	92	130	38.01	38.01	0.00	-43.98	172 (7)	2225 (7)	8395 (7)
8-17-P	92	130	38.01	38.01	23.66	-18.93	74 (5)	3262 (5)	3615 (5)
8-18-P	92	130	38.01	38.01	13.70	-8.04	51 (5)	2494 (5)	1051 (5)
8-19-P	92	130	38.01	38.01	15.91	0.00	61 (7)	2986 (7)	791 (7)
8-20-P	92	130	38.01	38.01	21.85	0.00	85 (7)	4149 (7)	1100 (7)
8-21-P	92	130	38.01	38.01	18.60	0.00	71 (7)	3490 (7)	925 (7)
8-22-P	92	130	38.01	38.01	12.32	-0.24	50 (7)	2434 (7)	645 (7)
8-23-P	92	130	38.01	38.01	19.61	-14.82	62 (5)	3012 (5)	2509 (5)
8-24-P	92	130	38.01	38.01	0.00	-26.64	107 (7)	1386 (7)	5228 (7)
8-25-P	92	130	38.01	38.01	0.00	-66.07	265 (7)	3431 (7)	12947 (7)
8-26-P	92	130	38.01	38.01	0.00	-26.64	107 (7)	1386 (7)	5228 (7)
8-27-P	92	130	38.01	38.01	19.61	-14.82	62 (5)	3012 (5)	2509 (5)
8-28-P	92	130	38.01	38.01	12.32	-0.24	50 (7)	2434 (7)	645 (7)
8-29-P	92	130	38.01	38.01	18.60	0.00	71 (7)	3490 (7)	925 (7)
8-30-P	92	130	38.01	38.01	21.85	0.00	85 (7)	4149 (7)	1100 (7)
8-31-P	92	130	38.01	38.01	15.91	0.00	61 (7)	2986 (7)	791 (7)
8-32-P	92	130	38.01	38.01	13.70	-8.04	51 (5)	2494 (5)	1051 (5)
8-33-P	92	130	38.01	38.01	23.66	-18.93	74 (5)	3262 (5)	3615 (5)
8-34-P	92	130	38.01	38.01	0.00	-43.98	172 (7)	2225 (7)	8395 (7)
8-35-P	92	130	38.01	38.01	0.00	-52.37	205 (7)	2662 (7)	10043 (7)
8-36-P	92	130	38.01	38.01	14.70	-19.89	86 (6)	2051 (6)	4204 (6)
8-37-P	92	130	38.01	38.01	16.04	-10.22	52 (5)	2549 (5)	1770 (5)
8-38-P	92	130	38.01	38.01	11.55	-0.14	49 (7)	2388 (7)	633 (7)
8-39-P	92	130	38.01	38.01	16.23	0.00	67 (7)	3300 (7)	875 (7)
8-40-P	92	130	38.01	38.01	14.01	0.00	59 (7)	2894 (7)	767 (7)
8-41-P	92	130	38.01	38.01	8.69	-2.83	37 (5)	1802 (5)	478 (5)
8-42-P	92	130	38.01	38.01	13.36	-12.89	54 (6)	2147 (6)	2648 (6)
8-43-P	92	130	38.01	38.01	0.87	-30.03	116 (7)	1509 (7)	5693 (7)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF2R

2.2.E.ZZ

CL

TR.16.0.5.003

A

64 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
8-44-P	92	130	38.01	38.01	0.00	-70.82	275 (7)	3571 (7)	13474 (7)
8-45-P	92	130	38.01	38.01	0.00	-49.71	189 (7)	2455 (7)	9264 (7)
8-46-P	92	130	38.01	38.01	7.90	-25.48	106 (7)	2268 (7)	5197 (7)
8-47-P	92	130	38.01	38.01	3.74	-12.95	55 (7)	1055 (7)	2668 (7)
8-48-P	92	130	38.01	38.01	2.56	-5.28	23 (6)	473 (6)	1135 (6)
8-49-P	92	130	38.01	38.01	2.10	-2.46	8 (5)	400 (5)	355 (5)
9-1-S	100	130	38.01	38.01	3.34	-13.96	57 (5)	2888 (5)	2348 (5)
9-2-S	100	130	38.01	38.01	0.31	-23.45	78 (5)	1010 (5)	3968 (5)
9-3-S	100	130	38.01	38.01	0.74	-31.53	130 (5)	1673 (5)	6571 (5)
9-4-S	100	130	38.01	38.01	7.83	-38.94	210 (5)	2708 (5)	10639 (5)
9-5-S	100	130	38.01	38.01	32.06	-15.93	170 (5)	8646 (5)	3842 (5)
9-6-S	100	130	38.01	38.01	95.38	-0.35	386 (5)	19596 (5)	4988 (5)
9-7-S	100	130	38.01	38.01	203.58	0.00	782 (5)	39687 (5)	10102 (5)
9-8-S	100	130	38.01	38.01	0.00	-487.10	1682 (5)	21724 (5)	85347 (5)
9-9-S	100	130	38.01	38.01	0.00	-439.40	1515 (5)	19568 (5)	76879 (5)
9-10-S	100	130	38.01	38.01	0.00	-412.36	1412 (5)	18231 (5)	71626 (5)
9-11-S	100	130	38.01	38.01	0.00	-356.33	1198 (5)	15471 (5)	60780 (5)
9-12-S	100	130	38.01	38.01	0.00	-294.31	965 (5)	12457 (5)	48942 (5)
9-13-S	100	130	38.01	38.01	0.00	-222.77	701 (5)	9052 (5)	35561 (5)
9-14-S	100	130	38.01	38.01	0.00	-157.05	471 (5)	6080 (5)	23887 (5)
9-15-S	100	130	38.01	38.01	0.00	-95.15	261 (5)	3366 (5)	13225 (5)
9-16-S	100	130	38.01	38.01	0.20	-47.26	118 (5)	1520 (5)	5971 (5)
9-17-S	100	130	38.01	38.01	14.97	-8.22	57 (7)	2395 (7)	2895 (7)
9-18-S	100	130	38.01	38.01	24.52	-7.16	80 (6)	4074 (6)	1869 (6)
9-19-S	100	130	38.01	38.01	17.38	-9.67	76 (8)	3880 (8)	2159 (8)
9-20-S	100	130	38.01	38.01	27.93	-11.95	70 (5)	3529 (5)	2660 (5)
9-21-S	100	130	38.01	38.01	18.36	-8.18	52 (5)	2644 (5)	1702 (5)
9-22-S	100	130	38.01	38.01	11.00	-5.19	41 (6)	2057 (6)	1069 (6)
9-23-S	100	130	38.01	38.01	11.20	-3.63	31 (5)	1598 (5)	483 (5)
10-1-S	100	130	38.01	38.01	22.92	-9.35	76 (5)	3859 (5)	1555 (5)
10-2-S	100	130	38.01	38.01	44.11	-21.69	199 (5)	10101 (5)	3708 (5)
10-3-S	100	130	38.01	38.01	8.18	-30.64	103 (5)	1326 (5)	5211 (5)
10-4-S	100	130	38.01	38.01	5.22	-153.41	534 (5)	6901 (5)	27113 (5)
10-5-S	100	130	38.01	38.01	13.87	-101.69	397 (5)	7484 (5)	20146 (5)
10-6-S	100	130	38.01	38.01	56.17	-12.19	245 (5)	12451 (5)	3169 (5)
10-7-S	100	130	38.01	38.01	213.19	0.00	850 (5)	43111 (5)	10973 (5)
10-8-S	100	130	38.01	38.01	0.00	-365.83	1240 (5)	16013 (5)	62913 (5)
10-9-S	100	130	38.01	38.01	0.00	-332.33	1165 (5)	15046 (5)	59110 (5)
10-10-S	100	130	38.01	38.01	0.00	-468.12	1652 (5)	21335 (5)	83821 (5)
10-11-S	100	130	38.01	38.01	0.00	-420.18	1421 (5)	18344 (5)	72068 (5)
10-12-S	100	130	38.01	38.01	0.00	-349.76	1130 (5)	14594 (5)	57336 (5)
10-13-S	100	130	38.01	38.01	0.00	-247.37	769 (5)	9926 (5)	38995 (5)
10-14-S	100	130	38.01	38.01	0.00	-163.86	483 (5)	6236 (5)	24501 (5)
10-15-S	100	130	38.01	38.01	0.00	-88.99	233 (5)	3005 (5)	11805 (5)
10-16-S	100	130	38.01	38.01	8.37	-3.98	52 (7)	1188 (7)	2649 (7)
10-17-S	100	130	38.01	38.01	41.00	-3.50	141 (6)	7138 (6)	1817 (6)
10-18-S	100	130	38.01	38.01	88.49	-3.90	285 (5)	14468 (5)	3683 (5)
10-19-S	100	130	38.01	38.01	52.05	-7.06	102 (5)	5167 (5)	1685 (5)
10-20-S	100	130	38.01	38.01	7.03	-44.04	170 (7)	3565 (7)	8648 (7)
10-21-S	100	130	38.01	38.01	12.00	-47.98	182 (5)	2936 (5)	9252 (5)
10-22-S	100	130	38.01	38.01	6.45	-36.59	131 (6)	2243 (6)	6663 (6)
10-23-S	100	130	38.01	38.01	6.70	-14.81	39 (5)	1518 (5)	2003 (5)
11-1-S	100	130	38.01	38.01	1.26	-17.35	59 (5)	762 (5)	2995 (5)
11-2-S	100	130	38.01	38.01	2.03	-17.93	57 (5)	732 (5)	2876 (5)
11-3-S	100	130	38.01	38.01	3.37	-10.20	47 (5)	847 (5)	2370 (5)
11-4-S	100	130	38.01	38.01	18.51	-0.92	81 (8)	4131 (8)	1052 (8)
11-5-S	100	130	38.01	38.01	66.42	0.00	269 (5)	13634 (5)	3470 (5)
11-6-S	100	130	38.01	38.01	134.10	0.00	518 (5)	26286 (5)	6691 (5)
11-7-S	100	130	38.01	38.01	216.33	0.00	816 (5)	41397 (5)	10537 (5)
11-8-S	100	130	38.01	38.01	0.00	-548.92	1862 (5)	24041 (5)	94450 (5)
11-9-S	100	130	38.01	38.01	0.00	-471.66	1584 (5)	20454 (5)	80358 (5)
11-10-S	100	130	38.01	38.01	0.00	-412.21	1372 (5)	17715 (5)	69596 (5)
11-11-S	100	130	38.01	38.01	0.00	-349.35	1146 (5)	14805 (5)	58164 (5)
11-12-S	100	130	38.01	38.01	0.00	-285.13	917 (5)	11845 (5)	46535 (5)
11-13-S	100	130	38.01	38.01	0.00	-218.54	681 (5)	8800 (5)	34574 (5)
11-14-S	100	130	38.01	38.01	0.00	-157.44	471 (5)	6087 (5)	23915 (5)
11-15-S	100	130	38.01	38.01	0.00	-100.15	278 (5)	3595 (5)	14124 (5)
11-16-S	100	130	38.01	38.01	0.00	-57.44	148 (5)	1912 (5)	7514 (5)
11-17-S	100	130	38.01	38.01	0.80	-23.84	55 (5)	709 (5)	2784 (5)
11-18-S	100	130	38.01	38.01	10.05	-0.94	24 (7)	1240 (7)	830 (7)
11-19-S	100	130	38.01	38.01	10.25	-1.09	45 (8)	2288 (8)	1219 (8)
11-20-S	100	130	38.01	38.01	19.30	-0.97	54 (5)	2722 (5)	1014 (5)
11-21-S	100	130	38.01	38.01	16.37	-0.74	43 (5)	2179 (5)	723 (5)
11-22-S	100	130	38.01	38.01	12.75	-0.95	31 (5)	1574 (5)	502 (5)
11-23-S	100	130	38.01	38.01	8.28	-0.99	20 (5)	1018 (5)	259 (5)
12-1-S	100	130	38.01	38.01	28.08	-6.11	94 (5)	4767 (5)	1213 (5)
12-2-S	100	130	38.01	38.01	47.42	-18.29	214 (5)	10852 (5)	3164 (5)
12-3-S	100	130	38.01	38.01	8.43	-33.49	116 (5)	1498 (5)	5883 (5)
12-4-S	100	130	38.01	38.01	3.50	-174.11	610 (5)	7872 (5)	30927 (5)
12-5-S	100	130	38.01	38.01	4.22	-112.63	435 (5)	5618 (5)	22073 (5)
12-6-S	100	130	38.01	38.01	42.44	-10.45	206 (5)	10471 (5)	2665 (5)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF2R

2.2.E.ZZ

CL

TR.16.0.5.003

A

65 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
12-7-S	100	130	38.01	38.01	211.74	0.00	852 (5)	43221 (5)	11001 (5)
12-8-S	100	130	38.01	38.01	0.00	-335.14	1114 (5)	14385 (5)	56516 (5)
12-9-S	100	130	38.01	38.01	0.00	-316.51	1100 (5)	14207 (5)	55817 (5)
12-10-S	100	130	38.01	38.01	0.00	-479.26	1687 (5)	21783 (5)	85579 (5)
12-11-S	100	130	38.01	38.01	0.00	-433.37	1457 (5)	18815 (5)	73917 (5)
12-12-S	100	130	38.01	38.01	0.00	-361.86	1160 (5)	14975 (5)	58831 (5)
12-13-S	100	130	38.01	38.01	0.00	-253.83	780 (5)	10070 (5)	39562 (5)
12-14-S	100	130	38.01	38.01	0.00	-166.53	483 (5)	6243 (5)	24526 (5)
12-15-S	100	130	38.01	38.01	0.00	-88.45	225 (5)	2904 (5)	11408 (5)
12-16-S	100	130	38.01	38.01	11.26	-2.37	31 (7)	873 (7)	1586 (7)
12-17-S	100	130	38.01	38.01	47.16	-2.39	163 (6)	8282 (6)	2108 (6)
12-18-S	100	130	38.01	38.01	99.35	-3.76	321 (5)	16265 (5)	4140 (5)
12-19-S	100	130	38.01	38.01	57.92	-8.97	115 (5)	5836 (5)	2177 (5)
12-20-S	100	130	38.01	38.01	6.91	-51.12	199 (7)	3675 (7)	10080 (7)
12-21-S	100	130	38.01	38.01	3.22	-46.07	203 (8)	3595 (8)	10286 (8)
12-22-S	100	130	38.01	38.01	5.66	-45.19	145 (5)	2530 (5)	7377 (5)
12-23-S	100	130	38.01	38.01	4.53	-14.08	45 (6)	1284 (6)	2275 (6)
13-1-S	100	130	38.01	38.01	2.73	-15.76	53 (5)	684 (5)	2688 (5)
13-2-S	100	130	38.01	38.01	1.41	-23.88	78 (5)	1002 (5)	3936 (5)
13-3-S	100	130	38.01	38.01	3.16	-21.96	115 (5)	1488 (5)	5847 (5)
13-4-S	100	130	38.01	38.01	17.49	-12.96	88 (5)	3733 (5)	4482 (5)
13-5-S	100	130	38.01	38.01	55.20	-0.61	227 (5)	11492 (5)	2925 (5)
13-6-S	100	130	38.01	38.01	124.46	0.00	485 (5)	24595 (5)	6260 (5)
13-7-S	100	130	38.01	38.01	214.04	0.00	812 (5)	41188 (5)	10484 (5)
13-8-S	100	130	38.01	38.01	0.00	-531.72	1794 (5)	23168 (5)	91019 (5)
13-9-S	100	130	38.01	38.01	0.00	-473.97	1589 (5)	20515 (5)	80596 (5)
13-10-S	100	130	38.01	38.01	0.00	-413.98	1374 (5)	17743 (5)	69709 (5)
13-11-S	100	130	38.01	38.01	0.00	-352.40	1154 (5)	14907 (5)	58567 (5)
13-12-S	100	130	38.01	38.01	0.00	-288.77	927 (5)	11970 (5)	47026 (5)
13-13-S	100	130	38.01	38.01	0.00	-221.44	685 (5)	8847 (5)	34756 (5)
13-14-S	100	130	38.01	38.01	0.00	-158.76	469 (5)	6062 (5)	23816 (5)
13-15-S	100	130	38.01	38.01	0.00	-99.51	271 (5)	3499 (5)	13746 (5)
13-16-S	100	130	38.01	38.01	0.00	-54.48	134 (5)	1729 (5)	6791 (5)
13-17-S	100	130	38.01	38.01	1.82	-22.17	50 (5)	647 (5)	2540 (5)
13-18-S	100	130	38.01	38.01	6.65	-3.67	40 (8)	1486 (8)	2046 (8)
13-19-S	100	130	38.01	38.01	18.41	-4.14	55 (6)	2770 (6)	2443 (6)
13-20-S	100	130	38.01	38.01	24.19	-5.15	66 (5)	3358 (5)	2460 (5)
13-21-S	100	130	38.01	38.01	19.54	-2.46	49 (5)	2473 (5)	1224 (5)
13-22-S	100	130	38.01	38.01	14.50	-1.68	35 (5)	1757 (5)	661 (5)
13-23-S	100	130	38.01	38.01	8.94	-1.78	22 (5)	1140 (5)	332 (5)
14-1-S	100	130	41.81	41.81	15.88	-14.54	51 (5)	2455 (5)	2239 (5)
14-2-S	100	130	41.81	41.81	24.98	-25.50	95 (5)	4593 (5)	3930 (5)
14-3-S	100	130	41.81	41.81	6.10	-32.33	101 (5)	1312 (5)	4906 (5)
14-4-S	100	130	41.81	41.81	7.41	-95.57	389 (5)	5054 (5)	18900 (5)
14-5-S	100	130	41.81	41.81	24.41	-40.16	420 (8)	8269 (8)	20405 (8)
14-6-S	100	130	41.81	41.81	80.38	-5.74	317 (5)	15390 (5)	4116 (5)
14-7-S	100	130	41.81	41.81	213.14	0.00	793 (5)	38491 (5)	10293 (5)
14-8-S	100	130	41.81	41.81	0.00	-430.54	1372 (5)	17818 (5)	66628 (5)
14-9-S	100	130	41.81	41.81	0.00	-394.20	1275 (5)	16559 (5)	61921 (5)
14-10-S	100	130	41.81	41.81	0.00	-446.45	1455 (5)	18896 (5)	70659 (5)
14-11-S	100	130	41.81	41.81	0.00	-393.54	1244 (5)	16153 (5)	60401 (5)
14-12-S	100	130	41.81	41.81	0.00	-326.35	995 (5)	12922 (5)	48319 (5)
14-13-S	100	130	41.81	41.81	0.00	-238.27	697 (5)	9054 (5)	33855 (5)
14-14-S	100	130	41.81	41.81	0.00	-162.71	452 (5)	5862 (5)	21921 (5)
14-15-S	100	130	41.81	41.81	0.00	-93.51	232 (5)	3015 (5)	11273 (5)
14-16-S	100	130	41.81	41.81	0.00	-38.33	75 (5)	976 (5)	3651 (5)
14-17-S	100	130	41.81	41.81	25.96	-6.88	86 (6)	4153 (6)	1420 (6)
14-18-S	100	130	41.81	41.81	54.27	-5.12	169 (5)	8199 (5)	2193 (5)
14-19-S	100	130	41.81	41.81	38.71	-7.51	82 (5)	3988 (5)	2013 (5)
14-20-S	100	130	41.81	41.81	10.26	-27.82	132 (7)	3205 (7)	6385 (7)
14-21-S	100	130	41.81	41.81	15.38	-28.08	127 (5)	2464 (5)	6189 (5)
14-22-S	100	130	41.81	41.81	11.40	-23.83	90 (5)	1889 (5)	4388 (5)
14-23-S	100	130	41.81	41.81	7.57	-7.96	28 (6)	1378 (6)	1150 (6)
15-1-S	100	130	38.01	38.01	15.88	-14.54	53 (5)	2696 (5)	2459 (5)
15-2-S	100	130	38.01	38.01	24.98	-25.50	99 (5)	5045 (5)	4317 (5)
15-3-S	100	130	38.01	38.01	6.10	-32.33	106 (5)	1372 (5)	5389 (5)
15-4-S	100	130	38.01	38.01	7.41	-95.57	409 (5)	5284 (5)	20760 (5)
15-5-S	100	130	38.01	38.01	24.41	-40.16	442 (8)	9083 (8)	22413 (8)
15-6-S	100	130	38.01	38.01	80.38	-5.74	333 (5)	16904 (5)	4303 (5)
15-7-S	100	130	38.01	38.01	213.14	0.00	833 (5)	42279 (5)	10761 (5)
15-8-S	100	130	38.01	38.01	0.00	-430.54	1443 (5)	18628 (5)	73186 (5)
15-9-S	100	130	38.01	38.01	0.00	-394.20	1341 (5)	17312 (5)	68015 (5)
15-10-S	100	130	38.01	38.01	0.00	-446.45	1530 (5)	19755 (5)	77613 (5)
15-11-S	100	130	38.01	38.01	0.00	-393.54	1308 (5)	16887 (5)	66346 (5)
15-12-S	100	130	38.01	38.01	0.00	-326.35	1046 (5)	13509 (5)	53074 (5)
15-13-S	100	130	38.01	38.01	0.00	-238.27	733 (5)	9465 (5)	37187 (5)
15-14-S	100	130	38.01	38.01	0.00	-162.71	475 (5)	6129 (5)	24078 (5)
15-15-S	100	130	38.01	38.01	0.00	-93.51	244 (5)	3152 (5)	12382 (5)
15-16-S	100	130	38.01	38.01	0.00	-38.33	79 (5)	1021 (5)	4011 (5)
15-17-S	100	130	38.01	38.01	25.96	-6.88	90 (6)	4562 (6)	1559 (6)
15-18-S	100	130	38.01	38.01	54.27	-5.12	178 (5)	9006 (5)	2292 (5)

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria: Mandante:

SYSTRA S.A. **SWS Engineering S.p.A.** **SYSTRA-SOTECNI S.p.A.**

Relazione di calcolo
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	66 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
15-19-S	100	130	38.01	38.01	19.62	-7.55	86 (8)	4381 (8)	2211 (8)
15-20-S	100	130	38.01	38.01	10.26	-27.82	138 (7)	3520 (7)	7014 (7)
15-21-S	100	130	38.01	38.01	15.38	-28.08	134 (5)	2707 (5)	6799 (5)
15-22-S	100	130	38.01	38.01	11.40	-23.83	95 (5)	2075 (5)	4820 (5)
15-23-S	100	130	38.01	38.01	7.57	-7.96	30 (6)	1514 (6)	1263 (6)
16-1-S	100	130	38.01	38.01	2.73	-15.76	53 (5)	684 (5)	2688 (5)
16-2-S	100	130	38.01	38.01	1.41	-23.88	78 (5)	1002 (5)	3936 (5)
16-3-S	100	130	38.01	38.01	3.16	-21.96	115 (5)	1488 (5)	5847 (5)
16-4-S	100	130	38.01	38.01	17.49	-12.96	88 (5)	3733 (5)	4482 (5)
16-5-S	100	130	38.01	38.01	55.20	-0.61	227 (5)	11492 (5)	2925 (5)
16-6-S	100	130	38.01	38.01	124.46	0.00	485 (5)	24595 (5)	6260 (5)
16-7-S	100	130	38.01	38.01	214.04	0.00	812 (5)	41188 (5)	10484 (5)
16-8-S	100	130	38.01	38.01	0.00	-531.72	1794 (5)	23168 (5)	91019 (5)
16-9-S	100	130	38.01	38.01	0.00	-473.97	1589 (5)	20515 (5)	80596 (5)
16-10-S	100	130	38.01	38.01	0.00	-413.98	1374 (5)	17743 (5)	69709 (5)
16-11-S	100	130	38.01	38.01	0.00	-352.40	1154 (5)	14907 (5)	58567 (5)
16-12-S	100	130	38.01	38.01	0.00	-288.77	927 (5)	11970 (5)	47026 (5)
16-13-S	100	130	38.01	38.01	0.00	-221.44	685 (5)	8847 (5)	34756 (5)
16-14-S	100	130	38.01	38.01	0.00	-158.76	469 (5)	6062 (5)	23816 (5)
16-15-S	100	130	38.01	38.01	0.00	-99.51	271 (5)	3499 (5)	13746 (5)
16-16-S	100	130	38.01	38.01	0.00	-54.48	134 (5)	1729 (5)	6791 (5)
16-17-S	100	130	38.01	38.01	1.82	-22.17	50 (5)	647 (5)	2540 (5)
16-18-S	100	130	38.01	38.01	6.65	-3.67	40 (8)	1486 (8)	2046 (8)
16-19-S	100	130	38.01	38.01	18.41	-4.14	55 (6)	2770 (6)	2443 (6)
16-20-S	100	130	38.01	38.01	24.19	-5.15	66 (5)	3358 (5)	2460 (5)
16-21-S	100	130	38.01	38.01	19.54	-2.46	49 (5)	2473 (5)	1224 (5)
16-22-S	100	130	38.01	38.01	14.50	-1.68	35 (5)	1757 (5)	661 (5)
16-23-S	100	130	38.01	38.01	8.94	-1.78	22 (5)	1140 (5)	332 (5)
17-1-S	100	130	38.01	38.01	28.08	-6.11	94 (5)	4767 (5)	1213 (5)
17-2-S	100	130	38.01	38.01	47.42	-18.29	214 (5)	10852 (5)	3164 (5)
17-3-S	100	130	38.01	38.01	8.43	-33.49	116 (5)	1498 (5)	5883 (5)
17-4-S	100	130	38.01	38.01	3.50	-174.11	610 (5)	7872 (5)	30927 (5)
17-5-S	100	130	38.01	38.01	4.22	-112.63	435 (5)	5618 (5)	22073 (5)
17-6-S	100	130	38.01	38.01	42.44	-10.45	206 (5)	10471 (5)	2665 (5)
17-7-S	100	130	38.01	38.01	211.74	0.00	852 (5)	43221 (5)	11001 (5)
17-8-S	100	130	38.01	38.01	0.00	-335.14	1114 (5)	14385 (5)	56516 (5)
17-9-S	100	130	38.01	38.01	0.00	-316.51	1100 (5)	14207 (5)	55817 (5)
17-10-S	100	130	38.01	38.01	0.00	-479.26	1687 (5)	21783 (5)	85579 (5)
17-11-S	100	130	38.01	38.01	0.00	-433.37	1457 (5)	18815 (5)	73917 (5)
17-12-S	100	130	38.01	38.01	0.00	-361.86	1160 (5)	14975 (5)	58831 (5)
17-13-S	100	130	38.01	38.01	0.00	-253.83	780 (5)	10070 (5)	39562 (5)
17-14-S	100	130	38.01	38.01	0.00	-166.53	483 (5)	6243 (5)	24526 (5)
17-15-S	100	130	38.01	38.01	0.00	-88.45	225 (5)	2904 (5)	11408 (5)
17-16-S	100	130	38.01	38.01	11.26	-2.37	31 (7)	873 (7)	1586 (7)
17-17-S	100	130	38.01	38.01	47.16	-2.39	163 (6)	8282 (6)	2108 (6)
17-18-S	100	130	38.01	38.01	99.35	-3.76	321 (5)	16265 (5)	4140 (5)
17-19-S	100	130	38.01	38.01	57.92	-8.97	115 (5)	5836 (5)	2177 (5)
17-20-S	100	130	38.01	38.01	6.91	-51.12	199 (7)	3675 (7)	10080 (7)
17-21-S	100	130	38.01	38.01	3.22	-46.07	203 (8)	3595 (8)	10286 (8)
17-22-S	100	130	38.01	38.01	5.66	-45.19	145 (5)	2530 (5)	7377 (5)
17-23-S	100	130	38.01	38.01	4.53	-14.08	45 (6)	1284 (6)	2275 (6)
18-1-S	100	130	38.01	38.01	1.26	-17.35	59 (5)	762 (5)	2995 (5)
18-2-S	100	130	38.01	38.01	2.03	-17.93	57 (5)	732 (5)	2876 (5)
18-3-S	100	130	38.01	38.01	3.37	-10.20	47 (5)	847 (5)	2370 (5)
18-4-S	100	130	38.01	38.01	18.51	-0.92	81 (8)	4131 (8)	1052 (8)
18-5-S	100	130	38.01	38.01	66.42	0.00	269 (5)	13634 (5)	3470 (5)
18-6-S	100	130	38.01	38.01	134.10	0.00	518 (5)	26286 (5)	6691 (5)
18-7-S	100	130	38.01	38.01	216.33	0.00	816 (5)	41397 (5)	10537 (5)
18-8-S	100	130	38.01	38.01	0.00	-548.92	1862 (5)	24041 (5)	94450 (5)
18-9-S	100	130	38.01	38.01	0.00	-471.66	1584 (5)	20454 (5)	80358 (5)
18-10-S	100	130	38.01	38.01	0.00	-412.21	1372 (5)	17715 (5)	69596 (5)
18-11-S	100	130	38.01	38.01	0.00	-349.35	1146 (5)	14805 (5)	58164 (5)
18-12-S	100	130	38.01	38.01	0.00	-285.13	917 (5)	11845 (5)	46535 (5)
18-13-S	100	130	38.01	38.01	0.00	-218.54	681 (5)	8800 (5)	34574 (5)
18-14-S	100	130	38.01	38.01	0.00	-157.44	471 (5)	6087 (5)	23915 (5)
18-15-S	100	130	38.01	38.01	0.00	-100.15	278 (5)	3595 (5)	14124 (5)
18-16-S	100	130	38.01	38.01	0.00	-57.44	148 (5)	1912 (5)	7514 (5)
18-17-S	100	130	38.01	38.01	0.80	-23.84	55 (5)	709 (5)	2784 (5)
18-18-S	100	130	38.01	38.01	10.05	-0.94	24 (7)	1240 (7)	830 (7)
18-19-S	100	130	38.01	38.01	10.25	-1.09	45 (8)	2288 (8)	1219 (8)
18-20-S	100	130	38.01	38.01	19.30	-0.97	54 (5)	2722 (5)	1014 (5)
18-21-S	100	130	38.01	38.01	16.37	-0.74	43 (5)	2179 (5)	723 (5)
18-22-S	100	130	38.01	38.01	12.75	-0.95	31 (5)	1574 (5)	502 (5)
18-23-S	100	130	38.01	38.01	8.28	-0.99	20 (5)	1018 (5)	259 (5)
19-1-S	100	130	38.01	38.01	22.92	-9.35	76 (5)	3859 (5)	1555 (5)
19-2-S	100	130	38.01	38.01	44.11	-21.69	199 (5)	10101 (5)	3708 (5)
19-3-S	100	130	38.01	38.01	8.18	-30.64	103 (5)	1326 (5)	5211 (5)
19-4-S	100	130	38.01	38.01	5.22	-153.41	534 (5)	6901 (5)	27113 (5)
19-5-S	100	130	38.01	38.01	13.87	-101.69	397 (5)	7484 (5)	20146 (5)
19-6-S	100	130	38.01	38.01	56.17	-12.19	245 (5)	12451 (5)	3169 (5)
19-7-S	100	130	38.01	38.01	213.19	0.00	850 (5)	43111 (5)	10973 (5)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

ITINERARIO NAPOLI – BARI

RADDOPPIO TRATTA CANCELLO-BENEVENTO

II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO

2° SUBLOTTO TELESE – SAN LORENZO

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF2R

2.2.E.ZZ

CL

TR.16.0.5.003

A

67 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	σc [kPa]	σfi [kPa]	σfs [kPa]
19-8-S	100	130	38.01	38.01	0.00	-365.83	1240 (5)	16013 (5)	62913 (5)
19-9-S	100	130	38.01	38.01	0.00	-332.33	1165 (5)	15046 (5)	59110 (5)
19-10-S	100	130	38.01	38.01	0.00	-468.12	1652 (5)	21335 (5)	83821 (5)
19-11-S	100	130	38.01	38.01	0.00	-420.18	1421 (5)	18344 (5)	72068 (5)
19-12-S	100	130	38.01	38.01	0.00	-349.76	1130 (5)	14594 (5)	57336 (5)
19-13-S	100	130	38.01	38.01	0.00	-247.37	769 (5)	9926 (5)	38995 (5)
19-14-S	100	130	38.01	38.01	0.00	-163.86	483 (5)	6236 (5)	24501 (5)
19-15-S	100	130	38.01	38.01	0.00	-88.99	233 (5)	3005 (5)	11805 (5)
19-16-S	100	130	38.01	38.01	8.37	-3.98	52 (7)	1188 (7)	2649 (7)
19-17-S	100	130	38.01	38.01	41.00	-3.50	141 (6)	7138 (6)	1817 (6)
19-18-S	100	130	38.01	38.01	88.49	-3.90	285 (5)	14468 (5)	3683 (5)
19-19-S	100	130	38.01	38.01	52.05	-7.06	102 (5)	5167 (5)	1685 (5)
19-20-S	100	130	38.01	38.01	7.03	-44.04	170 (7)	3565 (7)	8648 (7)
19-21-S	100	130	38.01	38.01	12.00	-47.98	182 (5)	2936 (5)	9252 (5)
19-22-S	100	130	38.01	38.01	6.45	-36.59	131 (6)	2243 (6)	6663 (6)
19-23-S	100	130	38.01	38.01	6.70	-14.81	39 (5)	1518 (5)	2003 (5)
20-1-S	100	130	38.01	38.01	3.34	-13.96	57 (5)	2888 (5)	2348 (5)
20-2-S	100	130	38.01	38.01	0.31	-23.45	78 (5)	1010 (5)	3968 (5)
20-3-S	100	130	38.01	38.01	0.74	-31.53	130 (5)	1673 (5)	6571 (5)
20-4-S	100	130	38.01	38.01	7.83	-38.94	210 (5)	2708 (5)	10639 (5)
20-5-S	100	130	38.01	38.01	32.06	-15.93	170 (5)	8646 (5)	3842 (5)
20-6-S	100	130	38.01	38.01	95.38	-0.35	386 (5)	19596 (5)	4988 (5)
20-7-S	100	130	38.01	38.01	203.58	0.00	782 (5)	39687 (5)	10102 (5)
20-8-S	100	130	38.01	38.01	0.00	-487.10	1682 (5)	21724 (5)	85347 (5)
20-9-S	100	130	38.01	38.01	0.00	-439.40	1515 (5)	19568 (5)	76879 (5)
20-10-S	100	130	38.01	38.01	0.00	-412.36	1412 (5)	18231 (5)	71626 (5)
20-11-S	100	130	38.01	38.01	0.00	-356.33	1198 (5)	15471 (5)	60780 (5)
20-12-S	100	130	38.01	38.01	0.00	-294.31	965 (5)	12457 (5)	48942 (5)
20-13-S	100	130	38.01	38.01	0.00	-222.77	701 (5)	9052 (5)	35561 (5)
20-14-S	100	130	38.01	38.01	0.00	-157.05	471 (5)	6080 (5)	23887 (5)
20-15-S	100	130	38.01	38.01	0.00	-95.15	261 (5)	3366 (5)	13225 (5)
20-16-S	100	130	38.01	38.01	0.20	-47.26	118 (5)	1520 (5)	5971 (5)
20-17-S	100	130	38.01	38.01	14.97	-8.22	57 (7)	2395 (7)	2895 (7)
20-18-S	100	130	38.01	38.01	24.52	-7.16	80 (6)	4074 (6)	1869 (6)
20-19-S	100	130	38.01	38.01	17.38	-9.67	76 (8)	3880 (8)	2159 (8)
20-20-S	100	130	38.01	38.01	27.93	-11.95	70 (5)	3529 (5)	2660 (5)
20-21-S	100	130	38.01	38.01	18.36	-8.18	52 (5)	2644 (5)	1702 (5)
20-22-S	100	130	38.01	38.01	11.00	-5.19	41 (6)	2057 (6)	1069 (6)
20-23-S	100	130	38.01	38.01	11.20	-3.63	31 (5)	1598 (5)	483 (5)

Pali in c.a.

Ip	Is	Ar [cmq]	σc [kPa]	σf [kPa]	τc [kPa]	σstf [kPa]
1	1	108.57	7165	138308		
1	2	108.57	6132	114775		
1	3	108.57	5110	91561		
1	4	108.57	4111	68967		
1	5	108.57	3144	47338		
1	6	108.57	2221	27154		
1	7	108.57	1360	16885		
1	8	108.57	869	12425		
1	9	108.57	752	11046		
1	10	108.57	981	13764		
1	11	108.57	1357	16905		
1	12	108.57	1778	21534		
1	13	108.57	2125	25302		
1	14	108.57	2401	29872		
1	15	108.57	2612	34280		
1	16	108.57	2765	37487		
1	17	108.57	2868	39611		
1	18	108.57	2925	40773		
1	19	108.57	2944	41096		
1	20	108.57	2929	40692		
1	21	108.57	2885	39670		
1	22	108.57	2817	38131		
1	23	108.57	2729	36168		
1	24	108.57	2624	33905		
1	25	108.57	2508	31451		
1	26	108.57	2385	28852		
1	27	108.57	2256	26802		
1	28	108.57	2123	25364		
1	29	108.57	1989	23902		
1	30	108.57	1854	22431		
1	31	108.57	1720	20968		
1	32	108.57	1589	19526		
1	33	108.57	1462	18119		
1	34	108.57	1340	16761		
1	35	108.57	1224	15465		

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	68 di 123

Ip	Is	Ar [cmq]	σ_c [kPa]	σ_f [kPa]	τ_c [kPa]	σ_{sf} [kPa]
1	36	108.57	1116	14377		
1	37	108.57	1017	13817		
1	38	108.57	951	13279		
1	39	108.57	909	12765		
1	40	108.57	869	12274		
1	41	108.57	831	11807		
1	42	108.57	795	11364		
1	43	108.57	762	10944		
1	44	108.57	730	10548		
1	45	108.57	700	10174		
1	46	108.57	672	9821		
1	47	108.57	646	9489		
1	48	108.57	622	9177		
1	49	108.57	599	8882		
1	50	108.57	578	8605		
1	51	108.57	558	8345		
1	52	108.57	547	8192		
1	53	108.57	548	8174		
1	54	108.57	547	8139		
1	55	108.57	545	8087		
1	56	108.57	541	8020		
1	57	108.57	537	7940		
1	58	108.57	531	7847		
1	59	108.57	525	7743		
1	60	108.57	518	7628		
1	61	108.57	510	7504		
1	62	108.57	501	7371		
1	63	108.57	492	7230		
1	64	108.57	482	7082		
1	65	108.57	471	6928		
1	66	108.57	460	6768		
1	67	108.57	449	6604		
1	68	108.57	437	6435		
1	69	108.57	426	6262		
1	70	108.57	413	6086		
1	71	108.57	401	5907		
1	72	108.57	389	5726		
1	73	108.57	376	5542		
1	74	108.57	363	5356		
1	75	108.57	350	5169		
1	76	108.57	337	4980		
1	77	108.57	324	4790		
1	78	108.57	311	4599		
1	79	108.57	298	4407		
1	80	108.57	284	4214		
1	81	108.57	271	4021		
1	82	108.57	258	3826		
1	83	108.57	245	3631		
1	84	108.57	231	3435		
1	85	108.57	218	3239		
1	86	108.57	204	3042		
1	87	108.57	191	2845		
1	88	108.57	178	2647		
1	89	108.57	164	2448		
1	90	108.57	151	2249		
1	91	108.57	137	2049		
1	92	108.57	124	1848		
1	93	108.57	110	1646		
1	94	108.57	97	1444		
1	95	108.57	83	1241		
1	96	108.57	69	1036		
1	97	108.57	56	831		
1	98	108.57	42	625		
1	99	108.57	28	418		
1	100	108.57	14	210		
1	101	108.57	0	0		
2	1	108.57	7334	87612		
2	2	108.57	6285	75520		
2	3	108.57	5251	64289		
2	4	108.57	4259	53374		
2	5	108.57	3358	43252		
2	6	108.57	2618	34709		
2	7	108.57	2041	27888		
2	8	108.57	1522	21748		
2	9	108.57	1305	19189		
2	10	108.57	1708	23971		
2	11	108.57	2048	28013		
2	12	108.57	2332	31379		
2	13	108.57	2567	34167		
2	14	108.57	2767	36524		
2	15	108.57	2929	38428		

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandatario:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	69 di 123

Ip	Is	Ar [cmq]	σ_c [kPa]	σ_f [kPa]	τ_c [kPa]	σ_{sf} [kPa]
2	16	108.57	3053	39869		
2	17	108.57	3138	40860		
2	18	108.57	3187	41435		
2	19	108.57	3204	41637		
2	20	108.57	3193	41516		
2	21	108.57	3158	41119		
2	22	108.57	3103	40498		
2	23	108.57	3033	39697		
2	24	108.57	2952	38758		
2	25	108.57	2865	37745		
2	26	108.57	2774	36688		
2	27	108.57	2682	35612		
2	28	108.57	2590	34536		
2	29	108.57	2500	33473		
2	30	108.57	2412	32427		
2	31	108.57	2324	31389		
2	32	108.57	2237	30367		
2	33	108.57	2153	29367		
2	34	108.57	2071	28396		
2	35	108.57	1992	27459		
2	36	108.57	1916	26560		
2	37	108.57	1844	25703		
2	38	108.57	1775	24890		
2	39	108.57	1710	24122		
2	40	108.57	1649	23401		
2	41	108.57	1593	22727		
2	42	108.57	1540	22100		
2	43	108.57	1491	21519		
2	44	108.57	1446	20983		
2	45	108.57	1405	20491		
2	46	108.57	1367	20042		
2	47	108.57	1333	19634		
2	48	108.57	1302	19265		
2	49	108.57	1274	18932		
2	50	108.57	1249	18634		
2	51	108.57	1227	18370		
2	52	108.57	1221	18289		
2	53	108.57	1235	18455		
2	54	108.57	1247	18593		
2	55	108.57	1257	18705		
2	56	108.57	1265	18793		
2	57	108.57	1271	18859		
2	58	108.57	1275	18906		
2	59	108.57	1278	18934		
2	60	108.57	1279	18947		
2	61	108.57	1280	18945		
2	62	108.57	1279	18931		
2	63	108.57	1277	18905		
2	64	108.57	1275	18869		
2	65	108.57	1271	18825		
2	66	108.57	1267	18773		
2	67	108.57	1263	18716		
2	68	108.57	1258	18653		
2	69	108.57	1253	18585		
2	70	108.57	1248	18515		
2	71	108.57	1242	18441		
2	72	108.57	1236	18366		
2	73	108.57	1230	18288		
2	74	108.57	1224	18210		
2	75	108.57	1218	18132		
2	76	108.57	1212	18053		
2	77	108.57	1207	17975		
2	78	108.57	1201	17897		
2	79	108.57	1195	17820		
2	80	108.57	1189	17744		
2	81	108.57	1183	17668		
2	82	108.57	1178	17594		
2	83	108.57	1172	17522		
2	84	108.57	1167	17450		
2	85	108.57	1162	17380		
2	86	108.57	1157	17312		
2	87	108.57	1152	17245		
2	88	108.57	1147	17179		
2	89	108.57	1143	17114		
2	90	108.57	1138	17051		
2	91	108.57	1134	16989		
2	92	108.57	1129	16928		
2	93	108.57	1125	16868		
2	94	108.57	1121	16809		
2	95	108.57	1117	16751		
2	96	108.57	1113	16694		

APPALTATORE:	 Consorzio Telese Società Consortile a Responsabilità Limitata		ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO					
PROGETTAZIONE:	Mandataria: Mandante: SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.		COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
Relazione di calcolo	IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX		IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	70 di 123

Ip	Is	Ar [cmq]	σc [kPa]	σf [kPa]	τc [kPa]	σstf [kPa]
2	97	108.57	1109	16638		
2	98	108.57	1106	16582		
2	99	108.57	1102	16527		
2	100	108.57	1098	16472		
2	101	108.57	1095	16418		
3	1	108.57	7479	93417		
3	2	108.57	6483	82309		
3	3	108.57	5554	71799		
3	4	108.57	4736	62356		
3	5	108.57	4049	54291		
3	6	108.57	3441	47092		
3	7	108.57	2873	40373		
3	8	108.57	2354	34229		
3	9	108.57	2137	31666		
3	10	108.57	2539	36443		
3	11	108.57	2879	40480		
3	12	108.57	3162	43839		
3	13	108.57	3393	46580		
3	14	108.57	3577	48762		
3	15	108.57	3718	50439		
3	16	108.57	3821	51666		
3	17	108.57	3890	52494		
3	18	108.57	3930	52969		
3	19	108.57	3943	53136		
3	20	108.57	3935	53037		
3	21	108.57	3907	52711		
3	22	108.57	3863	52192		
3	23	108.57	3805	51515		
3	24	108.57	3736	50698		
3	25	108.57	3660	49795		
3	26	108.57	3579	48829		
3	27	108.57	3493	47816		
3	28	108.57	3405	46773		
3	29	108.57	3316	45712		
3	30	108.57	3226	44647		
3	31	108.57	3137	43586		
3	32	108.57	3049	42540		
3	33	108.57	2963	41515		
3	34	108.57	2879	40519		
3	35	108.57	2798	39556		
3	36	108.57	2721	38631		
3	37	108.57	2646	37746		
3	38	108.57	2576	36905		
3	39	108.57	2509	36108		
3	40	108.57	2447	35357		
3	41	108.57	2388	34653		
3	42	108.57	2333	33994		
3	43	108.57	2282	33381		
3	44	108.57	2234	32812		
3	45	108.57	2191	32287		
3	46	108.57	2151	31803		
3	47	108.57	2114	31359		
3	48	108.57	2081	30954		
3	49	108.57	2051	30584		
3	50	108.57	2023	30249		
3	51	108.57	1999	29946		
3	52	108.57	1990	29827		
3	53	108.57	2002	29954		
3	54	108.57	2011	30053		
3	55	108.57	2018	30125		
3	56	108.57	2023	30173		
3	57	108.57	2027	30199		
3	58	108.57	2028	30204		
3	59	108.57	2028	30192		
3	60	108.57	2027	30163		
3	61	108.57	2024	30119		
3	62	108.57	2021	30062		
3	63	108.57	2016	29993		
3	64	108.57	2011	29914		
3	65	108.57	2005	29827		
3	66	108.57	1998	29731		
3	67	108.57	1991	29629		
3	68	108.57	1983	29521		
3	69	108.57	1975	29408		
3	70	108.57	1966	29292		
3	71	108.57	1958	29172		
3	72	108.57	1949	29050		
3	73	108.57	1940	28926		
3	74	108.57	1931	28801		
3	75	108.57	1921	28675		
3	76	108.57	1912	28548		

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	71 di 123

Ip	Is	Ar [cmq]	σ_c [kPa]	σ_f [kPa]	τ_c [kPa]	σ_{sf} [kPa]
3	77	108.57	1903	28421		
3	78	108.57	1894	28294		
3	79	108.57	1885	28168		
3	80	108.57	1876	28042		
3	81	108.57	1867	27917		
3	82	108.57	1858	27792		
3	83	108.57	1849	27669		
3	84	108.57	1840	27546		
3	85	108.57	1832	27424		
3	86	108.57	1823	27304		
3	87	108.57	1815	27184		
3	88	108.57	1806	27065		
3	89	108.57	1798	26947		
3	90	108.57	1790	26830		
3	91	108.57	1782	26714		
3	92	108.57	1774	26599		
3	93	108.57	1766	26484		
3	94	108.57	1759	26370		
3	95	108.57	1751	26256		
3	96	108.57	1743	26143		
3	97	108.57	1735	26030		
3	98	108.57	1728	25917		
3	99	108.57	1720	25805		
3	100	108.57	1713	25692		
3	101	108.57	1705	25580		

Combinazioni SLEF

Paramento

Tensione massima di compressione nel calcestruzzo

33200 [kPa]

Tensione massima di trazione dell'acciaio

450000 [kPa]

n°	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	M [kNm]	N [kN]	σ_c [kPa]	σ_f [kPa]	σ_{fs} [kPa]
1	100	70	15.71	31.42	1.50	5.00	26 (8)	234 (8)	338 (8)
2	100	70	15.71	31.42	2.02	6.72	35 (8)	319 (8)	456 (8)
3	100	70	15.71	31.42	2.55	8.43	44 (8)	403 (8)	574 (8)
4	100	70	15.71	31.42	3.07	10.15	53 (8)	488 (8)	692 (8)
5	100	70	15.71	31.42	3.60	11.86	62 (8)	573 (8)	810 (8)
6	100	70	15.71	31.42	4.12	13.58	71 (8)	657 (8)	928 (8)
7	100	70	15.71	31.42	4.65	15.29	80 (8)	742 (8)	1046 (8)
8	100	70	15.71	31.42	5.17	17.01	89 (8)	826 (8)	1164 (8)
9	100	70	15.71	31.42	5.70	18.73	98 (8)	911 (8)	1282 (8)
10	100	70	15.71	31.42	6.22	20.44	107 (8)	996 (8)	1400 (8)
11	100	70	15.71	31.42	6.75	22.16	116 (8)	1080 (8)	1518 (8)
12	100	70	15.71	31.42	7.27	23.87	125 (8)	1165 (8)	1636 (8)
13	100	70	15.71	31.42	7.80	25.59	134 (8)	1250 (8)	1754 (8)
14	100	70	15.71	31.42	8.32	27.30	143 (8)	1334 (8)	1872 (8)
15	100	70	15.71	31.42	8.85	29.02	152 (8)	1419 (8)	1990 (8)
16	100	70	15.71	31.42	9.37	30.74	161 (8)	1503 (8)	2109 (8)
17	100	70	15.71	31.42	9.90	32.45	170 (8)	1588 (8)	2227 (8)
18	100	70	15.71	31.42	10.42	34.17	179 (8)	1673 (8)	2345 (8)
19	100	70	15.71	31.42	10.95	35.88	188 (8)	1757 (8)	2463 (8)
20	100	70	15.71	31.42	11.47	37.60	197 (8)	1842 (8)	2581 (8)
21	100	70	15.71	31.42	12.00	39.32	206 (8)	1926 (8)	2699 (8)
22	100	70	15.71	31.42	12.52	41.03	215 (8)	2011 (8)	2817 (8)
23	100	70	15.71	31.42	13.05	42.75	224 (8)	2096 (8)	2935 (8)
24	100	70	15.71	31.42	13.57	44.46	233 (8)	2180 (8)	3053 (8)
25	100	70	15.71	31.42	14.10	46.18	242 (8)	2265 (8)	3171 (8)
26	100	70	15.71	31.42	14.62	47.89	251 (8)	2350 (8)	3289 (8)
27	100	70	15.71	31.42	15.15	49.61	260 (8)	2434 (8)	3407 (8)
28	100	70	15.71	31.42	15.67	51.33	269 (8)	2519 (8)	3525 (8)
29	100	70	15.71	31.42	16.20	53.04	278 (8)	2603 (8)	3643 (8)
30	100	70	15.71	31.42	16.72	54.76	287 (8)	2688 (8)	3761 (8)
31	100	70	15.71	31.42	17.25	56.47	296 (8)	2773 (8)	3879 (8)
32	100	70	15.71	31.42	17.82	58.19	305 (8)	2858 (8)	4006 (8)
33	100	70	15.71	31.42	18.50	59.90	317 (8)	3029 (8)	4154 (8)
34	100	70	15.71	31.42	19.30	61.62	330 (8)	3227 (8)	4323 (8)
35	100	70	15.71	31.42	20.20	63.34	345 (8)	3476 (8)	4514 (8)
36	100	70	15.71	31.42	21.23	65.05	362 (8)	3779 (8)	4728 (8)
37	100	70	15.71	31.42	22.38	66.77	382 (8)	4140 (8)	4965 (8)
38	100	70	15.71	31.42	23.66	68.48	403 (8)	4563 (8)	5227 (8)
39	100	70	15.71	31.42	25.08	70.20	426 (8)	5051 (8)	5514 (8)
40	100	70	15.71	31.42	26.64	71.91	452 (8)	5610 (8)	5827 (8)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	72 di 123

n°	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	M [kNm]	N [kN]	σc [kPa]	σfi [kPa]	σfs [kPa]
41	100	70	15.71	31.42	28.34	73.63	480 (8)	6242 (8)	6166 (8)
42	100	120	15.71	31.42	42.30	86.48	270 (8)	2947 (8)	3746 (8)
43	100	120	15.71	31.42	44.50	89.42	284 (8)	3205 (8)	3939 (8)
44	100	120	15.71	31.42	47.40	92.36	303 (8)	3614 (8)	4193 (8)
45	100	120	15.71	31.42	50.81	95.30	326 (8)	4146 (8)	4492 (8)
46	100	120	15.71	31.42	54.54	98.24	350 (8)	4764 (8)	4819 (8)
47	100	120	15.71	31.42	58.43	101.18	376 (8)	5435 (8)	5160 (8)
48	100	120	15.71	31.42	62.48	104.12	403 (8)	6155 (8)	5514 (8)
49	100	120	15.71	31.42	66.67	107.06	431 (8)	6926 (8)	5881 (8)
50	100	120	15.71	31.42	71.03	110.00	460 (8)	7749 (8)	6261 (8)
51	100	120	15.71	31.42	75.56	112.94	490 (8)	8628 (8)	6655 (8)
52	100	120	15.71	31.42	80.27	115.88	521 (8)	9561 (8)	7063 (8)
53	100	120	15.71	31.42	85.16	118.82	554 (8)	10552 (8)	7485 (8)
54	100	120	15.71	31.42	90.24	121.76	587 (8)	11602 (8)	7923 (8)
55	100	120	15.71	31.42	95.51	124.70	622 (8)	12713 (8)	8376 (8)
56	100	120	15.71	31.42	100.99	127.65	658 (8)	13887 (8)	8844 (8)
57	100	120	15.71	31.42	106.67	130.59	696 (8)	15124 (8)	9329 (8)
58	100	120	15.71	31.42	112.57	133.53	735 (8)	16426 (8)	9830 (8)
59	100	120	15.71	31.42	118.68	136.47	775 (8)	17796 (8)	10347 (8)
60	100	120	15.71	31.42	125.02	139.41	817 (8)	19234 (8)	10882 (8)
61	100	120	15.71	31.42	131.59	142.35	860 (8)	20741 (8)	11434 (8)
62	100	120	15.71	31.42	138.39	145.29	904 (8)	22320 (8)	12004 (8)
63	100	120	15.71	31.42	145.43	148.23	950 (8)	23972 (8)	12592 (8)
64	100	120	15.71	31.42	152.71	151.17	998 (8)	25698 (8)	13199 (8)
65	100	120	15.71	31.42	160.25	154.11	1047 (8)	27499 (8)	13824 (8)
66	100	120	15.71	31.42	168.03	157.05	1097 (8)	29378 (8)	14469 (8)
67	100	120	15.71	31.42	176.08	159.99	1150 (8)	31335 (8)	15133 (8)
68	100	120	15.71	31.42	184.39	162.93	1203 (8)	33372 (8)	15816 (8)
69	100	120	15.71	31.42	192.97	165.87	1259 (8)	35490 (8)	16520 (8)
70	100	120	15.71	31.42	201.83	168.81	1316 (8)	37691 (8)	17245 (8)
71	100	120	15.71	31.42	210.96	171.75	1375 (8)	39976 (8)	17990 (8)
72	100	120	15.71	31.42	220.38	174.69	1436 (8)	42348 (8)	18757 (8)
73	100	120	15.71	31.42	230.09	177.63	1498 (8)	44806 (8)	19545 (8)
74	100	120	15.71	31.42	240.09	180.58	1562 (8)	47352 (8)	20355 (8)
75	100	120	15.71	31.42	250.39	183.52	1628 (8)	49989 (8)	21188 (8)
76	100	120	15.71	31.42	260.99	186.46	1696 (8)	52717 (8)	22043 (8)
77	100	120	15.71	31.42	271.90	189.40	1766 (8)	55538 (8)	22921 (8)
78	100	120	15.71	31.42	283.13	192.34	1837 (8)	58453 (8)	23822 (8)
79	100	120	15.71	31.42	294.67	195.28	1911 (8)	61463 (8)	24747 (8)
80	100	120	15.71	31.42	306.53	198.22	1987 (8)	64571 (8)	25696 (8)
81	100	120	15.71	31.42	318.73	201.16	2064 (8)	67777 (8)	26670 (8)
82	100	120	15.71	31.42	331.25	204.10	2144 (8)	71083 (8)	27668 (8)
83	100	120	15.71	31.42	331.51	204.16	2145 (8)	71150 (8)	27688 (8)
84	100	120	15.71	31.42	344.37	207.10	2227 (8)	74557 (8)	28712 (8)
85	100	120	15.71	31.42	357.58	210.04	2311 (8)	78068 (8)	29760 (8)
86	100	120	15.71	31.42	371.13	212.98	2397 (8)	81682 (8)	30835 (8)
87	100	120	15.71	31.42	385.03	215.92	2485 (8)	85402 (8)	31936 (8)
88	100	120	15.71	31.42	399.29	218.85	2575 (8)	89228 (8)	33063 (8)
89	100	120	15.71	31.42	413.92	221.79	2667 (8)	93164 (8)	34217 (8)
90	100	120	15.71	31.42	428.91	224.73	2762 (8)	97212 (8)	35399 (8)
91	100	120	15.71	31.42	444.30	227.67	2859 (8)	101376 (8)	36610 (8)
92	100	120	15.71	31.42	460.09	230.61	2958 (8)	105661 (8)	37851 (8)
93	100	120	15.71	31.42	476.30	233.55	3060 (8)	110072 (8)	39124 (8)

Piastra fondazione

Tensione massima di compressione nel calcestruzzo
Tensione massima di trazione dell'acciaio

17430 [kPa]
1255271 [kPa]

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	σc [kPa]	σfi [kPa]	σfs [kPa]
1-1-P	75	130	30.41	30.41	3.78	-1.12	17 (5)	822 (5)	420 (5)
1-2-P	75	130	30.41	30.41	2.58	-6.51	38 (5)	874 (5)	1894 (5)
1-3-P	75	130	30.41	30.41	0.65	-23.06	109 (5)	1408 (5)	5348 (5)
1-4-P	75	130	30.41	30.41	1.33	-60.04	278 (5)	3603 (5)	13689 (5)
1-5-P	75	130	30.41	30.41	0.30	-94.25	447 (5)	5787 (5)	21988 (5)
1-6-P	75	130	30.41	30.41	0.09	-113.39	541 (5)	7016 (5)	26656 (5)
1-7-P	75	130	30.41	30.41	0.37	-64.37	302 (5)	3908 (5)	14847 (5)
1-8-P	75	130	30.41	30.41	6.86	-22.79	102 (5)	2454 (5)	5033 (5)
1-9-P	75	130	30.41	30.41	33.15	-1.17	155 (5)	7629 (5)	2008 (5)
1-10-P	75	130	30.41	30.41	44.93	-0.05	213 (5)	10475 (5)	2757 (5)
1-11-P	75	130	30.41	30.41	49.05	-0.02	233 (5)	11454 (5)	3015 (5)
1-12-P	75	130	30.41	30.41	40.74	-0.65	192 (5)	9444 (5)	2486 (5)
1-13-P	75	130	30.41	30.41	14.53	-10.81	66 (5)	3238 (5)	2226 (5)
1-14-P	75	130	30.41	30.41	1.64	-40.94	186 (5)	2415 (5)	9175 (5)
1-15-P	75	130	30.41	30.41	0.25	-82.52	392 (5)	5085 (5)	19320 (5)
1-16-P	75	130	30.41	30.41	0.45	-73.11	346 (5)	4489 (5)	17054 (5)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF2R

2.2.E.ZZ

CL

TR.16.0.5.003

A

73 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
1-17-P	75	130	30.41	30.41	6.87	-36.82	164 (5)	2359 (5)	8075 (5)
1-18-P	75	130	30.41	30.41	20.23	-6.10	94 (5)	4605 (5)	1212 (5)
1-19-P	75	130	30.41	30.41	45.07	-0.32	213 (5)	10483 (5)	2759 (5)
1-20-P	75	130	30.41	30.41	55.15	0.00	262 (5)	12897 (5)	3395 (5)
1-21-P	75	130	30.41	30.41	48.96	-0.10	232 (5)	11421 (5)	3006 (5)
1-22-P	75	130	30.41	30.41	33.52	-1.85	157 (5)	7747 (5)	2039 (5)
1-23-P	75	130	30.41	30.41	8.95	-21.36	94 (5)	3248 (5)	4605 (5)
1-24-P	75	130	30.41	30.41	1.15	-56.71	265 (5)	3436 (5)	13055 (5)
1-25-P	75	130	30.41	30.41	0.00	-99.39	475 (5)	6159 (5)	23401 (5)
1-26-P	75	130	30.41	30.41	1.15	-56.71	265 (5)	3436 (5)	13055 (5)
1-27-P	75	130	30.41	30.41	8.95	-21.36	94 (5)	3248 (5)	4605 (5)
1-28-P	75	130	30.41	30.41	33.52	-1.85	157 (5)	7747 (5)	2039 (5)
1-29-P	75	130	30.41	30.41	48.96	-0.10	232 (5)	11421 (5)	3006 (5)
1-30-P	75	130	30.41	30.41	55.15	0.00	262 (5)	12897 (5)	3395 (5)
1-31-P	75	130	30.41	30.41	45.07	-0.32	213 (5)	10483 (5)	2759 (5)
1-32-P	75	130	30.41	30.41	20.23	-6.10	94 (5)	4605 (5)	1212 (5)
1-33-P	75	130	30.41	30.41	6.87	-36.82	164 (5)	2359 (5)	8075 (5)
1-34-P	75	130	30.41	30.41	0.45	-73.11	346 (5)	4489 (5)	17054 (5)
1-35-P	75	130	30.41	30.41	0.25	-82.52	392 (5)	5085 (5)	19320 (5)
1-36-P	75	130	30.41	30.41	1.64	-40.94	186 (5)	2415 (5)	9175 (5)
1-37-P	75	130	30.41	30.41	14.53	-10.81	66 (5)	3238 (5)	2226 (5)
1-38-P	75	130	30.41	30.41	40.74	-0.65	192 (5)	9444 (5)	2486 (5)
1-39-P	75	130	30.41	30.41	49.05	-0.02	233 (5)	11454 (5)	3015 (5)
1-40-P	75	130	30.41	30.41	44.93	-0.05	213 (5)	10475 (5)	2757 (5)
1-41-P	75	130	30.41	30.41	33.15	-1.17	155 (5)	7629 (5)	2008 (5)
1-42-P	75	130	30.41	30.41	6.86	-22.79	102 (5)	2454 (5)	5033 (5)
1-43-P	75	130	30.41	30.41	0.37	-64.37	302 (5)	3908 (5)	14847 (5)
1-44-P	75	130	30.41	30.41	0.09	-113.39	541 (5)	7016 (5)	26656 (5)
1-45-P	75	130	30.41	30.41	0.30	-94.25	447 (5)	5787 (5)	21988 (5)
1-46-P	75	130	30.41	30.41	1.33	-60.04	278 (5)	3603 (5)	13689 (5)
1-47-P	75	130	30.41	30.41	0.65	-23.06	109 (5)	1408 (5)	5348 (5)
1-48-P	75	130	30.41	30.41	2.58	-6.51	38 (5)	874 (5)	1894 (5)
1-49-P	75	130	30.41	30.41	3.78	-1.12	17 (5)	822 (5)	420 (5)
2-1-P	75	130	30.41	30.41	18.20	0.00	88 (5)	4335 (5)	1141 (5)
2-2-P	75	130	30.41	30.41	16.03	0.00	81 (5)	3984 (5)	1049 (5)
2-3-P	75	130	30.41	30.41	12.48	-1.52	64 (5)	3155 (5)	830 (5)
2-4-P	75	130	30.41	30.41	13.07	-11.51	68 (5)	3053 (5)	3327 (5)
2-5-P	75	130	30.41	30.41	5.08	-71.09	408 (5)	5287 (5)	20088 (5)
2-6-P	75	130	30.41	30.41	3.41	-117.18	674 (5)	8731 (5)	33170 (5)
2-7-P	75	130	30.41	30.41	6.16	-24.17	229 (8)	4299 (8)	11253 (8)
2-8-P	75	130	30.41	30.41	25.15	-2.41	125 (5)	6133 (5)	1614 (5)
2-9-P	75	130	30.41	30.41	41.26	0.00	208 (5)	10231 (5)	2693 (5)
2-10-P	75	130	30.41	30.41	47.97	0.00	238 (5)	11723 (5)	3086 (5)
2-11-P	75	130	30.41	30.41	50.00	0.00	247 (5)	12185 (5)	3207 (5)
2-12-P	75	130	30.41	30.41	45.02	0.00	225 (5)	11102 (5)	2922 (5)
2-13-P	75	130	30.41	30.41	31.81	-0.87	159 (5)	7851 (5)	2066 (5)
2-14-P	75	130	30.41	30.41	12.67	-11.93	77 (5)	3077 (5)	3813 (5)
2-15-P	75	130	30.41	30.41	4.49	-90.45	516 (5)	6682 (5)	25387 (5)
2-16-P	75	130	30.41	30.41	5.04	-73.65	418 (5)	5421 (5)	20595 (5)
2-17-P	75	130	30.41	30.41	24.44	-6.48	115 (5)	5650 (5)	1646 (5)
2-18-P	75	130	30.41	30.41	34.85	-0.31	175 (5)	8637 (5)	2273 (5)
2-19-P	75	130	30.41	30.41	46.69	0.00	233 (5)	11477 (5)	3021 (5)
2-20-P	75	130	30.41	30.41	52.21	0.00	258 (5)	12687 (5)	3339 (5)
2-21-P	75	130	30.41	30.41	48.80	0.00	242 (5)	11938 (5)	3142 (5)
2-22-P	75	130	30.41	30.41	40.96	0.00	206 (5)	10148 (5)	2671 (5)
2-23-P	75	130	30.41	30.41	26.94	-2.65	132 (5)	6523 (5)	1717 (5)
2-24-P	75	130	30.41	30.41	5.84	-31.82	301 (8)	4076 (8)	14814 (8)
2-25-P	75	130	30.41	30.41	3.18	-124.13	711 (5)	9216 (5)	35012 (5)
2-26-P	75	130	30.41	30.41	5.84	-31.82	301 (8)	4076 (8)	14814 (8)
2-27-P	75	130	30.41	30.41	26.94	-2.65	132 (5)	6523 (5)	1717 (5)
2-28-P	75	130	30.41	30.41	40.96	0.00	206 (5)	10148 (5)	2671 (5)
2-29-P	75	130	30.41	30.41	48.80	0.00	242 (5)	11938 (5)	3142 (5)
2-30-P	75	130	30.41	30.41	52.21	0.00	258 (5)	12687 (5)	3339 (5)
2-31-P	75	130	30.41	30.41	46.69	0.00	233 (5)	11477 (5)	3021 (5)
2-32-P	75	130	30.41	30.41	34.85	-0.31	175 (5)	8637 (5)	2273 (5)
2-33-P	75	130	30.41	30.41	24.44	-6.48	115 (5)	5650 (5)	1646 (5)
2-34-P	75	130	30.41	30.41	5.04	-73.65	418 (5)	5421 (5)	20595 (5)
2-35-P	75	130	30.41	30.41	4.49	-90.45	516 (5)	6682 (5)	25387 (5)
2-36-P	75	130	30.41	30.41	12.67	-11.93	77 (5)	3077 (5)	3813 (5)
2-37-P	75	130	30.41	30.41	31.81	-0.87	159 (5)	7851 (5)	2066 (5)
2-38-P	75	130	30.41	30.41	45.02	0.00	225 (5)	11102 (5)	2922 (5)
2-39-P	75	130	30.41	30.41	50.00	0.00	247 (5)	12185 (5)	3207 (5)
2-40-P	75	130	30.41	30.41	47.97	0.00	238 (5)	11723 (5)	3086 (5)
2-41-P	75	130	30.41	30.41	41.26	0.00	208 (5)	10231 (5)	2693 (5)
2-42-P	75	130	30.41	30.41	25.15	-2.41	125 (5)	6133 (5)	1614 (5)
2-43-P	75	130	30.41	30.41	6.16	-24.17	229 (8)	4299 (8)	11253 (8)
2-44-P	75	130	30.41	30.41	3.41	-117.18	674 (5)	8731 (5)	33170 (5)
2-45-P	75	130	30.41	30.41	5.08	-71.09	408 (5)	5287 (5)	20088 (5)
2-46-P	75	130	30.41	30.41	13.07	-11.51	68 (5)	3053 (5)	3327 (5)
2-47-P	75	130	30.41	30.41	12.48	-1.52	64 (5)	3155 (5)	830 (5)
2-48-P	75	130	30.41	30.41	16.03	0.00	81 (5)	3984 (5)	1049 (5)

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria: _____ Mandante: _____

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

Relazione di calcolo
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	74 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
2-49-P	75	130	30.41	30.41	18.20	0.00	88 (5)	4335 (5)	1141 (5)
5-1-P	92	130	38.01	38.01	0.00	-26.10	90 (5)	1164 (5)	4391 (5)
5-2-P	92	130	38.01	38.01	0.00	-37.18	128 (5)	1660 (5)	6262 (5)
5-3-P	92	130	38.01	38.01	0.00	-54.40	192 (5)	2493 (5)	9407 (5)
5-4-P	92	130	38.01	38.01	0.00	-80.85	293 (5)	3800 (5)	14338 (5)
5-5-P	92	130	38.01	38.01	0.00	-129.41	510 (5)	6613 (5)	24951 (5)
5-6-P	92	130	38.01	38.01	0.00	-164.29	665 (5)	8624 (5)	32538 (5)
5-7-P	92	130	38.01	38.01	0.00	-122.37	456 (5)	5920 (5)	22334 (5)
5-8-P	92	130	38.01	38.01	0.00	-99.27	343 (5)	4446 (5)	16775 (5)
5-9-P	92	130	38.01	38.01	0.00	-88.71	292 (5)	3794 (5)	14314 (5)
5-10-P	92	130	38.01	38.01	0.00	-89.25	291 (5)	3779 (5)	14260 (5)
5-11-P	92	130	38.01	38.01	0.00	-90.00	292 (5)	3792 (5)	14309 (5)
5-12-P	92	130	38.01	38.01	0.00	-91.08	297 (5)	3846 (5)	14511 (5)
5-13-P	92	130	38.01	38.01	0.00	-101.66	342 (5)	4438 (5)	16744 (5)
5-14-P	92	130	38.01	38.01	0.00	-121.27	431 (5)	5591 (5)	21094 (5)
5-15-P	92	130	38.01	38.01	0.00	-167.47	652 (5)	8451 (5)	31886 (5)
5-16-P	92	130	38.01	38.01	0.00	-158.30	607 (5)	7874 (5)	29710 (5)
5-17-P	92	130	38.01	38.01	0.00	-112.22	386 (5)	5006 (5)	18889 (5)
5-18-P	92	130	38.01	38.01	0.00	-99.49	330 (5)	4276 (5)	16134 (5)
5-19-P	92	130	38.01	38.01	0.00	-91.62	294 (5)	3819 (5)	14410 (5)
5-20-P	92	130	38.01	38.01	0.00	-91.06	291 (5)	3772 (5)	14230 (5)
5-21-P	93	130	38.01	38.01	0.00	-91.37	293 (5)	3796 (5)	14321 (5)
5-22-P	93	130	38.01	38.01	0.00	-94.34	306 (5)	3974 (5)	14995 (5)
5-23-P	93	130	38.01	38.01	0.00	-107.05	362 (5)	4699 (5)	17729 (5)
5-24-P	93	130	38.01	38.01	0.00	-139.79	517 (5)	6707 (5)	25305 (5)
5-25-P	93	130	38.01	38.01	0.00	-185.89	738 (5)	9570 (5)	36108 (5)
5-26-P	93	130	38.01	38.01	0.00	-139.79	517 (5)	6707 (5)	25305 (5)
5-27-P	93	130	38.01	38.01	0.00	-107.05	362 (5)	4699 (5)	17729 (5)
5-28-P	93	130	38.01	38.01	0.00	-94.34	306 (5)	3974 (5)	14995 (5)
5-29-P	93	130	38.01	38.01	0.00	-91.37	293 (5)	3796 (5)	14321 (5)
5-30-P	93	130	38.01	38.01	0.00	-91.06	291 (5)	3772 (5)	14230 (5)
5-31-P	93	130	38.01	38.01	0.00	-91.62	294 (5)	3819 (5)	14410 (5)
5-32-P	93	130	38.01	38.01	0.00	-99.49	330 (5)	4276 (5)	16134 (5)
5-33-P	93	130	38.01	38.01	0.00	-112.22	386 (5)	5006 (5)	18889 (5)
5-34-P	93	130	38.01	38.01	0.00	-158.30	607 (5)	7874 (5)	29710 (5)
5-35-P	93	130	38.01	38.01	0.00	-167.47	652 (5)	8451 (5)	31886 (5)
5-36-P	93	130	38.01	38.01	0.00	-121.27	431 (5)	5591 (5)	21094 (5)
5-37-P	93	130	38.01	38.01	0.00	-101.66	342 (5)	4438 (5)	16744 (5)
5-38-P	93	130	38.01	38.01	0.00	-91.08	297 (5)	3846 (5)	14511 (5)
5-39-P	93	130	38.01	38.01	0.00	-90.00	292 (5)	3792 (5)	14309 (5)
5-40-P	93	130	38.01	38.01	0.00	-89.25	291 (5)	3779 (5)	14260 (5)
5-41-P	93	130	38.01	38.01	0.00	-88.71	292 (5)	3794 (5)	14314 (5)
5-42-P	93	130	38.01	38.01	0.00	-99.27	343 (5)	4446 (5)	16775 (5)
5-43-P	93	130	38.01	38.01	0.00	-122.37	456 (5)	5920 (5)	22334 (5)
5-44-P	93	130	38.01	38.01	0.00	-164.29	665 (5)	8624 (5)	32538 (5)
5-45-P	93	130	38.01	38.01	0.00	-129.41	510 (5)	6613 (5)	24951 (5)
5-46-P	93	130	38.01	38.01	0.00	-80.85	293 (5)	3800 (5)	14338 (5)
5-47-P	93	130	38.01	38.01	0.00	-54.40	192 (5)	2493 (5)	9407 (5)
5-48-P	93	130	38.01	38.01	0.00	-37.18	128 (5)	1660 (5)	6262 (5)
5-49-P	93	130	38.01	38.01	0.00	-26.10	90 (5)	1164 (5)	4391 (5)
6-1-P	93	130	34.21	34.21	0.00	-2.45	10 (5)	134 (5)	533 (5)
6-2-P	93	130	34.21	34.21	0.00	-10.53	43 (5)	560 (5)	2231 (5)
6-3-P	93	130	34.21	34.21	0.00	-21.11	89 (5)	1145 (5)	4563 (5)
6-4-P	93	130	34.21	34.21	0.00	-35.43	153 (5)	1969 (5)	7846 (5)
6-5-P	93	130	34.21	34.21	0.00	-49.88	208 (5)	2680 (5)	10679 (5)
6-6-P	93	130	34.21	34.21	0.00	-60.22	244 (5)	3149 (5)	12552 (5)
6-7-P	93	130	34.21	34.21	0.00	-54.04	215 (5)	2769 (5)	11037 (5)
6-8-P	93	130	34.21	34.21	0.00	-47.26	177 (5)	2278 (5)	9078 (5)
6-9-P	93	130	34.21	34.21	0.00	-40.10	133 (5)	1713 (5)	6827 (5)
6-10-P	93	130	34.21	34.21	0.00	-36.78	113 (5)	1454 (5)	5795 (5)
6-11-P	93	130	34.21	34.21	0.00	-37.00	110 (5)	1421 (5)	5665 (5)
6-12-P	93	130	34.21	34.21	0.00	-42.52	134 (5)	1728 (5)	6888 (5)
6-13-P	93	130	34.21	34.21	0.00	-51.56	178 (5)	2300 (5)	9166 (5)
6-14-P	93	130	34.21	34.21	0.00	-61.48	226 (5)	2910 (5)	11599 (5)
6-15-P	93	130	34.21	34.21	0.00	-71.45	265 (5)	3411 (5)	13594 (5)
6-16-P	93	130	34.21	34.21	0.00	-69.69	256 (5)	3305 (5)	13172 (5)
6-17-P	93	130	34.21	34.21	0.00	-60.10	217 (5)	2795 (5)	11137 (5)
6-18-P	93	130	34.21	34.21	0.00	-50.72	167 (5)	2152 (5)	8578 (5)
6-19-P	93	130	34.21	34.21	0.00	-43.22	128 (5)	1648 (5)	6566 (5)
6-20-P	93	130	34.21	34.21	0.00	-38.53	105 (5)	1349 (5)	5376 (5)
6-21-P	93	130	34.21	34.21	0.00	-41.38	118 (5)	1521 (5)	6062 (5)
6-22-P	93	130	34.21	34.21	0.00	-47.05	146 (5)	1880 (5)	7492 (5)
6-23-P	93	130	34.21	34.21	0.00	-56.51	195 (5)	2514 (5)	10019 (5)
6-24-P	93	130	34.21	34.21	0.00	-66.13	238 (5)	3070 (5)	12235 (5)
6-25-P	93	130	34.21	34.21	0.00	-75.84	277 (5)	3574 (5)	14242 (5)
6-26-P	93	130	34.21	34.21	0.00	-66.13	238 (5)	3070 (5)	12235 (5)
6-27-P	93	130	34.21	34.21	0.00	-56.51	195 (5)	2514 (5)	10019 (5)
6-28-P	93	130	34.21	34.21	0.00	-47.05	146 (5)	1880 (5)	7492 (5)
6-29-P	93	130	34.21	34.21	0.00	-41.38	118 (5)	1521 (5)	6062 (5)
6-30-P	93	130	34.21	34.21	0.00	-38.53	105 (5)	1349 (5)	5376 (5)
6-31-P	93	130	34.21	34.21	0.00	-43.22	128 (5)	1648 (5)	6566 (5)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF2R

2.2.E.ZZ

CL

TR.16.0.5.003

A

75 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	σc [kPa]	σfi [kPa]	σfs [kPa]
6-32-P	93	130	34.21	34.21	0.00	-50.72	167 (5)	2152 (5)	8578 (5)
6-33-P	93	130	34.21	34.21	0.00	-60.10	217 (5)	2795 (5)	11137 (5)
6-34-P	93	130	34.21	34.21	0.00	-69.69	256 (5)	3305 (5)	13172 (5)
6-35-P	93	130	34.21	34.21	0.00	-71.45	265 (5)	3411 (5)	13594 (5)
6-36-P	93	130	34.21	34.21	0.00	-61.48	226 (5)	2910 (5)	11599 (5)
6-37-P	93	130	34.21	34.21	0.00	-51.56	178 (5)	2300 (5)	9166 (5)
6-38-P	93	130	34.21	34.21	0.00	-42.52	134 (5)	1728 (5)	6888 (5)
6-39-P	93	130	34.21	34.21	0.00	-37.00	110 (5)	1421 (5)	5665 (5)
6-40-P	93	130	34.21	34.21	0.00	-36.78	113 (5)	1454 (5)	5795 (5)
6-41-P	93	130	34.21	34.21	0.00	-40.10	133 (5)	1713 (5)	6827 (5)
6-42-P	93	130	34.21	34.21	0.00	-47.26	177 (5)	2278 (5)	9078 (5)
6-43-P	93	130	34.21	34.21	0.00	-54.04	215 (5)	2769 (5)	11037 (5)
6-44-P	93	130	34.21	34.21	0.00	-60.22	244 (5)	3149 (5)	12552 (5)
6-45-P	93	130	34.21	34.21	0.00	-49.88	208 (5)	2680 (5)	10679 (5)
6-46-P	93	130	34.21	34.21	0.00	-35.43	153 (5)	1969 (5)	7846 (5)
6-47-P	93	130	34.21	34.21	0.00	-21.11	89 (5)	1145 (5)	4563 (5)
6-48-P	93	130	34.21	34.21	0.00	-10.53	43 (5)	560 (5)	2231 (5)
6-49-P	93	130	34.21	34.21	0.00	-2.45	10 (5)	134 (5)	533 (5)
7-1-P	93	130	34.21	34.21	4.46	-4.03	20 (7)	1053 (7)	955 (7)
7-2-P	93	130	34.21	34.21	6.22	-6.25	30 (7)	1548 (7)	1399 (7)
7-3-P	93	130	34.21	34.21	6.91	-12.59	54 (7)	2191 (7)	2787 (7)
7-4-P	93	130	34.21	34.21	6.78	-25.90	114 (7)	1798 (7)	5869 (7)
7-5-P	93	130	34.21	34.21	2.45	-26.10	105 (7)	1354 (7)	5398 (7)
7-6-P	93	130	34.21	34.21	0.13	-24.71	91 (7)	1170 (7)	4661 (7)
7-7-P	93	130	34.21	34.21	1.85	-19.75	84 (7)	1089 (7)	4341 (7)
7-8-P	93	130	34.21	34.21	5.05	-10.47	50 (7)	1817 (7)	2586 (7)
7-9-P	93	130	34.21	34.21	14.24	-1.62	75 (6)	3857 (6)	968 (6)
7-10-P	93	130	34.21	34.21	14.60	-0.22	83 (6)	4269 (6)	1071 (6)
7-11-P	93	130	34.21	34.21	15.00	-0.15	71 (6)	3635 (6)	912 (6)
7-12-P	93	130	34.21	34.21	15.12	-1.76	84 (6)	4326 (6)	1085 (6)
7-13-P	93	130	34.21	34.21	10.65	-8.80	53 (6)	2734 (6)	2134 (6)
7-14-P	93	130	34.21	34.21	6.00	-17.79	86 (8)	1859 (8)	4410 (8)
7-15-P	93	130	34.21	34.21	0.34	-16.90	70 (7)	900 (7)	3585 (7)
7-16-P	93	130	34.21	34.21	0.56	-15.75	68 (7)	879 (7)	3503 (7)
7-17-P	93	130	34.21	34.21	10.07	-20.01	86 (5)	2160 (5)	4444 (5)
7-18-P	93	130	34.21	34.21	11.10	-6.04	58 (6)	3002 (6)	1387 (6)
7-19-P	93	130	34.21	34.21	15.39	-1.18	90 (6)	4624 (6)	1160 (6)
7-20-P	93	130	34.21	34.21	20.71	0.00	80 (7)	4119 (7)	1034 (7)
7-21-P	93	130	34.21	34.21	15.52	-0.57	75 (6)	3847 (6)	965 (6)
7-22-P	93	130	34.21	34.21	13.51	-2.61	77 (6)	3974 (6)	997 (6)
7-23-P	93	130	34.21	34.21	9.94	-13.11	60 (6)	2460 (6)	3064 (6)
7-24-P	93	130	34.21	34.21	2.86	-14.10	68 (8)	885 (8)	3496 (8)
7-25-P	93	130	34.21	34.21	0.11	-16.89	88 (7)	1137 (7)	4532 (7)
7-26-P	93	130	34.21	34.21	2.86	-14.10	68 (8)	885 (8)	3496 (8)
7-27-P	93	130	34.21	34.21	9.94	-13.11	60 (6)	2460 (6)	3064 (6)
7-28-P	93	130	34.21	34.21	13.51	-2.61	77 (6)	3974 (6)	997 (6)
7-29-P	93	130	34.21	34.21	15.52	-0.57	75 (6)	3847 (6)	965 (6)
7-30-P	93	130	34.21	34.21	20.71	0.00	80 (7)	4119 (7)	1034 (7)
7-31-P	93	130	34.21	34.21	15.39	-1.18	90 (6)	4624 (6)	1160 (6)
7-32-P	93	130	34.21	34.21	11.10	-6.04	58 (6)	3002 (6)	1387 (6)
7-33-P	93	130	34.21	34.21	10.07	-20.01	86 (5)	2160 (5)	4444 (5)
7-34-P	93	130	34.21	34.21	0.56	-15.75	68 (7)	879 (7)	3503 (7)
7-35-P	93	130	34.21	34.21	0.34	-16.90	70 (7)	900 (7)	3585 (7)
7-36-P	93	130	34.21	34.21	6.00	-17.79	86 (8)	1859 (8)	4410 (8)
7-37-P	93	130	34.21	34.21	10.65	-8.80	53 (6)	2734 (6)	2134 (6)
7-38-P	93	130	34.21	34.21	15.12	-1.76	84 (6)	4326 (6)	1085 (6)
7-39-P	93	130	34.21	34.21	15.00	-0.15	71 (6)	3635 (6)	912 (6)
7-40-P	93	130	34.21	34.21	14.60	-0.22	83 (6)	4269 (6)	1071 (6)
7-41-P	93	130	34.21	34.21	14.24	-1.62	75 (6)	3857 (6)	968 (6)
7-42-P	93	130	34.21	34.21	5.05	-10.47	50 (7)	1817 (7)	2586 (7)
7-43-P	93	130	34.21	34.21	1.85	-19.75	84 (7)	1089 (7)	4341 (7)
7-44-P	93	130	34.21	34.21	0.13	-24.71	91 (7)	1170 (7)	4661 (7)
7-45-P	93	130	34.21	34.21	2.45	-26.10	105 (7)	1354 (7)	5398 (7)
7-46-P	93	130	34.21	34.21	6.78	-25.90	114 (7)	1798 (7)	5869 (7)
7-47-P	93	130	34.21	34.21	6.91	-12.59	54 (7)	2191 (7)	2787 (7)
7-48-P	93	130	34.21	34.21	6.22	-6.25	30 (7)	1548 (7)	1399 (7)
7-49-P	93	130	34.21	34.21	4.46	-4.03	20 (7)	1053 (7)	955 (7)
8-1-P	92	130	38.01	38.01	2.10	-2.46	8 (5)	400 (5)	355 (5)
8-2-P	92	130	38.01	38.01	2.56	-5.28	23 (6)	473 (6)	1135 (6)
8-3-P	92	130	38.01	38.01	3.74	-12.95	55 (7)	1055 (7)	2668 (7)
8-4-P	92	130	38.01	38.01	7.90	-25.48	106 (7)	2268 (7)	5197 (7)
8-5-P	92	130	38.01	38.01	0.00	-49.71	189 (7)	2455 (7)	9264 (7)
8-6-P	92	130	38.01	38.01	0.00	-70.82	275 (7)	3571 (7)	13474 (7)
8-7-P	92	130	38.01	38.01	0.87	-30.03	116 (7)	1509 (7)	5693 (7)
8-8-P	92	130	38.01	38.01	13.36	-12.89	54 (6)	2147 (6)	2648 (6)
8-9-P	92	130	38.01	38.01	8.69	-2.83	37 (5)	1802 (5)	478 (5)
8-10-P	92	130	38.01	38.01	14.01	0.00	59 (7)	2894 (7)	767 (7)
8-11-P	92	130	38.01	38.01	16.23	0.00	67 (7)	3300 (7)	875 (7)
8-12-P	92	130	38.01	38.01	11.55	-0.14	49 (7)	2388 (7)	633 (7)
8-13-P	92	130	38.01	38.01	16.04	-10.22	52 (5)	2549 (5)	1770 (5)
8-14-P	92	130	38.01	38.01	14.70	-19.89	86 (6)	2051 (6)	4204 (6)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF2R

2.2.E.ZZ

CL

TR.16.0.5.003

A

76 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
8-15-P	92	130	38.01	38.01	0.00	-52.37	205 (7)	2662 (7)	10043 (7)
8-16-P	92	130	38.01	38.01	0.00	-43.98	172 (7)	2225 (7)	8395 (7)
8-17-P	92	130	38.01	38.01	23.66	-18.93	74 (5)	3262 (5)	3615 (5)
8-18-P	92	130	38.01	38.01	13.70	-8.04	51 (5)	2494 (5)	1051 (5)
8-19-P	92	130	38.01	38.01	15.91	0.00	61 (7)	2986 (7)	791 (7)
8-20-P	92	130	38.01	38.01	21.85	0.00	85 (7)	4149 (7)	1100 (7)
8-21-P	92	130	38.01	38.01	18.60	0.00	71 (7)	3490 (7)	925 (7)
8-22-P	92	130	38.01	38.01	12.32	-0.24	50 (7)	2434 (7)	645 (7)
8-23-P	92	130	38.01	38.01	19.61	-14.82	62 (5)	3012 (5)	2509 (5)
8-24-P	92	130	38.01	38.01	0.00	-26.64	107 (7)	1386 (7)	5228 (7)
8-25-P	92	130	38.01	38.01	0.00	-66.07	265 (7)	3431 (7)	12947 (7)
8-26-P	92	130	38.01	38.01	0.00	-26.64	107 (7)	1386 (7)	5228 (7)
8-27-P	92	130	38.01	38.01	19.61	-14.82	62 (5)	3012 (5)	2509 (5)
8-28-P	92	130	38.01	38.01	12.32	-0.24	50 (7)	2434 (7)	645 (7)
8-29-P	92	130	38.01	38.01	18.60	0.00	71 (7)	3490 (7)	925 (7)
8-30-P	92	130	38.01	38.01	21.85	0.00	85 (7)	4149 (7)	1100 (7)
8-31-P	92	130	38.01	38.01	15.91	0.00	61 (7)	2986 (7)	791 (7)
8-32-P	92	130	38.01	38.01	13.70	-8.04	51 (5)	2494 (5)	1051 (5)
8-33-P	92	130	38.01	38.01	23.66	-18.93	74 (5)	3262 (5)	3615 (5)
8-34-P	92	130	38.01	38.01	0.00	-43.98	172 (7)	2225 (7)	8395 (7)
8-35-P	92	130	38.01	38.01	0.00	-52.37	205 (7)	2662 (7)	10043 (7)
8-36-P	92	130	38.01	38.01	14.70	-19.89	86 (6)	2051 (6)	4204 (6)
8-37-P	92	130	38.01	38.01	16.04	-10.22	52 (5)	2549 (5)	1770 (5)
8-38-P	92	130	38.01	38.01	11.55	-0.14	49 (7)	2388 (7)	633 (7)
8-39-P	92	130	38.01	38.01	16.23	0.00	67 (7)	3300 (7)	875 (7)
8-40-P	92	130	38.01	38.01	14.01	0.00	59 (7)	2894 (7)	767 (7)
8-41-P	92	130	38.01	38.01	8.69	-2.83	37 (5)	1802 (5)	478 (5)
8-42-P	92	130	38.01	38.01	13.36	-12.89	54 (6)	2147 (6)	2648 (6)
8-43-P	92	130	38.01	38.01	0.87	-30.03	116 (7)	1509 (7)	5693 (7)
8-44-P	92	130	38.01	38.01	0.00	-70.82	275 (7)	3571 (7)	13474 (7)
8-45-P	92	130	38.01	38.01	0.00	-49.71	189 (7)	2455 (7)	9264 (7)
8-46-P	92	130	38.01	38.01	7.90	-25.48	106 (7)	2268 (7)	5197 (7)
8-47-P	92	130	38.01	38.01	3.74	-12.95	55 (7)	1055 (7)	2668 (7)
8-48-P	92	130	38.01	38.01	2.56	-5.28	23 (6)	473 (6)	1135 (6)
8-49-P	92	130	38.01	38.01	2.10	-2.46	8 (5)	400 (5)	355 (5)
9-1-S	100	130	38.01	38.01	3.34	-13.96	57 (5)	2888 (5)	2348 (5)
9-2-S	100	130	38.01	38.01	0.31	-23.45	78 (5)	1010 (5)	3968 (5)
9-3-S	100	130	38.01	38.01	0.74	-31.53	130 (5)	1673 (5)	6571 (5)
9-4-S	100	130	38.01	38.01	7.83	-38.94	210 (5)	2708 (5)	10639 (5)
9-5-S	100	130	38.01	38.01	32.06	-15.93	170 (5)	8646 (5)	3842 (5)
9-6-S	100	130	38.01	38.01	95.38	-0.35	386 (5)	19596 (5)	4988 (5)
9-7-S	100	130	38.01	38.01	203.58	0.00	782 (5)	39687 (5)	10102 (5)
9-8-S	100	130	38.01	38.01	0.00	-487.10	1682 (5)	21724 (5)	85347 (5)
9-9-S	100	130	38.01	38.01	0.00	-439.40	1515 (5)	19568 (5)	76879 (5)
9-10-S	100	130	38.01	38.01	0.00	-412.36	1412 (5)	18231 (5)	71626 (5)
9-11-S	100	130	38.01	38.01	0.00	-356.33	1198 (5)	15471 (5)	60780 (5)
9-12-S	100	130	38.01	38.01	0.00	-294.31	965 (5)	12457 (5)	48942 (5)
9-13-S	100	130	38.01	38.01	0.00	-222.77	701 (5)	9052 (5)	35561 (5)
9-14-S	100	130	38.01	38.01	0.00	-157.05	471 (5)	6080 (5)	23887 (5)
9-15-S	100	130	38.01	38.01	0.00	-95.15	261 (5)	3366 (5)	13225 (5)
9-16-S	100	130	38.01	38.01	0.20	-47.26	118 (5)	1520 (5)	5971 (5)
9-17-S	100	130	38.01	38.01	14.97	-8.22	57 (7)	2395 (7)	2895 (7)
9-18-S	100	130	38.01	38.01	24.52	-7.16	80 (6)	4074 (6)	1869 (6)
9-19-S	100	130	38.01	38.01	17.38	-9.67	76 (8)	3880 (8)	2159 (8)
9-20-S	100	130	38.01	38.01	27.93	-11.95	70 (5)	3529 (5)	2660 (5)
9-21-S	100	130	38.01	38.01	18.36	-8.18	52 (5)	2644 (5)	1702 (5)
9-22-S	100	130	38.01	38.01	11.00	-5.19	41 (6)	2057 (6)	1069 (6)
9-23-S	100	130	38.01	38.01	11.20	-3.63	31 (5)	1598 (5)	483 (5)
10-1-S	100	130	38.01	38.01	22.92	-9.35	76 (5)	3859 (5)	1555 (5)
10-2-S	100	130	38.01	38.01	44.11	-21.69	199 (5)	10101 (5)	3708 (5)
10-3-S	100	130	38.01	38.01	8.18	-30.64	103 (5)	1326 (5)	5211 (5)
10-4-S	100	130	38.01	38.01	5.22	-153.41	534 (5)	6901 (5)	27113 (5)
10-5-S	100	130	38.01	38.01	13.87	-101.69	397 (5)	7484 (5)	20146 (5)
10-6-S	100	130	38.01	38.01	56.17	-12.19	245 (5)	12451 (5)	3169 (5)
10-7-S	100	130	38.01	38.01	213.19	0.00	850 (5)	43111 (5)	10973 (5)
10-8-S	100	130	38.01	38.01	0.00	-365.83	1240 (5)	16013 (5)	62913 (5)
10-9-S	100	130	38.01	38.01	0.00	-332.33	1165 (5)	15046 (5)	59110 (5)
10-10-S	100	130	38.01	38.01	0.00	-468.12	1652 (5)	21335 (5)	83821 (5)
10-11-S	100	130	38.01	38.01	0.00	-420.18	1421 (5)	18344 (5)	72068 (5)
10-12-S	100	130	38.01	38.01	0.00	-349.76	1130 (5)	14594 (5)	57336 (5)
10-13-S	100	130	38.01	38.01	0.00	-247.37	769 (5)	9926 (5)	38995 (5)
10-14-S	100	130	38.01	38.01	0.00	-163.86	483 (5)	6236 (5)	24501 (5)
10-15-S	100	130	38.01	38.01	0.00	-88.99	233 (5)	3005 (5)	11805 (5)
10-16-S	100	130	38.01	38.01	8.37	-3.98	52 (7)	1188 (7)	2649 (7)
10-17-S	100	130	38.01	38.01	41.00	-3.50	141 (6)	7138 (6)	1817 (6)
10-18-S	100	130	38.01	38.01	88.49	-3.90	285 (5)	14468 (5)	3683 (5)
10-19-S	100	130	38.01	38.01	52.05	-7.06	102 (5)	5167 (5)	1685 (5)
10-20-S	100	130	38.01	38.01	7.03	-44.04	170 (7)	3565 (7)	8648 (7)
10-21-S	100	130	38.01	38.01	12.00	-47.98	182 (5)	2936 (5)	9252 (5)
10-22-S	100	130	38.01	38.01	6.45	-36.59	131 (6)	2243 (6)	6663 (6)
10-23-S	100	130	38.01	38.01	6.70	-14.81	39 (5)	1518 (5)	2003 (5)

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
IF2R 2.2.E.ZZ CL TR.16.0.5.003 A 77 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
11-1-S	100	130	38.01	38.01	1.26	-17.35	59 (5)	762 (5)	2995 (5)
11-2-S	100	130	38.01	38.01	2.03	-17.93	57 (5)	732 (5)	2876 (5)
11-3-S	100	130	38.01	38.01	3.37	-10.20	47 (5)	847 (5)	2370 (5)
11-4-S	100	130	38.01	38.01	18.51	-0.92	81 (8)	4131 (8)	1052 (8)
11-5-S	100	130	38.01	38.01	66.42	0.00	269 (5)	13634 (5)	3470 (5)
11-6-S	100	130	38.01	38.01	134.10	0.00	518 (5)	26286 (5)	6691 (5)
11-7-S	100	130	38.01	38.01	216.33	0.00	816 (5)	41397 (5)	10537 (5)
11-8-S	100	130	38.01	38.01	0.00	-548.92	1862 (5)	24041 (5)	94450 (5)
11-9-S	100	130	38.01	38.01	0.00	-471.66	1584 (5)	20454 (5)	80358 (5)
11-10-S	100	130	38.01	38.01	0.00	-412.21	1372 (5)	17715 (5)	69596 (5)
11-11-S	100	130	38.01	38.01	0.00	-349.35	1146 (5)	14805 (5)	58164 (5)
11-12-S	100	130	38.01	38.01	0.00	-285.13	917 (5)	11845 (5)	46535 (5)
11-13-S	100	130	38.01	38.01	0.00	-218.54	681 (5)	8800 (5)	34574 (5)
11-14-S	100	130	38.01	38.01	0.00	-157.44	471 (5)	6087 (5)	23915 (5)
11-15-S	100	130	38.01	38.01	0.00	-100.15	278 (5)	3595 (5)	14124 (5)
11-16-S	100	130	38.01	38.01	0.00	-57.44	148 (5)	1912 (5)	7514 (5)
11-17-S	100	130	38.01	38.01	0.80	-23.84	55 (5)	709 (5)	2784 (5)
11-18-S	100	130	38.01	38.01	10.05	-0.94	24 (7)	1240 (7)	830 (7)
11-19-S	100	130	38.01	38.01	10.25	-1.09	45 (8)	2288 (8)	1219 (8)
11-20-S	100	130	38.01	38.01	19.30	-0.97	54 (5)	2722 (5)	1014 (5)
11-21-S	100	130	38.01	38.01	16.37	-0.74	43 (5)	2179 (5)	723 (5)
11-22-S	100	130	38.01	38.01	12.75	-0.95	31 (5)	1574 (5)	502 (5)
11-23-S	100	130	38.01	38.01	8.28	-0.99	20 (5)	1018 (5)	259 (5)
12-1-S	100	130	38.01	38.01	28.08	-6.11	94 (5)	4767 (5)	1213 (5)
12-2-S	100	130	38.01	38.01	47.42	-18.29	214 (5)	10852 (5)	3164 (5)
12-3-S	100	130	38.01	38.01	8.43	-33.49	116 (5)	1498 (5)	5883 (5)
12-4-S	100	130	38.01	38.01	3.50	-174.11	610 (5)	7872 (5)	30927 (5)
12-5-S	100	130	38.01	38.01	4.22	-112.63	435 (5)	5618 (5)	22073 (5)
12-6-S	100	130	38.01	38.01	42.44	-10.45	206 (5)	10471 (5)	2665 (5)
12-7-S	100	130	38.01	38.01	211.74	0.00	852 (5)	43221 (5)	11001 (5)
12-8-S	100	130	38.01	38.01	0.00	-335.14	1114 (5)	14385 (5)	56516 (5)
12-9-S	100	130	38.01	38.01	0.00	-316.51	1100 (5)	14207 (5)	55817 (5)
12-10-S	100	130	38.01	38.01	0.00	-479.26	1687 (5)	21783 (5)	85579 (5)
12-11-S	100	130	38.01	38.01	0.00	-433.37	1457 (5)	18815 (5)	73917 (5)
12-12-S	100	130	38.01	38.01	0.00	-361.86	1160 (5)	14975 (5)	58831 (5)
12-13-S	100	130	38.01	38.01	0.00	-253.83	780 (5)	10070 (5)	39562 (5)
12-14-S	100	130	38.01	38.01	0.00	-166.53	483 (5)	6243 (5)	24526 (5)
12-15-S	100	130	38.01	38.01	0.00	-88.45	225 (5)	2904 (5)	11408 (5)
12-16-S	100	130	38.01	38.01	11.26	-2.37	31 (7)	873 (7)	1586 (7)
12-17-S	100	130	38.01	38.01	47.16	-2.39	163 (6)	8282 (6)	2108 (6)
12-18-S	100	130	38.01	38.01	99.35	-3.76	321 (5)	16265 (5)	4140 (5)
12-19-S	100	130	38.01	38.01	57.92	-8.97	115 (5)	5836 (5)	2177 (5)
12-20-S	100	130	38.01	38.01	6.91	-51.12	199 (7)	3675 (7)	10080 (7)
12-21-S	100	130	38.01	38.01	3.22	-46.07	203 (8)	3595 (8)	10286 (8)
12-22-S	100	130	38.01	38.01	5.66	-45.19	145 (5)	2530 (5)	7377 (5)
12-23-S	100	130	38.01	38.01	4.53	-14.08	45 (6)	1284 (6)	2275 (6)
13-1-S	100	130	38.01	38.01	2.73	-15.76	53 (5)	684 (5)	2688 (5)
13-2-S	100	130	38.01	38.01	1.41	-23.88	78 (5)	1002 (5)	3936 (5)
13-3-S	100	130	38.01	38.01	3.16	-21.96	115 (5)	1488 (5)	5847 (5)
13-4-S	100	130	38.01	38.01	17.49	-12.96	88 (5)	3733 (5)	4482 (5)
13-5-S	100	130	38.01	38.01	55.20	-0.61	227 (5)	11492 (5)	2925 (5)
13-6-S	100	130	38.01	38.01	124.46	0.00	485 (5)	24595 (5)	6260 (5)
13-7-S	100	130	38.01	38.01	214.04	0.00	812 (5)	41188 (5)	10484 (5)
13-8-S	100	130	38.01	38.01	0.00	-531.72	1794 (5)	23168 (5)	91019 (5)
13-9-S	100	130	38.01	38.01	0.00	-473.97	1589 (5)	20515 (5)	80596 (5)
13-10-S	100	130	38.01	38.01	0.00	-413.98	1374 (5)	17743 (5)	69709 (5)
13-11-S	100	130	38.01	38.01	0.00	-352.40	1154 (5)	14907 (5)	58567 (5)
13-12-S	100	130	38.01	38.01	0.00	-288.77	927 (5)	11970 (5)	47026 (5)
13-13-S	100	130	38.01	38.01	0.00	-221.44	685 (5)	8847 (5)	34756 (5)
13-14-S	100	130	38.01	38.01	0.00	-158.76	469 (5)	6062 (5)	23816 (5)
13-15-S	100	130	38.01	38.01	0.00	-99.51	271 (5)	3499 (5)	13746 (5)
13-16-S	100	130	38.01	38.01	0.00	-54.48	134 (5)	1729 (5)	6791 (5)
13-17-S	100	130	38.01	38.01	1.82	-22.17	50 (5)	647 (5)	2540 (5)
13-18-S	100	130	38.01	38.01	6.65	-3.67	40 (8)	1486 (8)	2046 (8)
13-19-S	100	130	38.01	38.01	18.41	-4.14	55 (6)	2770 (6)	2443 (6)
13-20-S	100	130	38.01	38.01	24.19	-5.15	66 (5)	3358 (5)	2460 (5)
13-21-S	100	130	38.01	38.01	19.54	-2.46	49 (5)	2473 (5)	1224 (5)
13-22-S	100	130	38.01	38.01	14.50	-1.68	35 (5)	1757 (5)	661 (5)
13-23-S	100	130	38.01	38.01	8.94	-1.78	22 (5)	1140 (5)	332 (5)
14-1-S	100	130	41.81	41.81	15.88	-14.54	51 (5)	2455 (5)	2239 (5)
14-2-S	100	130	41.81	41.81	24.98	-25.50	95 (5)	4593 (5)	3930 (5)
14-3-S	100	130	41.81	41.81	6.10	-32.33	101 (5)	1312 (5)	4906 (5)
14-4-S	100	130	41.81	41.81	7.41	-95.57	389 (5)	5054 (5)	18900 (5)
14-5-S	100	130	41.81	41.81	24.41	-40.16	420 (8)	8269 (8)	20405 (8)
14-6-S	100	130	41.81	41.81	80.38	-5.74	317 (5)	15390 (5)	4116 (5)
14-7-S	100	130	41.81	41.81	213.14	0.00	793 (5)	38491 (5)	10293 (5)
14-8-S	100	130	41.81	41.81	0.00	-430.54	1372 (5)	17818 (5)	66628 (5)
14-9-S	100	130	41.81	41.81	0.00	-394.20	1275 (5)	16559 (5)	61921 (5)
14-10-S	100	130	41.81	41.81	0.00	-446.45	1455 (5)	18896 (5)	70659 (5)
14-11-S	100	130	41.81	41.81	0.00	-393.54	1244 (5)	16153 (5)	60401 (5)
14-12-S	100	130	41.81	41.81	0.00	-326.35	995 (5)	12922 (5)	48319 (5)

APPALTATORE:	TELESE S.c.a r.l. <small>Consorzio Telese Società Consortile a Responsabilità Limitata</small>		
PROGETTAZIONE:			
Mandataria:	Mandante:		
SYSTRA S.A.	SWS Engineering S.p.A.	SYSTRA-SOTECNI S.p.A.	
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX			

ITINERARIO NAPOLI – BARI					
RADDOPPIO TRATTA CANCELLO-BENEVENTO					
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO					
2° SUBLOTTO TELESE – SAN LORENZO					
PROGETTO ESECUTIVO					
COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	78 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
14-13-S	100	130	41.81	41.81	0.00	-238.27	697 (5)	9054 (5)	33855 (5)
14-14-S	100	130	41.81	41.81	0.00	-162.71	452 (5)	5862 (5)	21921 (5)
14-15-S	100	130	41.81	41.81	0.00	-93.51	232 (5)	3015 (5)	11273 (5)
14-16-S	100	130	41.81	41.81	0.00	-38.33	75 (5)	976 (5)	3651 (5)
14-17-S	100	130	41.81	41.81	25.96	-6.88	86 (6)	4153 (6)	1420 (6)
14-18-S	100	130	41.81	41.81	54.27	-5.12	169 (5)	8199 (5)	2193 (5)
14-19-S	100	130	41.81	41.81	38.71	-7.51	82 (5)	3988 (5)	2013 (5)
14-20-S	100	130	41.81	41.81	10.26	-27.82	132 (7)	3205 (7)	6385 (7)
14-21-S	100	130	41.81	41.81	15.38	-28.08	127 (5)	2464 (5)	6189 (5)
14-22-S	100	130	41.81	41.81	11.40	-23.83	90 (5)	1889 (5)	4388 (5)
14-23-S	100	130	41.81	41.81	7.57	-7.96	28 (6)	1378 (6)	1150 (6)
15-1-S	100	130	38.01	38.01	15.88	-14.54	53 (5)	2696 (5)	2459 (5)
15-2-S	100	130	38.01	38.01	24.98	-25.50	99 (5)	5045 (5)	4317 (5)
15-3-S	100	130	38.01	38.01	6.10	-32.33	106 (5)	1372 (5)	5389 (5)
15-4-S	100	130	38.01	38.01	7.41	-95.57	409 (5)	5284 (5)	20760 (5)
15-5-S	100	130	38.01	38.01	24.41	-40.16	442 (8)	9083 (8)	22413 (8)
15-6-S	100	130	38.01	38.01	80.38	-5.74	333 (5)	16904 (5)	4303 (5)
15-7-S	100	130	38.01	38.01	213.14	0.00	833 (5)	42279 (5)	10761 (5)
15-8-S	100	130	38.01	38.01	0.00	-430.54	1443 (5)	18628 (5)	73186 (5)
15-9-S	100	130	38.01	38.01	0.00	-394.20	1341 (5)	17312 (5)	68015 (5)
15-10-S	100	130	38.01	38.01	0.00	-446.45	1530 (5)	19755 (5)	77613 (5)
15-11-S	100	130	38.01	38.01	0.00	-393.54	1308 (5)	16687 (5)	66346 (5)
15-12-S	100	130	38.01	38.01	0.00	-326.35	1046 (5)	13509 (5)	53074 (5)
15-13-S	100	130	38.01	38.01	0.00	-238.27	733 (5)	9465 (5)	37187 (5)
15-14-S	100	130	38.01	38.01	0.00	-162.71	475 (5)	6129 (5)	24078 (5)
15-15-S	100	130	38.01	38.01	0.00	-93.51	244 (5)	3152 (5)	12382 (5)
15-16-S	100	130	38.01	38.01	0.00	-38.33	79 (5)	1021 (5)	4011 (5)
15-17-S	100	130	38.01	38.01	25.96	-6.88	90 (6)	4562 (6)	1559 (6)
15-18-S	100	130	38.01	38.01	54.27	-5.12	178 (5)	9006 (5)	2292 (5)
15-19-S	100	130	38.01	38.01	19.62	-7.55	86 (8)	4381 (8)	2211 (8)
15-20-S	100	130	38.01	38.01	10.26	-27.82	138 (7)	3520 (7)	7014 (7)
15-21-S	100	130	38.01	38.01	15.38	-28.08	134 (5)	2707 (5)	6799 (5)
15-22-S	100	130	38.01	38.01	11.40	-23.83	95 (5)	2075 (5)	4820 (5)
15-23-S	100	130	38.01	38.01	7.57	-7.96	30 (6)	1514 (6)	1263 (6)
16-1-S	100	130	38.01	38.01	2.73	-15.76	53 (5)	684 (5)	2688 (5)
16-2-S	100	130	38.01	38.01	1.41	-23.88	78 (5)	1002 (5)	3936 (5)
16-3-S	100	130	38.01	38.01	3.16	-21.96	115 (5)	1488 (5)	5847 (5)
16-4-S	100	130	38.01	38.01	17.49	-12.96	88 (5)	3733 (5)	4482 (5)
16-5-S	100	130	38.01	38.01	55.20	-0.61	227 (5)	11492 (5)	2925 (5)
16-6-S	100	130	38.01	38.01	124.46	0.00	485 (5)	24595 (5)	6260 (5)
16-7-S	100	130	38.01	38.01	214.04	0.00	812 (5)	41188 (5)	10484 (5)
16-8-S	100	130	38.01	38.01	0.00	-531.72	1794 (5)	23168 (5)	91019 (5)
16-9-S	100	130	38.01	38.01	0.00	-473.97	1589 (5)	20515 (5)	80596 (5)
16-10-S	100	130	38.01	38.01	0.00	-413.98	1374 (5)	17743 (5)	69709 (5)
16-11-S	100	130	38.01	38.01	0.00	-352.40	1154 (5)	14907 (5)	58567 (5)
16-12-S	100	130	38.01	38.01	0.00	-288.77	927 (5)	11970 (5)	47026 (5)
16-13-S	100	130	38.01	38.01	0.00	-221.44	685 (5)	8847 (5)	34756 (5)
16-14-S	100	130	38.01	38.01	0.00	-158.76	469 (5)	6062 (5)	23816 (5)
16-15-S	100	130	38.01	38.01	0.00	-99.51	271 (5)	3499 (5)	13746 (5)
16-16-S	100	130	38.01	38.01	0.00	-54.48	134 (5)	1729 (5)	6791 (5)
16-17-S	100	130	38.01	38.01	1.82	-22.17	50 (5)	647 (5)	2540 (5)
16-18-S	100	130	38.01	38.01	6.65	-3.67	40 (8)	1486 (8)	2046 (8)
16-19-S	100	130	38.01	38.01	18.41	-4.14	55 (6)	2770 (6)	2443 (6)
16-20-S	100	130	38.01	38.01	24.19	-5.15	66 (5)	3358 (5)	2460 (5)
16-21-S	100	130	38.01	38.01	19.54	-2.46	49 (5)	2473 (5)	1224 (5)
16-22-S	100	130	38.01	38.01	14.50	-1.68	35 (5)	1757 (5)	661 (5)
16-23-S	100	130	38.01	38.01	8.94	-1.78	22 (5)	1140 (5)	332 (5)
17-1-S	100	130	38.01	38.01	28.08	-6.11	94 (5)	4767 (5)	1213 (5)
17-2-S	100	130	38.01	38.01	47.42	-18.29	214 (5)	10852 (5)	3164 (5)
17-3-S	100	130	38.01	38.01	8.43	-33.49	116 (5)	1498 (5)	5883 (5)
17-4-S	100	130	38.01	38.01	3.50	-174.11	610 (5)	7872 (5)	30927 (5)
17-5-S	100	130	38.01	38.01	4.22	-112.63	435 (5)	5618 (5)	22073 (5)
17-6-S	100	130	38.01	38.01	42.44	-10.45	206 (5)	10471 (5)	2665 (5)
17-7-S	100	130	38.01	38.01	211.74	0.00	852 (5)	43221 (5)	11001 (5)
17-8-S	100	130	38.01	38.01	0.00	-335.14	1114 (5)	14385 (5)	56516 (5)
17-9-S	100	130	38.01	38.01	0.00	-316.51	1100 (5)	14207 (5)	55817 (5)
17-10-S	100	130	38.01	38.01	0.00	-479.26	1687 (5)	21783 (5)	85579 (5)
17-11-S	100	130	38.01	38.01	0.00	-433.37	1457 (5)	18815 (5)	73917 (5)
17-12-S	100	130	38.01	38.01	0.00	-361.86	1160 (5)	14975 (5)	58831 (5)
17-13-S	100	130	38.01	38.01	0.00	-253.83	780 (5)	10070 (5)	39562 (5)
17-14-S	100	130	38.01	38.01	0.00	-166.53	483 (5)	6243 (5)	24526 (5)
17-15-S	100	130	38.01	38.01	0.00	-88.45	225 (5)	2904 (5)	11408 (5)
17-16-S	100	130	38.01	38.01	11.26	-2.37	31 (7)	873 (7)	1586 (7)
17-17-S	100	130	38.01	38.01	47.16	-2.39	163 (6)	8282 (6)	2108 (6)
17-18-S	100	130	38.01	38.01	99.35	-3.76	321 (5)	16265 (5)	4140 (5)
17-19-S	100	130	38.01	38.01	57.92	-8.97	115 (5)	5836 (5)	2177 (5)
17-20-S	100	130	38.01	38.01	6.91	-51.12	199 (7)	3675 (7)	10080 (7)
17-21-S	100	130	38.01	38.01	3.22	-46.07	203 (8)	3595 (8)	10286 (8)
17-22-S	100	130	38.01	38.01	5.66	-45.19	145 (5)	2530 (5)	7377 (5)
17-23-S	100	130	38.01	38.01	4.53	-14.08	45 (6)	1284 (6)	2275 (6)
18-1-S	100	130	38.01	38.01	1.26	-17.35	59 (5)	762 (5)	2995 (5)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	79 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	σc [kPa]	σfi [kPa]	σfs [kPa]
18-2-S	100	130	38.01	38.01	2.03	-17.93	57 (5)	732 (5)	2876 (5)
18-3-S	100	130	38.01	38.01	3.37	-10.20	47 (5)	847 (5)	2370 (5)
18-4-S	100	130	38.01	38.01	18.51	-0.92	81 (8)	4131 (8)	1052 (8)
18-5-S	100	130	38.01	38.01	66.42	0.00	269 (5)	13634 (5)	3470 (5)
18-6-S	100	130	38.01	38.01	134.10	0.00	518 (5)	26286 (5)	6691 (5)
18-7-S	100	130	38.01	38.01	216.33	0.00	816 (5)	41397 (5)	10537 (5)
18-8-S	100	130	38.01	38.01	0.00	-548.92	1862 (5)	24041 (5)	94450 (5)
18-9-S	100	130	38.01	38.01	0.00	-471.66	1584 (5)	20454 (5)	80358 (5)
18-10-S	100	130	38.01	38.01	0.00	-412.21	1372 (5)	17715 (5)	69596 (5)
18-11-S	100	130	38.01	38.01	0.00	-349.35	1146 (5)	14805 (5)	58164 (5)
18-12-S	100	130	38.01	38.01	0.00	-285.13	917 (5)	11845 (5)	46535 (5)
18-13-S	100	130	38.01	38.01	0.00	-218.54	681 (5)	8800 (5)	34574 (5)
18-14-S	100	130	38.01	38.01	0.00	-157.44	471 (5)	6087 (5)	23915 (5)
18-15-S	100	130	38.01	38.01	0.00	-100.15	278 (5)	3595 (5)	14124 (5)
18-16-S	100	130	38.01	38.01	0.00	-57.44	148 (5)	1912 (5)	7514 (5)
18-17-S	100	130	38.01	38.01	0.80	-23.84	55 (5)	709 (5)	2784 (5)
18-18-S	100	130	38.01	38.01	10.05	-0.94	24 (7)	1240 (7)	830 (7)
18-19-S	100	130	38.01	38.01	10.25	-1.09	45 (8)	2288 (8)	1219 (8)
18-20-S	100	130	38.01	38.01	19.30	-0.97	54 (5)	2722 (5)	1014 (5)
18-21-S	100	130	38.01	38.01	16.37	-0.74	43 (5)	2179 (5)	723 (5)
18-22-S	100	130	38.01	38.01	12.75	-0.95	31 (5)	1574 (5)	502 (5)
18-23-S	100	130	38.01	38.01	8.28	-0.99	20 (5)	1018 (5)	259 (5)
19-1-S	100	130	38.01	38.01	22.92	-9.35	76 (5)	3859 (5)	1555 (5)
19-2-S	100	130	38.01	38.01	44.11	-21.69	199 (5)	10101 (5)	3708 (5)
19-3-S	100	130	38.01	38.01	8.18	-30.64	103 (5)	1326 (5)	5211 (5)
19-4-S	100	130	38.01	38.01	5.22	-153.41	534 (5)	6901 (5)	27113 (5)
19-5-S	100	130	38.01	38.01	13.87	-101.69	397 (5)	7484 (5)	20146 (5)
19-6-S	100	130	38.01	38.01	56.17	-12.19	245 (5)	12451 (5)	3169 (5)
19-7-S	100	130	38.01	38.01	213.19	0.00	850 (5)	43111 (5)	10973 (5)
19-8-S	100	130	38.01	38.01	0.00	-365.83	1240 (5)	16013 (5)	62913 (5)
19-9-S	100	130	38.01	38.01	0.00	-332.33	1165 (5)	15046 (5)	59110 (5)
19-10-S	100	130	38.01	38.01	0.00	-468.12	1652 (5)	21335 (5)	83821 (5)
19-11-S	100	130	38.01	38.01	0.00	-420.18	1421 (5)	18344 (5)	72068 (5)
19-12-S	100	130	38.01	38.01	0.00	-349.76	1130 (5)	14594 (5)	57336 (5)
19-13-S	100	130	38.01	38.01	0.00	-247.37	769 (5)	9926 (5)	38995 (5)
19-14-S	100	130	38.01	38.01	0.00	-163.86	483 (5)	6236 (5)	24501 (5)
19-15-S	100	130	38.01	38.01	0.00	-88.99	233 (5)	3005 (5)	11805 (5)
19-16-S	100	130	38.01	38.01	8.37	-3.98	52 (7)	1188 (7)	2649 (7)
19-17-S	100	130	38.01	38.01	41.00	-3.50	141 (6)	7138 (6)	1817 (6)
19-18-S	100	130	38.01	38.01	88.49	-3.90	285 (5)	14468 (5)	3683 (5)
19-19-S	100	130	38.01	38.01	52.05	-7.06	102 (5)	5167 (5)	1685 (5)
19-20-S	100	130	38.01	38.01	7.03	-44.04	170 (7)	3565 (7)	8648 (7)
19-21-S	100	130	38.01	38.01	12.00	-47.98	182 (5)	2936 (5)	9252 (5)
19-22-S	100	130	38.01	38.01	6.45	-36.59	131 (6)	2243 (6)	6663 (6)
19-23-S	100	130	38.01	38.01	6.70	-14.81	39 (5)	1518 (5)	2003 (5)
20-1-S	100	130	38.01	38.01	3.34	-13.96	57 (5)	2888 (5)	2348 (5)
20-2-S	100	130	38.01	38.01	0.31	-23.45	78 (5)	1010 (5)	3968 (5)
20-3-S	100	130	38.01	38.01	0.74	-31.53	130 (5)	1673 (5)	6571 (5)
20-4-S	100	130	38.01	38.01	7.83	-38.94	210 (5)	2708 (5)	10639 (5)
20-5-S	100	130	38.01	38.01	32.06	-15.93	170 (5)	8646 (5)	3842 (5)
20-6-S	100	130	38.01	38.01	95.38	-0.35	386 (5)	19596 (5)	4988 (5)
20-7-S	100	130	38.01	38.01	203.58	0.00	782 (5)	39687 (5)	10102 (5)
20-8-S	100	130	38.01	38.01	0.00	-487.10	1682 (5)	21724 (5)	85347 (5)
20-9-S	100	130	38.01	38.01	0.00	-439.40	1515 (5)	19568 (5)	76879 (5)
20-10-S	100	130	38.01	38.01	0.00	-412.36	1412 (5)	18231 (5)	71626 (5)
20-11-S	100	130	38.01	38.01	0.00	-356.33	1198 (5)	15471 (5)	60780 (5)
20-12-S	100	130	38.01	38.01	0.00	-294.31	965 (5)	12457 (5)	48942 (5)
20-13-S	100	130	38.01	38.01	0.00	-222.77	701 (5)	9052 (5)	35561 (5)
20-14-S	100	130	38.01	38.01	0.00	-157.05	471 (5)	6080 (5)	23887 (5)
20-15-S	100	130	38.01	38.01	0.00	-95.15	261 (5)	3366 (5)	13225 (5)
20-16-S	100	130	38.01	38.01	0.20	-47.26	118 (5)	1520 (5)	5971 (5)
20-17-S	100	130	38.01	38.01	14.97	-8.22	57 (7)	2395 (7)	2895 (7)
20-18-S	100	130	38.01	38.01	24.52	-7.16	80 (6)	4074 (6)	1869 (6)
20-19-S	100	130	38.01	38.01	17.38	-9.67	76 (8)	3880 (8)	2159 (8)
20-20-S	100	130	38.01	38.01	27.93	-11.95	70 (5)	3529 (5)	2660 (5)
20-21-S	100	130	38.01	38.01	18.36	-8.18	52 (5)	2644 (5)	1702 (5)
20-22-S	100	130	38.01	38.01	11.00	-5.19	41 (6)	2057 (6)	1069 (6)
20-23-S	100	130	38.01	38.01	11.20	-3.63	31 (5)	1598 (5)	483 (5)

Pali in c.a.

Ip	Is	Ar [cmq]	σc [kPa]	σf [kPa]	τc [kPa]	σstf [kPa]
1	1	108.57	7165	138308		
1	2	108.57	6132	114775		
1	3	108.57	5110	91561		
1	4	108.57	4111	68967		
1	5	108.57	3144	47338		
1	6	108.57	2221	27154		

APPALTATORE:	 Consorzio Telese Società Consortile a Responsabilità Limitata		ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO					
PROGETTAZIONE:	Mandataria: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.							
Relazione di calcolo	IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX		COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
			IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	80 di 123

Ip	Is	Ar [cmq]	σ_c [kPa]	σ_f [kPa]	τ_c [kPa]	σ_{sf} [kPa]
1	7	108.57	1360	16885		
1	8	108.57	869	12425		
1	9	108.57	752	11046		
1	10	108.57	981	13764		
1	11	108.57	1357	16905		
1	12	108.57	1778	21534		
1	13	108.57	2125	25302		
1	14	108.57	2401	29872		
1	15	108.57	2612	34280		
1	16	108.57	2765	37487		
1	17	108.57	2868	39611		
1	18	108.57	2925	40773		
1	19	108.57	2944	41096		
1	20	108.57	2929	40692		
1	21	108.57	2885	39670		
1	22	108.57	2817	38131		
1	23	108.57	2729	36168		
1	24	108.57	2624	33905		
1	25	108.57	2508	31451		
1	26	108.57	2385	28852		
1	27	108.57	2256	26802		
1	28	108.57	2123	25364		
1	29	108.57	1989	23902		
1	30	108.57	1854	22431		
1	31	108.57	1720	20968		
1	32	108.57	1589	19526		
1	33	108.57	1462	18119		
1	34	108.57	1340	16761		
1	35	108.57	1224	15465		
1	36	108.57	1116	14377		
1	37	108.57	1017	13817		
1	38	108.57	951	13279		
1	39	108.57	909	12765		
1	40	108.57	869	12274		
1	41	108.57	831	11807		
1	42	108.57	795	11364		
1	43	108.57	762	10944		
1	44	108.57	730	10548		
1	45	108.57	700	10174		
1	46	108.57	672	9821		
1	47	108.57	646	9489		
1	48	108.57	622	9177		
1	49	108.57	599	8882		
1	50	108.57	578	8605		
1	51	108.57	558	8345		
1	52	108.57	547	8192		
1	53	108.57	548	8174		
1	54	108.57	547	8139		
1	55	108.57	545	8087		
1	56	108.57	541	8020		
1	57	108.57	537	7940		
1	58	108.57	531	7847		
1	59	108.57	525	7743		
1	60	108.57	518	7628		
1	61	108.57	510	7504		
1	62	108.57	501	7371		
1	63	108.57	492	7230		
1	64	108.57	482	7082		
1	65	108.57	471	6928		
1	66	108.57	460	6768		
1	67	108.57	449	6604		
1	68	108.57	437	6435		
1	69	108.57	426	6262		
1	70	108.57	413	6086		
1	71	108.57	401	5907		
1	72	108.57	389	5726		
1	73	108.57	376	5542		
1	74	108.57	363	5356		
1	75	108.57	350	5169		
1	76	108.57	337	4980		
1	77	108.57	324	4790		
1	78	108.57	311	4599		
1	79	108.57	298	4407		
1	80	108.57	284	4214		
1	81	108.57	271	4021		
1	82	108.57	258	3826		
1	83	108.57	245	3631		
1	84	108.57	231	3435		
1	85	108.57	218	3239		
1	86	108.57	204	3042		
1	87	108.57	191	2845		

APPALTATORE:	 Consorzio Telese Società Consortile a Responsabilità Limitata		ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO					
PROGETTAZIONE:	Mandataria: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.							
Relazione di calcolo	IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX		COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
			IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	81 di 123

Ip	Is	Ar [cmq]	σ_c [kPa]	σ_f [kPa]	τ_c [kPa]	σ_{sf} [kPa]
1	88	108.57	178	2647		
1	89	108.57	164	2448		
1	90	108.57	151	2249		
1	91	108.57	137	2049		
1	92	108.57	124	1848		
1	93	108.57	110	1646		
1	94	108.57	97	1444		
1	95	108.57	83	1241		
1	96	108.57	69	1036		
1	97	108.57	56	831		
1	98	108.57	42	625		
1	99	108.57	28	418		
1	100	108.57	14	210		
1	101	108.57	0	0		
2	1	108.57	7334	87612		
2	2	108.57	6285	75520		
2	3	108.57	5251	64289		
2	4	108.57	4259	53374		
2	5	108.57	3358	43252		
2	6	108.57	2618	34709		
2	7	108.57	2041	27888		
2	8	108.57	1522	21748		
2	9	108.57	1305	19189		
2	10	108.57	1708	23971		
2	11	108.57	2048	28013		
2	12	108.57	2332	31379		
2	13	108.57	2567	34167		
2	14	108.57	2767	36524		
2	15	108.57	2929	38428		
2	16	108.57	3053	39869		
2	17	108.57	3138	40860		
2	18	108.57	3187	41435		
2	19	108.57	3204	41637		
2	20	108.57	3193	41516		
2	21	108.57	3158	41119		
2	22	108.57	3103	40498		
2	23	108.57	3033	39697		
2	24	108.57	2952	38758		
2	25	108.57	2865	37745		
2	26	108.57	2774	36688		
2	27	108.57	2682	35612		
2	28	108.57	2590	34536		
2	29	108.57	2500	33473		
2	30	108.57	2412	32427		
2	31	108.57	2324	31389		
2	32	108.57	2237	30367		
2	33	108.57	2153	29367		
2	34	108.57	2071	28396		
2	35	108.57	1992	27459		
2	36	108.57	1916	26560		
2	37	108.57	1844	25703		
2	38	108.57	1775	24890		
2	39	108.57	1710	24122		
2	40	108.57	1649	23401		
2	41	108.57	1593	22727		
2	42	108.57	1540	22100		
2	43	108.57	1491	21519		
2	44	108.57	1446	20983		
2	45	108.57	1405	20491		
2	46	108.57	1367	20042		
2	47	108.57	1333	19634		
2	48	108.57	1302	19265		
2	49	108.57	1274	18932		
2	50	108.57	1249	18634		
2	51	108.57	1227	18370		
2	52	108.57	1221	18289		
2	53	108.57	1235	18455		
2	54	108.57	1247	18593		
2	55	108.57	1257	18705		
2	56	108.57	1265	18793		
2	57	108.57	1271	18859		
2	58	108.57	1275	18906		
2	59	108.57	1278	18934		
2	60	108.57	1279	18947		
2	61	108.57	1280	18945		
2	62	108.57	1279	18931		
2	63	108.57	1277	18905		
2	64	108.57	1275	18869		
2	65	108.57	1271	18825		
2	66	108.57	1267	18773		
2	67	108.57	1263	18716		

APPALTATORE:	 Consorzio Telese Società Consortile a Responsabilità Limitata		ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO					
PROGETTAZIONE:	Mandataria: SYSTRA S.A. Mandante: SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.							
Relazione di calcolo	IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX		COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
			IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	82 di 123

Ip	Is	Ar [cmq]	σ_c [kPa]	σ_f [kPa]	τ_c [kPa]	σ_{sf} [kPa]
2	68	108.57	1258	18653		
2	69	108.57	1253	18585		
2	70	108.57	1248	18515		
2	71	108.57	1242	18441		
2	72	108.57	1236	18366		
2	73	108.57	1230	18288		
2	74	108.57	1224	18210		
2	75	108.57	1218	18132		
2	76	108.57	1212	18053		
2	77	108.57	1207	17975		
2	78	108.57	1201	17897		
2	79	108.57	1195	17820		
2	80	108.57	1189	17744		
2	81	108.57	1183	17668		
2	82	108.57	1178	17594		
2	83	108.57	1172	17522		
2	84	108.57	1167	17450		
2	85	108.57	1162	17380		
2	86	108.57	1157	17312		
2	87	108.57	1152	17245		
2	88	108.57	1147	17179		
2	89	108.57	1143	17114		
2	90	108.57	1138	17051		
2	91	108.57	1134	16989		
2	92	108.57	1129	16928		
2	93	108.57	1125	16868		
2	94	108.57	1121	16809		
2	95	108.57	1117	16751		
2	96	108.57	1113	16694		
2	97	108.57	1109	16638		
2	98	108.57	1106	16582		
2	99	108.57	1102	16527		
2	100	108.57	1098	16472		
2	101	108.57	1095	16418		
3	1	108.57	7479	93417		
3	2	108.57	6483	82309		
3	3	108.57	5554	71799		
3	4	108.57	4736	62356		
3	5	108.57	4049	54291		
3	6	108.57	3441	47092		
3	7	108.57	2873	40373		
3	8	108.57	2354	34229		
3	9	108.57	2137	31666		
3	10	108.57	2539	36443		
3	11	108.57	2879	40480		
3	12	108.57	3162	43839		
3	13	108.57	3393	46580		
3	14	108.57	3577	48762		
3	15	108.57	3718	50439		
3	16	108.57	3821	51666		
3	17	108.57	3890	52494		
3	18	108.57	3930	52969		
3	19	108.57	3943	53136		
3	20	108.57	3935	53037		
3	21	108.57	3907	52711		
3	22	108.57	3863	52192		
3	23	108.57	3805	51515		
3	24	108.57	3736	50698		
3	25	108.57	3660	49795		
3	26	108.57	3579	48829		
3	27	108.57	3493	47816		
3	28	108.57	3405	46773		
3	29	108.57	3316	45712		
3	30	108.57	3226	44647		
3	31	108.57	3137	43586		
3	32	108.57	3049	42540		
3	33	108.57	2963	41515		
3	34	108.57	2879	40519		
3	35	108.57	2798	39556		
3	36	108.57	2721	38631		
3	37	108.57	2646	37746		
3	38	108.57	2576	36905		
3	39	108.57	2509	36108		
3	40	108.57	2447	35357		
3	41	108.57	2388	34653		
3	42	108.57	2333	33994		
3	43	108.57	2282	33381		
3	44	108.57	2234	32812		
3	45	108.57	2191	32287		
3	46	108.57	2151	31803		
3	47	108.57	2114	31359		

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	83 di 123

Ip	Is	Ar [cmq]	σ_c [kPa]	σ_f [kPa]	τ_c [kPa]	σ_{sf} [kPa]
3	48	108.57	2081	30954		
3	49	108.57	2051	30584		
3	50	108.57	2023	30249		
3	51	108.57	1999	29946		
3	52	108.57	1990	29827		
3	53	108.57	2002	29954		
3	54	108.57	2011	30053		
3	55	108.57	2018	30125		
3	56	108.57	2023	30173		
3	57	108.57	2027	30199		
3	58	108.57	2028	30204		
3	59	108.57	2028	30192		
3	60	108.57	2027	30163		
3	61	108.57	2024	30119		
3	62	108.57	2021	30062		
3	63	108.57	2016	29993		
3	64	108.57	2011	29914		
3	65	108.57	2005	29827		
3	66	108.57	1998	29731		
3	67	108.57	1991	29629		
3	68	108.57	1983	29521		
3	69	108.57	1975	29408		
3	70	108.57	1966	29292		
3	71	108.57	1958	29172		
3	72	108.57	1949	29050		
3	73	108.57	1940	28926		
3	74	108.57	1931	28801		
3	75	108.57	1921	28675		
3	76	108.57	1912	28548		
3	77	108.57	1903	28421		
3	78	108.57	1894	28294		
3	79	108.57	1885	28168		
3	80	108.57	1876	28042		
3	81	108.57	1867	27917		
3	82	108.57	1858	27792		
3	83	108.57	1849	27669		
3	84	108.57	1840	27546		
3	85	108.57	1832	27424		
3	86	108.57	1823	27304		
3	87	108.57	1815	27184		
3	88	108.57	1806	27065		
3	89	108.57	1798	26947		
3	90	108.57	1790	26830		
3	91	108.57	1782	26714		
3	92	108.57	1774	26599		
3	93	108.57	1766	26484		
3	94	108.57	1759	26370		
3	95	108.57	1751	26256		
3	96	108.57	1743	26143		
3	97	108.57	1735	26030		
3	98	108.57	1728	25917		
3	99	108.57	1720	25805		
3	100	108.57	1713	25692		
3	101	108.57	1705	25580		

Combinazioni SLEQ

Paramento

Tensione massima di compressione nel calcestruzzo

14940

[kPa]

Tensione massima di trazione dell'acciaio

450000

[kPa]

n°	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	M [kNm]	N [kN]	σ_c [kPa]	σ_f [kPa]	σ_{fs} [kPa]
1	100	70	15.71	31.42	0.00	5.00	7 (7)	92 (7)	103 (7)
2	100	70	15.71	31.42	0.00	6.72	9 (7)	123 (7)	139 (7)
3	100	70	15.71	31.42	0.00	8.43	12 (7)	154 (7)	174 (7)
4	100	70	15.71	31.42	0.00	10.15	14 (7)	186 (7)	210 (7)
5	100	70	15.71	31.42	0.00	11.86	17 (7)	217 (7)	245 (7)
6	100	70	15.71	31.42	0.00	13.58	19 (7)	249 (7)	281 (7)
7	100	70	15.71	31.42	0.00	15.29	21 (7)	280 (7)	316 (7)
8	100	70	15.71	31.42	0.00	17.01	24 (7)	312 (7)	352 (7)
9	100	70	15.71	31.42	0.00	18.73	26 (7)	343 (7)	387 (7)
10	100	70	15.71	31.42	0.00	20.44	28 (7)	374 (7)	423 (7)
11	100	70	15.71	31.42	0.00	22.16	31 (7)	406 (7)	458 (7)

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandatario: Mandante:

SYSTRA S.A. **SWS Engineering S.p.A.** **SYSTRA-SOTECNI S.p.A.**

Relazione di calcolo
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	84 di 123

n°	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	M [kNm]	N [kN]	σc [kPa]	σfi [kPa]	σfs [kPa]
12	100	70	15.71	31.42	0.00	23.87	33 (7)	437 (7)	494 (7)
13	100	70	15.71	31.42	0.00	25.59	36 (7)	469 (7)	529 (7)
14	100	70	15.71	31.42	0.00	27.30	38 (7)	500 (7)	565 (7)
15	100	70	15.71	31.42	0.00	29.02	40 (7)	532 (7)	600 (7)
16	100	70	15.71	31.42	0.00	30.74	43 (7)	563 (7)	636 (7)
17	100	70	15.71	31.42	0.00	32.45	45 (7)	594 (7)	671 (7)
18	100	70	15.71	31.42	0.00	34.17	48 (7)	626 (7)	707 (7)
19	100	70	15.71	31.42	0.00	35.88	50 (7)	657 (7)	742 (7)
20	100	70	15.71	31.42	0.00	37.60	52 (7)	689 (7)	778 (7)
21	100	70	15.71	31.42	0.00	39.32	55 (7)	720 (7)	813 (7)
22	100	70	15.71	31.42	0.00	41.03	57 (7)	752 (7)	849 (7)
23	100	70	15.71	31.42	0.00	42.75	60 (7)	783 (7)	884 (7)
24	100	70	15.71	31.42	0.00	44.46	62 (7)	814 (7)	920 (7)
25	100	70	15.71	31.42	0.00	46.18	64 (7)	846 (7)	955 (7)
26	100	70	15.71	31.42	0.00	47.89	67 (7)	877 (7)	991 (7)
27	100	70	15.71	31.42	0.00	49.61	69 (7)	909 (7)	1026 (7)
28	100	70	15.71	31.42	0.00	51.33	71 (7)	940 (7)	1062 (7)
29	100	70	15.71	31.42	0.00	53.04	74 (7)	972 (7)	1097 (7)
30	100	70	15.71	31.42	0.00	54.76	76 (7)	1003 (7)	1133 (7)
31	100	70	15.71	31.42	0.00	56.47	79 (7)	1034 (7)	1168 (7)
32	100	70	15.71	31.42	0.05	58.19	82 (7)	1059 (7)	1210 (7)
33	100	70	15.71	31.42	0.21	59.90	86 (7)	1071 (7)	1267 (7)
34	100	70	15.71	31.42	0.47	61.62	91 (7)	1069 (7)	1338 (7)
35	100	70	15.71	31.42	0.86	63.34	97 (7)	1053 (7)	1424 (7)
36	100	70	15.71	31.42	1.36	65.05	105 (7)	1021 (7)	1526 (7)
37	100	70	15.71	31.42	1.99	66.77	113 (7)	974 (7)	1645 (7)
38	100	70	15.71	31.42	2.74	68.48	124 (7)	911 (7)	1781 (7)
39	100	70	15.71	31.42	3.64	70.20	135 (7)	831 (7)	1935 (7)
40	100	70	15.71	31.42	4.67	71.91	148 (7)	733 (7)	2108 (7)
41	100	70	15.71	31.42	5.84	73.63	163 (7)	618 (7)	2300 (7)
42	100	120	15.71	31.42	19.80	86.48	145 (7)	0 (1)	2075 (7)
43	100	120	15.71	31.42	21.47	89.42	154 (7)	58 (7)	2201 (7)
44	100	120	15.71	31.42	23.85	92.36	166 (7)	170 (7)	2370 (7)
45	100	120	15.71	31.42	26.73	95.30	181 (7)	337 (7)	2576 (7)
46	100	120	15.71	31.42	29.93	98.24	198 (7)	561 (7)	2812 (7)
47	100	120	15.71	31.42	33.31	101.18	216 (7)	835 (7)	3069 (7)
48	100	120	15.71	31.42	36.82	104.12	237 (7)	1165 (7)	3347 (7)
49	100	120	15.71	31.42	40.49	107.06	259 (7)	1555 (7)	3645 (7)
50	100	120	15.71	31.42	44.33	110.00	282 (7)	2009 (7)	3963 (7)
51	100	120	15.71	31.42	48.33	112.94	308 (7)	2533 (7)	4302 (7)
52	100	120	15.71	31.42	52.51	115.88	334 (7)	3128 (7)	4661 (7)
53	100	120	15.71	31.42	56.88	118.82	363 (7)	3796 (7)	5039 (7)
54	100	120	15.71	31.42	61.43	121.76	393 (7)	4539 (7)	5436 (7)
55	100	120	15.71	31.42	66.18	124.70	424 (7)	5358 (7)	5851 (7)
56	100	120	15.71	31.42	71.14	127.65	457 (7)	6252 (7)	6285 (7)
57	100	120	15.71	31.42	76.29	130.59	491 (7)	7223 (7)	6736 (7)
58	100	120	15.71	31.42	81.67	133.53	527 (7)	8271 (7)	7206 (7)
59	100	120	15.71	31.42	87.26	136.47	565 (7)	9396 (7)	7693 (7)
60	100	120	15.71	31.42	93.07	139.41	603 (7)	10599 (7)	8197 (7)
61	100	120	15.71	31.42	99.11	142.35	644 (7)	11879 (7)	8720 (7)
62	100	120	15.71	31.42	105.39	145.29	686 (7)	13237 (7)	9260 (7)
63	100	120	15.71	31.42	111.90	148.23	729 (7)	14674 (7)	9819 (7)
64	100	120	15.71	31.42	118.66	151.17	774 (7)	16192 (7)	10396 (7)
65	100	120	15.71	31.42	125.67	154.11	820 (7)	17789 (7)	10991 (7)
66	100	120	15.71	31.42	132.93	157.05	868 (7)	19468 (7)	11606 (7)
67	100	120	15.71	31.42	140.46	159.99	917 (7)	21230 (7)	12240 (7)
68	100	120	15.71	31.42	148.24	162.93	969 (7)	23075 (7)	12893 (7)
69	100	120	15.71	31.42	156.30	165.87	1021 (7)	25004 (7)	13567 (7)
70	100	120	15.71	31.42	164.63	168.81	1076 (7)	27019 (7)	14260 (7)
71	100	120	15.71	31.42	173.24	171.75	1132 (7)	29120 (7)	14975 (7)
72	100	120	15.71	31.42	182.13	174.69	1190 (7)	31310 (7)	15710 (7)
73	100	120	15.71	31.42	191.31	177.63	1249 (7)	33588 (7)	16466 (7)
74	100	120	15.71	31.42	200.79	180.58	1311 (7)	35957 (7)	17244 (7)
75	100	120	15.71	31.42	210.56	183.52	1374 (7)	38418 (7)	18044 (7)
76	100	120	15.71	31.42	220.64	186.46	1439 (7)	40971 (7)	18866 (7)
77	100	120	15.71	31.42	231.03	189.40	1506 (7)	43618 (7)	19712 (7)
78	100	120	15.71	31.42	241.73	192.34	1575 (7)	46361 (7)	20580 (7)
79	100	120	15.71	31.42	252.75	195.28	1646 (7)	49200 (7)	21471 (7)
80	100	120	15.71	31.42	264.09	198.22	1718 (7)	52137 (7)	22387 (7)
81	100	120	15.71	31.42	275.76	201.16	1793 (7)	55174 (7)	23326 (7)
82	100	120	15.71	31.42	287.76	204.10	1870 (7)	58312 (7)	24290 (7)
83	100	120	15.71	31.42	288.00	204.16	1871 (7)	58375 (7)	24310 (7)
84	100	120	15.71	31.42	300.34	207.10	1950 (7)	61615 (7)	25299 (7)
85	100	120	15.71	31.42	313.02	210.04	2031 (7)	64959 (7)	26313 (7)
86	100	120	15.71	31.42	326.05	212.98	2114 (7)	68407 (7)	27353 (7)
87	100	120	15.71	31.42	339.43	215.92	2199 (7)	71961 (7)	28419 (7)
88	100	120	15.71	31.42	353.16	218.85	2286 (7)	75622 (7)	29511 (7)
89	100	120	15.71	31.42	367.26	221.79	2375 (7)	79393 (7)	30630 (7)
90	100	120	15.71	31.42	381.72	224.73	2467 (7)	83273 (7)	31776 (7)
91	100	120	15.71	31.42	396.56	227.67	2561 (7)	87265 (7)	32949 (7)
92	100	120	15.71	31.42	411.77	230.61	2657 (7)	91371 (7)	34150 (7)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	85 di 123

n°	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	M [kNm]	N [kN]	σc [kPa]	σfi [kPa]	σfs [kPa]
93	100	120	15.71	31.42	427.36	233.55	2756 (7)	95591 (7)	35379 (7)

Piastra fondazione

Tensione massima di compressione nel calcestruzzo

17430

[kPa]

Tensione massima di trazione dell'acciaio

1255271

[kPa]

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	σc [kPa]	σfi [kPa]	σfs [kPa]
1-1-P	75	130	30.41	30.41	3.78	-1.12	17 (5)	822 (5)	420 (5)
1-2-P	75	130	30.41	30.41	2.58	-6.51	38 (5)	874 (5)	1894 (5)
1-3-P	75	130	30.41	30.41	0.65	-23.06	109 (5)	1408 (5)	5348 (5)
1-4-P	75	130	30.41	30.41	1.33	-60.04	278 (5)	3603 (5)	13689 (5)
1-5-P	75	130	30.41	30.41	0.30	-94.25	447 (5)	5787 (5)	21988 (5)
1-6-P	75	130	30.41	30.41	0.09	-113.39	541 (5)	7016 (5)	26656 (5)
1-7-P	75	130	30.41	30.41	0.37	-64.37	302 (5)	3908 (5)	14847 (5)
1-8-P	75	130	30.41	30.41	6.86	-22.79	102 (5)	2454 (5)	5033 (5)
1-9-P	75	130	30.41	30.41	33.15	-1.17	155 (5)	7629 (5)	2008 (5)
1-10-P	75	130	30.41	30.41	44.93	-0.05	213 (5)	10475 (5)	2757 (5)
1-11-P	75	130	30.41	30.41	49.05	-0.02	233 (5)	11454 (5)	3015 (5)
1-12-P	75	130	30.41	30.41	40.74	-0.65	192 (5)	9444 (5)	2486 (5)
1-13-P	75	130	30.41	30.41	14.53	-10.81	66 (5)	3238 (5)	2226 (5)
1-14-P	75	130	30.41	30.41	1.64	-40.94	186 (5)	2415 (5)	9175 (5)
1-15-P	75	130	30.41	30.41	0.25	-82.52	392 (5)	5085 (5)	19320 (5)
1-16-P	75	130	30.41	30.41	0.45	-73.11	346 (5)	4489 (5)	17054 (5)
1-17-P	75	130	30.41	30.41	6.87	-36.82	164 (5)	2359 (5)	8075 (5)
1-18-P	75	130	30.41	30.41	20.23	-6.10	94 (5)	4605 (5)	1212 (5)
1-19-P	75	130	30.41	30.41	45.07	-0.32	213 (5)	10483 (5)	2759 (5)
1-20-P	75	130	30.41	30.41	55.15	0.00	262 (5)	12897 (5)	3395 (5)
1-21-P	75	130	30.41	30.41	48.96	-0.10	232 (5)	11421 (5)	3006 (5)
1-22-P	75	130	30.41	30.41	33.52	-1.85	157 (5)	7747 (5)	2039 (5)
1-23-P	75	130	30.41	30.41	8.95	-21.36	94 (5)	3248 (5)	4605 (5)
1-24-P	75	130	30.41	30.41	1.15	-56.71	265 (5)	3436 (5)	13055 (5)
1-25-P	75	130	30.41	30.41	0.00	-99.39	475 (5)	6159 (5)	23401 (5)
1-26-P	75	130	30.41	30.41	1.15	-56.71	265 (5)	3436 (5)	13055 (5)
1-27-P	75	130	30.41	30.41	8.95	-21.36	94 (5)	3248 (5)	4605 (5)
1-28-P	75	130	30.41	30.41	33.52	-1.85	157 (5)	7747 (5)	2039 (5)
1-29-P	75	130	30.41	30.41	48.96	-0.10	232 (5)	11421 (5)	3006 (5)
1-30-P	75	130	30.41	30.41	55.15	0.00	262 (5)	12897 (5)	3395 (5)
1-31-P	75	130	30.41	30.41	45.07	-0.32	213 (5)	10483 (5)	2759 (5)
1-32-P	75	130	30.41	30.41	20.23	-6.10	94 (5)	4605 (5)	1212 (5)
1-33-P	75	130	30.41	30.41	6.87	-36.82	164 (5)	2359 (5)	8075 (5)
1-34-P	75	130	30.41	30.41	0.45	-73.11	346 (5)	4489 (5)	17054 (5)
1-35-P	75	130	30.41	30.41	0.25	-82.52	392 (5)	5085 (5)	19320 (5)
1-36-P	75	130	30.41	30.41	1.64	-40.94	186 (5)	2415 (5)	9175 (5)
1-37-P	75	130	30.41	30.41	14.53	-10.81	66 (5)	3238 (5)	2226 (5)
1-38-P	75	130	30.41	30.41	40.74	-0.65	192 (5)	9444 (5)	2486 (5)
1-39-P	75	130	30.41	30.41	49.05	-0.02	233 (5)	11454 (5)	3015 (5)
1-40-P	75	130	30.41	30.41	44.93	-0.05	213 (5)	10475 (5)	2757 (5)
1-41-P	75	130	30.41	30.41	33.15	-1.17	155 (5)	7629 (5)	2008 (5)
1-42-P	75	130	30.41	30.41	6.86	-22.79	102 (5)	2454 (5)	5033 (5)
1-43-P	75	130	30.41	30.41	0.37	-64.37	302 (5)	3908 (5)	14847 (5)
1-44-P	75	130	30.41	30.41	0.09	-113.39	541 (5)	7016 (5)	26656 (5)
1-45-P	75	130	30.41	30.41	0.30	-94.25	447 (5)	5787 (5)	21988 (5)
1-46-P	75	130	30.41	30.41	1.33	-60.04	278 (5)	3603 (5)	13689 (5)
1-47-P	75	130	30.41	30.41	0.65	-23.06	109 (5)	1408 (5)	5348 (5)
1-48-P	75	130	30.41	30.41	2.58	-6.51	38 (5)	874 (5)	1894 (5)
1-49-P	75	130	30.41	30.41	3.78	-1.12	17 (5)	822 (5)	420 (5)
2-1-P	75	130	30.41	30.41	18.20	0.00	88 (5)	4335 (5)	1141 (5)
2-2-P	75	130	30.41	30.41	16.03	0.00	81 (5)	3984 (5)	1049 (5)
2-3-P	75	130	30.41	30.41	12.48	-1.52	64 (5)	3155 (5)	830 (5)
2-4-P	75	130	30.41	30.41	13.07	-11.51	68 (5)	3053 (5)	3327 (5)
2-5-P	75	130	30.41	30.41	5.08	-71.09	408 (5)	5287 (5)	20088 (5)
2-6-P	75	130	30.41	30.41	3.41	-117.18	674 (5)	8731 (5)	33170 (5)
2-7-P	75	130	30.41	30.41	6.16	-24.17	229 (8)	4299 (8)	11253 (8)
2-8-P	75	130	30.41	30.41	25.15	-2.41	125 (5)	6133 (5)	1614 (5)
2-9-P	75	130	30.41	30.41	41.26	0.00	208 (5)	10231 (5)	2693 (5)
2-10-P	75	130	30.41	30.41	47.97	0.00	238 (5)	11723 (5)	3086 (5)
2-11-P	75	130	30.41	30.41	50.00	0.00	247 (5)	12185 (5)	3207 (5)
2-12-P	75	130	30.41	30.41	45.02	0.00	225 (5)	11102 (5)	2922 (5)
2-13-P	75	130	30.41	30.41	31.81	-0.87	159 (5)	7851 (5)	2066 (5)
2-14-P	75	130	30.41	30.41	12.67	-11.93	77 (5)	3077 (5)	3813 (5)
2-15-P	75	130	30.41	30.41	4.49	-90.45	516 (5)	6682 (5)	25387 (5)
2-16-P	75	130	30.41	30.41	5.04	-73.65	418 (5)	5421 (5)	20595 (5)
2-17-P	75	130	30.41	30.41	24.44	-6.48	115 (5)	5650 (5)	1646 (5)
2-18-P	75	130	30.41	30.41	34.85	-0.31	175 (5)	8637 (5)	2273 (5)
2-19-P	75	130	30.41	30.41	46.69	0.00	233 (5)	11477 (5)	3021 (5)

APPALTATORE:	TELESE S.c.a r.l. Consorzio Telese Società Consortile a Responsabilità Limitata		
PROGETTAZIONE:			
Mandataria:	Mandante:		
SYSTRA S.A.	SWS Engineering S.p.A.	SYSTRA-SOTECNI S.p.A.	
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX			

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	86 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
2-20-P	75	130	30.41	30.41	52.21	0.00	258 (5)	12687 (5)	3339 (5)
2-21-P	75	130	30.41	30.41	48.80	0.00	242 (5)	11938 (5)	3142 (5)
2-22-P	75	130	30.41	30.41	40.96	0.00	206 (5)	10148 (5)	2671 (5)
2-23-P	75	130	30.41	30.41	26.94	-2.65	132 (5)	6523 (5)	1717 (5)
2-24-P	75	130	30.41	30.41	5.84	-31.82	301 (8)	4076 (8)	14814 (8)
2-25-P	75	130	30.41	30.41	3.18	-124.13	711 (5)	9216 (5)	35012 (5)
2-26-P	75	130	30.41	30.41	5.84	-31.82	301 (8)	4076 (8)	14814 (8)
2-27-P	75	130	30.41	30.41	26.94	-2.65	132 (5)	6523 (5)	1717 (5)
2-28-P	75	130	30.41	30.41	40.96	0.00	206 (5)	10148 (5)	2671 (5)
2-29-P	75	130	30.41	30.41	48.80	0.00	242 (5)	11938 (5)	3142 (5)
2-30-P	75	130	30.41	30.41	52.21	0.00	258 (5)	12687 (5)	3339 (5)
2-31-P	75	130	30.41	30.41	46.69	0.00	233 (5)	11477 (5)	3021 (5)
2-32-P	75	130	30.41	30.41	34.85	-0.31	175 (5)	8637 (5)	2273 (5)
2-33-P	75	130	30.41	30.41	24.44	-6.48	115 (5)	5650 (5)	1646 (5)
2-34-P	75	130	30.41	30.41	5.04	-73.65	418 (5)	5421 (5)	20595 (5)
2-35-P	75	130	30.41	30.41	4.49	-90.45	516 (5)	6682 (5)	25387 (5)
2-36-P	75	130	30.41	30.41	12.67	-11.93	77 (5)	3077 (5)	3813 (5)
2-37-P	75	130	30.41	30.41	31.81	-0.87	159 (5)	7851 (5)	2066 (5)
2-38-P	75	130	30.41	30.41	45.02	0.00	225 (5)	11102 (5)	2922 (5)
2-39-P	75	130	30.41	30.41	50.00	0.00	247 (5)	12185 (5)	3207 (5)
2-40-P	75	130	30.41	30.41	47.97	0.00	238 (5)	11723 (5)	3086 (5)
2-41-P	75	130	30.41	30.41	41.26	0.00	208 (5)	10231 (5)	2693 (5)
2-42-P	75	130	30.41	30.41	25.15	-2.41	125 (5)	6133 (5)	1614 (5)
2-43-P	75	130	30.41	30.41	6.16	-24.17	229 (8)	4299 (8)	11253 (8)
2-44-P	75	130	30.41	30.41	3.41	-117.18	674 (5)	8731 (5)	33170 (5)
2-45-P	75	130	30.41	30.41	5.08	-71.09	408 (5)	5287 (5)	20088 (5)
2-46-P	75	130	30.41	30.41	13.07	-11.51	68 (5)	3053 (5)	3327 (5)
2-47-P	75	130	30.41	30.41	12.48	-1.52	64 (5)	3155 (5)	830 (5)
2-48-P	75	130	30.41	30.41	16.03	0.00	81 (5)	3984 (5)	1049 (5)
2-49-P	75	130	30.41	30.41	18.20	0.00	88 (5)	4335 (5)	1141 (5)
5-1-P	92	130	38.01	38.01	0.00	-26.10	90 (5)	1164 (5)	4391 (5)
5-2-P	92	130	38.01	38.01	0.00	-37.18	128 (5)	1660 (5)	6262 (5)
5-3-P	92	130	38.01	38.01	0.00	-54.40	192 (5)	2493 (5)	9407 (5)
5-4-P	92	130	38.01	38.01	0.00	-80.85	293 (5)	3800 (5)	14338 (5)
5-5-P	92	130	38.01	38.01	0.00	-129.41	510 (5)	6613 (5)	24951 (5)
5-6-P	92	130	38.01	38.01	0.00	-164.29	665 (5)	8624 (5)	32538 (5)
5-7-P	92	130	38.01	38.01	0.00	-122.37	456 (5)	5920 (5)	22334 (5)
5-8-P	92	130	38.01	38.01	0.00	-99.27	343 (5)	4446 (5)	16775 (5)
5-9-P	92	130	38.01	38.01	0.00	-88.71	292 (5)	3794 (5)	14314 (5)
5-10-P	92	130	38.01	38.01	0.00	-89.25	291 (5)	3779 (5)	14260 (5)
5-11-P	92	130	38.01	38.01	0.00	-90.00	292 (5)	3792 (5)	14309 (5)
5-12-P	92	130	38.01	38.01	0.00	-91.08	297 (5)	3846 (5)	14511 (5)
5-13-P	92	130	38.01	38.01	0.00	-101.66	342 (5)	4438 (5)	16744 (5)
5-14-P	92	130	38.01	38.01	0.00	-121.27	431 (5)	5591 (5)	21094 (5)
5-15-P	92	130	38.01	38.01	0.00	-167.47	652 (5)	8451 (5)	31886 (5)
5-16-P	92	130	38.01	38.01	0.00	-158.30	607 (5)	7874 (5)	29710 (5)
5-17-P	92	130	38.01	38.01	0.00	-112.22	386 (5)	5006 (5)	18889 (5)
5-18-P	92	130	38.01	38.01	0.00	-99.49	330 (5)	4276 (5)	16134 (5)
5-19-P	92	130	38.01	38.01	0.00	-91.62	294 (5)	3819 (5)	14410 (5)
5-20-P	92	130	38.01	38.01	0.00	-91.06	291 (5)	3772 (5)	14230 (5)
5-21-P	93	130	38.01	38.01	0.00	-91.37	293 (5)	3796 (5)	14321 (5)
5-22-P	93	130	38.01	38.01	0.00	-94.34	306 (5)	3974 (5)	14995 (5)
5-23-P	93	130	38.01	38.01	0.00	-107.05	362 (5)	4699 (5)	17729 (5)
5-24-P	93	130	38.01	38.01	0.00	-139.79	517 (5)	6707 (5)	25305 (5)
5-25-P	93	130	38.01	38.01	0.00	-185.89	738 (5)	9570 (5)	36108 (5)
5-26-P	93	130	38.01	38.01	0.00	-139.79	517 (5)	6707 (5)	25305 (5)
5-27-P	93	130	38.01	38.01	0.00	-107.05	362 (5)	4699 (5)	17729 (5)
5-28-P	93	130	38.01	38.01	0.00	-94.34	306 (5)	3974 (5)	14995 (5)
5-29-P	93	130	38.01	38.01	0.00	-91.37	293 (5)	3796 (5)	14321 (5)
5-30-P	93	130	38.01	38.01	0.00	-91.06	291 (5)	3772 (5)	14230 (5)
5-31-P	93	130	38.01	38.01	0.00	-91.62	294 (5)	3819 (5)	14410 (5)
5-32-P	93	130	38.01	38.01	0.00	-99.49	330 (5)	4276 (5)	16134 (5)
5-33-P	93	130	38.01	38.01	0.00	-112.22	386 (5)	5006 (5)	18889 (5)
5-34-P	93	130	38.01	38.01	0.00	-158.30	607 (5)	7874 (5)	29710 (5)
5-35-P	93	130	38.01	38.01	0.00	-167.47	652 (5)	8451 (5)	31886 (5)
5-36-P	93	130	38.01	38.01	0.00	-121.27	431 (5)	5591 (5)	21094 (5)
5-37-P	93	130	38.01	38.01	0.00	-101.66	342 (5)	4438 (5)	16744 (5)
5-38-P	93	130	38.01	38.01	0.00	-91.08	297 (5)	3846 (5)	14511 (5)
5-39-P	93	130	38.01	38.01	0.00	-90.00	292 (5)	3792 (5)	14309 (5)
5-40-P	93	130	38.01	38.01	0.00	-89.25	291 (5)	3779 (5)	14260 (5)
5-41-P	93	130	38.01	38.01	0.00	-88.71	292 (5)	3794 (5)	14314 (5)
5-42-P	93	130	38.01	38.01	0.00	-99.27	343 (5)	4446 (5)	16775 (5)
5-43-P	93	130	38.01	38.01	0.00	-122.37	456 (5)	5920 (5)	22334 (5)
5-44-P	93	130	38.01	38.01	0.00	-164.29	665 (5)	8624 (5)	32538 (5)
5-45-P	93	130	38.01	38.01	0.00	-129.41	510 (5)	6613 (5)	24951 (5)
5-46-P	93	130	38.01	38.01	0.00	-80.85	293 (5)	3800 (5)	14338 (5)
5-47-P	93	130	38.01	38.01	0.00	-54.40	192 (5)	2493 (5)	9407 (5)
5-48-P	93	130	38.01	38.01	0.00	-37.18	128 (5)	1660 (5)	6262 (5)
5-49-P	93	130	38.01	38.01	0.00	-26.10	90 (5)	1164 (5)	4391 (5)
6-1-P	93	130	34.21	34.21	0.00	-2.45	10 (5)	134 (5)	533 (5)
6-2-P	93	130	34.21	34.21	0.00	-10.53	43 (5)	560 (5)	2231 (5)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF2R

2.2.E.ZZ

CL

TR.16.0.5.003

A

87 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
6-3-P	93	130	34.21	34.21	0.00	-21.11	89 (5)	1145 (5)	4563 (5)
6-4-P	93	130	34.21	34.21	0.00	-35.43	153 (5)	1969 (5)	7846 (5)
6-5-P	93	130	34.21	34.21	0.00	-49.88	208 (5)	2680 (5)	10679 (5)
6-6-P	93	130	34.21	34.21	0.00	-60.22	244 (5)	3149 (5)	12552 (5)
6-7-P	93	130	34.21	34.21	0.00	-54.04	215 (5)	2769 (5)	11037 (5)
6-8-P	93	130	34.21	34.21	0.00	-47.26	177 (5)	2278 (5)	9078 (5)
6-9-P	93	130	34.21	34.21	0.00	-40.10	133 (5)	1713 (5)	6827 (5)
6-10-P	93	130	34.21	34.21	0.00	-36.78	113 (5)	1454 (5)	5795 (5)
6-11-P	93	130	34.21	34.21	0.00	-37.00	110 (5)	1421 (5)	5665 (5)
6-12-P	93	130	34.21	34.21	0.00	-42.52	134 (5)	1728 (5)	6888 (5)
6-13-P	93	130	34.21	34.21	0.00	-51.56	178 (5)	2300 (5)	9166 (5)
6-14-P	93	130	34.21	34.21	0.00	-61.48	226 (5)	2910 (5)	11599 (5)
6-15-P	93	130	34.21	34.21	0.00	-71.45	265 (5)	3411 (5)	13594 (5)
6-16-P	93	130	34.21	34.21	0.00	-69.69	256 (5)	3305 (5)	13172 (5)
6-17-P	93	130	34.21	34.21	0.00	-60.10	217 (5)	2795 (5)	11137 (5)
6-18-P	93	130	34.21	34.21	0.00	-50.72	167 (5)	2152 (5)	8578 (5)
6-19-P	93	130	34.21	34.21	0.00	-43.22	128 (5)	1648 (5)	6566 (5)
6-20-P	93	130	34.21	34.21	0.00	-38.53	105 (5)	1349 (5)	5376 (5)
6-21-P	93	130	34.21	34.21	0.00	-41.38	118 (5)	1521 (5)	6062 (5)
6-22-P	93	130	34.21	34.21	0.00	-47.05	146 (5)	1880 (5)	7492 (5)
6-23-P	93	130	34.21	34.21	0.00	-56.51	195 (5)	2514 (5)	10019 (5)
6-24-P	93	130	34.21	34.21	0.00	-66.13	238 (5)	3070 (5)	12235 (5)
6-25-P	93	130	34.21	34.21	0.00	-75.84	277 (5)	3574 (5)	14242 (5)
6-26-P	93	130	34.21	34.21	0.00	-66.13	238 (5)	3070 (5)	12235 (5)
6-27-P	93	130	34.21	34.21	0.00	-56.51	195 (5)	2514 (5)	10019 (5)
6-28-P	93	130	34.21	34.21	0.00	-47.05	146 (5)	1880 (5)	7492 (5)
6-29-P	93	130	34.21	34.21	0.00	-41.38	118 (5)	1521 (5)	6062 (5)
6-30-P	93	130	34.21	34.21	0.00	-38.53	105 (5)	1349 (5)	5376 (5)
6-31-P	93	130	34.21	34.21	0.00	-43.22	128 (5)	1648 (5)	6566 (5)
6-32-P	93	130	34.21	34.21	0.00	-50.72	167 (5)	2152 (5)	8578 (5)
6-33-P	93	130	34.21	34.21	0.00	-60.10	217 (5)	2795 (5)	11137 (5)
6-34-P	93	130	34.21	34.21	0.00	-69.69	256 (5)	3305 (5)	13172 (5)
6-35-P	93	130	34.21	34.21	0.00	-71.45	265 (5)	3411 (5)	13594 (5)
6-36-P	93	130	34.21	34.21	0.00	-61.48	226 (5)	2910 (5)	11599 (5)
6-37-P	93	130	34.21	34.21	0.00	-51.56	178 (5)	2300 (5)	9166 (5)
6-38-P	93	130	34.21	34.21	0.00	-42.52	134 (5)	1728 (5)	6888 (5)
6-39-P	93	130	34.21	34.21	0.00	-37.00	110 (5)	1421 (5)	5665 (5)
6-40-P	93	130	34.21	34.21	0.00	-36.78	113 (5)	1454 (5)	5795 (5)
6-41-P	93	130	34.21	34.21	0.00	-40.10	133 (5)	1713 (5)	6827 (5)
6-42-P	93	130	34.21	34.21	0.00	-47.26	177 (5)	2278 (5)	9078 (5)
6-43-P	93	130	34.21	34.21	0.00	-54.04	215 (5)	2769 (5)	11037 (5)
6-44-P	93	130	34.21	34.21	0.00	-60.22	244 (5)	3149 (5)	12552 (5)
6-45-P	93	130	34.21	34.21	0.00	-49.88	208 (5)	2680 (5)	10679 (5)
6-46-P	93	130	34.21	34.21	0.00	-35.43	153 (5)	1969 (5)	7846 (5)
6-47-P	93	130	34.21	34.21	0.00	-21.11	89 (5)	1145 (5)	4563 (5)
6-48-P	93	130	34.21	34.21	0.00	-10.53	43 (5)	560 (5)	2231 (5)
6-49-P	93	130	34.21	34.21	0.00	-2.45	10 (5)	134 (5)	533 (5)
7-1-P	93	130	34.21	34.21	4.46	-4.03	20 (7)	1053 (7)	955 (7)
7-2-P	93	130	34.21	34.21	6.22	-6.25	30 (7)	1548 (7)	1399 (7)
7-3-P	93	130	34.21	34.21	6.91	-12.59	54 (7)	2191 (7)	2787 (7)
7-4-P	93	130	34.21	34.21	6.78	-25.90	114 (7)	1798 (7)	5869 (7)
7-5-P	93	130	34.21	34.21	2.45	-26.10	105 (7)	1354 (7)	5398 (7)
7-6-P	93	130	34.21	34.21	0.13	-24.71	91 (7)	1170 (7)	4661 (7)
7-7-P	93	130	34.21	34.21	1.85	-19.75	84 (7)	1089 (7)	4341 (7)
7-8-P	93	130	34.21	34.21	5.05	-10.47	50 (7)	1817 (7)	2586 (7)
7-9-P	93	130	34.21	34.21	14.24	-1.62	75 (6)	3857 (6)	968 (6)
7-10-P	93	130	34.21	34.21	14.60	-0.22	83 (6)	4269 (6)	1071 (6)
7-11-P	93	130	34.21	34.21	15.00	-0.15	71 (6)	3635 (6)	912 (6)
7-12-P	93	130	34.21	34.21	15.12	-1.76	84 (6)	4326 (6)	1085 (6)
7-13-P	93	130	34.21	34.21	10.65	-8.80	53 (6)	2734 (6)	2134 (6)
7-14-P	93	130	34.21	34.21	6.00	-17.79	86 (8)	1859 (8)	4410 (8)
7-15-P	93	130	34.21	34.21	0.34	-16.90	70 (7)	900 (7)	3585 (7)
7-16-P	93	130	34.21	34.21	0.56	-15.75	68 (7)	879 (7)	3503 (7)
7-17-P	93	130	34.21	34.21	10.07	-20.01	86 (5)	2160 (5)	4444 (5)
7-18-P	93	130	34.21	34.21	11.10	-6.04	58 (6)	3002 (6)	1387 (6)
7-19-P	93	130	34.21	34.21	15.39	-1.18	90 (6)	4624 (6)	1160 (6)
7-20-P	93	130	34.21	34.21	20.71	0.00	80 (7)	4119 (7)	1034 (7)
7-21-P	93	130	34.21	34.21	15.52	-0.57	75 (6)	3847 (6)	965 (6)
7-22-P	93	130	34.21	34.21	13.51	-2.61	77 (6)	3974 (6)	997 (6)
7-23-P	93	130	34.21	34.21	9.94	-13.11	60 (6)	2460 (6)	3064 (6)
7-24-P	93	130	34.21	34.21	2.86	-14.10	68 (8)	885 (8)	3496 (8)
7-25-P	93	130	34.21	34.21	0.11	-16.89	88 (7)	1137 (7)	4532 (7)
7-26-P	93	130	34.21	34.21	2.86	-14.10	68 (8)	885 (8)	3496 (8)
7-27-P	93	130	34.21	34.21	9.94	-13.11	60 (6)	2460 (6)	3064 (6)
7-28-P	93	130	34.21	34.21	13.51	-2.61	77 (6)	3974 (6)	997 (6)
7-29-P	93	130	34.21	34.21	15.52	-0.57	75 (6)	3847 (6)	965 (6)
7-30-P	93	130	34.21	34.21	20.71	0.00	80 (7)	4119 (7)	1034 (7)
7-31-P	93	130	34.21	34.21	15.39	-1.18	90 (6)	4624 (6)	1160 (6)
7-32-P	93	130	34.21	34.21	11.10	-6.04	58 (6)	3002 (6)	1387 (6)
7-33-P	93	130	34.21	34.21	10.07	-20.01	86 (5)	2160 (5)	4444 (5)
7-34-P	93	130	34.21	34.21	0.56	-15.75	68 (7)	879 (7)	3503 (7)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF2R

2.2.E.ZZ

CL

TR.16.0.5.003

A

88 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
7-35-P	93	130	34.21	34.21	0.34	-16.90	70 (7)	900 (7)	3585 (7)
7-36-P	93	130	34.21	34.21	6.00	-17.79	86 (8)	1859 (8)	4410 (8)
7-37-P	93	130	34.21	34.21	10.65	-8.80	53 (6)	2734 (6)	2134 (6)
7-38-P	93	130	34.21	34.21	15.12	-1.76	84 (6)	4326 (6)	1085 (6)
7-39-P	93	130	34.21	34.21	15.00	-0.15	71 (6)	3635 (6)	912 (6)
7-40-P	93	130	34.21	34.21	14.60	-0.22	83 (6)	4269 (6)	1071 (6)
7-41-P	93	130	34.21	34.21	14.24	-1.62	75 (6)	3857 (6)	968 (6)
7-42-P	93	130	34.21	34.21	5.05	-10.47	50 (7)	1817 (7)	2586 (7)
7-43-P	93	130	34.21	34.21	1.85	-19.75	84 (7)	1089 (7)	4341 (7)
7-44-P	93	130	34.21	34.21	0.13	-24.71	91 (7)	1170 (7)	4661 (7)
7-45-P	93	130	34.21	34.21	2.45	-26.10	105 (7)	1354 (7)	5398 (7)
7-46-P	93	130	34.21	34.21	6.78	-25.90	114 (7)	1798 (7)	5869 (7)
7-47-P	93	130	34.21	34.21	6.91	-12.59	54 (7)	2191 (7)	2787 (7)
7-48-P	93	130	34.21	34.21	6.22	-6.25	30 (7)	1548 (7)	1399 (7)
7-49-P	93	130	34.21	34.21	4.46	-4.03	20 (7)	1053 (7)	955 (7)
8-1-P	92	130	38.01	38.01	2.10	-2.46	8 (5)	400 (5)	355 (5)
8-2-P	92	130	38.01	38.01	2.56	-5.28	23 (6)	473 (6)	1135 (6)
8-3-P	92	130	38.01	38.01	3.74	-12.95	55 (7)	1055 (7)	2668 (7)
8-4-P	92	130	38.01	38.01	7.90	-25.48	106 (7)	2268 (7)	5197 (7)
8-5-P	92	130	38.01	38.01	0.00	-49.71	189 (7)	2455 (7)	9264 (7)
8-6-P	92	130	38.01	38.01	0.00	-70.82	275 (7)	3571 (7)	13474 (7)
8-7-P	92	130	38.01	38.01	0.87	-30.03	116 (7)	1509 (7)	5693 (7)
8-8-P	92	130	38.01	38.01	13.36	-12.89	54 (6)	2147 (6)	2648 (6)
8-9-P	92	130	38.01	38.01	8.69	-2.83	37 (5)	1802 (5)	478 (5)
8-10-P	92	130	38.01	38.01	14.01	0.00	59 (7)	2894 (7)	767 (7)
8-11-P	92	130	38.01	38.01	16.23	0.00	67 (7)	3300 (7)	875 (7)
8-12-P	92	130	38.01	38.01	11.55	-0.14	49 (7)	2388 (7)	633 (7)
8-13-P	92	130	38.01	38.01	16.04	-10.22	52 (5)	2549 (5)	1770 (5)
8-14-P	92	130	38.01	38.01	14.70	-19.89	86 (6)	2051 (6)	4204 (6)
8-15-P	92	130	38.01	38.01	0.00	-52.37	205 (7)	2662 (7)	10043 (7)
8-16-P	92	130	38.01	38.01	0.00	-43.98	172 (7)	2225 (7)	8395 (7)
8-17-P	92	130	38.01	38.01	23.66	-18.93	74 (5)	3262 (5)	3615 (5)
8-18-P	92	130	38.01	38.01	13.70	-8.04	51 (5)	2494 (5)	1051 (5)
8-19-P	92	130	38.01	38.01	15.91	0.00	61 (7)	2986 (7)	791 (7)
8-20-P	92	130	38.01	38.01	21.85	0.00	85 (7)	4149 (7)	1100 (7)
8-21-P	92	130	38.01	38.01	18.60	0.00	71 (7)	3490 (7)	925 (7)
8-22-P	92	130	38.01	38.01	12.32	-0.24	50 (7)	2434 (7)	645 (7)
8-23-P	92	130	38.01	38.01	19.61	-14.82	62 (5)	3012 (5)	2509 (5)
8-24-P	92	130	38.01	38.01	0.00	-26.64	107 (7)	1386 (7)	5228 (7)
8-25-P	92	130	38.01	38.01	0.00	-66.07	265 (7)	3431 (7)	12947 (7)
8-26-P	92	130	38.01	38.01	0.00	-26.64	107 (7)	1386 (7)	5228 (7)
8-27-P	92	130	38.01	38.01	19.61	-14.82	62 (5)	3012 (5)	2509 (5)
8-28-P	92	130	38.01	38.01	12.32	-0.24	50 (7)	2434 (7)	645 (7)
8-29-P	92	130	38.01	38.01	18.60	0.00	71 (7)	3490 (7)	925 (7)
8-30-P	92	130	38.01	38.01	21.85	0.00	85 (7)	4149 (7)	1100 (7)
8-31-P	92	130	38.01	38.01	15.91	0.00	61 (7)	2986 (7)	791 (7)
8-32-P	92	130	38.01	38.01	13.70	-8.04	51 (5)	2494 (5)	1051 (5)
8-33-P	92	130	38.01	38.01	23.66	-18.93	74 (5)	3262 (5)	3615 (5)
8-34-P	92	130	38.01	38.01	0.00	-43.98	172 (7)	2225 (7)	8395 (7)
8-35-P	92	130	38.01	38.01	0.00	-52.37	205 (7)	2662 (7)	10043 (7)
8-36-P	92	130	38.01	38.01	14.70	-19.89	86 (6)	2051 (6)	4204 (6)
8-37-P	92	130	38.01	38.01	16.04	-10.22	52 (5)	2549 (5)	1770 (5)
8-38-P	92	130	38.01	38.01	11.55	-0.14	49 (7)	2388 (7)	633 (7)
8-39-P	92	130	38.01	38.01	16.23	0.00	67 (7)	3300 (7)	875 (7)
8-40-P	92	130	38.01	38.01	14.01	0.00	59 (7)	2894 (7)	767 (7)
8-41-P	92	130	38.01	38.01	8.69	-2.83	37 (5)	1802 (5)	478 (5)
8-42-P	92	130	38.01	38.01	13.36	-12.89	54 (6)	2147 (6)	2648 (6)
8-43-P	92	130	38.01	38.01	0.87	-30.03	116 (7)	1509 (7)	5693 (7)
8-44-P	92	130	38.01	38.01	0.00	-70.82	275 (7)	3571 (7)	13474 (7)
8-45-P	92	130	38.01	38.01	0.00	-49.71	189 (7)	2455 (7)	9264 (7)
8-46-P	92	130	38.01	38.01	7.90	-25.48	106 (7)	2268 (7)	5197 (7)
8-47-P	92	130	38.01	38.01	3.74	-12.95	55 (7)	1055 (7)	2668 (7)
8-48-P	92	130	38.01	38.01	2.56	-5.28	23 (6)	473 (6)	1135 (6)
8-49-P	92	130	38.01	38.01	2.10	-2.46	8 (5)	400 (5)	355 (5)
9-1-S	100	130	38.01	38.01	3.34	-13.96	57 (5)	2888 (5)	2348 (5)
9-2-S	100	130	38.01	38.01	0.31	-23.45	78 (5)	1010 (5)	3968 (5)
9-3-S	100	130	38.01	38.01	0.74	-31.53	130 (5)	1673 (5)	6571 (5)
9-4-S	100	130	38.01	38.01	7.83	-38.94	210 (5)	2708 (5)	10639 (5)
9-5-S	100	130	38.01	38.01	32.06	-15.93	170 (5)	8646 (5)	3842 (5)
9-6-S	100	130	38.01	38.01	95.38	-0.35	386 (5)	19596 (5)	4988 (5)
9-7-S	100	130	38.01	38.01	203.58	0.00	782 (5)	39687 (5)	10102 (5)
9-8-S	100	130	38.01	38.01	0.00	-487.10	1682 (5)	21724 (5)	85347 (5)
9-9-S	100	130	38.01	38.01	0.00	-439.40	1515 (5)	19568 (5)	76879 (5)
9-10-S	100	130	38.01	38.01	0.00	-412.36	1412 (5)	18231 (5)	71626 (5)
9-11-S	100	130	38.01	38.01	0.00	-356.33	1198 (5)	15471 (5)	60780 (5)
9-12-S	100	130	38.01	38.01	0.00	-294.31	965 (5)	12457 (5)	48942 (5)
9-13-S	100	130	38.01	38.01	0.00	-222.77	701 (5)	9052 (5)	35561 (5)
9-14-S	100	130	38.01	38.01	0.00	-157.05	471 (5)	6080 (5)	23887 (5)
9-15-S	100	130	38.01	38.01	0.00	-95.15	261 (5)	3366 (5)	13225 (5)
9-16-S	100	130	38.01	38.01	0.20	-47.26	118 (5)	1520 (5)	5971 (5)
9-17-S	100	130	38.01	38.01	14.97	-8.22	57 (7)	2395 (7)	2895 (7)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF2R

2.2.E.ZZ

CL

TR.16.0.5.003

A

89 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
9-18-S	100	130	38.01	38.01	24.52	-7.16	80 (6)	4074 (6)	1869 (6)
9-19-S	100	130	38.01	38.01	17.38	-9.67	76 (8)	3880 (8)	2159 (8)
9-20-S	100	130	38.01	38.01	27.93	-11.95	70 (5)	3529 (5)	2660 (5)
9-21-S	100	130	38.01	38.01	18.36	-8.18	52 (5)	2644 (5)	1702 (5)
9-22-S	100	130	38.01	38.01	11.00	-5.19	41 (6)	2057 (6)	1069 (6)
9-23-S	100	130	38.01	38.01	11.20	-3.63	31 (5)	1598 (5)	483 (5)
10-1-S	100	130	38.01	38.01	22.92	-9.35	76 (5)	3859 (5)	1555 (5)
10-2-S	100	130	38.01	38.01	44.11	-21.69	199 (5)	10101 (5)	3708 (5)
10-3-S	100	130	38.01	38.01	8.18	-30.64	103 (5)	1326 (5)	5211 (5)
10-4-S	100	130	38.01	38.01	5.22	-153.41	534 (5)	6901 (5)	27113 (5)
10-5-S	100	130	38.01	38.01	13.87	-101.69	397 (5)	7484 (5)	20146 (5)
10-6-S	100	130	38.01	38.01	56.17	-12.19	245 (5)	12451 (5)	3169 (5)
10-7-S	100	130	38.01	38.01	213.19	0.00	850 (5)	43111 (5)	10973 (5)
10-8-S	100	130	38.01	38.01	0.00	-365.83	1240 (5)	16013 (5)	62913 (5)
10-9-S	100	130	38.01	38.01	0.00	-332.33	1165 (5)	15046 (5)	59110 (5)
10-10-S	100	130	38.01	38.01	0.00	-468.12	1652 (5)	21335 (5)	83821 (5)
10-11-S	100	130	38.01	38.01	0.00	-420.18	1421 (5)	18344 (5)	72068 (5)
10-12-S	100	130	38.01	38.01	0.00	-349.76	1130 (5)	14594 (5)	57336 (5)
10-13-S	100	130	38.01	38.01	0.00	-247.37	769 (5)	9926 (5)	38995 (5)
10-14-S	100	130	38.01	38.01	0.00	-163.86	483 (5)	6236 (5)	24501 (5)
10-15-S	100	130	38.01	38.01	0.00	-88.99	233 (5)	3005 (5)	11805 (5)
10-16-S	100	130	38.01	38.01	8.37	-3.98	52 (7)	1188 (7)	2649 (7)
10-17-S	100	130	38.01	38.01	41.00	-3.50	141 (6)	7138 (6)	1817 (6)
10-18-S	100	130	38.01	38.01	88.49	-3.90	285 (5)	14468 (5)	3683 (5)
10-19-S	100	130	38.01	38.01	52.05	-7.06	102 (5)	5167 (5)	1685 (5)
10-20-S	100	130	38.01	38.01	7.03	-44.04	170 (7)	3565 (7)	8648 (7)
10-21-S	100	130	38.01	38.01	12.00	-47.98	182 (5)	2936 (5)	9252 (5)
10-22-S	100	130	38.01	38.01	6.45	-36.59	131 (6)	2243 (6)	6663 (6)
10-23-S	100	130	38.01	38.01	6.70	-14.81	39 (5)	1518 (5)	2003 (5)
11-1-S	100	130	38.01	38.01	1.26	-17.35	59 (5)	762 (5)	2995 (5)
11-2-S	100	130	38.01	38.01	2.03	-17.93	57 (5)	732 (5)	2876 (5)
11-3-S	100	130	38.01	38.01	3.37	-10.20	47 (5)	847 (5)	2370 (5)
11-4-S	100	130	38.01	38.01	18.51	-0.92	81 (8)	4131 (8)	1052 (8)
11-5-S	100	130	38.01	38.01	66.42	0.00	269 (5)	13634 (5)	3470 (5)
11-6-S	100	130	38.01	38.01	134.10	0.00	518 (5)	26286 (5)	6691 (5)
11-7-S	100	130	38.01	38.01	216.33	0.00	816 (5)	41397 (5)	10537 (5)
11-8-S	100	130	38.01	38.01	0.00	-548.92	1862 (5)	24041 (5)	94450 (5)
11-9-S	100	130	38.01	38.01	0.00	-471.66	1584 (5)	20454 (5)	80358 (5)
11-10-S	100	130	38.01	38.01	0.00	-412.21	1372 (5)	17715 (5)	69596 (5)
11-11-S	100	130	38.01	38.01	0.00	-349.35	1146 (5)	14805 (5)	58164 (5)
11-12-S	100	130	38.01	38.01	0.00	-285.13	917 (5)	11845 (5)	46535 (5)
11-13-S	100	130	38.01	38.01	0.00	-218.54	681 (5)	8800 (5)	34574 (5)
11-14-S	100	130	38.01	38.01	0.00	-157.44	471 (5)	6087 (5)	23915 (5)
11-15-S	100	130	38.01	38.01	0.00	-100.15	278 (5)	3595 (5)	14124 (5)
11-16-S	100	130	38.01	38.01	0.00	-57.44	148 (5)	1912 (5)	7514 (5)
11-17-S	100	130	38.01	38.01	0.80	-23.84	55 (5)	709 (5)	2784 (5)
11-18-S	100	130	38.01	38.01	10.05	-0.94	24 (7)	1240 (7)	830 (7)
11-19-S	100	130	38.01	38.01	10.25	-1.09	45 (8)	2288 (8)	1219 (8)
11-20-S	100	130	38.01	38.01	19.30	-0.97	54 (5)	2722 (5)	1014 (5)
11-21-S	100	130	38.01	38.01	16.37	-0.74	43 (5)	2179 (5)	723 (5)
11-22-S	100	130	38.01	38.01	12.75	-0.95	31 (5)	1574 (5)	502 (5)
11-23-S	100	130	38.01	38.01	8.28	-0.99	20 (5)	1018 (5)	259 (5)
12-1-S	100	130	38.01	38.01	28.08	-6.11	94 (5)	4767 (5)	1213 (5)
12-2-S	100	130	38.01	38.01	47.42	-18.29	214 (5)	10852 (5)	3164 (5)
12-3-S	100	130	38.01	38.01	8.43	-33.49	116 (5)	1498 (5)	5883 (5)
12-4-S	100	130	38.01	38.01	3.50	-174.11	610 (5)	7872 (5)	30927 (5)
12-5-S	100	130	38.01	38.01	4.22	-112.63	435 (5)	5618 (5)	22073 (5)
12-6-S	100	130	38.01	38.01	42.44	-10.45	206 (5)	10471 (5)	2665 (5)
12-7-S	100	130	38.01	38.01	211.74	0.00	852 (5)	43221 (5)	11001 (5)
12-8-S	100	130	38.01	38.01	0.00	-335.14	1114 (5)	14385 (5)	56516 (5)
12-9-S	100	130	38.01	38.01	0.00	-316.51	1100 (5)	14207 (5)	55817 (5)
12-10-S	100	130	38.01	38.01	0.00	-479.26	1687 (5)	21783 (5)	85579 (5)
12-11-S	100	130	38.01	38.01	0.00	-433.37	1457 (5)	18815 (5)	73917 (5)
12-12-S	100	130	38.01	38.01	0.00	-361.86	1160 (5)	14975 (5)	58831 (5)
12-13-S	100	130	38.01	38.01	0.00	-253.83	780 (5)	10070 (5)	39562 (5)
12-14-S	100	130	38.01	38.01	0.00	-166.53	483 (5)	6243 (5)	24526 (5)
12-15-S	100	130	38.01	38.01	0.00	-88.45	225 (5)	2904 (5)	11408 (5)
12-16-S	100	130	38.01	38.01	11.26	-2.37	31 (7)	873 (7)	1586 (7)
12-17-S	100	130	38.01	38.01	47.16	-2.39	163 (6)	8282 (6)	2108 (6)
12-18-S	100	130	38.01	38.01	99.35	-3.76	321 (5)	16265 (5)	4140 (5)
12-19-S	100	130	38.01	38.01	57.92	-8.97	115 (5)	5836 (5)	2177 (5)
12-20-S	100	130	38.01	38.01	6.91	-51.12	199 (7)	3675 (7)	10080 (7)
12-21-S	100	130	38.01	38.01	3.22	-46.07	203 (8)	3595 (8)	10286 (8)
12-22-S	100	130	38.01	38.01	5.66	-45.19	145 (5)	2530 (5)	7377 (5)
12-23-S	100	130	38.01	38.01	4.53	-14.08	45 (6)	1284 (6)	2275 (6)
13-1-S	100	130	38.01	38.01	2.73	-15.76	53 (5)	684 (5)	2688 (5)
13-2-S	100	130	38.01	38.01	1.41	-23.88	78 (5)	1002 (5)	3936 (5)
13-3-S	100	130	38.01	38.01	3.16	-21.96	115 (5)	1488 (5)	5847 (5)
13-4-S	100	130	38.01	38.01	17.49	-12.96	88 (5)	3733 (5)	4482 (5)
13-5-S	100	130	38.01	38.01	55.20	-0.61	227 (5)	11492 (5)	2925 (5)
13-6-S	100	130	38.01	38.01	124.46	0.00	485 (5)	24595 (5)	6260 (5)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

IF2R

2.2.E.ZZ

CL

TR.16.0.5.003

A

90 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
13-7-S	100	130	38.01	38.01	214.04	0.00	812 (5)	41188 (5)	10484 (5)
13-8-S	100	130	38.01	38.01	0.00	-531.72	1794 (5)	23168 (5)	91019 (5)
13-9-S	100	130	38.01	38.01	0.00	-473.97	1589 (5)	20515 (5)	80596 (5)
13-10-S	100	130	38.01	38.01	0.00	-413.98	1374 (5)	17743 (5)	69709 (5)
13-11-S	100	130	38.01	38.01	0.00	-352.40	1154 (5)	14907 (5)	58567 (5)
13-12-S	100	130	38.01	38.01	0.00	-288.77	927 (5)	11970 (5)	47026 (5)
13-13-S	100	130	38.01	38.01	0.00	-221.44	685 (5)	8847 (5)	34756 (5)
13-14-S	100	130	38.01	38.01	0.00	-158.76	469 (5)	6062 (5)	23816 (5)
13-15-S	100	130	38.01	38.01	0.00	-99.51	271 (5)	3499 (5)	13746 (5)
13-16-S	100	130	38.01	38.01	0.00	-54.48	134 (5)	1729 (5)	6791 (5)
13-17-S	100	130	38.01	38.01	1.82	-22.17	50 (5)	647 (5)	2540 (5)
13-18-S	100	130	38.01	38.01	6.65	-3.67	40 (8)	1486 (8)	2046 (8)
13-19-S	100	130	38.01	38.01	18.41	-4.14	55 (6)	2770 (6)	2443 (6)
13-20-S	100	130	38.01	38.01	24.19	-5.15	66 (5)	3358 (5)	2460 (5)
13-21-S	100	130	38.01	38.01	19.54	-2.46	49 (5)	2473 (5)	1224 (5)
13-22-S	100	130	38.01	38.01	14.50	-1.68	35 (5)	1757 (5)	661 (5)
13-23-S	100	130	38.01	38.01	8.94	-1.78	22 (5)	1140 (5)	332 (5)
14-1-S	100	130	41.81	41.81	15.88	-14.54	51 (5)	2455 (5)	2239 (5)
14-2-S	100	130	41.81	41.81	24.98	-25.50	95 (5)	4593 (5)	3930 (5)
14-3-S	100	130	41.81	41.81	6.10	-32.33	101 (5)	1312 (5)	4906 (5)
14-4-S	100	130	41.81	41.81	7.41	-95.57	389 (5)	5054 (5)	18900 (5)
14-5-S	100	130	41.81	41.81	24.41	-40.16	420 (8)	8269 (8)	20405 (8)
14-6-S	100	130	41.81	41.81	80.38	-5.74	317 (5)	15390 (5)	4116 (5)
14-7-S	100	130	41.81	41.81	213.14	0.00	793 (5)	38491 (5)	10293 (5)
14-8-S	100	130	41.81	41.81	0.00	-430.54	1372 (5)	17818 (5)	66628 (5)
14-9-S	100	130	41.81	41.81	0.00	-394.20	1275 (5)	16559 (5)	61921 (5)
14-10-S	100	130	41.81	41.81	0.00	-446.45	1455 (5)	18896 (5)	70659 (5)
14-11-S	100	130	41.81	41.81	0.00	-393.54	1244 (5)	16153 (5)	60401 (5)
14-12-S	100	130	41.81	41.81	0.00	-326.35	995 (5)	12922 (5)	48319 (5)
14-13-S	100	130	41.81	41.81	0.00	-238.27	697 (5)	9054 (5)	33855 (5)
14-14-S	100	130	41.81	41.81	0.00	-162.71	452 (5)	5862 (5)	21921 (5)
14-15-S	100	130	41.81	41.81	0.00	-93.51	232 (5)	3015 (5)	11273 (5)
14-16-S	100	130	41.81	41.81	0.00	-38.33	75 (5)	976 (5)	3651 (5)
14-17-S	100	130	41.81	41.81	25.96	-6.88	86 (6)	4153 (6)	1420 (6)
14-18-S	100	130	41.81	41.81	54.27	-5.12	169 (5)	8199 (5)	2193 (5)
14-19-S	100	130	41.81	41.81	38.71	-7.51	82 (5)	3988 (5)	2013 (5)
14-20-S	100	130	41.81	41.81	10.26	-27.82	132 (7)	3205 (7)	6385 (7)
14-21-S	100	130	41.81	41.81	15.38	-28.08	127 (5)	2464 (5)	6189 (5)
14-22-S	100	130	41.81	41.81	11.40	-23.83	90 (5)	1889 (5)	4388 (5)
14-23-S	100	130	41.81	41.81	7.57	-7.96	28 (6)	1378 (6)	1150 (6)
15-1-S	100	130	38.01	38.01	15.88	-14.54	53 (5)	2696 (5)	2459 (5)
15-2-S	100	130	38.01	38.01	24.98	-25.50	99 (5)	5045 (5)	4317 (5)
15-3-S	100	130	38.01	38.01	6.10	-32.33	106 (5)	1372 (5)	5389 (5)
15-4-S	100	130	38.01	38.01	7.41	-95.57	409 (5)	5284 (5)	20760 (5)
15-5-S	100	130	38.01	38.01	24.41	-40.16	442 (8)	9083 (8)	22413 (8)
15-6-S	100	130	38.01	38.01	80.38	-5.74	333 (5)	16904 (5)	4303 (5)
15-7-S	100	130	38.01	38.01	213.14	0.00	833 (5)	42279 (5)	10761 (5)
15-8-S	100	130	38.01	38.01	0.00	-430.54	1443 (5)	18628 (5)	73186 (5)
15-9-S	100	130	38.01	38.01	0.00	-394.20	1341 (5)	17312 (5)	68015 (5)
15-10-S	100	130	38.01	38.01	0.00	-446.45	1530 (5)	19755 (5)	77613 (5)
15-11-S	100	130	38.01	38.01	0.00	-393.54	1308 (5)	16887 (5)	66346 (5)
15-12-S	100	130	38.01	38.01	0.00	-326.35	1046 (5)	13509 (5)	53074 (5)
15-13-S	100	130	38.01	38.01	0.00	-238.27	733 (5)	9465 (5)	37187 (5)
15-14-S	100	130	38.01	38.01	0.00	-162.71	475 (5)	6129 (5)	24078 (5)
15-15-S	100	130	38.01	38.01	0.00	-93.51	244 (5)	3152 (5)	12382 (5)
15-16-S	100	130	38.01	38.01	0.00	-38.33	79 (5)	1021 (5)	4011 (5)
15-17-S	100	130	38.01	38.01	25.96	-6.88	90 (6)	4562 (6)	1559 (6)
15-18-S	100	130	38.01	38.01	54.27	-5.12	178 (5)	9006 (5)	2292 (5)
15-19-S	100	130	38.01	38.01	19.62	-7.55	86 (8)	4381 (8)	2211 (8)
15-20-S	100	130	38.01	38.01	10.26	-27.82	138 (7)	3520 (7)	7014 (7)
15-21-S	100	130	38.01	38.01	15.38	-28.08	134 (5)	2707 (5)	6799 (5)
15-22-S	100	130	38.01	38.01	11.40	-23.83	95 (5)	2075 (5)	4820 (5)
15-23-S	100	130	38.01	38.01	7.57	-7.96	30 (6)	1514 (6)	1263 (6)
16-1-S	100	130	38.01	38.01	2.73	-15.76	53 (5)	684 (5)	2688 (5)
16-2-S	100	130	38.01	38.01	1.41	-23.88	78 (5)	1002 (5)	3936 (5)
16-3-S	100	130	38.01	38.01	3.16	-21.96	115 (5)	1488 (5)	5847 (5)
16-4-S	100	130	38.01	38.01	17.49	-12.96	88 (5)	3733 (5)	4482 (5)
16-5-S	100	130	38.01	38.01	55.20	-0.61	227 (5)	11492 (5)	2925 (5)
16-6-S	100	130	38.01	38.01	124.46	0.00	485 (5)	24595 (5)	6260 (5)
16-7-S	100	130	38.01	38.01	214.04	0.00	812 (5)	41188 (5)	10484 (5)
16-8-S	100	130	38.01	38.01	0.00	-531.72	1794 (5)	23168 (5)	91019 (5)
16-9-S	100	130	38.01	38.01	0.00	-473.97	1589 (5)	20515 (5)	80596 (5)
16-10-S	100	130	38.01	38.01	0.00	-413.98	1374 (5)	17743 (5)	69709 (5)
16-11-S	100	130	38.01	38.01	0.00	-352.40	1154 (5)	14907 (5)	58567 (5)
16-12-S	100	130	38.01	38.01	0.00	-288.77	927 (5)	11970 (5)	47026 (5)
16-13-S	100	130	38.01	38.01	0.00	-221.44	685 (5)	8847 (5)	34756 (5)
16-14-S	100	130	38.01	38.01	0.00	-158.76	469 (5)	6062 (5)	23816 (5)
16-15-S	100	130	38.01	38.01	0.00	-99.51	271 (5)	3499 (5)	13746 (5)
16-16-S	100	130	38.01	38.01	0.00	-54.48	134 (5)	1729 (5)	6791 (5)
16-17-S	100	130	38.01	38.01	1.82	-22.17	50 (5)	647 (5)	2540 (5)
16-18-S	100	130	38.01	38.01	6.65	-3.67	40 (8)	1486 (8)	2046 (8)

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria: Mandante:

SYSTRA S.A. **SWS Engineering S.p.A.** **SYSTRA-SOTECNI S.p.A.**

Relazione di calcolo
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	91 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	sc [kPa]	ofi [kPa]	ofs [kPa]
16-19-S	100	130	38.01	38.01	18.41	-4.14	55 (6)	2770 (6)	2443 (6)
16-20-S	100	130	38.01	38.01	24.19	-5.15	66 (5)	3358 (5)	2460 (5)
16-21-S	100	130	38.01	38.01	19.54	-2.46	49 (5)	2473 (5)	1224 (5)
16-22-S	100	130	38.01	38.01	14.50	-1.68	35 (5)	1757 (5)	661 (5)
16-23-S	100	130	38.01	38.01	8.94	-1.78	22 (5)	1140 (5)	332 (5)
17-1-S	100	130	38.01	38.01	28.08	-6.11	94 (5)	4767 (5)	1213 (5)
17-2-S	100	130	38.01	38.01	47.42	-18.29	214 (5)	10852 (5)	3164 (5)
17-3-S	100	130	38.01	38.01	8.43	-33.49	116 (5)	1498 (5)	5883 (5)
17-4-S	100	130	38.01	38.01	3.50	-174.11	610 (5)	7872 (5)	30927 (5)
17-5-S	100	130	38.01	38.01	4.22	-112.63	435 (5)	5618 (5)	22073 (5)
17-6-S	100	130	38.01	38.01	42.44	-10.45	206 (5)	10471 (5)	2665 (5)
17-7-S	100	130	38.01	38.01	211.74	0.00	852 (5)	43221 (5)	11001 (5)
17-8-S	100	130	38.01	38.01	0.00	-335.14	1114 (5)	14385 (5)	56516 (5)
17-9-S	100	130	38.01	38.01	0.00	-316.51	1100 (5)	14207 (5)	55817 (5)
17-10-S	100	130	38.01	38.01	0.00	-479.26	1687 (5)	21783 (5)	85579 (5)
17-11-S	100	130	38.01	38.01	0.00	-433.37	1457 (5)	18815 (5)	73917 (5)
17-12-S	100	130	38.01	38.01	0.00	-361.86	1160 (5)	14975 (5)	58831 (5)
17-13-S	100	130	38.01	38.01	0.00	-253.83	780 (5)	10070 (5)	39562 (5)
17-14-S	100	130	38.01	38.01	0.00	-166.53	483 (5)	6243 (5)	24526 (5)
17-15-S	100	130	38.01	38.01	0.00	-88.45	225 (5)	2904 (5)	11408 (5)
17-16-S	100	130	38.01	38.01	11.26	-2.37	31 (7)	873 (7)	1586 (7)
17-17-S	100	130	38.01	38.01	47.16	-2.39	163 (6)	8282 (6)	2108 (6)
17-18-S	100	130	38.01	38.01	99.35	-3.76	321 (5)	16265 (5)	4140 (5)
17-19-S	100	130	38.01	38.01	57.92	-8.97	115 (5)	5836 (5)	2177 (5)
17-20-S	100	130	38.01	38.01	6.91	-51.12	199 (7)	3675 (7)	10080 (7)
17-21-S	100	130	38.01	38.01	3.22	-46.07	203 (8)	3595 (8)	10286 (8)
17-22-S	100	130	38.01	38.01	5.66	-45.19	145 (5)	2530 (5)	7377 (5)
17-23-S	100	130	38.01	38.01	4.53	-14.08	45 (6)	1284 (6)	2275 (6)
18-1-S	100	130	38.01	38.01	1.26	-17.35	59 (5)	762 (5)	2995 (5)
18-2-S	100	130	38.01	38.01	2.03	-17.93	57 (5)	732 (5)	2876 (5)
18-3-S	100	130	38.01	38.01	3.37	-10.20	47 (5)	847 (5)	2370 (5)
18-4-S	100	130	38.01	38.01	18.51	-0.92	81 (8)	4131 (8)	1052 (8)
18-5-S	100	130	38.01	38.01	66.42	0.00	269 (5)	13634 (5)	3470 (5)
18-6-S	100	130	38.01	38.01	134.10	0.00	518 (5)	26286 (5)	6691 (5)
18-7-S	100	130	38.01	38.01	216.33	0.00	816 (5)	41397 (5)	10537 (5)
18-8-S	100	130	38.01	38.01	0.00	-548.92	1862 (5)	24041 (5)	94450 (5)
18-9-S	100	130	38.01	38.01	0.00	-471.66	1584 (5)	20454 (5)	80358 (5)
18-10-S	100	130	38.01	38.01	0.00	-412.21	1372 (5)	17715 (5)	69596 (5)
18-11-S	100	130	38.01	38.01	0.00	-349.35	1146 (5)	14805 (5)	58164 (5)
18-12-S	100	130	38.01	38.01	0.00	-285.13	917 (5)	11845 (5)	46535 (5)
18-13-S	100	130	38.01	38.01	0.00	-218.54	681 (5)	8800 (5)	34574 (5)
18-14-S	100	130	38.01	38.01	0.00	-157.44	471 (5)	6087 (5)	23915 (5)
18-15-S	100	130	38.01	38.01	0.00	-100.15	278 (5)	3595 (5)	14124 (5)
18-16-S	100	130	38.01	38.01	0.00	-57.44	148 (5)	1912 (5)	7514 (5)
18-17-S	100	130	38.01	38.01	0.80	-23.84	55 (5)	709 (5)	2784 (5)
18-18-S	100	130	38.01	38.01	10.05	-0.94	24 (7)	1240 (7)	830 (7)
18-19-S	100	130	38.01	38.01	10.25	-1.09	45 (8)	2288 (8)	1219 (8)
18-20-S	100	130	38.01	38.01	19.30	-0.97	54 (5)	2722 (5)	1014 (5)
18-21-S	100	130	38.01	38.01	16.37	-0.74	43 (5)	2179 (5)	723 (5)
18-22-S	100	130	38.01	38.01	12.75	-0.95	31 (5)	1574 (5)	502 (5)
18-23-S	100	130	38.01	38.01	8.28	-0.99	20 (5)	1018 (5)	259 (5)
19-1-S	100	130	38.01	38.01	22.92	-9.35	76 (5)	3859 (5)	1555 (5)
19-2-S	100	130	38.01	38.01	44.11	-21.69	199 (5)	10101 (5)	3708 (5)
19-3-S	100	130	38.01	38.01	8.18	-30.64	103 (5)	1326 (5)	5211 (5)
19-4-S	100	130	38.01	38.01	5.22	-153.41	534 (5)	6901 (5)	27113 (5)
19-5-S	100	130	38.01	38.01	13.87	-101.69	397 (5)	7484 (5)	20146 (5)
19-6-S	100	130	38.01	38.01	56.17	-12.19	245 (5)	12451 (5)	3169 (5)
19-7-S	100	130	38.01	38.01	213.19	0.00	850 (5)	43111 (5)	10973 (5)
19-8-S	100	130	38.01	38.01	0.00	-365.83	1240 (5)	16013 (5)	62913 (5)
19-9-S	100	130	38.01	38.01	0.00	-332.33	1165 (5)	15046 (5)	59110 (5)
19-10-S	100	130	38.01	38.01	0.00	-468.12	1652 (5)	21335 (5)	83821 (5)
19-11-S	100	130	38.01	38.01	0.00	-420.18	1421 (5)	18344 (5)	72068 (5)
19-12-S	100	130	38.01	38.01	0.00	-349.76	1130 (5)	14594 (5)	57336 (5)
19-13-S	100	130	38.01	38.01	0.00	-247.37	769 (5)	9926 (5)	38995 (5)
19-14-S	100	130	38.01	38.01	0.00	-163.86	483 (5)	6236 (5)	24501 (5)
19-15-S	100	130	38.01	38.01	0.00	-88.99	233 (5)	3005 (5)	11805 (5)
19-16-S	100	130	38.01	38.01	8.37	-3.98	52 (7)	1188 (7)	2649 (7)
19-17-S	100	130	38.01	38.01	41.00	-3.50	141 (6)	7138 (6)	1817 (6)
19-18-S	100	130	38.01	38.01	88.49	-3.90	285 (5)	14468 (5)	3683 (5)
19-19-S	100	130	38.01	38.01	52.05	-7.06	102 (5)	5167 (5)	1685 (5)
19-20-S	100	130	38.01	38.01	7.03	-44.04	170 (7)	3565 (7)	8648 (7)
19-21-S	100	130	38.01	38.01	12.00	-47.98	182 (5)	2936 (5)	9252 (5)
19-22-S	100	130	38.01	38.01	6.45	-36.59	131 (6)	2243 (6)	6663 (6)
19-23-S	100	130	38.01	38.01	6.70	-14.81	39 (5)	1518 (5)	2003 (5)
20-1-S	100	130	38.01	38.01	3.34	-13.96	57 (5)	2888 (5)	2348 (5)
20-2-S	100	130	38.01	38.01	0.31	-23.45	78 (5)	1010 (5)	3968 (5)
20-3-S	100	130	38.01	38.01	0.74	-31.53	130 (5)	1673 (5)	6571 (5)
20-4-S	100	130	38.01	38.01	7.83	-38.94	210 (5)	2708 (5)	10639 (5)
20-5-S	100	130	38.01	38.01	32.06	-15.93	170 (5)	8646 (5)	3842 (5)
20-6-S	100	130	38.01	38.01	95.38	-0.35	386 (5)	19596 (5)	4988 (5)
20-7-S	100	130	38.01	38.01	203.58	0.00	782 (5)	39687 (5)	10102 (5)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	92 di 123

Is	B [cm]	H [cm]	Afi [cmq]	Afs [cmq]	Mp [kNm]	Mn [kNm]	σ_c [kPa]	σ_f [kPa]	σ_{sf} [kPa]
20-8-S	100	130	38.01	38.01	0.00	-487.10	1682 (5)	21724 (5)	85347 (5)
20-9-S	100	130	38.01	38.01	0.00	-439.40	1515 (5)	19568 (5)	76879 (5)
20-10-S	100	130	38.01	38.01	0.00	-412.36	1412 (5)	18231 (5)	71626 (5)
20-11-S	100	130	38.01	38.01	0.00	-356.33	1198 (5)	15471 (5)	60780 (5)
20-12-S	100	130	38.01	38.01	0.00	-294.31	965 (5)	12457 (5)	48942 (5)
20-13-S	100	130	38.01	38.01	0.00	-222.77	701 (5)	9052 (5)	35561 (5)
20-14-S	100	130	38.01	38.01	0.00	-157.05	471 (5)	6080 (5)	23887 (5)
20-15-S	100	130	38.01	38.01	0.00	-95.15	261 (5)	3366 (5)	13225 (5)
20-16-S	100	130	38.01	38.01	0.20	-47.26	118 (5)	1520 (5)	5971 (5)
20-17-S	100	130	38.01	38.01	14.97	-8.22	57 (7)	2395 (7)	2895 (7)
20-18-S	100	130	38.01	38.01	24.52	-7.16	80 (6)	4074 (6)	1869 (6)
20-19-S	100	130	38.01	38.01	17.38	-9.67	76 (8)	3880 (8)	2159 (8)
20-20-S	100	130	38.01	38.01	27.93	-11.95	70 (5)	3529 (5)	2660 (5)
20-21-S	100	130	38.01	38.01	18.36	-8.18	52 (5)	2644 (5)	1702 (5)
20-22-S	100	130	38.01	38.01	11.00	-5.19	41 (6)	2057 (6)	1069 (6)
20-23-S	100	130	38.01	38.01	11.20	-3.63	31 (5)	1598 (5)	483 (5)

Pali in c.a.

Ip	Is	Ar [cmq]	σ_c [kPa]	σ_f [kPa]	τ_c [kPa]	σ_{sf} [kPa]
1	1	108.57	7165	138308		
1	2	108.57	6132	114775		
1	3	108.57	5110	91561		
1	4	108.57	4111	68967		
1	5	108.57	3144	47338		
1	6	108.57	2221	27154		
1	7	108.57	1360	16885		
1	8	108.57	869	12425		
1	9	108.57	752	11046		
1	10	108.57	981	13764		
1	11	108.57	1357	16905		
1	12	108.57	1778	21534		
1	13	108.57	2125	25302		
1	14	108.57	2401	29872		
1	15	108.57	2612	34280		
1	16	108.57	2765	37487		
1	17	108.57	2868	39611		
1	18	108.57	2925	40773		
1	19	108.57	2944	41096		
1	20	108.57	2929	40692		
1	21	108.57	2885	39670		
1	22	108.57	2817	38131		
1	23	108.57	2729	36168		
1	24	108.57	2624	33905		
1	25	108.57	2508	31451		
1	26	108.57	2385	28852		
1	27	108.57	2256	26802		
1	28	108.57	2123	25364		
1	29	108.57	1989	23902		
1	30	108.57	1854	22431		
1	31	108.57	1720	20968		
1	32	108.57	1589	19526		
1	33	108.57	1462	18119		
1	34	108.57	1340	16761		
1	35	108.57	1224	15465		
1	36	108.57	1116	14377		
1	37	108.57	1017	13817		
1	38	108.57	951	13279		
1	39	108.57	909	12765		
1	40	108.57	869	12274		
1	41	108.57	831	11807		
1	42	108.57	795	11364		
1	43	108.57	762	10944		
1	44	108.57	730	10548		
1	45	108.57	700	10174		
1	46	108.57	672	9821		
1	47	108.57	646	9489		
1	48	108.57	622	9177		
1	49	108.57	599	8882		
1	50	108.57	578	8605		
1	51	108.57	558	8345		
1	52	108.57	547	8192		
1	53	108.57	548	8174		
1	54	108.57	547	8139		
1	55	108.57	545	8087		
1	56	108.57	541	8020		
1	57	108.57	537	7940		
1	58	108.57	531	7847		

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	93 di 123

Ip	Is	Ar [cmq]	σ_c [kPa]	σ_f [kPa]	τ_c [kPa]	σ_{sf} [kPa]
1	59	108.57	525	7743		
1	60	108.57	518	7628		
1	61	108.57	510	7504		
1	62	108.57	501	7371		
1	63	108.57	492	7230		
1	64	108.57	482	7082		
1	65	108.57	471	6928		
1	66	108.57	460	6768		
1	67	108.57	449	6604		
1	68	108.57	437	6435		
1	69	108.57	426	6262		
1	70	108.57	413	6086		
1	71	108.57	401	5907		
1	72	108.57	389	5726		
1	73	108.57	376	5542		
1	74	108.57	363	5356		
1	75	108.57	350	5169		
1	76	108.57	337	4980		
1	77	108.57	324	4790		
1	78	108.57	311	4599		
1	79	108.57	298	4407		
1	80	108.57	284	4214		
1	81	108.57	271	4021		
1	82	108.57	258	3826		
1	83	108.57	245	3631		
1	84	108.57	231	3435		
1	85	108.57	218	3239		
1	86	108.57	204	3042		
1	87	108.57	191	2845		
1	88	108.57	178	2647		
1	89	108.57	164	2448		
1	90	108.57	151	2249		
1	91	108.57	137	2049		
1	92	108.57	124	1848		
1	93	108.57	110	1646		
1	94	108.57	97	1444		
1	95	108.57	83	1241		
1	96	108.57	69	1036		
1	97	108.57	56	831		
1	98	108.57	42	625		
1	99	108.57	28	418		
1	100	108.57	14	210		
1	101	108.57	0	0		
2	1	108.57	7334	87612		
2	2	108.57	6285	75520		
2	3	108.57	5251	64289		
2	4	108.57	4259	53374		
2	5	108.57	3358	43252		
2	6	108.57	2618	34709		
2	7	108.57	2041	27888		
2	8	108.57	1522	21748		
2	9	108.57	1305	19189		
2	10	108.57	1708	23971		
2	11	108.57	2048	28013		
2	12	108.57	2332	31379		
2	13	108.57	2567	34167		
2	14	108.57	2767	36524		
2	15	108.57	2929	38428		
2	16	108.57	3053	39869		
2	17	108.57	3138	40860		
2	18	108.57	3187	41435		
2	19	108.57	3204	41637		
2	20	108.57	3193	41516		
2	21	108.57	3158	41119		
2	22	108.57	3103	40498		
2	23	108.57	3033	39697		
2	24	108.57	2952	38758		
2	25	108.57	2865	37745		
2	26	108.57	2774	36688		
2	27	108.57	2682	35612		
2	28	108.57	2590	34536		
2	29	108.57	2500	33473		
2	30	108.57	2412	32427		
2	31	108.57	2324	31389		
2	32	108.57	2237	30367		
2	33	108.57	2153	29367		
2	34	108.57	2071	28396		
2	35	108.57	1992	27459		
2	36	108.57	1916	26560		
2	37	108.57	1844	25703		
2	38	108.57	1775	24890		

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	94 di 123

Ip	Is	Ar [cmq]	σ_c [kPa]	σ_f [kPa]	τ_c [kPa]	σ_{sf} [kPa]
2	39	108.57	1710	24122		
2	40	108.57	1649	23401		
2	41	108.57	1593	22727		
2	42	108.57	1540	22100		
2	43	108.57	1491	21519		
2	44	108.57	1446	20983		
2	45	108.57	1405	20491		
2	46	108.57	1367	20042		
2	47	108.57	1333	19634		
2	48	108.57	1302	19265		
2	49	108.57	1274	18932		
2	50	108.57	1249	18634		
2	51	108.57	1227	18370		
2	52	108.57	1221	18289		
2	53	108.57	1235	18455		
2	54	108.57	1247	18593		
2	55	108.57	1257	18705		
2	56	108.57	1265	18793		
2	57	108.57	1271	18859		
2	58	108.57	1275	18906		
2	59	108.57	1278	18934		
2	60	108.57	1279	18947		
2	61	108.57	1280	18945		
2	62	108.57	1279	18931		
2	63	108.57	1277	18905		
2	64	108.57	1275	18869		
2	65	108.57	1271	18825		
2	66	108.57	1267	18773		
2	67	108.57	1263	18716		
2	68	108.57	1258	18653		
2	69	108.57	1253	18585		
2	70	108.57	1248	18515		
2	71	108.57	1242	18441		
2	72	108.57	1236	18366		
2	73	108.57	1230	18288		
2	74	108.57	1224	18210		
2	75	108.57	1218	18132		
2	76	108.57	1212	18053		
2	77	108.57	1207	17975		
2	78	108.57	1201	17897		
2	79	108.57	1195	17820		
2	80	108.57	1189	17744		
2	81	108.57	1183	17668		
2	82	108.57	1178	17594		
2	83	108.57	1172	17522		
2	84	108.57	1167	17450		
2	85	108.57	1162	17380		
2	86	108.57	1157	17312		
2	87	108.57	1152	17245		
2	88	108.57	1147	17179		
2	89	108.57	1143	17114		
2	90	108.57	1138	17051		
2	91	108.57	1134	16989		
2	92	108.57	1129	16928		
2	93	108.57	1125	16868		
2	94	108.57	1121	16809		
2	95	108.57	1117	16751		
2	96	108.57	1113	16694		
2	97	108.57	1109	16638		
2	98	108.57	1106	16582		
2	99	108.57	1102	16527		
2	100	108.57	1098	16472		
2	101	108.57	1095	16418		
3	1	108.57	7479	93417		
3	2	108.57	6483	82309		
3	3	108.57	5554	71799		
3	4	108.57	4736	62356		
3	5	108.57	4049	54291		
3	6	108.57	3441	47092		
3	7	108.57	2873	40373		
3	8	108.57	2354	34229		
3	9	108.57	2137	31666		
3	10	108.57	2539	36443		
3	11	108.57	2879	40480		
3	12	108.57	3162	43839		
3	13	108.57	3393	46580		
3	14	108.57	3577	48762		
3	15	108.57	3718	50439		
3	16	108.57	3821	51666		
3	17	108.57	3890	52494		
3	18	108.57	3930	52969		

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	95 di 123

Ip	Is	Ar [cmq]	σ_c [kPa]	σ_f [kPa]	τ_c [kPa]	σ_{sf} [kPa]
3	19	108.57	3943	53136		
3	20	108.57	3935	53037		
3	21	108.57	3907	52711		
3	22	108.57	3863	52192		
3	23	108.57	3805	51515		
3	24	108.57	3736	50698		
3	25	108.57	3660	49795		
3	26	108.57	3579	48829		
3	27	108.57	3493	47816		
3	28	108.57	3405	46773		
3	29	108.57	3316	45712		
3	30	108.57	3226	44647		
3	31	108.57	3137	43586		
3	32	108.57	3049	42540		
3	33	108.57	2963	41515		
3	34	108.57	2879	40519		
3	35	108.57	2798	39556		
3	36	108.57	2721	38631		
3	37	108.57	2646	37746		
3	38	108.57	2576	36905		
3	39	108.57	2509	36108		
3	40	108.57	2447	35357		
3	41	108.57	2388	34653		
3	42	108.57	2333	33994		
3	43	108.57	2282	33381		
3	44	108.57	2234	32812		
3	45	108.57	2191	32287		
3	46	108.57	2151	31803		
3	47	108.57	2114	31359		
3	48	108.57	2081	30954		
3	49	108.57	2051	30584		
3	50	108.57	2023	30249		
3	51	108.57	1999	29946		
3	52	108.57	1990	29827		
3	53	108.57	2002	29954		
3	54	108.57	2011	30053		
3	55	108.57	2018	30125		
3	56	108.57	2023	30173		
3	57	108.57	2027	30199		
3	58	108.57	2028	30204		
3	59	108.57	2028	30192		
3	60	108.57	2027	30163		
3	61	108.57	2024	30119		
3	62	108.57	2021	30062		
3	63	108.57	2016	29993		
3	64	108.57	2011	29914		
3	65	108.57	2005	29827		
3	66	108.57	1998	29731		
3	67	108.57	1991	29629		
3	68	108.57	1983	29521		
3	69	108.57	1975	29408		
3	70	108.57	1966	29292		
3	71	108.57	1958	29172		
3	72	108.57	1949	29050		
3	73	108.57	1940	28926		
3	74	108.57	1931	28801		
3	75	108.57	1921	28675		
3	76	108.57	1912	28548		
3	77	108.57	1903	28421		
3	78	108.57	1894	28294		
3	79	108.57	1885	28168		
3	80	108.57	1876	28042		
3	81	108.57	1867	27917		
3	82	108.57	1858	27792		
3	83	108.57	1849	27669		
3	84	108.57	1840	27546		
3	85	108.57	1832	27424		
3	86	108.57	1823	27304		
3	87	108.57	1815	27184		
3	88	108.57	1806	27065		
3	89	108.57	1798	26947		
3	90	108.57	1790	26830		
3	91	108.57	1782	26714		
3	92	108.57	1774	26599		
3	93	108.57	1766	26484		
3	94	108.57	1759	26370		
3	95	108.57	1751	26256		
3	96	108.57	1743	26143		
3	97	108.57	1735	26030		
3	98	108.57	1728	25917		
3	99	108.57	1720	25805		

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	96 di 123

Ip	Is	Ar [cmq]	σ_c [kPa]	σ_f [kPa]	τ_c [kPa]	σ_{sf} [kPa]
3	100	108.57	1713	25692		
3	101	108.57	1705	25580		

Verifica a fessurazione

Simbologia adottata

n°	indice sezione
Y	ordinata sezione espressa in [m]
B	larghezza sezione espressa in [cm]
H	altezza sezione espressa in [cm]
Af	area ferri zona tesa espresso in [cmq]
Aeff	area efficace espressa in [cmq]
M	momento agente espressa in [kNm]
Mpf	momento di prima fessurazione espressa in [kNm]
ε	deformazione espresso in %
Sm	spaziatura tra le fessure espressa in [mm]
w	apertura delle fessure espressa in [mm]

Combinazioni SLER

Paramento

Apertura limite fessure $w_{lim}=0.20$

n°	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
1	100	70	31.42	2000.00	2.00	381.19	0.000000	0.00	0.000 (5)
2	100	70	31.42	2000.00	2.70	381.39	0.000000	0.00	0.000 (5)
3	100	70	31.42	2000.00	3.40	381.61	0.000000	0.00	0.000 (5)
4	100	70	31.42	2000.00	4.10	381.81	0.000000	0.00	0.000 (5)
5	100	70	31.42	2000.00	4.80	382.04	0.000000	0.00	0.000 (5)
6	100	70	31.42	2000.00	5.50	382.26	0.000000	0.00	0.000 (5)
7	100	70	31.42	2000.00	6.20	382.46	0.000000	0.00	0.000 (5)
8	100	70	31.42	2000.00	6.90	382.68	0.000000	0.00	0.000 (5)
9	100	70	31.42	2000.00	7.60	382.88	0.000000	0.00	0.000 (5)
10	100	70	31.42	2000.00	8.30	383.10	0.000000	0.00	0.000 (5)
11	100	70	31.42	2000.00	9.00	383.30	0.000000	0.00	0.000 (5)
12	100	70	31.42	2000.00	9.70	383.53	0.000000	0.00	0.000 (5)
13	100	70	31.42	2000.00	10.40	383.73	0.000000	0.00	0.000 (5)
14	100	70	31.42	2000.00	11.10	383.95	0.000000	0.00	0.000 (5)
15	100	70	31.42	2000.00	11.80	384.15	0.000000	0.00	0.000 (5)
16	100	70	31.42	2000.00	12.50	384.37	0.000000	0.00	0.000 (5)
17	100	70	31.42	2000.00	13.20	384.57	0.000000	0.00	0.000 (5)
18	100	70	31.42	2000.00	13.90	384.79	0.000000	0.00	0.000 (5)
19	100	70	31.42	2000.00	14.60	385.00	0.000000	0.00	0.000 (5)
20	100	70	31.42	2000.00	15.30	385.22	0.000000	0.00	0.000 (5)
21	100	70	31.42	2000.00	16.00	385.44	0.000000	0.00	0.000 (5)
22	100	70	31.42	2000.00	16.70	385.64	0.000000	0.00	0.000 (5)
23	100	70	31.42	2000.00	17.40	385.86	0.000000	0.00	0.000 (5)
24	100	70	31.42	2000.00	18.10	386.06	0.000000	0.00	0.000 (5)
25	100	70	31.42	2000.00	18.80	386.28	0.000000	0.00	0.000 (5)
26	100	70	31.42	2000.00	19.50	386.48	0.000000	0.00	0.000 (5)
27	100	70	31.42	2000.00	20.20	386.71	0.000000	0.00	0.000 (5)
28	100	70	31.42	2000.00	20.90	386.91	0.000000	0.00	0.000 (5)
29	100	70	31.42	2000.00	21.60	387.13	0.000000	0.00	0.000 (5)
30	100	70	31.42	2000.00	22.29	387.33	0.000000	0.00	0.000 (5)
31	100	70	31.42	2000.00	22.99	387.55	0.000000	0.00	0.000 (5)
32	100	70	31.42	2000.00	23.75	387.77	0.000000	0.00	0.000 (5)
33	100	70	31.42	2000.00	24.60	387.97	0.000000	0.00	0.000 (5)
34	100	70	31.42	2000.00	25.57	388.19	0.000000	0.00	0.000 (5)
35	100	70	31.42	2000.00	26.65	388.39	0.000000	0.00	0.000 (5)
36	100	70	31.42	2000.00	27.85	388.62	0.000000	0.00	0.000 (5)
37	100	70	31.42	2000.00	29.18	388.82	0.000000	0.00	0.000 (5)
38	100	70	31.42	2000.00	30.64	389.03	0.000000	0.00	0.000 (5)
39	100	70	31.42	2000.00	32.23	389.24	0.000000	0.00	0.000 (5)
40	100	70	31.42	2000.00	33.96	389.46	0.000000	0.00	0.000 (5)
41	100	70	31.42	2000.00	35.84	389.67	0.000000	0.00	0.000 (5)
42	100	120	31.42	2000.00	49.81	1060.06	0.000000	0.00	0.000 (5)
43	100	120	31.42	2000.00	52.18	1060.71	0.000000	0.00	0.000 (5)
44	100	120	31.42	2000.00	55.25	1061.33	0.000000	0.00	0.000 (5)
45	100	120	31.42	2000.00	58.84	1061.96	0.000000	0.00	0.000 (5)
46	100	120	31.42	2000.00	62.74	1062.57	0.000000	0.00	0.000 (5)
47	100	120	31.42	2000.00	66.81	1063.20	0.000000	0.00	0.000 (5)
48	100	120	31.42	2000.00	71.03	1063.81	0.000000	0.00	0.000 (5)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	97 di 123

n°	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
49	100	120	31.42	2000.00	75.40	1064.43	0.000000	0.00	0.000 (5)
50	100	120	31.42	2000.00	79.93	1065.06	0.000000	0.00	0.000 (5)
51	100	120	31.42	2000.00	84.64	1065.66	0.000000	0.00	0.000 (5)
52	100	120	31.42	2000.00	89.52	1066.29	0.000000	0.00	0.000 (5)
53	100	120	31.42	2000.00	94.58	1066.91	0.000000	0.00	0.000 (5)
54	100	120	31.42	2000.00	99.84	1067.49	0.000000	0.00	0.000 (5)
55	100	120	31.42	2000.00	105.29	1068.12	0.000000	0.00	0.000 (5)
56	100	120	31.42	2000.00	110.94	1068.75	0.000000	0.00	0.000 (5)
57	100	120	31.42	2000.00	116.80	1069.36	0.000000	0.00	0.000 (5)
58	100	120	31.42	2000.00	122.87	1069.99	0.000000	0.00	0.000 (5)
59	100	120	31.42	2000.00	129.16	1070.61	0.000000	0.00	0.000 (5)
60	100	120	31.42	2000.00	135.67	1071.22	0.000000	0.00	0.000 (5)
61	100	120	31.42	2000.00	142.41	1071.84	0.000000	0.00	0.000 (5)
62	100	120	31.42	2000.00	149.39	1072.45	0.000000	0.00	0.000 (5)
63	100	120	31.42	2000.00	156.60	1073.08	0.000000	0.00	0.000 (5)
64	100	120	31.42	2000.00	164.06	1073.68	0.000000	0.00	0.000 (5)
65	100	120	31.42	2000.00	171.77	1074.30	0.000000	0.00	0.000 (5)
66	100	120	31.42	2000.00	179.73	1074.91	0.000000	0.00	0.000 (5)
67	100	120	31.42	2000.00	187.96	1075.55	0.000000	0.00	0.000 (5)
68	100	120	31.42	2000.00	196.44	1076.14	0.000000	0.00	0.000 (5)
69	100	120	31.42	2000.00	205.20	1076.78	0.000000	0.00	0.000 (5)
70	100	120	31.42	2000.00	214.23	1077.38	0.000000	0.00	0.000 (5)
71	100	120	31.42	2000.00	223.54	1078.03	0.000000	0.00	0.000 (5)
72	100	120	31.42	2000.00	233.13	1078.66	0.000000	0.00	0.000 (5)
73	100	120	31.42	2000.00	243.01	1079.27	0.000000	0.00	0.000 (5)
74	100	120	31.42	2000.00	253.19	1079.87	0.000000	0.00	0.000 (5)
75	100	120	31.42	2000.00	263.66	1080.50	0.000000	0.00	0.000 (5)
76	100	120	31.42	2000.00	274.44	1081.12	0.000000	0.00	0.000 (5)
77	100	120	31.42	2000.00	285.52	1081.71	0.000000	0.00	0.000 (5)
78	100	120	31.42	2000.00	296.92	1082.35	0.000000	0.00	0.000 (5)
79	100	120	31.42	2000.00	308.64	1082.96	0.000000	0.00	0.000 (5)
80	100	120	31.42	2000.00	320.68	1083.58	0.000000	0.00	0.000 (5)
81	100	120	31.42	2000.00	333.05	1084.19	0.000000	0.00	0.000 (5)
82	100	120	31.42	2000.00	345.78	1084.81	0.000000	0.00	0.000 (5)
83	100	120	31.42	2000.00	346.04	1084.84	0.000000	0.00	0.000 (5)
84	100	120	31.42	2000.00	359.14	1085.46	0.000000	0.00	0.000 (5)
85	100	120	31.42	2000.00	372.66	1086.06	0.000000	0.00	0.000 (5)
86	100	120	31.42	2000.00	386.62	1086.70	0.000000	0.00	0.000 (5)
87	100	120	31.42	2000.00	401.06	1087.31	0.000000	0.00	0.000 (5)
88	100	120	31.42	2000.00	415.98	1087.90	0.000000	0.00	0.000 (5)
89	100	120	31.42	2000.00	431.40	1088.53	0.000000	0.00	0.000 (5)
90	100	120	31.42	2000.00	447.32	1089.17	0.000000	0.00	0.000 (5)
91	100	120	31.42	2000.00	463.74	1089.77	0.000000	0.00	0.000 (5)
92	100	120	31.42	2000.00	480.68	1090.38	0.000000	0.00	0.000 (5)
93	100	120	31.42	2000.00	498.13	1091.02	0.000000	0.00	0.000 (5)

Piastra fondazioneApertura limite fessure $w_{lim}=0.20$

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
1-1-P	75	130	30.41	3771.72	3.78	-889.99	0.000000	0.00	0.000
1-2-P	75	130	30.41	3771.72	-6.51	-889.99	0.000000	0.00	0.000
1-3-P	75	130	30.41	3771.72	-23.06	-889.99	0.000000	0.00	0.000
1-4-P	75	130	30.41	3771.72	-60.04	-889.99	0.000000	0.00	0.000
1-5-P	75	130	30.41	3771.72	-94.25	-889.99	0.000000	0.00	0.000
1-6-P	75	130	30.41	3771.72	-113.39	-889.99	0.000000	0.00	0.000
1-7-P	75	130	30.41	3771.72	-64.37	-889.99	0.000000	0.00	0.000
1-8-P	75	130	30.41	3771.72	-22.79	-889.99	0.000000	0.00	0.000
1-9-P	75	130	30.41	3771.72	33.15	-889.99	0.000000	0.00	0.000
1-10-P	75	130	30.41	3771.72	44.93	-889.99	0.000000	0.00	0.000
1-11-P	75	130	30.41	3771.72	49.05	-889.99	0.000000	0.00	0.000
1-12-P	75	130	30.41	3771.72	40.74	-889.99	0.000000	0.00	0.000
1-13-P	75	130	30.41	3771.72	14.53	-889.99	0.000000	0.00	0.000
1-14-P	75	130	30.41	3771.72	-40.94	-889.99	0.000000	0.00	0.000
1-15-P	75	130	30.41	3771.72	-82.52	-889.99	0.000000	0.00	0.000
1-16-P	75	130	30.41	3771.72	-73.11	-889.99	0.000000	0.00	0.000
1-17-P	75	130	30.41	3771.72	-36.82	-889.99	0.000000	0.00	0.000
1-18-P	75	130	30.41	3771.72	20.23	-889.99	0.000000	0.00	0.000
1-19-P	75	130	30.41	3771.72	45.07	-889.99	0.000000	0.00	0.000
1-20-P	75	130	30.41	3771.72	55.15	-889.99	0.000000	0.00	0.000
1-21-P	75	130	30.41	3771.72	48.96	-889.99	0.000000	0.00	0.000
1-22-P	75	130	30.41	3771.72	33.52	-889.99	0.000000	0.00	0.000
1-23-P	75	130	30.41	3771.72	-21.36	-889.99	0.000000	0.00	0.000
1-24-P	75	130	30.41	3771.72	-56.71	-889.99	0.000000	0.00	0.000
1-25-P	75	130	30.41	3771.72	-99.39	-889.99	0.000000	0.00	0.000
1-26-P	75	130	30.41	3771.72	-56.71	-889.99	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	98 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
1-27-P	75	130	30.41	3771.72	-21.36	-889.99	0.000000	0.00	0.000
1-28-P	75	130	30.41	3771.72	33.52	-889.99	0.000000	0.00	0.000
1-29-P	75	130	30.41	3771.72	48.96	-889.99	0.000000	0.00	0.000
1-30-P	75	130	30.41	3771.72	55.15	-889.99	0.000000	0.00	0.000
1-31-P	75	130	30.41	3771.72	45.07	-889.99	0.000000	0.00	0.000
1-32-P	75	130	30.41	3771.72	20.23	-889.99	0.000000	0.00	0.000
1-33-P	75	130	30.41	3771.72	-36.82	-889.99	0.000000	0.00	0.000
1-34-P	75	130	30.41	3771.72	-73.11	-889.99	0.000000	0.00	0.000
1-35-P	75	130	30.41	3771.72	-82.52	-889.99	0.000000	0.00	0.000
1-36-P	75	130	30.41	3771.72	-40.94	-889.99	0.000000	0.00	0.000
1-37-P	75	130	30.41	3771.72	14.53	-889.99	0.000000	0.00	0.000
1-38-P	75	130	30.41	3771.72	40.74	-889.99	0.000000	0.00	0.000
1-39-P	75	130	30.41	3771.72	49.05	-889.99	0.000000	0.00	0.000
1-40-P	75	130	30.41	3771.72	44.93	-889.99	0.000000	0.00	0.000
1-41-P	75	130	30.41	3771.72	33.15	-889.99	0.000000	0.00	0.000
1-42-P	75	130	30.41	3771.72	-22.79	-889.99	0.000000	0.00	0.000
1-43-P	75	130	30.41	3771.72	-64.37	-889.99	0.000000	0.00	0.000
1-44-P	75	130	30.41	3771.72	-113.39	-889.99	0.000000	0.00	0.000
1-45-P	75	130	30.41	3771.72	-94.25	-889.99	0.000000	0.00	0.000
1-46-P	75	130	30.41	3771.72	-60.04	-889.99	0.000000	0.00	0.000
1-47-P	75	130	30.41	3771.72	-23.06	-889.99	0.000000	0.00	0.000
1-48-P	75	130	30.41	3771.72	-6.51	-889.99	0.000000	0.00	0.000
1-49-P	75	130	30.41	3771.72	3.78	-889.99	0.000000	0.00	0.000
2-1-P	75	130	30.41	1620.00	18.20	889.99	0.000000	0.00	0.000
2-2-P	75	130	30.41	1620.00	16.03	889.99	0.000000	0.00	0.000
2-3-P	75	130	30.41	3771.72	12.48	-889.99	0.000000	0.00	0.000
2-4-P	75	130	30.41	3771.72	13.07	-889.99	0.000000	0.00	0.000
2-5-P	75	130	30.41	3771.72	-71.09	-889.99	0.000000	0.00	0.000
2-6-P	75	130	30.41	3771.72	-117.18	-889.99	0.000000	0.00	0.000
2-7-P	75	130	30.41	3771.72	-30.78	-889.99	0.000000	0.00	0.000
2-8-P	75	130	30.41	3771.72	25.15	-889.99	0.000000	0.00	0.000
2-9-P	75	130	30.41	1620.00	41.26	889.99	0.000000	0.00	0.000
2-10-P	75	130	30.41	1620.00	47.97	889.99	0.000000	0.00	0.000
2-11-P	75	130	30.41	1620.00	50.00	889.99	0.000000	0.00	0.000
2-12-P	75	130	30.41	1620.00	45.02	889.99	0.000000	0.00	0.000
2-13-P	75	130	30.41	3771.72	31.81	-889.99	0.000000	0.00	0.000
2-14-P	75	130	30.41	3771.72	12.67	-889.99	0.000000	0.00	0.000
2-15-P	75	130	30.41	3771.72	-90.45	-889.99	0.000000	0.00	0.000
2-16-P	75	130	30.41	3771.72	-73.65	-889.99	0.000000	0.00	0.000
2-17-P	75	130	30.41	3771.72	24.44	-889.99	0.000000	0.00	0.000
2-18-P	75	130	30.41	3771.72	34.85	-889.99	0.000000	0.00	0.000
2-19-P	75	130	30.41	1620.00	46.69	889.99	0.000000	0.00	0.000
2-20-P	75	130	30.41	1620.00	52.21	889.99	0.000000	0.00	0.000
2-21-P	75	130	30.41	1620.00	48.80	889.99	0.000000	0.00	0.000
2-22-P	75	130	30.41	3771.72	40.96	-889.99	0.000000	0.00	0.000
2-23-P	75	130	30.41	3771.72	26.94	-889.99	0.000000	0.00	0.000
2-24-P	75	130	30.41	3771.72	-40.40	-889.99	0.000000	0.00	0.000
2-25-P	75	130	30.41	3771.72	-124.13	-889.99	0.000000	0.00	0.000
2-26-P	75	130	30.41	3771.72	-40.40	-889.99	0.000000	0.00	0.000
2-27-P	75	130	30.41	3771.72	26.94	-889.99	0.000000	0.00	0.000
2-28-P	75	130	30.41	3771.72	40.96	-889.99	0.000000	0.00	0.000
2-29-P	75	130	30.41	1620.00	48.80	889.99	0.000000	0.00	0.000
2-30-P	75	130	30.41	1620.00	52.21	889.99	0.000000	0.00	0.000
2-31-P	75	130	30.41	1620.00	46.69	889.99	0.000000	0.00	0.000
2-32-P	75	130	30.41	3771.72	34.85	-889.99	0.000000	0.00	0.000
2-33-P	75	130	30.41	3771.72	24.44	-889.99	0.000000	0.00	0.000
2-34-P	75	130	30.41	3771.72	-73.65	-889.99	0.000000	0.00	0.000
2-35-P	75	130	30.41	3771.72	-90.45	-889.99	0.000000	0.00	0.000
2-36-P	75	130	30.41	3771.72	12.67	-889.99	0.000000	0.00	0.000
2-37-P	75	130	30.41	3771.72	31.81	-889.99	0.000000	0.00	0.000
2-38-P	75	130	30.41	1620.00	45.02	889.99	0.000000	0.00	0.000
2-39-P	75	130	30.41	1620.00	50.00	889.99	0.000000	0.00	0.000
2-40-P	75	130	30.41	1620.00	47.97	889.99	0.000000	0.00	0.000
2-41-P	75	130	30.41	1620.00	41.26	889.99	0.000000	0.00	0.000
2-42-P	75	130	30.41	3771.72	25.15	-889.99	0.000000	0.00	0.000
2-43-P	75	130	30.41	3771.72	-30.78	-889.99	0.000000	0.00	0.000
2-44-P	75	130	30.41	3771.72	-117.18	-889.99	0.000000	0.00	0.000
2-45-P	75	130	30.41	3771.72	-71.09	-889.99	0.000000	0.00	0.000
2-46-P	75	130	30.41	3771.72	13.07	-889.99	0.000000	0.00	0.000
2-47-P	75	130	30.41	3771.72	12.48	-889.99	0.000000	0.00	0.000
2-48-P	75	130	30.41	1620.00	16.03	889.99	0.000000	0.00	0.000
2-49-P	75	130	30.41	1620.00	18.20	889.99	0.000000	0.00	0.000
5-1-P	92	130	38.01	4645.32	-26.10	-1100.50	0.000000	0.00	0.000
5-2-P	92	130	38.01	4645.32	-37.18	-1100.50	0.000000	0.00	0.000
5-3-P	92	130	38.01	4645.32	-54.40	-1100.50	0.000000	0.00	0.000
5-4-P	92	130	38.01	4645.32	-80.85	-1100.50	0.000000	0.00	0.000
5-5-P	92	130	38.01	4645.32	-129.41	-1100.50	0.000000	0.00	0.000
5-6-P	92	130	38.01	4645.32	-164.29	-1100.50	0.000000	0.00	0.000
5-7-P	92	130	38.01	4645.32	-122.37	-1100.50	0.000000	0.00	0.000
5-8-P	92	130	38.01	4645.32	-99.27	-1100.50	0.000000	0.00	0.000
5-9-P	92	130	38.01	4645.32	-88.71	-1100.50	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	99 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
5-10-P	92	130	38.01	4645.32	-89.25	-1100.50	0.000000	0.00	0.000
5-11-P	92	130	38.01	4645.32	-90.00	-1100.50	0.000000	0.00	0.000
5-12-P	92	130	38.01	4645.32	-91.08	-1100.50	0.000000	0.00	0.000
5-13-P	92	130	38.01	4645.32	-101.66	-1100.50	0.000000	0.00	0.000
5-14-P	92	130	38.01	4645.32	-121.27	-1100.50	0.000000	0.00	0.000
5-15-P	92	130	38.01	4645.32	-167.47	-1100.50	0.000000	0.00	0.000
5-16-P	92	130	38.01	4645.32	-158.30	-1100.50	0.000000	0.00	0.000
5-17-P	92	130	38.01	4645.32	-112.22	-1100.50	0.000000	0.00	0.000
5-18-P	92	130	38.01	4645.32	-99.49	-1100.50	0.000000	0.00	0.000
5-19-P	92	130	38.01	4645.32	-91.62	-1100.50	0.000000	0.00	0.000
5-20-P	92	130	38.01	4645.32	-91.06	-1100.50	0.000000	0.00	0.000
5-21-P	93	130	38.01	4645.32	-91.37	-1100.50	0.000000	0.00	0.000
5-22-P	93	130	38.01	4645.32	-94.34	-1100.50	0.000000	0.00	0.000
5-23-P	93	130	38.01	4645.32	-107.05	-1100.50	0.000000	0.00	0.000
5-24-P	93	130	38.01	4645.32	-139.79	-1100.50	0.000000	0.00	0.000
5-25-P	93	130	38.01	4645.32	-185.89	-1100.50	0.000000	0.00	0.000
5-26-P	93	130	38.01	4645.32	-139.79	-1100.50	0.000000	0.00	0.000
5-27-P	93	130	38.01	4645.32	-107.05	-1100.50	0.000000	0.00	0.000
5-28-P	93	130	38.01	4645.32	-94.34	-1100.50	0.000000	0.00	0.000
5-29-P	93	130	38.01	4645.32	-91.37	-1100.50	0.000000	0.00	0.000
5-30-P	93	130	38.01	4645.32	-91.06	-1100.50	0.000000	0.00	0.000
5-31-P	93	130	38.01	4645.32	-91.62	-1100.50	0.000000	0.00	0.000
5-32-P	93	130	38.01	4645.32	-99.49	-1100.50	0.000000	0.00	0.000
5-33-P	93	130	38.01	4645.32	-112.22	-1100.50	0.000000	0.00	0.000
5-34-P	93	130	38.01	4645.32	-158.30	-1100.50	0.000000	0.00	0.000
5-35-P	93	130	38.01	4645.32	-167.47	-1100.50	0.000000	0.00	0.000
5-36-P	93	130	38.01	4645.32	-121.27	-1100.50	0.000000	0.00	0.000
5-37-P	93	130	38.01	4645.32	-101.66	-1100.50	0.000000	0.00	0.000
5-38-P	93	130	38.01	4645.32	-91.08	-1100.50	0.000000	0.00	0.000
5-39-P	93	130	38.01	4645.32	-90.00	-1100.50	0.000000	0.00	0.000
5-40-P	93	130	38.01	4645.32	-89.25	-1100.50	0.000000	0.00	0.000
5-41-P	93	130	38.01	4645.32	-88.71	-1100.50	0.000000	0.00	0.000
5-42-P	93	130	38.01	4645.32	-99.27	-1100.50	0.000000	0.00	0.000
5-43-P	93	130	38.01	4645.32	-122.37	-1100.50	0.000000	0.00	0.000
5-44-P	93	130	38.01	4645.32	-164.29	-1100.50	0.000000	0.00	0.000
5-45-P	93	130	38.01	4645.32	-129.41	-1100.50	0.000000	0.00	0.000
5-46-P	93	130	38.01	4645.32	-80.85	-1100.50	0.000000	0.00	0.000
5-47-P	93	130	38.01	4645.32	-54.40	-1100.50	0.000000	0.00	0.000
5-48-P	93	130	38.01	4645.32	-37.18	-1100.50	0.000000	0.00	0.000
5-49-P	93	130	38.01	4645.32	-26.10	-1100.50	0.000000	0.00	0.000
6-1-P	93	130	34.21	4695.69	-2.45	-1079.09	0.000000	0.00	0.000
6-2-P	93	130	34.21	4695.69	-10.53	-1079.09	0.000000	0.00	0.000
6-3-P	93	130	34.21	4695.69	-21.11	-1079.09	0.000000	0.00	0.000
6-4-P	93	130	34.21	4695.69	-35.43	-1079.09	0.000000	0.00	0.000
6-5-P	93	130	34.21	4695.69	-49.88	-1079.09	0.000000	0.00	0.000
6-6-P	93	130	34.21	4695.69	-60.22	-1079.09	0.000000	0.00	0.000
6-7-P	93	130	34.21	4695.69	-54.04	-1079.09	0.000000	0.00	0.000
6-8-P	93	130	34.21	4695.69	-47.26	-1079.09	0.000000	0.00	0.000
6-9-P	93	130	34.21	4695.69	-40.10	-1079.09	0.000000	0.00	0.000
6-10-P	93	130	34.21	4695.69	-36.78	-1079.09	0.000000	0.00	0.000
6-11-P	93	130	34.21	4695.69	-37.00	-1079.09	0.000000	0.00	0.000
6-12-P	93	130	34.21	4695.69	-42.52	-1079.09	0.000000	0.00	0.000
6-13-P	93	130	34.21	4695.69	-51.56	-1079.09	0.000000	0.00	0.000
6-14-P	93	130	34.21	4695.69	-61.48	-1079.09	0.000000	0.00	0.000
6-15-P	93	130	34.21	4695.69	-71.45	-1079.09	0.000000	0.00	0.000
6-16-P	93	130	34.21	4695.69	-69.69	-1079.09	0.000000	0.00	0.000
6-17-P	93	130	34.21	4695.69	-60.10	-1079.09	0.000000	0.00	0.000
6-18-P	93	130	34.21	4695.69	-50.72	-1079.09	0.000000	0.00	0.000
6-19-P	93	130	34.21	4695.69	-43.22	-1079.09	0.000000	0.00	0.000
6-20-P	93	130	34.21	4695.69	-38.53	-1079.09	0.000000	0.00	0.000
6-21-P	93	130	34.21	4695.69	-41.38	-1079.09	0.000000	0.00	0.000
6-22-P	93	130	34.21	4695.69	-47.05	-1079.09	0.000000	0.00	0.000
6-23-P	93	130	34.21	4695.69	-56.51	-1079.09	0.000000	0.00	0.000
6-24-P	93	130	34.21	4695.69	-66.13	-1079.09	0.000000	0.00	0.000
6-25-P	93	130	34.21	4695.69	-75.84	-1079.09	0.000000	0.00	0.000
6-26-P	93	130	34.21	4695.69	-66.13	-1079.09	0.000000	0.00	0.000
6-27-P	93	130	34.21	4695.69	-56.51	-1079.09	0.000000	0.00	0.000
6-28-P	93	130	34.21	4695.69	-47.05	-1079.09	0.000000	0.00	0.000
6-29-P	93	130	34.21	4695.69	-41.38	-1079.09	0.000000	0.00	0.000
6-30-P	93	130	34.21	4695.69	-38.53	-1079.09	0.000000	0.00	0.000
6-31-P	93	130	34.21	4695.69	-43.22	-1079.09	0.000000	0.00	0.000
6-32-P	93	130	34.21	4695.69	-50.72	-1079.09	0.000000	0.00	0.000
6-33-P	93	130	34.21	4695.69	-60.10	-1079.09	0.000000	0.00	0.000
6-34-P	93	130	34.21	4695.69	-69.69	-1079.09	0.000000	0.00	0.000
6-35-P	93	130	34.21	4695.69	-71.45	-1079.09	0.000000	0.00	0.000
6-36-P	93	130	34.21	4695.69	-61.48	-1079.09	0.000000	0.00	0.000
6-37-P	93	130	34.21	4695.69	-51.56	-1079.09	0.000000	0.00	0.000
6-38-P	93	130	34.21	4695.69	-42.52	-1079.09	0.000000	0.00	0.000
6-39-P	93	130	34.21	4695.69	-37.00	-1079.09	0.000000	0.00	0.000
6-40-P	93	130	34.21	4695.69	-36.78	-1079.09	0.000000	0.00	0.000
6-41-P	93	130	34.21	4695.69	-40.10	-1079.09	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	100 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
6-42-P	93	130	34.21	4695.69	-47.26	-1079.09	0.000000	0.00	0.000
6-43-P	93	130	34.21	4695.69	-54.04	-1079.09	0.000000	0.00	0.000
6-44-P	93	130	34.21	4695.69	-60.22	-1079.09	0.000000	0.00	0.000
6-45-P	93	130	34.21	4695.69	-49.88	-1079.09	0.000000	0.00	0.000
6-46-P	93	130	34.21	4695.69	-35.43	-1079.09	0.000000	0.00	0.000
6-47-P	93	130	34.21	4695.69	-21.11	-1079.09	0.000000	0.00	0.000
6-48-P	93	130	34.21	4695.69	-10.53	-1079.09	0.000000	0.00	0.000
6-49-P	93	130	34.21	4695.69	-2.45	-1079.09	0.000000	0.00	0.000
7-1-P	93	130	34.21	4695.69	4.21	-1079.09	0.000000	0.00	0.000
7-2-P	93	130	34.21	4695.69	7.52	-1079.09	0.000000	0.00	0.000
7-3-P	93	130	34.21	4695.69	9.72	-1079.09	0.000000	0.00	0.000
7-4-P	93	130	34.21	4695.69	-20.73	-1079.09	0.000000	0.00	0.000
7-5-P	93	130	34.21	4695.69	-10.63	-1079.09	0.000000	0.00	0.000
7-6-P	93	130	34.21	4695.69	-6.16	-1079.09	0.000000	0.00	0.000
7-7-P	93	130	34.21	4695.69	-11.56	-1079.09	0.000000	0.00	0.000
7-8-P	93	130	34.21	4695.69	-10.21	-1079.09	0.000000	0.00	0.000
7-9-P	93	130	34.21	4695.69	14.08	-1079.09	0.000000	0.00	0.000
7-10-P	93	130	34.21	4695.69	13.27	-1079.09	0.000000	0.00	0.000
7-11-P	93	130	34.21	4695.69	13.12	-1079.09	0.000000	0.00	0.000
7-12-P	93	130	34.21	4695.69	13.72	-1079.09	0.000000	0.00	0.000
7-13-P	93	130	34.21	4695.69	10.56	-1079.09	0.000000	0.00	0.000
7-14-P	93	130	34.21	4695.69	-17.34	-1079.09	0.000000	0.00	0.000
7-15-P	93	130	34.21	4695.69	-7.39	-1079.09	0.000000	0.00	0.000
7-16-P	93	130	34.21	4695.69	-7.90	-1079.09	0.000000	0.00	0.000
7-17-P	93	130	34.21	4695.69	-20.01	-1079.09	0.000000	0.00	0.000
7-18-P	93	130	34.21	4695.69	10.30	-1079.09	0.000000	0.00	0.000
7-19-P	93	130	34.21	4695.69	12.60	-1079.09	0.000000	0.00	0.000
7-20-P	93	130	34.21	4695.69	11.96	-1079.09	0.000000	0.00	0.000
7-21-P	93	130	34.21	4695.69	12.21	-1079.09	0.000000	0.00	0.000
7-22-P	93	130	34.21	4695.69	11.65	-1079.09	0.000000	0.00	0.000
7-23-P	93	130	34.21	4695.69	-15.15	-1079.09	0.000000	0.00	0.000
7-24-P	93	130	34.21	4695.69	-11.43	-1079.09	0.000000	0.00	0.000
7-25-P	93	130	34.21	4695.69	-7.80	-1079.09	0.000000	0.00	0.000
7-26-P	93	130	34.21	4695.69	-11.43	-1079.09	0.000000	0.00	0.000
7-27-P	93	130	34.21	4695.69	-15.15	-1079.09	0.000000	0.00	0.000
7-28-P	93	130	34.21	4695.69	11.65	-1079.09	0.000000	0.00	0.000
7-29-P	93	130	34.21	4695.69	12.21	-1079.09	0.000000	0.00	0.000
7-30-P	93	130	34.21	4695.69	11.96	-1079.09	0.000000	0.00	0.000
7-31-P	93	130	34.21	4695.69	12.60	-1079.09	0.000000	0.00	0.000
7-32-P	93	130	34.21	4695.69	10.30	-1079.09	0.000000	0.00	0.000
7-33-P	93	130	34.21	4695.69	-20.01	-1079.09	0.000000	0.00	0.000
7-34-P	93	130	34.21	4695.69	-7.90	-1079.09	0.000000	0.00	0.000
7-35-P	93	130	34.21	4695.69	-7.39	-1079.09	0.000000	0.00	0.000
7-36-P	93	130	34.21	4695.69	-17.34	-1079.09	0.000000	0.00	0.000
7-37-P	93	130	34.21	4695.69	10.56	-1079.09	0.000000	0.00	0.000
7-38-P	93	130	34.21	4695.69	13.72	-1079.09	0.000000	0.00	0.000
7-39-P	93	130	34.21	4695.69	13.12	-1079.09	0.000000	0.00	0.000
7-40-P	93	130	34.21	4695.69	13.27	-1079.09	0.000000	0.00	0.000
7-41-P	93	130	34.21	4695.69	14.08	-1079.09	0.000000	0.00	0.000
7-42-P	93	130	34.21	4695.69	-10.21	-1079.09	0.000000	0.00	0.000
7-43-P	93	130	34.21	4695.69	-11.56	-1079.09	0.000000	0.00	0.000
7-44-P	93	130	34.21	4695.69	-6.16	-1079.09	0.000000	0.00	0.000
7-45-P	93	130	34.21	4695.69	-10.63	-1079.09	0.000000	0.00	0.000
7-46-P	93	130	34.21	4695.69	-20.73	-1079.09	0.000000	0.00	0.000
7-47-P	93	130	34.21	4695.69	9.72	-1079.09	0.000000	0.00	0.000
7-48-P	93	130	34.21	4695.69	7.52	-1079.09	0.000000	0.00	0.000
7-49-P	93	130	34.21	4695.69	4.21	-1079.09	0.000000	0.00	0.000
8-1-P	92	130	38.01	4645.32	-2.46	-1100.50	0.000000	0.00	0.000
8-2-P	92	130	38.01	4645.32	-5.20	-1100.50	0.000000	0.00	0.000
8-3-P	92	130	38.01	4645.32	-10.96	-1100.50	0.000000	0.00	0.000
8-4-P	92	130	38.01	4645.32	-21.20	-1100.50	0.000000	0.00	0.000
8-5-P	92	130	38.01	4645.32	-24.80	-1100.50	0.000000	0.00	0.000
8-6-P	92	130	38.01	4645.32	-36.45	-1100.50	0.000000	0.00	0.000
8-7-P	92	130	38.01	4645.32	-19.75	-1100.50	0.000000	0.00	0.000
8-8-P	92	130	38.01	4645.32	16.67	-1100.50	0.000000	0.00	0.000
8-9-P	92	130	38.01	4645.32	8.69	-1100.50	0.000000	0.00	0.000
8-10-P	92	130	38.01	4645.32	10.59	-1100.50	0.000000	0.00	0.000
8-11-P	92	130	38.01	4645.32	11.53	-1100.50	0.000000	0.00	0.000
8-12-P	92	130	38.01	4645.32	9.39	-1100.50	0.000000	0.00	0.000
8-13-P	92	130	38.01	4645.32	16.04	-1100.50	0.000000	0.00	0.000
8-14-P	92	130	38.01	4645.32	-19.57	-1100.50	0.000000	0.00	0.000
8-15-P	92	130	38.01	4645.32	-27.53	-1100.50	0.000000	0.00	0.000
8-16-P	92	130	38.01	4645.32	-22.97	-1100.50	0.000000	0.00	0.000
8-17-P	92	130	38.01	4645.32	23.66	-1100.50	0.000000	0.00	0.000
8-18-P	92	130	38.01	4645.32	13.70	-1100.50	0.000000	0.00	0.000
8-19-P	92	130	38.01	4645.32	9.01	-1100.50	0.000000	0.00	0.000
8-20-P	92	130	38.01	4645.32	11.88	-1100.50	0.000000	0.00	0.000
8-21-P	92	130	38.01	4645.32	9.75	-1100.50	0.000000	0.00	0.000
8-22-P	92	130	38.01	4645.32	9.73	-1100.50	0.000000	0.00	0.000
8-23-P	92	130	38.01	4645.32	19.61	-1100.50	0.000000	0.00	0.000
8-24-P	92	130	38.01	4645.32	-18.60	-1100.50	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	101 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
8-25-P	92	130	38.01	4645.32	-38.53	-1100.50	0.000000	0.00	0.000
8-26-P	92	130	38.01	4645.32	-18.60	-1100.50	0.000000	0.00	0.000
8-27-P	92	130	38.01	4645.32	19.61	-1100.50	0.000000	0.00	0.000
8-28-P	92	130	38.01	4645.32	9.73	-1100.50	0.000000	0.00	0.000
8-29-P	92	130	38.01	4645.32	9.75	-1100.50	0.000000	0.00	0.000
8-30-P	92	130	38.01	4645.32	11.88	-1100.50	0.000000	0.00	0.000
8-31-P	92	130	38.01	4645.32	9.01	-1100.50	0.000000	0.00	0.000
8-32-P	92	130	38.01	4645.32	13.70	-1100.50	0.000000	0.00	0.000
8-33-P	92	130	38.01	4645.32	23.66	-1100.50	0.000000	0.00	0.000
8-34-P	92	130	38.01	4645.32	-22.97	-1100.50	0.000000	0.00	0.000
8-35-P	92	130	38.01	4645.32	-27.53	-1100.50	0.000000	0.00	0.000
8-36-P	92	130	38.01	4645.32	-19.57	-1100.50	0.000000	0.00	0.000
8-37-P	92	130	38.01	4645.32	16.04	-1100.50	0.000000	0.00	0.000
8-38-P	92	130	38.01	4645.32	9.39	-1100.50	0.000000	0.00	0.000
8-39-P	92	130	38.01	4645.32	11.53	-1100.50	0.000000	0.00	0.000
8-40-P	92	130	38.01	4645.32	10.59	-1100.50	0.000000	0.00	0.000
8-41-P	92	130	38.01	4645.32	8.69	-1100.50	0.000000	0.00	0.000
8-42-P	92	130	38.01	4645.32	16.67	-1100.50	0.000000	0.00	0.000
8-43-P	92	130	38.01	4645.32	-19.75	-1100.50	0.000000	0.00	0.000
8-44-P	92	130	38.01	4645.32	-36.45	-1100.50	0.000000	0.00	0.000
8-45-P	92	130	38.01	4645.32	-24.80	-1100.50	0.000000	0.00	0.000
8-46-P	92	130	38.01	4645.32	-21.20	-1100.50	0.000000	0.00	0.000
8-47-P	92	130	38.01	4645.32	-10.96	-1100.50	0.000000	0.00	0.000
8-48-P	92	130	38.01	4645.32	-5.20	-1100.50	0.000000	0.00	0.000
8-49-P	92	130	38.01	4645.32	-2.46	-1100.50	0.000000	0.00	0.000
9-1-S	100	130	38.01	5062.36	-13.96	-1172.37	0.000000	0.00	0.000
9-2-S	100	130	38.01	5062.36	-23.45	-1172.37	0.000000	0.00	0.000
9-3-S	100	130	38.01	5062.36	-31.53	-1172.37	0.000000	0.00	0.000
9-4-S	100	130	38.01	5062.36	-38.94	-1172.37	0.000000	0.00	0.000
9-5-S	100	130	38.01	5062.36	32.06	-1172.37	0.000000	0.00	0.000
9-6-S	100	130	38.01	5062.36	95.38	-1172.37	0.000000	0.00	0.000
9-7-S	100	130	38.01	2160.00	203.58	1172.37	0.000000	0.00	0.000
9-8-S	100	130	38.01	5062.36	-487.10	-1172.37	0.000000	0.00	0.000
9-9-S	100	130	38.01	5062.36	-439.40	-1172.37	0.000000	0.00	0.000
9-10-S	100	130	38.01	5062.36	-412.36	-1172.37	0.000000	0.00	0.000
9-11-S	100	130	38.01	5062.36	-356.33	-1172.37	0.000000	0.00	0.000
9-12-S	100	130	38.01	5062.36	-294.31	-1172.37	0.000000	0.00	0.000
9-13-S	100	130	38.01	5062.36	-222.77	-1172.37	0.000000	0.00	0.000
9-14-S	100	130	38.01	5062.36	-157.05	-1172.37	0.000000	0.00	0.000
9-15-S	100	130	38.01	5062.36	-95.15	-1172.37	0.000000	0.00	0.000
9-16-S	100	130	38.01	5062.36	-47.26	-1172.37	0.000000	0.00	0.000
9-17-S	100	130	38.01	5062.36	-20.30	-1172.37	0.000000	0.00	0.000
9-18-S	100	130	38.01	5062.36	23.18	-1172.37	0.000000	0.00	0.000
9-19-S	100	130	38.01	5062.36	26.78	-1172.37	0.000000	0.00	0.000
9-20-S	100	130	38.01	5062.36	27.93	-1172.37	0.000000	0.00	0.000
9-21-S	100	130	38.01	5062.36	18.36	-1172.37	0.000000	0.00	0.000
9-22-S	100	130	38.01	5062.36	13.67	-1172.37	0.000000	0.00	0.000
9-23-S	100	130	38.01	5062.36	11.20	-1172.37	0.000000	0.00	0.000
10-1-S	100	130	38.01	5062.36	22.92	-1172.37	0.000000	0.00	0.000
10-2-S	100	130	38.01	5062.36	44.11	-1172.37	0.000000	0.00	0.000
10-3-S	100	130	38.01	5062.36	-30.64	-1172.37	0.000000	0.00	0.000
10-4-S	100	130	38.01	5062.36	-153.41	-1172.37	0.000000	0.00	0.000
10-5-S	100	130	38.01	5062.36	-101.69	-1172.37	0.000000	0.00	0.000
10-6-S	100	130	38.01	5062.36	56.17	-1172.37	0.000000	0.00	0.000
10-7-S	100	130	38.01	2160.00	213.19	1172.37	0.000000	0.00	0.000
10-8-S	100	130	38.01	5062.36	-365.83	-1172.37	0.000000	0.00	0.000
10-9-S	100	130	38.01	5062.36	-332.33	-1172.37	0.000000	0.00	0.000
10-10-S	100	130	38.01	5062.36	-468.12	-1172.37	0.000000	0.00	0.000
10-11-S	100	130	38.01	5062.36	-420.18	-1172.37	0.000000	0.00	0.000
10-12-S	100	130	38.01	5062.36	-349.76	-1172.37	0.000000	0.00	0.000
10-13-S	100	130	38.01	5062.36	-247.37	-1172.37	0.000000	0.00	0.000
10-14-S	100	130	38.01	5062.36	-163.86	-1172.37	0.000000	0.00	0.000
10-15-S	100	130	38.01	5062.36	-88.99	-1172.37	0.000000	0.00	0.000
10-16-S	100	130	38.01	5062.36	-27.62	-1172.37	0.000000	0.00	0.000
10-17-S	100	130	38.01	5062.36	37.02	-1172.37	0.000000	0.00	0.000
10-18-S	100	130	38.01	5062.36	88.49	-1172.37	0.000000	0.00	0.000
10-19-S	100	130	38.01	5062.36	52.05	-1172.37	0.000000	0.00	0.000
10-20-S	100	130	38.01	5062.36	-23.67	-1172.37	0.000000	0.00	0.000
10-21-S	100	130	38.01	5062.36	-47.98	-1172.37	0.000000	0.00	0.000
10-22-S	100	130	38.01	5062.36	-41.24	-1172.37	0.000000	0.00	0.000
10-23-S	100	130	38.01	5062.36	-14.81	-1172.37	0.000000	0.00	0.000
11-1-S	100	130	38.01	5062.36	-17.35	-1172.37	0.000000	0.00	0.000
11-2-S	100	130	38.01	5062.36	-17.93	-1172.37	0.000000	0.00	0.000
11-3-S	100	130	38.01	5062.36	-10.20	-1172.37	0.000000	0.00	0.000
11-4-S	100	130	38.01	5062.36	18.09	-1172.37	0.000000	0.00	0.000
11-5-S	100	130	38.01	2160.00	66.42	1172.37	0.000000	0.00	0.000
11-6-S	100	130	38.01	2160.00	134.10	1172.37	0.000000	0.00	0.000
11-7-S	100	130	38.01	2160.00	216.33	1172.37	0.000000	0.00	0.000
11-8-S	100	130	38.01	5062.36	-548.92	-1172.37	0.000000	0.00	0.000
11-9-S	100	130	38.01	5062.36	-471.66	-1172.37	0.000000	0.00	0.000
11-10-S	100	130	38.01	5062.36	-412.21	-1172.37	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	102 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
11-11-S	100	130	38.01	5062.36	-349.35	-1172.37	0.000000	0.00	0.000
11-12-S	100	130	38.01	5062.36	-285.13	-1172.37	0.000000	0.00	0.000
11-13-S	100	130	38.01	5062.36	-218.54	-1172.37	0.000000	0.00	0.000
11-14-S	100	130	38.01	5062.36	-157.44	-1172.37	0.000000	0.00	0.000
11-15-S	100	130	38.01	5062.36	-100.15	-1172.37	0.000000	0.00	0.000
11-16-S	100	130	38.01	5062.36	-57.44	-1172.37	0.000000	0.00	0.000
11-17-S	100	130	38.01	5062.36	-23.84	-1172.37	0.000000	0.00	0.000
11-18-S	100	130	38.01	5062.36	4.60	-1172.37	0.000000	0.00	0.000
11-19-S	100	130	38.01	5062.36	13.99	-1172.37	0.000000	0.00	0.000
11-20-S	100	130	38.01	5062.36	19.30	-1172.37	0.000000	0.00	0.000
11-21-S	100	130	38.01	5062.36	16.37	-1172.37	0.000000	0.00	0.000
11-22-S	100	130	38.01	5062.36	12.75	-1172.37	0.000000	0.00	0.000
11-23-S	100	130	38.01	5062.36	8.28	-1172.37	0.000000	0.00	0.000
12-1-S	100	130	38.01	5062.36	28.08	-1172.37	0.000000	0.00	0.000
12-2-S	100	130	38.01	5062.36	47.42	-1172.37	0.000000	0.00	0.000
12-3-S	100	130	38.01	5062.36	-33.49	-1172.37	0.000000	0.00	0.000
12-4-S	100	130	38.01	5062.36	-174.11	-1172.37	0.000000	0.00	0.000
12-5-S	100	130	38.01	5062.36	-112.63	-1172.37	0.000000	0.00	0.000
12-6-S	100	130	38.01	5062.36	42.44	-1172.37	0.000000	0.00	0.000
12-7-S	100	130	38.01	2160.00	211.74	1172.37	0.000000	0.00	0.000
12-8-S	100	130	38.01	5062.36	-335.14	-1172.37	0.000000	0.00	0.000
12-9-S	100	130	38.01	5062.36	-316.51	-1172.37	0.000000	0.00	0.000
12-10-S	100	130	38.01	5062.36	-479.26	-1172.37	0.000000	0.00	0.000
12-11-S	100	130	38.01	5062.36	-433.37	-1172.37	0.000000	0.00	0.000
12-12-S	100	130	38.01	5062.36	-361.86	-1172.37	0.000000	0.00	0.000
12-13-S	100	130	38.01	5062.36	-253.83	-1172.37	0.000000	0.00	0.000
12-14-S	100	130	38.01	5062.36	-166.53	-1172.37	0.000000	0.00	0.000
12-15-S	100	130	38.01	5062.36	-88.45	-1172.37	0.000000	0.00	0.000
12-16-S	100	130	38.01	5062.36	-23.42	-1172.37	0.000000	0.00	0.000
12-17-S	100	130	38.01	5062.36	41.77	-1172.37	0.000000	0.00	0.000
12-18-S	100	130	38.01	5062.36	99.35	-1172.37	0.000000	0.00	0.000
12-19-S	100	130	38.01	5062.36	57.92	-1172.37	0.000000	0.00	0.000
12-20-S	100	130	38.01	5062.36	-29.07	-1172.37	0.000000	0.00	0.000
12-21-S	100	130	38.01	5062.36	-52.91	-1172.37	0.000000	0.00	0.000
12-22-S	100	130	38.01	5062.36	-45.19	-1172.37	0.000000	0.00	0.000
12-23-S	100	130	38.01	5062.36	-16.71	-1172.37	0.000000	0.00	0.000
13-1-S	100	130	38.01	5062.36	-15.76	-1172.37	0.000000	0.00	0.000
13-2-S	100	130	38.01	5062.36	-23.88	-1172.37	0.000000	0.00	0.000
13-3-S	100	130	38.01	5062.36	-21.96	-1172.37	0.000000	0.00	0.000
13-4-S	100	130	38.01	5062.36	17.49	-1172.37	0.000000	0.00	0.000
13-5-S	100	130	38.01	5062.36	55.20	-1172.37	0.000000	0.00	0.000
13-6-S	100	130	38.01	2160.00	124.46	1172.37	0.000000	0.00	0.000
13-7-S	100	130	38.01	2160.00	214.04	1172.37	0.000000	0.00	0.000
13-8-S	100	130	38.01	5062.36	-531.72	-1172.37	0.000000	0.00	0.000
13-9-S	100	130	38.01	5062.36	-473.97	-1172.37	0.000000	0.00	0.000
13-10-S	100	130	38.01	5062.36	-413.98	-1172.37	0.000000	0.00	0.000
13-11-S	100	130	38.01	5062.36	-352.40	-1172.37	0.000000	0.00	0.000
13-12-S	100	130	38.01	5062.36	-288.77	-1172.37	0.000000	0.00	0.000
13-13-S	100	130	38.01	5062.36	-221.44	-1172.37	0.000000	0.00	0.000
13-14-S	100	130	38.01	5062.36	-158.76	-1172.37	0.000000	0.00	0.000
13-15-S	100	130	38.01	5062.36	-99.51	-1172.37	0.000000	0.00	0.000
13-16-S	100	130	38.01	5062.36	-54.48	-1172.37	0.000000	0.00	0.000
13-17-S	100	130	38.01	5062.36	-22.17	-1172.37	0.000000	0.00	0.000
13-18-S	100	130	38.01	5062.36	6.72	-1172.37	0.000000	0.00	0.000
13-19-S	100	130	38.01	5062.36	17.67	-1172.37	0.000000	0.00	0.000
13-20-S	100	130	38.01	5062.36	24.19	-1172.37	0.000000	0.00	0.000
13-21-S	100	130	38.01	5062.36	19.54	-1172.37	0.000000	0.00	0.000
13-22-S	100	130	38.01	5062.36	14.50	-1172.37	0.000000	0.00	0.000
13-23-S	100	130	38.01	5062.36	8.94	-1172.37	0.000000	0.00	0.000
14-1-S	100	130	41.81	5012.90	15.88	-1193.79	0.000000	0.00	0.000
14-2-S	100	130	41.81	5012.90	-25.50	-1193.79	0.000000	0.00	0.000
14-3-S	100	130	41.81	5012.90	-32.33	-1193.79	0.000000	0.00	0.000
14-4-S	100	130	41.81	5012.90	-95.57	-1193.79	0.000000	0.00	0.000
14-5-S	100	130	41.81	5012.90	-57.49	-1193.79	0.000000	0.00	0.000
14-6-S	100	130	41.81	5012.90	80.38	-1193.79	0.000000	0.00	0.000
14-7-S	100	130	41.81	2160.00	213.14	1193.79	0.000000	0.00	0.000
14-8-S	100	130	41.81	5012.90	-430.54	-1193.79	0.000000	0.00	0.000
14-9-S	100	130	41.81	5012.90	-394.20	-1193.79	0.000000	0.00	0.000
14-10-S	100	130	41.81	5012.90	-446.45	-1193.79	0.000000	0.00	0.000
14-11-S	100	130	41.81	5012.90	-393.54	-1193.79	0.000000	0.00	0.000
14-12-S	100	130	41.81	5012.90	-326.35	-1193.79	0.000000	0.00	0.000
14-13-S	100	130	41.81	5012.90	-238.27	-1193.79	0.000000	0.00	0.000
14-14-S	100	130	41.81	5012.90	-162.71	-1193.79	0.000000	0.00	0.000
14-15-S	100	130	41.81	5012.90	-93.51	-1193.79	0.000000	0.00	0.000
14-16-S	100	130	41.81	5012.90	-38.33	-1193.79	0.000000	0.00	0.000
14-17-S	100	130	41.81	5012.90	21.93	-1193.79	0.000000	0.00	0.000
14-18-S	100	130	41.81	5012.90	54.27	-1193.79	0.000000	0.00	0.000
14-19-S	100	130	41.81	5012.90	38.71	-1193.79	0.000000	0.00	0.000
14-20-S	100	130	41.81	5012.90	23.83	-1193.79	0.000000	0.00	0.000
14-21-S	100	130	41.81	5012.90	-28.08	-1193.79	0.000000	0.00	0.000
14-22-S	100	130	41.81	5012.90	-23.83	-1193.79	0.000000	0.00	0.000

APPALTATORE:



**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo
IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	103 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
14-23-S	100	130	41.81	5012.90	-9.51	-1193.79	0.000000	0.00	0.000
15-1-S	100	130	38.01	5062.36	15.88	-1172.37	0.000000	0.00	0.000
15-2-S	100	130	38.01	5062.36	-25.50	-1172.37	0.000000	0.00	0.000
15-3-S	100	130	38.01	5062.36	-32.33	-1172.37	0.000000	0.00	0.000
15-4-S	100	130	38.01	5062.36	-95.57	-1172.37	0.000000	0.00	0.000
15-5-S	100	130	38.01	5062.36	-57.49	-1172.37	0.000000	0.00	0.000
15-6-S	100	130	38.01	5062.36	80.38	-1172.37	0.000000	0.00	0.000
15-7-S	100	130	38.01	2160.00	213.14	1172.37	0.000000	0.00	0.000
15-8-S	100	130	38.01	5062.36	-430.54	-1172.37	0.000000	0.00	0.000
15-9-S	100	130	38.01	5062.36	-394.20	-1172.37	0.000000	0.00	0.000
15-10-S	100	130	38.01	5062.36	-446.45	-1172.37	0.000000	0.00	0.000
15-11-S	100	130	38.01	5062.36	-393.54	-1172.37	0.000000	0.00	0.000
15-12-S	100	130	38.01	5062.36	-326.35	-1172.37	0.000000	0.00	0.000
15-13-S	100	130	38.01	5062.36	-238.27	-1172.37	0.000000	0.00	0.000
15-14-S	100	130	38.01	5062.36	-162.71	-1172.37	0.000000	0.00	0.000
15-15-S	100	130	38.01	5062.36	-93.51	-1172.37	0.000000	0.00	0.000
15-16-S	100	130	38.01	5062.36	-38.33	-1172.37	0.000000	0.00	0.000
15-17-S	100	130	38.01	5062.36	21.93	-1172.37	0.000000	0.00	0.000
15-18-S	100	130	38.01	5062.36	54.27	-1172.37	0.000000	0.00	0.000
15-19-S	100	130	38.01	5062.36	38.71	-1172.37	0.000000	0.00	0.000
15-20-S	100	130	38.01	5062.36	23.83	-1172.37	0.000000	0.00	0.000
15-21-S	100	130	38.01	5062.36	-28.08	-1172.37	0.000000	0.00	0.000
15-22-S	100	130	38.01	5062.36	-23.83	-1172.37	0.000000	0.00	0.000
15-23-S	100	130	38.01	5062.36	-9.51	-1172.37	0.000000	0.00	0.000
16-1-S	100	130	38.01	5062.36	-15.76	-1172.37	0.000000	0.00	0.000
16-2-S	100	130	38.01	5062.36	-23.88	-1172.37	0.000000	0.00	0.000
16-3-S	100	130	38.01	5062.36	-21.96	-1172.37	0.000000	0.00	0.000
16-4-S	100	130	38.01	5062.36	17.49	-1172.37	0.000000	0.00	0.000
16-5-S	100	130	38.01	5062.36	55.20	-1172.37	0.000000	0.00	0.000
16-6-S	100	130	38.01	2160.00	124.46	1172.37	0.000000	0.00	0.000
16-7-S	100	130	38.01	2160.00	214.04	1172.37	0.000000	0.00	0.000
16-8-S	100	130	38.01	5062.36	-531.72	-1172.37	0.000000	0.00	0.000
16-9-S	100	130	38.01	5062.36	-473.97	-1172.37	0.000000	0.00	0.000
16-10-S	100	130	38.01	5062.36	-413.98	-1172.37	0.000000	0.00	0.000
16-11-S	100	130	38.01	5062.36	-352.40	-1172.37	0.000000	0.00	0.000
16-12-S	100	130	38.01	5062.36	-288.77	-1172.37	0.000000	0.00	0.000
16-13-S	100	130	38.01	5062.36	-221.44	-1172.37	0.000000	0.00	0.000
16-14-S	100	130	38.01	5062.36	-158.76	-1172.37	0.000000	0.00	0.000
16-15-S	100	130	38.01	5062.36	-99.51	-1172.37	0.000000	0.00	0.000
16-16-S	100	130	38.01	5062.36	-54.48	-1172.37	0.000000	0.00	0.000
16-17-S	100	130	38.01	5062.36	-22.17	-1172.37	0.000000	0.00	0.000
16-18-S	100	130	38.01	5062.36	6.72	-1172.37	0.000000	0.00	0.000
16-19-S	100	130	38.01	5062.36	17.67	-1172.37	0.000000	0.00	0.000
16-20-S	100	130	38.01	5062.36	24.19	-1172.37	0.000000	0.00	0.000
16-21-S	100	130	38.01	5062.36	19.54	-1172.37	0.000000	0.00	0.000
16-22-S	100	130	38.01	5062.36	14.50	-1172.37	0.000000	0.00	0.000
16-23-S	100	130	38.01	5062.36	8.94	-1172.37	0.000000	0.00	0.000
17-1-S	100	130	38.01	5062.36	28.08	-1172.37	0.000000	0.00	0.000
17-2-S	100	130	38.01	5062.36	47.42	-1172.37	0.000000	0.00	0.000
17-3-S	100	130	38.01	5062.36	-33.49	-1172.37	0.000000	0.00	0.000
17-4-S	100	130	38.01	5062.36	-174.11	-1172.37	0.000000	0.00	0.000
17-5-S	100	130	38.01	5062.36	-112.63	-1172.37	0.000000	0.00	0.000
17-6-S	100	130	38.01	5062.36	42.44	-1172.37	0.000000	0.00	0.000
17-7-S	100	130	38.01	2160.00	211.74	1172.37	0.000000	0.00	0.000
17-8-S	100	130	38.01	5062.36	-335.14	-1172.37	0.000000	0.00	0.000
17-9-S	100	130	38.01	5062.36	-316.51	-1172.37	0.000000	0.00	0.000
17-10-S	100	130	38.01	5062.36	-479.26	-1172.37	0.000000	0.00	0.000
17-11-S	100	130	38.01	5062.36	-433.37	-1172.37	0.000000	0.00	0.000
17-12-S	100	130	38.01	5062.36	-361.86	-1172.37	0.000000	0.00	0.000
17-13-S	100	130	38.01	5062.36	-253.83	-1172.37	0.000000	0.00	0.000
17-14-S	100	130	38.01	5062.36	-166.53	-1172.37	0.000000	0.00	0.000
17-15-S	100	130	38.01	5062.36	-88.45	-1172.37	0.000000	0.00	0.000
17-16-S	100	130	38.01	5062.36	-23.42	-1172.37	0.000000	0.00	0.000
17-17-S	100	130	38.01	5062.36	41.77	-1172.37	0.000000	0.00	0.000
17-18-S	100	130	38.01	5062.36	99.35	-1172.37	0.000000	0.00	0.000
17-19-S	100	130	38.01	5062.36	57.92	-1172.37	0.000000	0.00	0.000
17-20-S	100	130	38.01	5062.36	-29.07	-1172.37	0.000000	0.00	0.000
17-21-S	100	130	38.01	5062.36	-52.91	-1172.37	0.000000	0.00	0.000
17-22-S	100	130	38.01	5062.36	-45.19	-1172.37	0.000000	0.00	0.000
17-23-S	100	130	38.01	5062.36	-16.71	-1172.37	0.000000	0.00	0.000
18-1-S	100	130	38.01	5062.36	-17.35	-1172.37	0.000000	0.00	0.000
18-2-S	100	130	38.01	5062.36	-17.93	-1172.37	0.000000	0.00	0.000
18-3-S	100	130	38.01	5062.36	-10.20	-1172.37	0.000000	0.00	0.000
18-4-S	100	130	38.01	5062.36	18.09	-1172.37	0.000000	0.00	0.000
18-5-S	100	130	38.01	2160.00	66.42	1172.37	0.000000	0.00	0.000
18-6-S	100	130	38.01	2160.00	134.10	1172.37	0.000000	0.00	0.000
18-7-S	100	130	38.01	2160.00	216.33	1172.37	0.000000	0.00	0.000
18-8-S	100	130	38.01	5062.36	-548.92	-1172.37	0.000000	0.00	0.000
18-9-S	100	130	38.01	5062.36	-471.66	-1172.37	0.000000	0.00	0.000
18-10-S	100	130	38.01	5062.36	-412.21	-1172.37	0.000000	0.00	0.000
18-11-S	100	130	38.01	5062.36	-349.35	-1172.37	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	104 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
18-12-S	100	130	38.01	5062.36	-285.13	-1172.37	0.000000	0.00	0.000
18-13-S	100	130	38.01	5062.36	-218.54	-1172.37	0.000000	0.00	0.000
18-14-S	100	130	38.01	5062.36	-157.44	-1172.37	0.000000	0.00	0.000
18-15-S	100	130	38.01	5062.36	-100.15	-1172.37	0.000000	0.00	0.000
18-16-S	100	130	38.01	5062.36	-57.44	-1172.37	0.000000	0.00	0.000
18-17-S	100	130	38.01	5062.36	-23.84	-1172.37	0.000000	0.00	0.000
18-18-S	100	130	38.01	5062.36	4.60	-1172.37	0.000000	0.00	0.000
18-19-S	100	130	38.01	5062.36	13.99	-1172.37	0.000000	0.00	0.000
18-20-S	100	130	38.01	5062.36	19.30	-1172.37	0.000000	0.00	0.000
18-21-S	100	130	38.01	5062.36	16.37	-1172.37	0.000000	0.00	0.000
18-22-S	100	130	38.01	5062.36	12.75	-1172.37	0.000000	0.00	0.000
18-23-S	100	130	38.01	5062.36	8.28	-1172.37	0.000000	0.00	0.000
19-1-S	100	130	38.01	5062.36	22.92	-1172.37	0.000000	0.00	0.000
19-2-S	100	130	38.01	5062.36	44.11	-1172.37	0.000000	0.00	0.000
19-3-S	100	130	38.01	5062.36	-30.64	-1172.37	0.000000	0.00	0.000
19-4-S	100	130	38.01	5062.36	-153.41	-1172.37	0.000000	0.00	0.000
19-5-S	100	130	38.01	5062.36	-101.69	-1172.37	0.000000	0.00	0.000
19-6-S	100	130	38.01	5062.36	56.17	-1172.37	0.000000	0.00	0.000
19-7-S	100	130	38.01	2160.00	213.19	1172.37	0.000000	0.00	0.000
19-8-S	100	130	38.01	5062.36	-365.83	-1172.37	0.000000	0.00	0.000
19-9-S	100	130	38.01	5062.36	-332.33	-1172.37	0.000000	0.00	0.000
19-10-S	100	130	38.01	5062.36	-468.12	-1172.37	0.000000	0.00	0.000
19-11-S	100	130	38.01	5062.36	-420.18	-1172.37	0.000000	0.00	0.000
19-12-S	100	130	38.01	5062.36	-349.76	-1172.37	0.000000	0.00	0.000
19-13-S	100	130	38.01	5062.36	-247.37	-1172.37	0.000000	0.00	0.000
19-14-S	100	130	38.01	5062.36	-163.86	-1172.37	0.000000	0.00	0.000
19-15-S	100	130	38.01	5062.36	-88.99	-1172.37	0.000000	0.00	0.000
19-16-S	100	130	38.01	5062.36	-27.62	-1172.37	0.000000	0.00	0.000
19-17-S	100	130	38.01	5062.36	37.02	-1172.37	0.000000	0.00	0.000
19-18-S	100	130	38.01	5062.36	88.49	-1172.37	0.000000	0.00	0.000
19-19-S	100	130	38.01	5062.36	52.05	-1172.37	0.000000	0.00	0.000
19-20-S	100	130	38.01	5062.36	-23.67	-1172.37	0.000000	0.00	0.000
19-21-S	100	130	38.01	5062.36	-47.98	-1172.37	0.000000	0.00	0.000
19-22-S	100	130	38.01	5062.36	-41.24	-1172.37	0.000000	0.00	0.000
19-23-S	100	130	38.01	5062.36	-14.81	-1172.37	0.000000	0.00	0.000
20-1-S	100	130	38.01	5062.36	-13.96	-1172.37	0.000000	0.00	0.000
20-2-S	100	130	38.01	5062.36	-23.45	-1172.37	0.000000	0.00	0.000
20-3-S	100	130	38.01	5062.36	-31.53	-1172.37	0.000000	0.00	0.000
20-4-S	100	130	38.01	5062.36	-38.94	-1172.37	0.000000	0.00	0.000
20-5-S	100	130	38.01	5062.36	32.06	-1172.37	0.000000	0.00	0.000
20-6-S	100	130	38.01	5062.36	95.38	-1172.37	0.000000	0.00	0.000
20-7-S	100	130	38.01	2160.00	203.58	1172.37	0.000000	0.00	0.000
20-8-S	100	130	38.01	5062.36	-487.10	-1172.37	0.000000	0.00	0.000
20-9-S	100	130	38.01	5062.36	-439.40	-1172.37	0.000000	0.00	0.000
20-10-S	100	130	38.01	5062.36	-412.36	-1172.37	0.000000	0.00	0.000
20-11-S	100	130	38.01	5062.36	-356.33	-1172.37	0.000000	0.00	0.000
20-12-S	100	130	38.01	5062.36	-294.31	-1172.37	0.000000	0.00	0.000
20-13-S	100	130	38.01	5062.36	-222.77	-1172.37	0.000000	0.00	0.000
20-14-S	100	130	38.01	5062.36	-157.05	-1172.37	0.000000	0.00	0.000
20-15-S	100	130	38.01	5062.36	-95.15	-1172.37	0.000000	0.00	0.000
20-16-S	100	130	38.01	5062.36	-47.26	-1172.37	0.000000	0.00	0.000
20-17-S	100	130	38.01	5062.36	-20.30	-1172.37	0.000000	0.00	0.000
20-18-S	100	130	38.01	5062.36	23.18	-1172.37	0.000000	0.00	0.000
20-19-S	100	130	38.01	5062.36	26.78	-1172.37	0.000000	0.00	0.000
20-20-S	100	130	38.01	5062.36	27.93	-1172.37	0.000000	0.00	0.000
20-21-S	100	130	38.01	5062.36	18.36	-1172.37	0.000000	0.00	0.000
20-22-S	100	130	38.01	5062.36	13.67	-1172.37	0.000000	0.00	0.000
20-23-S	100	130	38.01	5062.36	11.20	-1172.37	0.000000	0.00	0.000

Pali in c.a.Apertura limite fessure $w_{lim}=0.200$ mm

Ip	Is	Af [cmq]	Aeff [cmq]	Mpf [kNm]	M [kNm]	N [kN]	ε [%]	Sm [mm]	wm [mm]
1	1	58.81	3578.11	237.44	-487.54	-38.43	0.040295	287.55	0.20
2	1	49.76	2930.13	295.72	-487.54	792.91	0.025525	282.54	0.12
3	1	40.72	2327.19	353.98	-487.54	1624.26	0.000000	0.00	0.00

Combinazioni SLEFParamentoApertura limite fessure $w_{lim}=0.30$

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	105 di 123

n°	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
1	100	70	0.00	0.00	0.00	0.00	0.000022	---	0.000 (6)
2	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (6)
3	100	70	0.00	0.00	0.00	0.00	0.000037	---	0.000 (6)
4	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (6)
5	100	70	0.00	0.00	0.00	0.00	0.000053	---	0.000 (6)
6	100	70	0.00	0.00	0.00	0.00	0.000060	---	0.000 (6)
7	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (6)
8	100	70	0.00	0.00	0.00	0.00	0.000076	---	0.000 (6)
9	100	70	0.00	0.00	0.00	0.00	0.000083	---	0.000 (6)
10	100	70	0.00	0.00	0.00	0.00	0.000091	---	0.000 (6)
11	100	70	0.00	0.00	0.00	0.00	0.000099	---	0.000 (6)
12	100	70	0.00	0.00	0.00	0.00	0.000106	---	0.000 (6)
13	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (6)
14	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (6)
15	100	70	0.00	0.00	0.00	0.00	0.000129	---	0.000 (6)
16	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (6)
17	100	70	0.00	0.00	0.00	0.00	0.000144	---	0.000 (6)
18	100	70	0.00	0.00	0.00	0.00	0.000152	---	0.000 (6)
19	100	70	0.00	0.00	0.00	0.00	0.000160	---	0.000 (6)
20	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (6)
21	100	70	0.00	0.00	0.00	0.00	0.000175	---	0.000 (6)
22	100	70	0.00	0.00	0.00	0.00	0.000182	---	0.000 (6)
23	100	70	0.00	0.00	0.00	0.00	0.000190	---	0.000 (6)
24	100	70	0.00	0.00	0.00	0.00	0.000198	---	0.000 (6)
25	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (6)
26	100	70	0.00	0.00	0.00	0.00	0.000213	---	0.000 (6)
27	100	70	0.00	0.00	0.00	0.00	0.000221	---	0.000 (6)
28	100	70	0.00	0.00	0.00	0.00	0.000228	---	0.000 (6)
29	100	70	0.00	0.00	0.00	0.00	0.000236	---	0.000 (6)
30	100	70	0.00	0.00	0.00	0.00	0.000243	---	0.000 (6)
31	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (6)
32	100	70	31.42	2000.00	0.05	387.76	0.000000	0.00	0.000 (6)
33	100	70	31.42	2000.00	0.21	387.98	0.000000	0.00	0.000 (6)
34	100	70	31.42	2000.00	0.47	388.19	0.000000	0.00	0.000 (6)
35	100	70	31.42	2000.00	0.86	388.40	0.000000	0.00	0.000 (6)
36	100	70	31.42	2000.00	1.36	388.61	0.000000	0.00	0.000 (6)
37	100	70	31.42	2000.00	1.99	388.82	0.000000	0.00	0.000 (6)
38	100	70	31.42	2000.00	2.74	389.04	0.000000	0.00	0.000 (6)
39	100	70	31.42	2000.00	3.64	389.24	0.000000	0.00	0.000 (6)
40	100	70	31.42	2000.00	4.67	389.45	0.000000	0.00	0.000 (6)
41	100	70	31.42	2000.00	5.84	389.67	0.000000	0.00	0.000 (6)
42	100	120	31.42	2000.00	19.80	1060.09	0.000000	0.00	0.000 (6)
43	100	120	31.42	2000.00	21.47	1060.69	0.000000	0.00	0.000 (6)
44	100	120	31.42	2000.00	23.85	1061.30	0.000000	0.00	0.000 (6)
45	100	120	31.42	2000.00	26.73	1061.96	0.000000	0.00	0.000 (6)
46	100	120	31.42	2000.00	29.93	1062.56	0.000000	0.00	0.000 (6)
47	100	120	31.42	2000.00	33.31	1063.17	0.000000	0.00	0.000 (6)
48	100	120	31.42	2000.00	36.82	1063.78	0.000000	0.00	0.000 (6)
49	100	120	31.42	2000.00	40.49	1064.42	0.000000	0.00	0.000 (6)
50	100	120	31.42	2000.00	44.33	1065.04	0.000000	0.00	0.000 (6)
51	100	120	31.42	2000.00	48.33	1065.64	0.000000	0.00	0.000 (6)
52	100	120	31.42	2000.00	52.51	1066.29	0.000000	0.00	0.000 (6)
53	100	120	31.42	2000.00	56.88	1066.90	0.000000	0.00	0.000 (6)
54	100	120	31.42	2000.00	61.43	1067.51	0.000000	0.00	0.000 (6)
55	100	120	31.42	2000.00	66.18	1068.13	0.000000	0.00	0.000 (6)
56	100	120	31.42	2000.00	71.14	1068.75	0.000000	0.00	0.000 (6)
57	100	120	31.42	2000.00	76.29	1069.39	0.000000	0.00	0.000 (6)
58	100	120	31.42	2000.00	81.67	1069.97	0.000000	0.00	0.000 (6)
59	100	120	31.42	2000.00	87.26	1070.62	0.000000	0.00	0.000 (6)
60	100	120	31.42	2000.00	93.07	1071.22	0.000000	0.00	0.000 (6)
61	100	120	31.42	2000.00	99.11	1071.82	0.000000	0.00	0.000 (6)
62	100	120	31.42	2000.00	105.39	1072.43	0.000000	0.00	0.000 (6)
63	100	120	31.42	2000.00	111.90	1073.05	0.000000	0.00	0.000 (6)
64	100	120	31.42	2000.00	118.66	1073.68	0.000000	0.00	0.000 (6)
65	100	120	31.42	2000.00	125.67	1074.33	0.000000	0.00	0.000 (6)
66	100	120	31.42	2000.00	132.93	1074.92	0.000000	0.00	0.000 (6)
67	100	120	31.42	2000.00	140.46	1075.55	0.000000	0.00	0.000 (6)
68	100	120	31.42	2000.00	148.24	1076.17	0.000000	0.00	0.000 (6)
69	100	120	31.42	2000.00	156.30	1076.76	0.000000	0.00	0.000 (6)
70	100	120	31.42	2000.00	164.63	1077.43	0.000000	0.00	0.000 (6)
71	100	120	31.42	2000.00	173.24	1077.99	0.000000	0.00	0.000 (6)
72	100	120	31.42	2000.00	182.13	1078.61	0.000000	0.00	0.000 (6)
73	100	120	31.42	2000.00	191.31	1079.25	0.000000	0.00	0.000 (6)
74	100	120	31.42	2000.00	200.79	1079.88	0.000000	0.00	0.000 (6)
75	100	120	31.42	2000.00	210.56	1080.50	0.000000	0.00	0.000 (6)
76	100	120	31.42	2000.00	220.64	1081.11	0.000000	0.00	0.000 (6)
77	100	120	31.42	2000.00	231.03	1081.73	0.000000	0.00	0.000 (6)
78	100	120	31.42	2000.00	241.73	1082.36	0.000000	0.00	0.000 (6)
79	100	120	31.42	2000.00	252.75	1082.95	0.000000	0.00	0.000 (6)
80	100	120	31.42	2000.00	264.09	1083.57	0.000000	0.00	0.000 (6)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A.

SWS Engineering S.p.A.

SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	106 di 123

n°	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
81	100	120	31.42	2000.00	275.76	1084.21	0.000000	0.00	0.000 (6)
82	100	120	31.42	2000.00	287.76	1084.83	0.000000	0.00	0.000 (6)
83	100	120	31.42	2000.00	288.00	1084.84	0.000000	0.00	0.000 (6)
84	100	120	31.42	2000.00	300.34	1085.46	0.000000	0.00	0.000 (6)
85	100	120	31.42	2000.00	313.05	1086.06	0.000000	0.00	0.000 (6)
86	100	120	31.42	2000.00	326.14	1086.70	0.000000	0.00	0.000 (6)
87	100	120	31.42	2000.00	339.65	1087.30	0.000000	0.00	0.000 (6)
88	100	120	31.42	2000.00	353.60	1087.92	0.000000	0.00	0.000 (6)
89	100	120	31.42	2000.00	368.01	1088.54	0.000000	0.00	0.000 (6)
90	100	120	31.42	2000.00	382.90	1089.14	0.000000	0.00	0.000 (6)
91	100	120	31.42	2000.00	398.26	1089.80	0.000000	0.00	0.000 (6)
92	100	120	31.42	2000.00	414.12	1090.40	0.000000	0.00	0.000 (6)
93	100	120	31.42	2000.00	430.46	1091.04	0.000000	0.00	0.000 (6)

Piastra fondazioneApertura limite fessure $w_{lim}=0.30$

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
1-1-P	75	130	30.41	3771.72	3.44	-889.99	0.000000	0.00	0.000
1-2-P	75	130	30.41	3771.72	-5.98	-889.99	0.000000	0.00	0.000
1-3-P	75	130	30.41	3771.72	-21.17	-889.99	0.000000	0.00	0.000
1-4-P	75	130	30.41	3771.72	-54.96	-889.99	0.000000	0.00	0.000
1-5-P	75	130	30.41	3771.72	-86.69	-889.99	0.000000	0.00	0.000
1-6-P	75	130	30.41	3771.72	-104.47	-889.99	0.000000	0.00	0.000
1-7-P	75	130	30.41	3771.72	-59.08	-889.99	0.000000	0.00	0.000
1-8-P	75	130	30.41	3771.72	-20.74	-889.99	0.000000	0.00	0.000
1-9-P	75	130	30.41	3771.72	30.39	-889.99	0.000000	0.00	0.000
1-10-P	75	130	30.41	3771.72	41.29	-889.99	0.000000	0.00	0.000
1-11-P	75	130	30.41	3771.72	45.10	-889.99	0.000000	0.00	0.000
1-12-P	75	130	30.41	3771.72	37.39	-889.99	0.000000	0.00	0.000
1-13-P	75	130	30.41	3771.72	13.21	-889.99	0.000000	0.00	0.000
1-14-P	75	130	30.41	3771.72	-37.38	-889.99	0.000000	0.00	0.000
1-15-P	75	130	30.41	3771.72	-75.99	-889.99	0.000000	0.00	0.000
1-16-P	75	130	30.41	3771.72	-67.28	-889.99	0.000000	0.00	0.000
1-17-P	75	130	30.41	3771.72	-33.48	-889.99	0.000000	0.00	0.000
1-18-P	75	130	30.41	3771.72	18.49	-889.99	0.000000	0.00	0.000
1-19-P	75	130	30.41	3771.72	41.39	-889.99	0.000000	0.00	0.000
1-20-P	75	130	30.41	3771.72	50.72	-889.99	0.000000	0.00	0.000
1-21-P	75	130	30.41	3771.72	45.00	-889.99	0.000000	0.00	0.000
1-22-P	75	130	30.41	3771.72	30.74	-889.99	0.000000	0.00	0.000
1-23-P	75	130	30.41	3771.72	-19.36	-889.99	0.000000	0.00	0.000
1-24-P	75	130	30.41	3771.72	-52.06	-889.99	0.000000	0.00	0.000
1-25-P	75	130	30.41	3771.72	-91.62	-889.99	0.000000	0.00	0.000
1-26-P	75	130	30.41	3771.72	-52.06	-889.99	0.000000	0.00	0.000
1-27-P	75	130	30.41	3771.72	-19.36	-889.99	0.000000	0.00	0.000
1-28-P	75	130	30.41	3771.72	30.74	-889.99	0.000000	0.00	0.000
1-29-P	75	130	30.41	3771.72	45.00	-889.99	0.000000	0.00	0.000
1-30-P	75	130	30.41	3771.72	50.72	-889.99	0.000000	0.00	0.000
1-31-P	75	130	30.41	3771.72	41.39	-889.99	0.000000	0.00	0.000
1-32-P	75	130	30.41	3771.72	18.49	-889.99	0.000000	0.00	0.000
1-33-P	75	130	30.41	3771.72	-33.48	-889.99	0.000000	0.00	0.000
1-34-P	75	130	30.41	3771.72	-67.28	-889.99	0.000000	0.00	0.000
1-35-P	75	130	30.41	3771.72	-75.99	-889.99	0.000000	0.00	0.000
1-36-P	75	130	30.41	3771.72	-37.38	-889.99	0.000000	0.00	0.000
1-37-P	75	130	30.41	3771.72	13.21	-889.99	0.000000	0.00	0.000
1-38-P	75	130	30.41	3771.72	37.39	-889.99	0.000000	0.00	0.000
1-39-P	75	130	30.41	3771.72	45.10	-889.99	0.000000	0.00	0.000
1-40-P	75	130	30.41	3771.72	41.29	-889.99	0.000000	0.00	0.000
1-41-P	75	130	30.41	3771.72	30.39	-889.99	0.000000	0.00	0.000
1-42-P	75	130	30.41	3771.72	-20.74	-889.99	0.000000	0.00	0.000
1-43-P	75	130	30.41	3771.72	-59.08	-889.99	0.000000	0.00	0.000
1-44-P	75	130	30.41	3771.72	-104.47	-889.99	0.000000	0.00	0.000
1-45-P	75	130	30.41	3771.72	-86.69	-889.99	0.000000	0.00	0.000
1-46-P	75	130	30.41	3771.72	-54.96	-889.99	0.000000	0.00	0.000
1-47-P	75	130	30.41	3771.72	-21.17	-889.99	0.000000	0.00	0.000
1-48-P	75	130	30.41	3771.72	-5.98	-889.99	0.000000	0.00	0.000
1-49-P	75	130	30.41	3771.72	3.44	-889.99	0.000000	0.00	0.000
2-1-P	75	130	30.41	1620.00	16.72	889.99	0.000000	0.00	0.000
2-2-P	75	130	30.41	1620.00	14.82	889.99	0.000000	0.00	0.000
2-3-P	75	130	30.41	3771.72	11.56	-889.99	0.000000	0.00	0.000
2-4-P	75	130	30.41	3771.72	11.91	-889.99	0.000000	0.00	0.000
2-5-P	75	130	30.41	3771.72	-65.11	-889.99	0.000000	0.00	0.000
2-6-P	75	130	30.41	3771.72	-107.28	-889.99	0.000000	0.00	0.000
2-7-P	75	130	30.41	3771.72	-28.10	-889.99	0.000000	0.00	0.000
2-8-P	75	130	30.41	3771.72	23.14	-889.99	0.000000	0.00	0.000
2-9-P	75	130	30.41	1620.00	38.22	889.99	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	107 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
2-10-P	75	130	30.41	1620.00	44.32	889.99	0.000000	0.00	0.000
2-11-P	75	130	30.41	1620.00	46.18	889.99	0.000000	0.00	0.000
2-12-P	75	130	30.41	1620.00	41.66	889.99	0.000000	0.00	0.000
2-13-P	75	130	30.41	3771.72	29.38	-889.99	0.000000	0.00	0.000
2-14-P	75	130	30.41	3771.72	11.57	-889.99	0.000000	0.00	0.000
2-15-P	75	130	30.41	3771.72	-82.73	-889.99	0.000000	0.00	0.000
2-16-P	75	130	30.41	3771.72	-67.35	-889.99	0.000000	0.00	0.000
2-17-P	75	130	30.41	3771.72	22.30	-889.99	0.000000	0.00	0.000
2-18-P	75	130	30.41	3771.72	32.23	-889.99	0.000000	0.00	0.000
2-19-P	75	130	30.41	1620.00	43.19	889.99	0.000000	0.00	0.000
2-20-P	75	130	30.41	1620.00	48.20	889.99	0.000000	0.00	0.000
2-21-P	75	130	30.41	1620.00	45.11	889.99	0.000000	0.00	0.000
2-22-P	75	130	30.41	1620.00	37.92	889.99	0.000000	0.00	0.000
2-23-P	75	130	30.41	3771.72	24.75	-889.99	0.000000	0.00	0.000
2-24-P	75	130	30.41	3771.72	-36.89	-889.99	0.000000	0.00	0.000
2-25-P	75	130	30.41	3771.72	-113.59	-889.99	0.000000	0.00	0.000
2-26-P	75	130	30.41	3771.72	-36.89	-889.99	0.000000	0.00	0.000
2-27-P	75	130	30.41	3771.72	24.75	-889.99	0.000000	0.00	0.000
2-28-P	75	130	30.41	1620.00	37.92	889.99	0.000000	0.00	0.000
2-29-P	75	130	30.41	1620.00	45.11	889.99	0.000000	0.00	0.000
2-30-P	75	130	30.41	1620.00	48.20	889.99	0.000000	0.00	0.000
2-31-P	75	130	30.41	1620.00	43.19	889.99	0.000000	0.00	0.000
2-32-P	75	130	30.41	3771.72	32.23	-889.99	0.000000	0.00	0.000
2-33-P	75	130	30.41	3771.72	22.30	-889.99	0.000000	0.00	0.000
2-34-P	75	130	30.41	3771.72	-67.35	-889.99	0.000000	0.00	0.000
2-35-P	75	130	30.41	3771.72	-82.73	-889.99	0.000000	0.00	0.000
2-36-P	75	130	30.41	3771.72	11.57	-889.99	0.000000	0.00	0.000
2-37-P	75	130	30.41	3771.72	29.38	-889.99	0.000000	0.00	0.000
2-38-P	75	130	30.41	1620.00	41.66	889.99	0.000000	0.00	0.000
2-39-P	75	130	30.41	1620.00	46.18	889.99	0.000000	0.00	0.000
2-40-P	75	130	30.41	1620.00	44.32	889.99	0.000000	0.00	0.000
2-41-P	75	130	30.41	1620.00	38.22	889.99	0.000000	0.00	0.000
2-42-P	75	130	30.41	3771.72	23.14	-889.99	0.000000	0.00	0.000
2-43-P	75	130	30.41	3771.72	-28.10	-889.99	0.000000	0.00	0.000
2-44-P	75	130	30.41	3771.72	-107.28	-889.99	0.000000	0.00	0.000
2-45-P	75	130	30.41	3771.72	-65.11	-889.99	0.000000	0.00	0.000
2-46-P	75	130	30.41	3771.72	11.91	-889.99	0.000000	0.00	0.000
2-47-P	75	130	30.41	3771.72	11.56	-889.99	0.000000	0.00	0.000
2-48-P	75	130	30.41	1620.00	14.82	889.99	0.000000	0.00	0.000
2-49-P	75	130	30.41	1620.00	16.72	889.99	0.000000	0.00	0.000
5-1-P	92	130	38.01	4645.32	-21.72	-1100.50	0.000000	0.00	0.000
5-2-P	92	130	38.01	4645.32	-31.01	-1100.50	0.000000	0.00	0.000
5-3-P	92	130	38.01	4645.32	-46.15	-1100.50	0.000000	0.00	0.000
5-4-P	92	130	38.01	4645.32	-69.81	-1100.50	0.000000	0.00	0.000
5-5-P	92	130	38.01	4645.32	-117.26	-1100.50	0.000000	0.00	0.000
5-6-P	92	130	38.01	4645.32	-151.20	-1100.50	0.000000	0.00	0.000
5-7-P	92	130	38.01	4645.32	-107.26	-1100.50	0.000000	0.00	0.000
5-8-P	92	130	38.01	4645.32	-83.05	-1100.50	0.000000	0.00	0.000
5-9-P	92	130	38.01	4645.32	-72.00	-1100.50	0.000000	0.00	0.000
5-10-P	92	130	38.01	4645.32	-72.05	-1100.50	0.000000	0.00	0.000
5-11-P	92	130	38.01	4645.32	-72.45	-1100.50	0.000000	0.00	0.000
5-12-P	92	130	38.01	4645.32	-73.35	-1100.50	0.000000	0.00	0.000
5-13-P	92	130	38.01	4645.32	-83.66	-1100.50	0.000000	0.00	0.000
5-14-P	92	130	38.01	4645.32	-103.20	-1100.50	0.000000	0.00	0.000
5-15-P	92	130	38.01	4645.32	-150.29	-1100.50	0.000000	0.00	0.000
5-16-P	92	130	38.01	4645.32	-140.84	-1100.50	0.000000	0.00	0.000
5-17-P	92	130	38.01	4645.32	-93.70	-1100.50	0.000000	0.00	0.000
5-18-P	92	130	38.01	4645.32	-81.06	-1100.50	0.000000	0.00	0.000
5-19-P	92	130	38.01	4645.32	-73.21	-1100.50	0.000000	0.00	0.000
5-20-P	92	130	38.01	4645.32	-72.53	-1100.50	0.000000	0.00	0.000
5-21-P	93	130	38.01	4645.32	-72.88	-1100.50	0.000000	0.00	0.000
5-22-P	93	130	38.01	4645.32	-75.87	-1100.50	0.000000	0.00	0.000
5-23-P	93	130	38.01	4645.32	-88.44	-1100.50	0.000000	0.00	0.000
5-24-P	93	130	38.01	4645.32	-121.72	-1100.50	0.000000	0.00	0.000
5-25-P	93	130	38.01	4645.32	-168.82	-1100.50	0.000000	0.00	0.000
5-26-P	93	130	38.01	4645.32	-121.72	-1100.50	0.000000	0.00	0.000
5-27-P	93	130	38.01	4645.32	-88.44	-1100.50	0.000000	0.00	0.000
5-28-P	93	130	38.01	4645.32	-75.87	-1100.50	0.000000	0.00	0.000
5-29-P	93	130	38.01	4645.32	-72.88	-1100.50	0.000000	0.00	0.000
5-30-P	93	130	38.01	4645.32	-72.53	-1100.50	0.000000	0.00	0.000
5-31-P	93	130	38.01	4645.32	-73.21	-1100.50	0.000000	0.00	0.000
5-32-P	93	130	38.01	4645.32	-81.06	-1100.50	0.000000	0.00	0.000
5-33-P	93	130	38.01	4645.32	-93.70	-1100.50	0.000000	0.00	0.000
5-34-P	93	130	38.01	4645.32	-140.84	-1100.50	0.000000	0.00	0.000
5-35-P	93	130	38.01	4645.32	-150.29	-1100.50	0.000000	0.00	0.000
5-36-P	93	130	38.01	4645.32	-103.20	-1100.50	0.000000	0.00	0.000
5-37-P	93	130	38.01	4645.32	-83.66	-1100.50	0.000000	0.00	0.000
5-38-P	93	130	38.01	4645.32	-73.35	-1100.50	0.000000	0.00	0.000
5-39-P	93	130	38.01	4645.32	-72.45	-1100.50	0.000000	0.00	0.000
5-40-P	93	130	38.01	4645.32	-72.05	-1100.50	0.000000	0.00	0.000
5-41-P	93	130	38.01	4645.32	-72.00	-1100.50	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	108 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
5-42-P	93	130	38.01	4645.32	-83.05	-1100.50	0.000000	0.00	0.000
5-43-P	93	130	38.01	4645.32	-107.26	-1100.50	0.000000	0.00	0.000
5-44-P	93	130	38.01	4645.32	-151.20	-1100.50	0.000000	0.00	0.000
5-45-P	93	130	38.01	4645.32	-117.26	-1100.50	0.000000	0.00	0.000
5-46-P	93	130	38.01	4645.32	-69.81	-1100.50	0.000000	0.00	0.000
5-47-P	93	130	38.01	4645.32	-46.15	-1100.50	0.000000	0.00	0.000
5-48-P	93	130	38.01	4645.32	-31.01	-1100.50	0.000000	0.00	0.000
5-49-P	93	130	38.01	4645.32	-21.72	-1100.50	0.000000	0.00	0.000
6-1-P	93	130	34.21	4695.69	-2.35	-1079.09	0.000000	0.00	0.000
6-2-P	93	130	34.21	4695.69	-9.68	-1079.09	0.000000	0.00	0.000
6-3-P	93	130	34.21	4695.69	-19.46	-1079.09	0.000000	0.00	0.000
6-4-P	93	130	34.21	4695.69	-32.93	-1079.09	0.000000	0.00	0.000
6-5-P	93	130	34.21	4695.69	-45.72	-1079.09	0.000000	0.00	0.000
6-6-P	93	130	34.21	4695.69	-54.47	-1079.09	0.000000	0.00	0.000
6-7-P	93	130	34.21	4695.69	-47.77	-1079.09	0.000000	0.00	0.000
6-8-P	93	130	34.21	4695.69	-40.05	-1079.09	0.000000	0.00	0.000
6-9-P	93	130	34.21	4695.69	-31.68	-1079.09	0.000000	0.00	0.000
6-10-P	93	130	34.21	4695.69	-27.72	-1079.09	0.000000	0.00	0.000
6-11-P	93	130	34.21	4695.69	-27.40	-1079.09	0.000000	0.00	0.000
6-12-P	93	130	34.21	4695.69	-32.57	-1079.09	0.000000	0.00	0.000
6-13-P	93	130	34.21	4695.69	-41.61	-1079.09	0.000000	0.00	0.000
6-14-P	93	130	34.21	4695.69	-51.47	-1079.09	0.000000	0.00	0.000
6-15-P	93	130	34.21	4695.69	-60.67	-1079.09	0.000000	0.00	0.000
6-16-P	93	130	34.21	4695.69	-58.84	-1079.09	0.000000	0.00	0.000
6-17-P	93	130	34.21	4695.69	-49.64	-1079.09	0.000000	0.00	0.000
6-18-P	93	130	34.21	4695.69	-39.73	-1079.09	0.000000	0.00	0.000
6-19-P	93	130	34.21	4695.69	-31.86	-1079.09	0.000000	0.00	0.000
6-20-P	93	130	34.21	4695.69	-27.04	-1079.09	0.000000	0.00	0.000
6-21-P	93	130	34.21	4695.69	-29.87	-1079.09	0.000000	0.00	0.000
6-22-P	93	130	34.21	4695.69	-35.62	-1079.09	0.000000	0.00	0.000
6-23-P	93	130	34.21	4695.69	-45.46	-1079.09	0.000000	0.00	0.000
6-24-P	93	130	34.21	4695.69	-54.89	-1079.09	0.000000	0.00	0.000
6-25-P	93	130	34.21	4695.69	-64.05	-1079.09	0.000000	0.00	0.000
6-26-P	93	130	34.21	4695.69	-54.89	-1079.09	0.000000	0.00	0.000
6-27-P	93	130	34.21	4695.69	-45.46	-1079.09	0.000000	0.00	0.000
6-28-P	93	130	34.21	4695.69	-35.62	-1079.09	0.000000	0.00	0.000
6-29-P	93	130	34.21	4695.69	-29.87	-1079.09	0.000000	0.00	0.000
6-30-P	93	130	34.21	4695.69	-27.04	-1079.09	0.000000	0.00	0.000
6-31-P	93	130	34.21	4695.69	-31.86	-1079.09	0.000000	0.00	0.000
6-32-P	93	130	34.21	4695.69	-39.73	-1079.09	0.000000	0.00	0.000
6-33-P	93	130	34.21	4695.69	-49.64	-1079.09	0.000000	0.00	0.000
6-34-P	93	130	34.21	4695.69	-58.84	-1079.09	0.000000	0.00	0.000
6-35-P	93	130	34.21	4695.69	-60.67	-1079.09	0.000000	0.00	0.000
6-36-P	93	130	34.21	4695.69	-51.47	-1079.09	0.000000	0.00	0.000
6-37-P	93	130	34.21	4695.69	-41.61	-1079.09	0.000000	0.00	0.000
6-38-P	93	130	34.21	4695.69	-32.57	-1079.09	0.000000	0.00	0.000
6-39-P	93	130	34.21	4695.69	-27.40	-1079.09	0.000000	0.00	0.000
6-40-P	93	130	34.21	4695.69	-27.72	-1079.09	0.000000	0.00	0.000
6-41-P	93	130	34.21	4695.69	-31.68	-1079.09	0.000000	0.00	0.000
6-42-P	93	130	34.21	4695.69	-40.05	-1079.09	0.000000	0.00	0.000
6-43-P	93	130	34.21	4695.69	-47.77	-1079.09	0.000000	0.00	0.000
6-44-P	93	130	34.21	4695.69	-54.47	-1079.09	0.000000	0.00	0.000
6-45-P	93	130	34.21	4695.69	-45.72	-1079.09	0.000000	0.00	0.000
6-46-P	93	130	34.21	4695.69	-32.93	-1079.09	0.000000	0.00	0.000
6-47-P	93	130	34.21	4695.69	-19.46	-1079.09	0.000000	0.00	0.000
6-48-P	93	130	34.21	4695.69	-9.68	-1079.09	0.000000	0.00	0.000
6-49-P	93	130	34.21	4695.69	-2.35	-1079.09	0.000000	0.00	0.000
7-1-P	93	130	34.21	4695.69	4.46	-1079.09	0.000000	0.00	0.000
7-2-P	93	130	34.21	4695.69	7.15	-1079.09	0.000000	0.00	0.000
7-3-P	93	130	34.21	4695.69	-10.77	-1079.09	0.000000	0.00	0.000
7-4-P	93	130	34.21	4695.69	-23.10	-1079.09	0.000000	0.00	0.000
7-5-P	93	130	34.21	4695.69	-16.25	-1079.09	0.000000	0.00	0.000
7-6-P	93	130	34.21	4695.69	-11.07	-1079.09	0.000000	0.00	0.000
7-7-P	93	130	34.21	4695.69	-14.21	-1079.09	0.000000	0.00	0.000
7-8-P	93	130	34.21	4695.69	-10.20	-1079.09	0.000000	0.00	0.000
7-9-P	93	130	34.21	4695.69	14.24	-1079.09	0.000000	0.00	0.000
7-10-P	93	130	34.21	4695.69	14.60	-1079.09	0.000000	0.00	0.000
7-11-P	93	130	34.21	4695.69	15.00	-1079.09	0.000000	0.00	0.000
7-12-P	93	130	34.21	4695.69	15.12	-1079.09	0.000000	0.00	0.000
7-13-P	93	130	34.21	4695.69	10.65	-1079.09	0.000000	0.00	0.000
7-14-P	93	130	34.21	4695.69	-16.89	-1079.09	0.000000	0.00	0.000
7-15-P	93	130	34.21	4695.69	-9.34	-1079.09	0.000000	0.00	0.000
7-16-P	93	130	34.21	4695.69	-9.27	-1079.09	0.000000	0.00	0.000
7-17-P	93	130	34.21	4695.69	-18.50	-1079.09	0.000000	0.00	0.000
7-18-P	93	130	34.21	4695.69	11.10	-1079.09	0.000000	0.00	0.000
7-19-P	93	130	34.21	4695.69	15.39	-1079.09	0.000000	0.00	0.000
7-20-P	93	130	34.21	4695.69	15.86	-1079.09	0.000000	0.00	0.000
7-21-P	93	130	34.21	4695.69	15.52	-1079.09	0.000000	0.00	0.000
7-22-P	93	130	34.21	4695.69	13.51	-1079.09	0.000000	0.00	0.000
7-23-P	93	130	34.21	4695.69	-13.11	-1079.09	0.000000	0.00	0.000
7-24-P	93	130	34.21	4695.69	-11.30	-1079.09	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandatario:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	109 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
7-25-P	93	130	34.21	4695.69	-9.93	-1079.09	0.000000	0.00	0.000
7-26-P	93	130	34.21	4695.69	-11.30	-1079.09	0.000000	0.00	0.000
7-27-P	93	130	34.21	4695.69	-13.11	-1079.09	0.000000	0.00	0.000
7-28-P	93	130	34.21	4695.69	13.51	-1079.09	0.000000	0.00	0.000
7-29-P	93	130	34.21	4695.69	15.52	-1079.09	0.000000	0.00	0.000
7-30-P	93	130	34.21	4695.69	15.86	-1079.09	0.000000	0.00	0.000
7-31-P	93	130	34.21	4695.69	15.39	-1079.09	0.000000	0.00	0.000
7-32-P	93	130	34.21	4695.69	11.10	-1079.09	0.000000	0.00	0.000
7-33-P	93	130	34.21	4695.69	-18.50	-1079.09	0.000000	0.00	0.000
7-34-P	93	130	34.21	4695.69	-9.27	-1079.09	0.000000	0.00	0.000
7-35-P	93	130	34.21	4695.69	-9.34	-1079.09	0.000000	0.00	0.000
7-36-P	93	130	34.21	4695.69	-16.89	-1079.09	0.000000	0.00	0.000
7-37-P	93	130	34.21	4695.69	10.65	-1079.09	0.000000	0.00	0.000
7-38-P	93	130	34.21	4695.69	15.12	-1079.09	0.000000	0.00	0.000
7-39-P	93	130	34.21	4695.69	15.00	-1079.09	0.000000	0.00	0.000
7-40-P	93	130	34.21	4695.69	14.60	-1079.09	0.000000	0.00	0.000
7-41-P	93	130	34.21	4695.69	14.24	-1079.09	0.000000	0.00	0.000
7-42-P	93	130	34.21	4695.69	-10.20	-1079.09	0.000000	0.00	0.000
7-43-P	93	130	34.21	4695.69	-14.21	-1079.09	0.000000	0.00	0.000
7-44-P	93	130	34.21	4695.69	-11.07	-1079.09	0.000000	0.00	0.000
7-45-P	93	130	34.21	4695.69	-16.25	-1079.09	0.000000	0.00	0.000
7-46-P	93	130	34.21	4695.69	-23.10	-1079.09	0.000000	0.00	0.000
7-47-P	93	130	34.21	4695.69	-10.77	-1079.09	0.000000	0.00	0.000
7-48-P	93	130	34.21	4695.69	7.15	-1079.09	0.000000	0.00	0.000
7-49-P	93	130	34.21	4695.69	4.46	-1079.09	0.000000	0.00	0.000
8-1-P	92	130	38.01	4645.32	-1.95	-1100.50	0.000000	0.00	0.000
8-2-P	92	130	38.01	4645.32	-5.28	-1100.50	0.000000	0.00	0.000
8-3-P	92	130	38.01	4645.32	-11.88	-1100.50	0.000000	0.00	0.000
8-4-P	92	130	38.01	4645.32	-22.96	-1100.50	0.000000	0.00	0.000
8-5-P	92	130	38.01	4645.32	-34.19	-1100.50	0.000000	0.00	0.000
8-6-P	92	130	38.01	4645.32	-50.38	-1100.50	0.000000	0.00	0.000
8-7-P	92	130	38.01	4645.32	-22.81	-1100.50	0.000000	0.00	0.000
8-8-P	92	130	38.01	4645.32	13.36	-1100.50	0.000000	0.00	0.000
8-9-P	92	130	38.01	4645.32	8.37	-1100.50	0.000000	0.00	0.000
8-10-P	92	130	38.01	1998.00	11.67	1100.50	0.000000	0.00	0.000
8-11-P	92	130	38.01	1998.00	13.07	1100.50	0.000000	0.00	0.000
8-12-P	92	130	38.01	4645.32	10.06	-1100.50	0.000000	0.00	0.000
8-13-P	92	130	38.01	4645.32	14.16	-1100.50	0.000000	0.00	0.000
8-14-P	92	130	38.01	4645.32	-19.89	-1100.50	0.000000	0.00	0.000
8-15-P	92	130	38.01	4645.32	-37.27	-1100.50	0.000000	0.00	0.000
8-16-P	92	130	38.01	4645.32	-30.84	-1100.50	0.000000	0.00	0.000
8-17-P	92	130	38.01	4645.32	19.92	-1100.50	0.000000	0.00	0.000
8-18-P	92	130	38.01	4645.32	12.87	-1100.50	0.000000	0.00	0.000
8-19-P	92	130	38.01	1998.00	11.37	1100.50	0.000000	0.00	0.000
8-20-P	92	130	38.01	1998.00	15.59	1100.50	0.000000	0.00	0.000
8-21-P	92	130	38.01	1998.00	13.05	1100.50	0.000000	0.00	0.000
8-22-P	92	130	38.01	4645.32	10.58	-1100.50	0.000000	0.00	0.000
8-23-P	92	130	38.01	4645.32	17.33	-1100.50	0.000000	0.00	0.000
8-24-P	92	130	38.01	4645.32	-21.15	-1100.50	0.000000	0.00	0.000
8-25-P	92	130	38.01	4645.32	-49.39	-1100.50	0.000000	0.00	0.000
8-26-P	92	130	38.01	4645.32	-21.15	-1100.50	0.000000	0.00	0.000
8-27-P	92	130	38.01	4645.32	17.33	-1100.50	0.000000	0.00	0.000
8-28-P	92	130	38.01	4645.32	10.58	-1100.50	0.000000	0.00	0.000
8-29-P	92	130	38.01	1998.00	13.05	1100.50	0.000000	0.00	0.000
8-30-P	92	130	38.01	1998.00	15.59	1100.50	0.000000	0.00	0.000
8-31-P	92	130	38.01	1998.00	11.37	1100.50	0.000000	0.00	0.000
8-32-P	92	130	38.01	4645.32	12.87	-1100.50	0.000000	0.00	0.000
8-33-P	92	130	38.01	4645.32	19.92	-1100.50	0.000000	0.00	0.000
8-34-P	92	130	38.01	4645.32	-30.84	-1100.50	0.000000	0.00	0.000
8-35-P	92	130	38.01	4645.32	-37.27	-1100.50	0.000000	0.00	0.000
8-36-P	92	130	38.01	4645.32	-19.89	-1100.50	0.000000	0.00	0.000
8-37-P	92	130	38.01	4645.32	14.16	-1100.50	0.000000	0.00	0.000
8-38-P	92	130	38.01	4645.32	10.06	-1100.50	0.000000	0.00	0.000
8-39-P	92	130	38.01	1998.00	13.07	1100.50	0.000000	0.00	0.000
8-40-P	92	130	38.01	1998.00	11.67	1100.50	0.000000	0.00	0.000
8-41-P	92	130	38.01	4645.32	8.37	-1100.50	0.000000	0.00	0.000
8-42-P	92	130	38.01	4645.32	13.36	-1100.50	0.000000	0.00	0.000
8-43-P	92	130	38.01	4645.32	-22.81	-1100.50	0.000000	0.00	0.000
8-44-P	92	130	38.01	4645.32	-50.38	-1100.50	0.000000	0.00	0.000
8-45-P	92	130	38.01	4645.32	-34.19	-1100.50	0.000000	0.00	0.000
8-46-P	92	130	38.01	4645.32	-22.96	-1100.50	0.000000	0.00	0.000
8-47-P	92	130	38.01	4645.32	-11.88	-1100.50	0.000000	0.00	0.000
8-48-P	92	130	38.01	4645.32	-5.28	-1100.50	0.000000	0.00	0.000
8-49-P	92	130	38.01	4645.32	-1.95	-1100.50	0.000000	0.00	0.000
9-1-S	100	130	38.01	5062.36	-12.60	-1172.37	0.000000	0.00	0.000
9-2-S	100	130	38.01	5062.36	-21.17	-1172.37	0.000000	0.00	0.000
9-3-S	100	130	38.01	5062.36	-28.54	-1172.37	0.000000	0.00	0.000
9-4-S	100	130	38.01	5062.36	-35.17	-1172.37	0.000000	0.00	0.000
9-5-S	100	130	38.01	5062.36	29.81	-1172.37	0.000000	0.00	0.000
9-6-S	100	130	38.01	5062.36	88.41	-1172.37	0.000000	0.00	0.000
9-7-S	100	130	38.01	2160.00	187.35	1172.37	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	110 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
9-8-S	100	130	38.01	5062.36	-416.35	-1172.37	0.000000	0.00	0.000
9-9-S	100	130	38.01	5062.36	-375.37	-1172.37	0.000000	0.00	0.000
9-10-S	100	130	38.01	5062.36	-352.00	-1172.37	0.000000	0.00	0.000
9-11-S	100	130	38.01	5062.36	-301.18	-1172.37	0.000000	0.00	0.000
9-12-S	100	130	38.01	5062.36	-245.00	-1172.37	0.000000	0.00	0.000
9-13-S	100	130	38.01	5062.36	-180.34	-1172.37	0.000000	0.00	0.000
9-14-S	100	130	38.01	5062.36	-122.28	-1172.37	0.000000	0.00	0.000
9-15-S	100	130	38.01	5062.36	-68.36	-1172.37	0.000000	0.00	0.000
9-16-S	100	130	38.01	5062.36	-30.02	-1172.37	0.000000	0.00	0.000
9-17-S	100	130	38.01	5062.36	13.44	-1172.37	0.000000	0.00	0.000
9-18-S	100	130	38.01	5062.36	24.52	-1172.37	0.000000	0.00	0.000
9-19-S	100	130	38.01	5062.36	25.23	-1172.37	0.000000	0.00	0.000
9-20-S	100	130	38.01	5062.36	24.11	-1172.37	0.000000	0.00	0.000
9-21-S	100	130	38.01	5062.36	14.93	-1172.37	0.000000	0.00	0.000
9-22-S	100	130	38.01	5062.36	11.00	-1172.37	0.000000	0.00	0.000
9-23-S	100	130	38.01	5062.36	9.70	-1172.37	0.000000	0.00	0.000
10-1-S	100	130	38.01	5062.36	20.68	-1172.37	0.000000	0.00	0.000
10-2-S	100	130	38.01	5062.36	39.55	-1172.37	0.000000	0.00	0.000
10-3-S	100	130	38.01	5062.36	-27.80	-1172.37	0.000000	0.00	0.000
10-4-S	100	130	38.01	5062.36	-140.04	-1172.37	0.000000	0.00	0.000
10-5-S	100	130	38.01	5062.36	-91.24	-1172.37	0.000000	0.00	0.000
10-6-S	100	130	38.01	5062.36	52.35	-1172.37	0.000000	0.00	0.000
10-7-S	100	130	38.01	2160.00	197.75	1172.37	0.000000	0.00	0.000
10-8-S	100	130	38.01	5062.36	-300.22	-1172.37	0.000000	0.00	0.000
10-9-S	100	130	38.01	5062.36	-276.32	-1172.37	0.000000	0.00	0.000
10-10-S	100	130	38.01	5062.36	-405.85	-1172.37	0.000000	0.00	0.000
10-11-S	100	130	38.01	5062.36	-358.96	-1172.37	0.000000	0.00	0.000
10-12-S	100	130	38.01	5062.36	-293.00	-1172.37	0.000000	0.00	0.000
10-13-S	100	130	38.01	5062.36	-200.98	-1172.37	0.000000	0.00	0.000
10-14-S	100	130	38.01	5062.36	-127.22	-1172.37	0.000000	0.00	0.000
10-15-S	100	130	38.01	5062.36	-61.87	-1172.37	0.000000	0.00	0.000
10-16-S	100	130	38.01	5062.36	-12.99	-1172.37	0.000000	0.00	0.000
10-17-S	100	130	38.01	5062.36	41.00	-1172.37	0.000000	0.00	0.000
10-18-S	100	130	38.01	5062.36	83.77	-1172.37	0.000000	0.00	0.000
10-19-S	100	130	38.01	5062.36	42.01	-1172.37	0.000000	0.00	0.000
10-20-S	100	130	38.01	5062.36	-30.93	-1172.37	0.000000	0.00	0.000
10-21-S	100	130	38.01	5062.36	-45.58	-1172.37	0.000000	0.00	0.000
10-22-S	100	130	38.01	5062.36	-36.59	-1172.37	0.000000	0.00	0.000
10-23-S	100	130	38.01	5062.36	-12.47	-1172.37	0.000000	0.00	0.000
11-1-S	100	130	38.01	5062.36	-15.73	-1172.37	0.000000	0.00	0.000
11-2-S	100	130	38.01	5062.36	-16.11	-1172.37	0.000000	0.00	0.000
11-3-S	100	130	38.01	5062.36	-9.03	-1172.37	0.000000	0.00	0.000
11-4-S	100	130	38.01	5062.36	17.03	-1172.37	0.000000	0.00	0.000
11-5-S	100	130	38.01	2160.00	61.57	1172.37	0.000000	0.00	0.000
11-6-S	100	130	38.01	2160.00	123.46	1172.37	0.000000	0.00	0.000
11-7-S	100	130	38.01	2160.00	198.41	1172.37	0.000000	0.00	0.000
11-8-S	100	130	38.01	5062.36	-466.65	-1172.37	0.000000	0.00	0.000
11-9-S	100	130	38.01	5062.36	-397.98	-1172.37	0.000000	0.00	0.000
11-10-S	100	130	38.01	5062.36	-345.90	-1172.37	0.000000	0.00	0.000
11-11-S	100	130	38.01	5062.36	-290.52	-1172.37	0.000000	0.00	0.000
11-12-S	100	130	38.01	5062.36	-233.92	-1172.37	0.000000	0.00	0.000
11-13-S	100	130	38.01	5062.36	-175.21	-1172.37	0.000000	0.00	0.000
11-14-S	100	130	38.01	5062.36	-122.09	-1172.37	0.000000	0.00	0.000
11-15-S	100	130	38.01	5062.36	-72.78	-1172.37	0.000000	0.00	0.000
11-16-S	100	130	38.01	5062.36	-37.90	-1172.37	0.000000	0.00	0.000
11-17-S	100	130	38.01	5062.36	-12.42	-1172.37	0.000000	0.00	0.000
11-18-S	100	130	38.01	5062.36	9.34	-1172.37	0.000000	0.00	0.000
11-19-S	100	130	38.01	5062.36	15.63	-1172.37	0.000000	0.00	0.000
11-20-S	100	130	38.01	5062.36	18.14	-1172.37	0.000000	0.00	0.000
11-21-S	100	130	38.01	5062.36	14.48	-1172.37	0.000000	0.00	0.000
11-22-S	100	130	38.01	5062.36	10.70	-1172.37	0.000000	0.00	0.000
11-23-S	100	130	38.01	5062.36	6.75	-1172.37	0.000000	0.00	0.000
12-1-S	100	130	38.01	5062.36	25.37	-1172.37	0.000000	0.00	0.000
12-2-S	100	130	38.01	5062.36	42.51	-1172.37	0.000000	0.00	0.000
12-3-S	100	130	38.01	5062.36	-30.57	-1172.37	0.000000	0.00	0.000
12-4-S	100	130	38.01	5062.36	-159.05	-1172.37	0.000000	0.00	0.000
12-5-S	100	130	38.01	5062.36	-100.89	-1172.37	0.000000	0.00	0.000
12-6-S	100	130	38.01	5062.36	40.12	-1172.37	0.000000	0.00	0.000
12-7-S	100	130	38.01	2160.00	196.80	1172.37	0.000000	0.00	0.000
12-8-S	100	130	38.01	5062.36	-268.84	-1172.37	0.000000	0.00	0.000
12-9-S	100	130	38.01	5062.36	-259.41	-1172.37	0.000000	0.00	0.000
12-10-S	100	130	38.01	5062.36	-414.54	-1172.37	0.000000	0.00	0.000
12-11-S	100	130	38.01	5062.36	-369.25	-1172.37	0.000000	0.00	0.000
12-12-S	100	130	38.01	5062.36	-302.17	-1172.37	0.000000	0.00	0.000
12-13-S	100	130	38.01	5062.36	-205.24	-1172.37	0.000000	0.00	0.000
12-14-S	100	130	38.01	5062.36	-128.35	-1172.37	0.000000	0.00	0.000
12-15-S	100	130	38.01	5062.36	-60.44	-1172.37	0.000000	0.00	0.000
12-16-S	100	130	38.01	5062.36	-7.84	-1172.37	0.000000	0.00	0.000
12-17-S	100	130	38.01	5062.36	47.16	-1172.37	0.000000	0.00	0.000
12-18-S	100	130	38.01	5062.36	94.00	-1172.37	0.000000	0.00	0.000
12-19-S	100	130	38.01	5062.36	46.62	-1172.37	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	111 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
12-20-S	100	130	38.01	5062.36	-36.86	-1172.37	0.000000	0.00	0.000
12-21-S	100	130	38.01	5062.36	-50.63	-1172.37	0.000000	0.00	0.000
12-22-S	100	130	38.01	5062.36	-40.21	-1172.37	0.000000	0.00	0.000
12-23-S	100	130	38.01	5062.36	-14.08	-1172.37	0.000000	0.00	0.000
13-1-S	100	130	38.01	5062.36	-14.25	-1172.37	0.000000	0.00	0.000
13-2-S	100	130	38.01	5062.36	-21.53	-1172.37	0.000000	0.00	0.000
13-3-S	100	130	38.01	5062.36	-19.74	-1172.37	0.000000	0.00	0.000
13-4-S	100	130	38.01	5062.36	16.27	-1172.37	0.000000	0.00	0.000
13-5-S	100	130	38.01	2160.00	51.12	1172.37	0.000000	0.00	0.000
13-6-S	100	130	38.01	2160.00	114.71	1172.37	0.000000	0.00	0.000
13-7-S	100	130	38.01	2160.00	196.52	1172.37	0.000000	0.00	0.000
13-8-S	100	130	38.01	5062.36	-449.87	-1172.37	0.000000	0.00	0.000
13-9-S	100	130	38.01	5062.36	-399.43	-1172.37	0.000000	0.00	0.000
13-10-S	100	130	38.01	5062.36	-346.78	-1172.37	0.000000	0.00	0.000
13-11-S	100	130	38.01	5062.36	-292.65	-1172.37	0.000000	0.00	0.000
13-12-S	100	130	38.01	5062.36	-236.56	-1172.37	0.000000	0.00	0.000
13-13-S	100	130	38.01	5062.36	-176.88	-1172.37	0.000000	0.00	0.000
13-14-S	100	130	38.01	5062.36	-122.32	-1172.37	0.000000	0.00	0.000
13-15-S	100	130	38.01	5062.36	-71.37	-1172.37	0.000000	0.00	0.000
13-16-S	100	130	38.01	5062.36	-34.51	-1172.37	0.000000	0.00	0.000
13-17-S	100	130	38.01	5062.36	-11.47	-1172.37	0.000000	0.00	0.000
13-18-S	100	130	38.01	5062.36	10.75	-1172.37	0.000000	0.00	0.000
13-19-S	100	130	38.01	5062.36	18.41	-1172.37	0.000000	0.00	0.000
13-20-S	100	130	38.01	5062.36	22.02	-1172.37	0.000000	0.00	0.000
13-21-S	100	130	38.01	5062.36	16.77	-1172.37	0.000000	0.00	0.000
13-22-S	100	130	38.01	5062.36	11.94	-1172.37	0.000000	0.00	0.000
13-23-S	100	130	38.01	5062.36	7.47	-1172.37	0.000000	0.00	0.000
14-1-S	100	130	41.81	5012.90	14.35	-1193.79	0.000000	0.00	0.000
14-2-S	100	130	41.81	5012.90	-23.08	-1193.79	0.000000	0.00	0.000
14-3-S	100	130	41.81	5012.90	-29.26	-1193.79	0.000000	0.00	0.000
14-4-S	100	130	41.81	5012.90	-87.03	-1193.79	0.000000	0.00	0.000
14-5-S	100	130	41.81	5012.90	-51.42	-1193.79	0.000000	0.00	0.000
14-6-S	100	130	41.81	5012.90	74.63	-1193.79	0.000000	0.00	0.000
14-7-S	100	130	41.81	2160.00	196.92	1193.79	0.000000	0.00	0.000
14-8-S	100	130	41.81	5012.90	-356.62	-1193.79	0.000000	0.00	0.000
14-9-S	100	130	41.81	5012.90	-328.43	-1193.79	0.000000	0.00	0.000
14-10-S	100	130	41.81	5012.90	-380.45	-1193.79	0.000000	0.00	0.000
14-11-S	100	130	41.81	5012.90	-331.45	-1193.79	0.000000	0.00	0.000
14-12-S	100	130	41.81	5012.90	-270.14	-1193.79	0.000000	0.00	0.000
14-13-S	100	130	41.81	5012.90	-191.37	-1193.79	0.000000	0.00	0.000
14-14-S	100	130	41.81	5012.90	-125.09	-1193.79	0.000000	0.00	0.000
14-15-S	100	130	41.81	5012.90	-65.14	-1193.79	0.000000	0.00	0.000
14-16-S	100	130	41.81	5012.90	-20.36	-1193.79	0.000000	0.00	0.000
14-17-S	100	130	41.81	5012.90	25.96	-1193.79	0.000000	0.00	0.000
14-18-S	100	130	41.81	5012.90	52.93	-1193.79	0.000000	0.00	0.000
14-19-S	100	130	41.81	5012.90	33.08	-1193.79	0.000000	0.00	0.000
14-20-S	100	130	41.81	5012.90	-21.10	-1193.79	0.000000	0.00	0.000
14-21-S	100	130	41.81	5012.90	-26.76	-1193.79	0.000000	0.00	0.000
14-22-S	100	130	41.81	5012.90	-21.08	-1193.79	0.000000	0.00	0.000
14-23-S	100	130	41.81	5012.90	-7.96	-1193.79	0.000000	0.00	0.000
15-1-S	100	130	38.01	5062.36	14.35	-1172.37	0.000000	0.00	0.000
15-2-S	100	130	38.01	5062.36	-23.08	-1172.37	0.000000	0.00	0.000
15-3-S	100	130	38.01	5062.36	-29.26	-1172.37	0.000000	0.00	0.000
15-4-S	100	130	38.01	5062.36	-87.03	-1172.37	0.000000	0.00	0.000
15-5-S	100	130	38.01	5062.36	-51.42	-1172.37	0.000000	0.00	0.000
15-6-S	100	130	38.01	5062.36	74.63	-1172.37	0.000000	0.00	0.000
15-7-S	100	130	38.01	2160.00	196.92	1172.37	0.000000	0.00	0.000
15-8-S	100	130	38.01	5062.36	-356.62	-1172.37	0.000000	0.00	0.000
15-9-S	100	130	38.01	5062.36	-328.43	-1172.37	0.000000	0.00	0.000
15-10-S	100	130	38.01	5062.36	-380.45	-1172.37	0.000000	0.00	0.000
15-11-S	100	130	38.01	5062.36	-331.45	-1172.37	0.000000	0.00	0.000
15-12-S	100	130	38.01	5062.36	-270.14	-1172.37	0.000000	0.00	0.000
15-13-S	100	130	38.01	5062.36	-191.37	-1172.37	0.000000	0.00	0.000
15-14-S	100	130	38.01	5062.36	-125.09	-1172.37	0.000000	0.00	0.000
15-15-S	100	130	38.01	5062.36	-65.14	-1172.37	0.000000	0.00	0.000
15-16-S	100	130	38.01	5062.36	-20.36	-1172.37	0.000000	0.00	0.000
15-17-S	100	130	38.01	5062.36	25.96	-1172.37	0.000000	0.00	0.000
15-18-S	100	130	38.01	5062.36	52.93	-1172.37	0.000000	0.00	0.000
15-19-S	100	130	38.01	5062.36	33.08	-1172.37	0.000000	0.00	0.000
15-20-S	100	130	38.01	5062.36	-21.10	-1172.37	0.000000	0.00	0.000
15-21-S	100	130	38.01	5062.36	-26.76	-1172.37	0.000000	0.00	0.000
15-22-S	100	130	38.01	5062.36	-21.08	-1172.37	0.000000	0.00	0.000
15-23-S	100	130	38.01	5062.36	-7.96	-1172.37	0.000000	0.00	0.000
16-1-S	100	130	38.01	5062.36	-14.25	-1172.37	0.000000	0.00	0.000
16-2-S	100	130	38.01	5062.36	-21.53	-1172.37	0.000000	0.00	0.000
16-3-S	100	130	38.01	5062.36	-19.74	-1172.37	0.000000	0.00	0.000
16-4-S	100	130	38.01	5062.36	16.27	-1172.37	0.000000	0.00	0.000
16-5-S	100	130	38.01	2160.00	51.12	1172.37	0.000000	0.00	0.000
16-6-S	100	130	38.01	2160.00	114.71	1172.37	0.000000	0.00	0.000
16-7-S	100	130	38.01	2160.00	196.52	1172.37	0.000000	0.00	0.000
16-8-S	100	130	38.01	5062.36	-449.87	-1172.37	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	112 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
16-9-S	100	130	38.01	5062.36	-399.43	-1172.37	0.000000	0.00	0.000
16-10-S	100	130	38.01	5062.36	-346.78	-1172.37	0.000000	0.00	0.000
16-11-S	100	130	38.01	5062.36	-292.65	-1172.37	0.000000	0.00	0.000
16-12-S	100	130	38.01	5062.36	-236.56	-1172.37	0.000000	0.00	0.000
16-13-S	100	130	38.01	5062.36	-176.88	-1172.37	0.000000	0.00	0.000
16-14-S	100	130	38.01	5062.36	-122.32	-1172.37	0.000000	0.00	0.000
16-15-S	100	130	38.01	5062.36	-71.37	-1172.37	0.000000	0.00	0.000
16-16-S	100	130	38.01	5062.36	-34.51	-1172.37	0.000000	0.00	0.000
16-17-S	100	130	38.01	5062.36	-11.47	-1172.37	0.000000	0.00	0.000
16-18-S	100	130	38.01	5062.36	10.75	-1172.37	0.000000	0.00	0.000
16-19-S	100	130	38.01	5062.36	18.41	-1172.37	0.000000	0.00	0.000
16-20-S	100	130	38.01	5062.36	22.02	-1172.37	0.000000	0.00	0.000
16-21-S	100	130	38.01	5062.36	16.77	-1172.37	0.000000	0.00	0.000
16-22-S	100	130	38.01	5062.36	11.94	-1172.37	0.000000	0.00	0.000
16-23-S	100	130	38.01	5062.36	7.47	-1172.37	0.000000	0.00	0.000
17-1-S	100	130	38.01	5062.36	25.37	-1172.37	0.000000	0.00	0.000
17-2-S	100	130	38.01	5062.36	42.51	-1172.37	0.000000	0.00	0.000
17-3-S	100	130	38.01	5062.36	-30.57	-1172.37	0.000000	0.00	0.000
17-4-S	100	130	38.01	5062.36	-159.05	-1172.37	0.000000	0.00	0.000
17-5-S	100	130	38.01	5062.36	-100.89	-1172.37	0.000000	0.00	0.000
17-6-S	100	130	38.01	5062.36	40.12	-1172.37	0.000000	0.00	0.000
17-7-S	100	130	38.01	2160.00	196.80	1172.37	0.000000	0.00	0.000
17-8-S	100	130	38.01	5062.36	-268.84	-1172.37	0.000000	0.00	0.000
17-9-S	100	130	38.01	5062.36	-259.41	-1172.37	0.000000	0.00	0.000
17-10-S	100	130	38.01	5062.36	-414.54	-1172.37	0.000000	0.00	0.000
17-11-S	100	130	38.01	5062.36	-369.25	-1172.37	0.000000	0.00	0.000
17-12-S	100	130	38.01	5062.36	-302.17	-1172.37	0.000000	0.00	0.000
17-13-S	100	130	38.01	5062.36	-205.24	-1172.37	0.000000	0.00	0.000
17-14-S	100	130	38.01	5062.36	-128.35	-1172.37	0.000000	0.00	0.000
17-15-S	100	130	38.01	5062.36	-60.44	-1172.37	0.000000	0.00	0.000
17-16-S	100	130	38.01	5062.36	-7.84	-1172.37	0.000000	0.00	0.000
17-17-S	100	130	38.01	5062.36	47.16	-1172.37	0.000000	0.00	0.000
17-18-S	100	130	38.01	5062.36	94.00	-1172.37	0.000000	0.00	0.000
17-19-S	100	130	38.01	5062.36	46.62	-1172.37	0.000000	0.00	0.000
17-20-S	100	130	38.01	5062.36	-36.86	-1172.37	0.000000	0.00	0.000
17-21-S	100	130	38.01	5062.36	-50.63	-1172.37	0.000000	0.00	0.000
17-22-S	100	130	38.01	5062.36	-40.21	-1172.37	0.000000	0.00	0.000
17-23-S	100	130	38.01	5062.36	-14.08	-1172.37	0.000000	0.00	0.000
18-1-S	100	130	38.01	5062.36	-15.73	-1172.37	0.000000	0.00	0.000
18-2-S	100	130	38.01	5062.36	-16.11	-1172.37	0.000000	0.00	0.000
18-3-S	100	130	38.01	5062.36	-9.03	-1172.37	0.000000	0.00	0.000
18-4-S	100	130	38.01	5062.36	17.03	-1172.37	0.000000	0.00	0.000
18-5-S	100	130	38.01	2160.00	61.57	1172.37	0.000000	0.00	0.000
18-6-S	100	130	38.01	2160.00	123.46	1172.37	0.000000	0.00	0.000
18-7-S	100	130	38.01	2160.00	198.41	1172.37	0.000000	0.00	0.000
18-8-S	100	130	38.01	5062.36	-466.65	-1172.37	0.000000	0.00	0.000
18-9-S	100	130	38.01	5062.36	-397.98	-1172.37	0.000000	0.00	0.000
18-10-S	100	130	38.01	5062.36	-345.90	-1172.37	0.000000	0.00	0.000
18-11-S	100	130	38.01	5062.36	-290.52	-1172.37	0.000000	0.00	0.000
18-12-S	100	130	38.01	5062.36	-233.92	-1172.37	0.000000	0.00	0.000
18-13-S	100	130	38.01	5062.36	-175.21	-1172.37	0.000000	0.00	0.000
18-14-S	100	130	38.01	5062.36	-122.09	-1172.37	0.000000	0.00	0.000
18-15-S	100	130	38.01	5062.36	-72.78	-1172.37	0.000000	0.00	0.000
18-16-S	100	130	38.01	5062.36	-37.90	-1172.37	0.000000	0.00	0.000
18-17-S	100	130	38.01	5062.36	-12.42	-1172.37	0.000000	0.00	0.000
18-18-S	100	130	38.01	5062.36	9.34	-1172.37	0.000000	0.00	0.000
18-19-S	100	130	38.01	5062.36	15.63	-1172.37	0.000000	0.00	0.000
18-20-S	100	130	38.01	5062.36	18.14	-1172.37	0.000000	0.00	0.000
18-21-S	100	130	38.01	5062.36	14.48	-1172.37	0.000000	0.00	0.000
18-22-S	100	130	38.01	5062.36	10.70	-1172.37	0.000000	0.00	0.000
18-23-S	100	130	38.01	5062.36	6.75	-1172.37	0.000000	0.00	0.000
19-1-S	100	130	38.01	5062.36	20.68	-1172.37	0.000000	0.00	0.000
19-2-S	100	130	38.01	5062.36	39.55	-1172.37	0.000000	0.00	0.000
19-3-S	100	130	38.01	5062.36	-27.80	-1172.37	0.000000	0.00	0.000
19-4-S	100	130	38.01	5062.36	-140.04	-1172.37	0.000000	0.00	0.000
19-5-S	100	130	38.01	5062.36	-91.24	-1172.37	0.000000	0.00	0.000
19-6-S	100	130	38.01	5062.36	52.35	-1172.37	0.000000	0.00	0.000
19-7-S	100	130	38.01	2160.00	197.75	1172.37	0.000000	0.00	0.000
19-8-S	100	130	38.01	5062.36	-300.22	-1172.37	0.000000	0.00	0.000
19-9-S	100	130	38.01	5062.36	-276.32	-1172.37	0.000000	0.00	0.000
19-10-S	100	130	38.01	5062.36	-405.85	-1172.37	0.000000	0.00	0.000
19-11-S	100	130	38.01	5062.36	-358.96	-1172.37	0.000000	0.00	0.000
19-12-S	100	130	38.01	5062.36	-293.00	-1172.37	0.000000	0.00	0.000
19-13-S	100	130	38.01	5062.36	-200.98	-1172.37	0.000000	0.00	0.000
19-14-S	100	130	38.01	5062.36	-127.22	-1172.37	0.000000	0.00	0.000
19-15-S	100	130	38.01	5062.36	-61.87	-1172.37	0.000000	0.00	0.000
19-16-S	100	130	38.01	5062.36	-12.99	-1172.37	0.000000	0.00	0.000
19-17-S	100	130	38.01	5062.36	41.00	-1172.37	0.000000	0.00	0.000
19-18-S	100	130	38.01	5062.36	83.77	-1172.37	0.000000	0.00	0.000
19-19-S	100	130	38.01	5062.36	42.01	-1172.37	0.000000	0.00	0.000
19-20-S	100	130	38.01	5062.36	-30.93	-1172.37	0.000000	0.00	0.000

APPALTATORE:



**ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO**

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	113 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
19-21-S	100	130	38.01	5062.36	-45.58	-1172.37	0.000000	0.00	0.000
19-22-S	100	130	38.01	5062.36	-36.59	-1172.37	0.000000	0.00	0.000
19-23-S	100	130	38.01	5062.36	-12.47	-1172.37	0.000000	0.00	0.000
20-1-S	100	130	38.01	5062.36	-12.60	-1172.37	0.000000	0.00	0.000
20-2-S	100	130	38.01	5062.36	-21.17	-1172.37	0.000000	0.00	0.000
20-3-S	100	130	38.01	5062.36	-28.54	-1172.37	0.000000	0.00	0.000
20-4-S	100	130	38.01	5062.36	-35.17	-1172.37	0.000000	0.00	0.000
20-5-S	100	130	38.01	5062.36	29.81	-1172.37	0.000000	0.00	0.000
20-6-S	100	130	38.01	5062.36	88.41	-1172.37	0.000000	0.00	0.000
20-7-S	100	130	38.01	2160.00	187.35	1172.37	0.000000	0.00	0.000
20-8-S	100	130	38.01	5062.36	-416.35	-1172.37	0.000000	0.00	0.000
20-9-S	100	130	38.01	5062.36	-375.37	-1172.37	0.000000	0.00	0.000
20-10-S	100	130	38.01	5062.36	-352.00	-1172.37	0.000000	0.00	0.000
20-11-S	100	130	38.01	5062.36	-301.18	-1172.37	0.000000	0.00	0.000
20-12-S	100	130	38.01	5062.36	-245.00	-1172.37	0.000000	0.00	0.000
20-13-S	100	130	38.01	5062.36	-180.34	-1172.37	0.000000	0.00	0.000
20-14-S	100	130	38.01	5062.36	-122.28	-1172.37	0.000000	0.00	0.000
20-15-S	100	130	38.01	5062.36	-68.36	-1172.37	0.000000	0.00	0.000
20-16-S	100	130	38.01	5062.36	-30.02	-1172.37	0.000000	0.00	0.000
20-17-S	100	130	38.01	5062.36	13.44	-1172.37	0.000000	0.00	0.000
20-18-S	100	130	38.01	5062.36	24.52	-1172.37	0.000000	0.00	0.000
20-19-S	100	130	38.01	5062.36	25.23	-1172.37	0.000000	0.00	0.000
20-20-S	100	130	38.01	5062.36	24.11	-1172.37	0.000000	0.00	0.000
20-21-S	100	130	38.01	5062.36	14.93	-1172.37	0.000000	0.00	0.000
20-22-S	100	130	38.01	5062.36	11.00	-1172.37	0.000000	0.00	0.000
20-23-S	100	130	38.01	5062.36	9.70	-1172.37	0.000000	0.00	0.000

Pali in c.a.

Apertura limite fessure $w_{lim}=0.400$ mm

Ip	Is	Af [cmq]	Aeff [cmq]	Mpf [kNm]	M [kNm]	N [kN]	ε [%]	Sm [mm]	wm [mm]
1	1	58.81	3578.11	237.44	-487.54	-38.43	0.040295	287.55	0.20
2	1	49.76	2930.13	295.72	-487.54	792.91	0.025525	282.54	0.12
3	1	40.72	2327.19	353.98	-487.54	1624.26	0.000000	0.00	0.00

Combinazioni SLEQ

Paramento

Apertura limite fessure $w_{lim}=0.20$

n°	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
1	100	70	0.00	0.00	0.00	0.00	0.000022	---	0.000 (7)
2	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (7)
3	100	70	0.00	0.00	0.00	0.00	0.000037	---	0.000 (7)
4	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (7)
5	100	70	0.00	0.00	0.00	0.00	0.000053	---	0.000 (7)
6	100	70	0.00	0.00	0.00	0.00	0.000060	---	0.000 (7)
7	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (7)
8	100	70	0.00	0.00	0.00	0.00	0.000076	---	0.000 (7)
9	100	70	0.00	0.00	0.00	0.00	0.000083	---	0.000 (7)
10	100	70	0.00	0.00	0.00	0.00	0.000091	---	0.000 (7)
11	100	70	0.00	0.00	0.00	0.00	0.000099	---	0.000 (7)
12	100	70	0.00	0.00	0.00	0.00	0.000106	---	0.000 (7)
13	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (7)
14	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (7)
15	100	70	0.00	0.00	0.00	0.00	0.000129	---	0.000 (7)
16	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (7)
17	100	70	0.00	0.00	0.00	0.00	0.000144	---	0.000 (7)
18	100	70	0.00	0.00	0.00	0.00	0.000152	---	0.000 (7)
19	100	70	0.00	0.00	0.00	0.00	0.000160	---	0.000 (7)
20	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (7)
21	100	70	0.00	0.00	0.00	0.00	0.000175	---	0.000 (7)
22	100	70	0.00	0.00	0.00	0.00	0.000182	---	0.000 (7)
23	100	70	0.00	0.00	0.00	0.00	0.000190	---	0.000 (7)
24	100	70	0.00	0.00	0.00	0.00	0.000198	---	0.000 (7)
25	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (7)
26	100	70	0.00	0.00	0.00	0.00	0.000213	---	0.000 (7)
27	100	70	0.00	0.00	0.00	0.00	0.000221	---	0.000 (7)
28	100	70	0.00	0.00	0.00	0.00	0.000228	---	0.000 (7)

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO
PROGETTO ESECUTIVO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	114 di 123

n°	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
29	100	70	0.00	0.00	0.00	0.00	0.000236	---	0.000 (7)
30	100	70	0.00	0.00	0.00	0.00	0.000243	---	0.000 (7)
31	100	70	0.00	0.00	0.00	0.00	0.000000	0.00	0.000 (7)
32	100	70	31.42	2000.00	0.05	387.76	0.000000	0.00	0.000 (7)
33	100	70	31.42	2000.00	0.21	387.98	0.000000	0.00	0.000 (7)
34	100	70	31.42	2000.00	0.47	388.19	0.000000	0.00	0.000 (7)
35	100	70	31.42	2000.00	0.86	388.40	0.000000	0.00	0.000 (7)
36	100	70	31.42	2000.00	1.36	388.61	0.000000	0.00	0.000 (7)
37	100	70	31.42	2000.00	1.99	388.82	0.000000	0.00	0.000 (7)
38	100	70	31.42	2000.00	2.74	389.04	0.000000	0.00	0.000 (7)
39	100	70	31.42	2000.00	3.64	389.24	0.000000	0.00	0.000 (7)
40	100	70	31.42	2000.00	4.67	389.45	0.000000	0.00	0.000 (7)
41	100	70	31.42	2000.00	5.84	389.67	0.000000	0.00	0.000 (7)
42	100	120	31.42	2000.00	19.80	1060.09	0.000000	0.00	0.000 (7)
43	100	120	31.42	2000.00	21.47	1060.69	0.000000	0.00	0.000 (7)
44	100	120	31.42	2000.00	23.85	1061.30	0.000000	0.00	0.000 (7)
45	100	120	31.42	2000.00	26.73	1061.96	0.000000	0.00	0.000 (7)
46	100	120	31.42	2000.00	29.93	1062.56	0.000000	0.00	0.000 (7)
47	100	120	31.42	2000.00	33.31	1063.17	0.000000	0.00	0.000 (7)
48	100	120	31.42	2000.00	36.82	1063.78	0.000000	0.00	0.000 (7)
49	100	120	31.42	2000.00	40.49	1064.42	0.000000	0.00	0.000 (7)
50	100	120	31.42	2000.00	44.33	1065.04	0.000000	0.00	0.000 (7)
51	100	120	31.42	2000.00	48.33	1065.64	0.000000	0.00	0.000 (7)
52	100	120	31.42	2000.00	52.51	1066.29	0.000000	0.00	0.000 (7)
53	100	120	31.42	2000.00	56.88	1066.90	0.000000	0.00	0.000 (7)
54	100	120	31.42	2000.00	61.43	1067.51	0.000000	0.00	0.000 (7)
55	100	120	31.42	2000.00	66.18	1068.13	0.000000	0.00	0.000 (7)
56	100	120	31.42	2000.00	71.14	1068.75	0.000000	0.00	0.000 (7)
57	100	120	31.42	2000.00	76.29	1069.39	0.000000	0.00	0.000 (7)
58	100	120	31.42	2000.00	81.67	1069.97	0.000000	0.00	0.000 (7)
59	100	120	31.42	2000.00	87.26	1070.62	0.000000	0.00	0.000 (7)
60	100	120	31.42	2000.00	93.07	1071.22	0.000000	0.00	0.000 (7)
61	100	120	31.42	2000.00	99.11	1071.82	0.000000	0.00	0.000 (7)
62	100	120	31.42	2000.00	105.39	1072.43	0.000000	0.00	0.000 (7)
63	100	120	31.42	2000.00	111.90	1073.05	0.000000	0.00	0.000 (7)
64	100	120	31.42	2000.00	118.66	1073.68	0.000000	0.00	0.000 (7)
65	100	120	31.42	2000.00	125.67	1074.33	0.000000	0.00	0.000 (7)
66	100	120	31.42	2000.00	132.93	1074.92	0.000000	0.00	0.000 (7)
67	100	120	31.42	2000.00	140.46	1075.55	0.000000	0.00	0.000 (7)
68	100	120	31.42	2000.00	148.24	1076.17	0.000000	0.00	0.000 (7)
69	100	120	31.42	2000.00	156.30	1076.76	0.000000	0.00	0.000 (7)
70	100	120	31.42	2000.00	164.63	1077.43	0.000000	0.00	0.000 (7)
71	100	120	31.42	2000.00	173.24	1077.99	0.000000	0.00	0.000 (7)
72	100	120	31.42	2000.00	182.13	1078.61	0.000000	0.00	0.000 (7)
73	100	120	31.42	2000.00	191.31	1079.25	0.000000	0.00	0.000 (7)
74	100	120	31.42	2000.00	200.79	1079.88	0.000000	0.00	0.000 (7)
75	100	120	31.42	2000.00	210.56	1080.50	0.000000	0.00	0.000 (7)
76	100	120	31.42	2000.00	220.64	1081.11	0.000000	0.00	0.000 (7)
77	100	120	31.42	2000.00	231.03	1081.73	0.000000	0.00	0.000 (7)
78	100	120	31.42	2000.00	241.73	1082.36	0.000000	0.00	0.000 (7)
79	100	120	31.42	2000.00	252.75	1082.95	0.000000	0.00	0.000 (7)
80	100	120	31.42	2000.00	264.09	1083.57	0.000000	0.00	0.000 (7)
81	100	120	31.42	2000.00	275.76	1084.21	0.000000	0.00	0.000 (7)
82	100	120	31.42	2000.00	287.76	1084.83	0.000000	0.00	0.000 (7)
83	100	120	31.42	2000.00	288.00	1084.84	0.000000	0.00	0.000 (7)
84	100	120	31.42	2000.00	300.34	1085.46	0.000000	0.00	0.000 (7)
85	100	120	31.42	2000.00	313.02	1086.07	0.000000	0.00	0.000 (7)
86	100	120	31.42	2000.00	326.05	1086.69	0.000000	0.00	0.000 (7)
87	100	120	31.42	2000.00	339.43	1087.31	0.000000	0.00	0.000 (7)
88	100	120	31.42	2000.00	353.16	1087.91	0.000000	0.00	0.000 (7)
89	100	120	31.42	2000.00	367.26	1088.52	0.000000	0.00	0.000 (7)
90	100	120	31.42	2000.00	381.72	1089.16	0.000000	0.00	0.000 (7)
91	100	120	31.42	2000.00	396.56	1089.78	0.000000	0.00	0.000 (7)
92	100	120	31.42	2000.00	411.77	1090.39	0.000000	0.00	0.000 (7)
93	100	120	31.42	2000.00	427.36	1091.00	0.000000	0.00	0.000 (7)

Piastra fondazioneApertura limite fessure $w_{lim}=0.20$

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
1-1-P	75	130	30.41	3771.72	2.70	-889.99	0.000000	0.00	0.000
1-2-P	75	130	30.41	3771.72	-5.02	-889.99	0.000000	0.00	0.000
1-3-P	75	130	30.41	3771.72	-17.72	-889.99	0.000000	0.00	0.000
1-4-P	75	130	30.41	3771.72	-45.23	-889.99	0.000000	0.00	0.000
1-5-P	75	130	30.41	3771.72	-72.99	-889.99	0.000000	0.00	0.000
1-6-P	75	130	30.41	3771.72	-88.61	-889.99	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandatario:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	115 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
1-7-P	75	130	30.41	3771.72	-49.20	-889.99	0.000000	0.00	0.000
1-8-P	75	130	30.41	3771.72	-16.54	-889.99	0.000000	0.00	0.000
1-9-P	75	130	30.41	3771.72	25.24	-889.99	0.000000	0.00	0.000
1-10-P	75	130	30.41	3771.72	34.74	-889.99	0.000000	0.00	0.000
1-11-P	75	130	30.41	3771.72	37.99	-889.99	0.000000	0.00	0.000
1-12-P	75	130	30.41	3771.72	31.28	-889.99	0.000000	0.00	0.000
1-13-P	75	130	30.41	3771.72	10.63	-889.99	0.000000	0.00	0.000
1-14-P	75	130	30.41	3771.72	-30.24	-889.99	0.000000	0.00	0.000
1-15-P	75	130	30.41	3771.72	-64.21	-889.99	0.000000	0.00	0.000
1-16-P	75	130	30.41	3771.72	-56.64	-889.99	0.000000	0.00	0.000
1-17-P	75	130	30.41	3771.72	-26.50	-889.99	0.000000	0.00	0.000
1-18-P	75	130	30.41	3771.72	15.19	-889.99	0.000000	0.00	0.000
1-19-P	75	130	30.41	3771.72	34.75	-889.99	0.000000	0.00	0.000
1-20-P	75	130	30.41	1620.00	42.79	889.99	0.000000	0.00	0.000
1-21-P	75	130	30.41	3771.72	37.88	-889.99	0.000000	0.00	0.000
1-22-P	75	130	30.41	3771.72	25.64	-889.99	0.000000	0.00	0.000
1-23-P	75	130	30.41	3771.72	-15.07	-889.99	0.000000	0.00	0.000
1-24-P	75	130	30.41	3771.72	-43.26	-889.99	0.000000	0.00	0.000
1-25-P	75	130	30.41	3771.72	-77.84	-889.99	0.000000	0.00	0.000
1-26-P	75	130	30.41	3771.72	-43.26	-889.99	0.000000	0.00	0.000
1-27-P	75	130	30.41	3771.72	-15.07	-889.99	0.000000	0.00	0.000
1-28-P	75	130	30.41	3771.72	25.64	-889.99	0.000000	0.00	0.000
1-29-P	75	130	30.41	3771.72	37.88	-889.99	0.000000	0.00	0.000
1-30-P	75	130	30.41	1620.00	42.79	889.99	0.000000	0.00	0.000
1-31-P	75	130	30.41	3771.72	34.75	-889.99	0.000000	0.00	0.000
1-32-P	75	130	30.41	3771.72	15.19	-889.99	0.000000	0.00	0.000
1-33-P	75	130	30.41	3771.72	-26.50	-889.99	0.000000	0.00	0.000
1-34-P	75	130	30.41	3771.72	-56.64	-889.99	0.000000	0.00	0.000
1-35-P	75	130	30.41	3771.72	-64.21	-889.99	0.000000	0.00	0.000
1-36-P	75	130	30.41	3771.72	-30.24	-889.99	0.000000	0.00	0.000
1-37-P	75	130	30.41	3771.72	10.63	-889.99	0.000000	0.00	0.000
1-38-P	75	130	30.41	3771.72	31.28	-889.99	0.000000	0.00	0.000
1-39-P	75	130	30.41	3771.72	37.99	-889.99	0.000000	0.00	0.000
1-40-P	75	130	30.41	3771.72	34.74	-889.99	0.000000	0.00	0.000
1-41-P	75	130	30.41	3771.72	25.24	-889.99	0.000000	0.00	0.000
1-42-P	75	130	30.41	3771.72	-16.54	-889.99	0.000000	0.00	0.000
1-43-P	75	130	30.41	3771.72	-49.20	-889.99	0.000000	0.00	0.000
1-44-P	75	130	30.41	3771.72	-88.61	-889.99	0.000000	0.00	0.000
1-45-P	75	130	30.41	3771.72	-72.99	-889.99	0.000000	0.00	0.000
1-46-P	75	130	30.41	3771.72	-45.23	-889.99	0.000000	0.00	0.000
1-47-P	75	130	30.41	3771.72	-17.72	-889.99	0.000000	0.00	0.000
1-48-P	75	130	30.41	3771.72	-5.02	-889.99	0.000000	0.00	0.000
1-49-P	75	130	30.41	3771.72	2.70	-889.99	0.000000	0.00	0.000
2-1-P	75	130	30.41	1620.00	14.35	889.99	0.000000	0.00	0.000
2-2-P	75	130	30.41	1620.00	13.26	889.99	0.000000	0.00	0.000
2-3-P	75	130	30.41	3771.72	10.52	-889.99	0.000000	0.00	0.000
2-4-P	75	130	30.41	3771.72	10.04	-889.99	0.000000	0.00	0.000
2-5-P	75	130	30.41	3771.72	-53.15	-889.99	0.000000	0.00	0.000
2-6-P	75	130	30.41	3771.72	-87.73	-889.99	0.000000	0.00	0.000
2-7-P	75	130	30.41	3771.72	-22.32	-889.99	0.000000	0.00	0.000
2-8-P	75	130	30.41	3771.72	20.34	-889.99	0.000000	0.00	0.000
2-9-P	75	130	30.41	1620.00	34.11	889.99	0.000000	0.00	0.000
2-10-P	75	130	30.41	1620.00	39.02	889.99	0.000000	0.00	0.000
2-11-P	75	130	30.41	1620.00	40.55	889.99	0.000000	0.00	0.000
2-12-P	75	130	30.41	1620.00	37.00	889.99	0.000000	0.00	0.000
2-13-P	75	130	30.41	3771.72	26.12	-889.99	0.000000	0.00	0.000
2-14-P	75	130	30.41	3771.72	10.12	-889.99	0.000000	0.00	0.000
2-15-P	75	130	30.41	3771.72	-67.09	-889.99	0.000000	0.00	0.000
2-16-P	75	130	30.41	3771.72	-54.41	-889.99	0.000000	0.00	0.000
2-17-P	75	130	30.41	3771.72	18.59	-889.99	0.000000	0.00	0.000
2-18-P	75	130	30.41	3771.72	28.77	-889.99	0.000000	0.00	0.000
2-19-P	75	130	30.41	1620.00	38.23	889.99	0.000000	0.00	0.000
2-20-P	75	130	30.41	1620.00	42.20	889.99	0.000000	0.00	0.000
2-21-P	75	130	30.41	1620.00	39.74	889.99	0.000000	0.00	0.000
2-22-P	75	130	30.41	1620.00	33.83	889.99	0.000000	0.00	0.000
2-23-P	75	130	30.41	3771.72	21.63	-889.99	0.000000	0.00	0.000
2-24-P	75	130	30.41	3771.72	-29.38	-889.99	0.000000	0.00	0.000
2-25-P	75	130	30.41	3771.72	-92.55	-889.99	0.000000	0.00	0.000
2-26-P	75	130	30.41	3771.72	-29.38	-889.99	0.000000	0.00	0.000
2-27-P	75	130	30.41	3771.72	21.63	-889.99	0.000000	0.00	0.000
2-28-P	75	130	30.41	1620.00	33.83	889.99	0.000000	0.00	0.000
2-29-P	75	130	30.41	1620.00	39.74	889.99	0.000000	0.00	0.000
2-30-P	75	130	30.41	1620.00	42.20	889.99	0.000000	0.00	0.000
2-31-P	75	130	30.41	1620.00	38.23	889.99	0.000000	0.00	0.000
2-32-P	75	130	30.41	3771.72	28.77	-889.99	0.000000	0.00	0.000
2-33-P	75	130	30.41	3771.72	18.59	-889.99	0.000000	0.00	0.000
2-34-P	75	130	30.41	3771.72	-54.41	-889.99	0.000000	0.00	0.000
2-35-P	75	130	30.41	3771.72	-67.09	-889.99	0.000000	0.00	0.000
2-36-P	75	130	30.41	3771.72	10.12	-889.99	0.000000	0.00	0.000
2-37-P	75	130	30.41	3771.72	26.12	-889.99	0.000000	0.00	0.000
2-38-P	75	130	30.41	1620.00	37.00	889.99	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
IF2R 2.2.E.ZZ CL TR.16.0.5.003 A 116 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
2-39-P	75	130	30.41	1620.00	40.55	889.99	0.000000	0.00	0.000
2-40-P	75	130	30.41	1620.00	39.02	889.99	0.000000	0.00	0.000
2-41-P	75	130	30.41	1620.00	34.11	889.99	0.000000	0.00	0.000
2-42-P	75	130	30.41	3771.72	20.34	-889.99	0.000000	0.00	0.000
2-43-P	75	130	30.41	3771.72	-22.32	-889.99	0.000000	0.00	0.000
2-44-P	75	130	30.41	3771.72	-87.73	-889.99	0.000000	0.00	0.000
2-45-P	75	130	30.41	3771.72	-53.15	-889.99	0.000000	0.00	0.000
2-46-P	75	130	30.41	3771.72	10.04	-889.99	0.000000	0.00	0.000
2-47-P	75	130	30.41	3771.72	10.52	-889.99	0.000000	0.00	0.000
2-48-P	75	130	30.41	1620.00	13.26	889.99	0.000000	0.00	0.000
2-49-P	75	130	30.41	1620.00	14.35	889.99	0.000000	0.00	0.000
5-1-P	92	130	38.01	4645.32	-16.48	-1100.50	0.000000	0.00	0.000
5-2-P	92	130	38.01	4645.32	-23.28	-1100.50	0.000000	0.00	0.000
5-3-P	92	130	38.01	4645.32	-35.74	-1100.50	0.000000	0.00	0.000
5-4-P	92	130	38.01	4645.32	-55.65	-1100.50	0.000000	0.00	0.000
5-5-P	92	130	38.01	4645.32	-102.15	-1100.50	0.000000	0.00	0.000
5-6-P	92	130	38.01	4645.32	-135.25	-1100.50	0.000000	0.00	0.000
5-7-P	92	130	38.01	4645.32	-88.23	-1100.50	0.000000	0.00	0.000
5-8-P	92	130	38.01	4645.32	-62.58	-1100.50	0.000000	0.00	0.000
5-9-P	92	130	38.01	4645.32	-51.19	-1100.50	0.000000	0.00	0.000
5-10-P	92	130	38.01	4645.32	-50.58	-1100.50	0.000000	0.00	0.000
5-11-P	92	130	38.01	4645.32	-50.52	-1100.50	0.000000	0.00	0.000
5-12-P	92	130	38.01	4645.32	-51.29	-1100.50	0.000000	0.00	0.000
5-13-P	92	130	38.01	4645.32	-61.06	-1100.50	0.000000	0.00	0.000
5-14-P	92	130	38.01	4645.32	-80.43	-1100.50	0.000000	0.00	0.000
5-15-P	92	130	38.01	4645.32	-129.22	-1100.50	0.000000	0.00	0.000
5-16-P	92	130	38.01	4645.32	-119.30	-1100.50	0.000000	0.00	0.000
5-17-P	92	130	38.01	4645.32	-70.25	-1100.50	0.000000	0.00	0.000
5-18-P	92	130	38.01	4645.32	-58.00	-1100.50	0.000000	0.00	0.000
5-19-P	92	130	38.01	4645.32	-50.30	-1100.50	0.000000	0.00	0.000
5-20-P	92	130	38.01	4645.32	-49.43	-1100.50	0.000000	0.00	0.000
5-21-P	93	130	38.01	4645.32	-49.85	-1100.50	0.000000	0.00	0.000
5-22-P	93	130	38.01	4645.32	-52.88	-1100.50	0.000000	0.00	0.000
5-23-P	93	130	38.01	4645.32	-65.00	-1100.50	0.000000	0.00	0.000
5-24-P	93	130	38.01	4645.32	-99.19	-1100.50	0.000000	0.00	0.000
5-25-P	93	130	38.01	4645.32	-148.11	-1100.50	0.000000	0.00	0.000
5-26-P	93	130	38.01	4645.32	-99.19	-1100.50	0.000000	0.00	0.000
5-27-P	93	130	38.01	4645.32	-65.00	-1100.50	0.000000	0.00	0.000
5-28-P	93	130	38.01	4645.32	-52.88	-1100.50	0.000000	0.00	0.000
5-29-P	93	130	38.01	4645.32	-49.85	-1100.50	0.000000	0.00	0.000
5-30-P	93	130	38.01	4645.32	-49.43	-1100.50	0.000000	0.00	0.000
5-31-P	93	130	38.01	4645.32	-50.30	-1100.50	0.000000	0.00	0.000
5-32-P	93	130	38.01	4645.32	-58.00	-1100.50	0.000000	0.00	0.000
5-33-P	93	130	38.01	4645.32	-70.25	-1100.50	0.000000	0.00	0.000
5-34-P	93	130	38.01	4645.32	-119.30	-1100.50	0.000000	0.00	0.000
5-35-P	93	130	38.01	4645.32	-129.22	-1100.50	0.000000	0.00	0.000
5-36-P	93	130	38.01	4645.32	-80.43	-1100.50	0.000000	0.00	0.000
5-37-P	93	130	38.01	4645.32	-61.06	-1100.50	0.000000	0.00	0.000
5-38-P	93	130	38.01	4645.32	-51.29	-1100.50	0.000000	0.00	0.000
5-39-P	93	130	38.01	4645.32	-50.52	-1100.50	0.000000	0.00	0.000
5-40-P	93	130	38.01	4645.32	-50.58	-1100.50	0.000000	0.00	0.000
5-41-P	93	130	38.01	4645.32	-51.19	-1100.50	0.000000	0.00	0.000
5-42-P	93	130	38.01	4645.32	-62.58	-1100.50	0.000000	0.00	0.000
5-43-P	93	130	38.01	4645.32	-88.23	-1100.50	0.000000	0.00	0.000
5-44-P	93	130	38.01	4645.32	-135.25	-1100.50	0.000000	0.00	0.000
5-45-P	93	130	38.01	4645.32	-102.15	-1100.50	0.000000	0.00	0.000
5-46-P	93	130	38.01	4645.32	-55.65	-1100.50	0.000000	0.00	0.000
5-47-P	93	130	38.01	4645.32	-35.74	-1100.50	0.000000	0.00	0.000
5-48-P	93	130	38.01	4645.32	-23.28	-1100.50	0.000000	0.00	0.000
5-49-P	93	130	38.01	4645.32	-16.48	-1100.50	0.000000	0.00	0.000
6-1-P	93	130	34.21	4695.69	-2.11	-1079.09	0.000000	0.00	0.000
6-2-P	93	130	34.21	4695.69	-8.35	-1079.09	0.000000	0.00	0.000
6-3-P	93	130	34.21	4695.69	-17.13	-1079.09	0.000000	0.00	0.000
6-4-P	93	130	34.21	4695.69	-29.68	-1079.09	0.000000	0.00	0.000
6-5-P	93	130	34.21	4695.69	-39.86	-1079.09	0.000000	0.00	0.000
6-6-P	93	130	34.21	4695.69	-46.22	-1079.09	0.000000	0.00	0.000
6-7-P	93	130	34.21	4695.69	-39.65	-1079.09	0.000000	0.00	0.000
6-8-P	93	130	34.21	4695.69	-31.03	-1079.09	0.000000	0.00	0.000
6-9-P	93	130	34.21	4695.69	-21.04	-1079.09	0.000000	0.00	0.000
6-10-P	93	130	34.21	4695.69	-16.39	-1079.09	0.000000	0.00	0.000
6-11-P	93	130	34.21	4695.69	-15.45	-1079.09	0.000000	0.00	0.000
6-12-P	93	130	34.21	4695.69	-20.10	-1079.09	0.000000	0.00	0.000
6-13-P	93	130	34.21	4695.69	-29.27	-1079.09	0.000000	0.00	0.000
6-14-P	93	130	34.21	4695.69	-39.01	-1079.09	0.000000	0.00	0.000
6-15-P	93	130	34.21	4695.69	-46.51	-1079.09	0.000000	0.00	0.000
6-16-P	93	130	34.21	4695.69	-44.74	-1079.09	0.000000	0.00	0.000
6-17-P	93	130	34.21	4695.69	-36.78	-1079.09	0.000000	0.00	0.000
6-18-P	93	130	34.21	4695.69	-26.10	-1079.09	0.000000	0.00	0.000
6-19-P	93	130	34.21	4695.69	-17.72	-1079.09	0.000000	0.00	0.000
6-20-P	93	130	34.21	4695.69	-12.82	-1079.09	0.000000	0.00	0.000
6-21-P	93	130	34.21	4695.69	-15.57	-1079.09	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	117 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
6-22-P	93	130	34.21	4695.69	-21.39	-1079.09	0.000000	0.00	0.000
6-23-P	93	130	34.21	4695.69	-31.84	-1079.09	0.000000	0.00	0.000
6-24-P	93	130	34.21	4695.69	-40.65	-1079.09	0.000000	0.00	0.000
6-25-P	93	130	34.21	4695.69	-48.37	-1079.09	0.000000	0.00	0.000
6-26-P	93	130	34.21	4695.69	-40.65	-1079.09	0.000000	0.00	0.000
6-27-P	93	130	34.21	4695.69	-31.84	-1079.09	0.000000	0.00	0.000
6-28-P	93	130	34.21	4695.69	-21.39	-1079.09	0.000000	0.00	0.000
6-29-P	93	130	34.21	4695.69	-15.57	-1079.09	0.000000	0.00	0.000
6-30-P	93	130	34.21	4695.69	-12.82	-1079.09	0.000000	0.00	0.000
6-31-P	93	130	34.21	4695.69	-17.72	-1079.09	0.000000	0.00	0.000
6-32-P	93	130	34.21	4695.69	-26.10	-1079.09	0.000000	0.00	0.000
6-33-P	93	130	34.21	4695.69	-36.78	-1079.09	0.000000	0.00	0.000
6-34-P	93	130	34.21	4695.69	-44.74	-1079.09	0.000000	0.00	0.000
6-35-P	93	130	34.21	4695.69	-46.51	-1079.09	0.000000	0.00	0.000
6-36-P	93	130	34.21	4695.69	-39.01	-1079.09	0.000000	0.00	0.000
6-37-P	93	130	34.21	4695.69	-29.27	-1079.09	0.000000	0.00	0.000
6-38-P	93	130	34.21	4695.69	-20.10	-1079.09	0.000000	0.00	0.000
6-39-P	93	130	34.21	4695.69	-15.45	-1079.09	0.000000	0.00	0.000
6-40-P	93	130	34.21	4695.69	-16.39	-1079.09	0.000000	0.00	0.000
6-41-P	93	130	34.21	4695.69	-21.04	-1079.09	0.000000	0.00	0.000
6-42-P	93	130	34.21	4695.69	-31.03	-1079.09	0.000000	0.00	0.000
6-43-P	93	130	34.21	4695.69	-39.65	-1079.09	0.000000	0.00	0.000
6-44-P	93	130	34.21	4695.69	-46.22	-1079.09	0.000000	0.00	0.000
6-45-P	93	130	34.21	4695.69	-39.86	-1079.09	0.000000	0.00	0.000
6-46-P	93	130	34.21	4695.69	-29.68	-1079.09	0.000000	0.00	0.000
6-47-P	93	130	34.21	4695.69	-17.13	-1079.09	0.000000	0.00	0.000
6-48-P	93	130	34.21	4695.69	-8.35	-1079.09	0.000000	0.00	0.000
6-49-P	93	130	34.21	4695.69	-2.11	-1079.09	0.000000	0.00	0.000
7-1-P	93	130	34.21	4695.69	4.46	-1079.09	0.000000	0.00	0.000
7-2-P	93	130	34.21	4695.69	-6.25	-1079.09	0.000000	0.00	0.000
7-3-P	93	130	34.21	4695.69	-12.59	-1079.09	0.000000	0.00	0.000
7-4-P	93	130	34.21	4695.69	-25.90	-1079.09	0.000000	0.00	0.000
7-5-P	93	130	34.21	4695.69	-26.10	-1079.09	0.000000	0.00	0.000
7-6-P	93	130	34.21	4695.69	-24.71	-1079.09	0.000000	0.00	0.000
7-7-P	93	130	34.21	4695.69	-19.75	-1079.09	0.000000	0.00	0.000
7-8-P	93	130	34.21	4695.69	-10.47	-1079.09	0.000000	0.00	0.000
7-9-P	93	130	34.21	4695.69	12.62	-1079.09	0.000000	0.00	0.000
7-10-P	93	130	34.21	4695.69	15.52	-1079.09	0.000000	0.00	0.000
7-11-P	93	130	34.21	4695.69	16.93	-1079.09	0.000000	0.00	0.000
7-12-P	93	130	34.21	4695.69	15.48	-1079.09	0.000000	0.00	0.000
7-13-P	93	130	34.21	4695.69	9.02	-1079.09	0.000000	0.00	0.000
7-14-P	93	130	34.21	4695.69	-17.63	-1079.09	0.000000	0.00	0.000
7-15-P	93	130	34.21	4695.69	-16.90	-1079.09	0.000000	0.00	0.000
7-16-P	93	130	34.21	4695.69	-15.75	-1079.09	0.000000	0.00	0.000
7-17-P	93	130	34.21	4695.69	-16.90	-1079.09	0.000000	0.00	0.000
7-18-P	93	130	34.21	4695.69	10.35	-1079.09	0.000000	0.00	0.000
7-19-P	93	130	34.21	4695.69	17.86	-1079.09	0.000000	0.00	0.000
7-20-P	93	130	34.21	4695.69	20.71	-1079.09	0.000000	0.00	0.000
7-21-P	93	130	34.21	4695.69	19.20	-1079.09	0.000000	0.00	0.000
7-22-P	93	130	34.21	4695.69	14.78	-1079.09	0.000000	0.00	0.000
7-23-P	93	130	34.21	4695.69	-10.83	-1079.09	0.000000	0.00	0.000
7-24-P	93	130	34.21	4695.69	-13.95	-1079.09	0.000000	0.00	0.000
7-25-P	93	130	34.21	4695.69	-16.89	-1079.09	0.000000	0.00	0.000
7-26-P	93	130	34.21	4695.69	-13.95	-1079.09	0.000000	0.00	0.000
7-27-P	93	130	34.21	4695.69	-10.83	-1079.09	0.000000	0.00	0.000
7-28-P	93	130	34.21	4695.69	14.78	-1079.09	0.000000	0.00	0.000
7-29-P	93	130	34.21	4695.69	19.20	-1079.09	0.000000	0.00	0.000
7-30-P	93	130	34.21	4695.69	20.71	-1079.09	0.000000	0.00	0.000
7-31-P	93	130	34.21	4695.69	17.86	-1079.09	0.000000	0.00	0.000
7-32-P	93	130	34.21	4695.69	10.35	-1079.09	0.000000	0.00	0.000
7-33-P	93	130	34.21	4695.69	-16.90	-1079.09	0.000000	0.00	0.000
7-34-P	93	130	34.21	4695.69	-15.75	-1079.09	0.000000	0.00	0.000
7-35-P	93	130	34.21	4695.69	-16.90	-1079.09	0.000000	0.00	0.000
7-36-P	93	130	34.21	4695.69	-17.63	-1079.09	0.000000	0.00	0.000
7-37-P	93	130	34.21	4695.69	9.02	-1079.09	0.000000	0.00	0.000
7-38-P	93	130	34.21	4695.69	15.48	-1079.09	0.000000	0.00	0.000
7-39-P	93	130	34.21	4695.69	16.93	-1079.09	0.000000	0.00	0.000
7-40-P	93	130	34.21	4695.69	15.52	-1079.09	0.000000	0.00	0.000
7-41-P	93	130	34.21	4695.69	12.62	-1079.09	0.000000	0.00	0.000
7-42-P	93	130	34.21	4695.69	-10.47	-1079.09	0.000000	0.00	0.000
7-43-P	93	130	34.21	4695.69	-19.75	-1079.09	0.000000	0.00	0.000
7-44-P	93	130	34.21	4695.69	-24.71	-1079.09	0.000000	0.00	0.000
7-45-P	93	130	34.21	4695.69	-26.10	-1079.09	0.000000	0.00	0.000
7-46-P	93	130	34.21	4695.69	-25.90	-1079.09	0.000000	0.00	0.000
7-47-P	93	130	34.21	4695.69	-12.59	-1079.09	0.000000	0.00	0.000
7-48-P	93	130	34.21	4695.69	-6.25	-1079.09	0.000000	0.00	0.000
7-49-P	93	130	34.21	4695.69	4.46	-1079.09	0.000000	0.00	0.000
8-1-P	92	130	38.01	4645.32	1.55	-1100.50	0.000000	0.00	0.000
8-2-P	92	130	38.01	4645.32	-5.24	-1100.50	0.000000	0.00	0.000
8-3-P	92	130	38.01	4645.32	-12.95	-1100.50	0.000000	0.00	0.000
8-4-P	92	130	38.01	4645.32	-25.48	-1100.50	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	118 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
8-5-P	92	130	38.01	4645.32	-49.71	-1100.50	0.000000	0.00	0.000
8-6-P	92	130	38.01	4645.32	-70.82	-1100.50	0.000000	0.00	0.000
8-7-P	92	130	38.01	4645.32	-30.03	-1100.50	0.000000	0.00	0.000
8-8-P	92	130	38.01	4645.32	-12.56	-1100.50	0.000000	0.00	0.000
8-9-P	92	130	38.01	4645.32	7.96	-1100.50	0.000000	0.00	0.000
8-10-P	92	130	38.01	1998.00	14.01	1100.50	0.000000	0.00	0.000
8-11-P	92	130	38.01	1998.00	16.23	1100.50	0.000000	0.00	0.000
8-12-P	92	130	38.01	4645.32	11.55	-1100.50	0.000000	0.00	0.000
8-13-P	92	130	38.01	4645.32	10.15	-1100.50	0.000000	0.00	0.000
8-14-P	92	130	38.01	4645.32	-19.63	-1100.50	0.000000	0.00	0.000
8-15-P	92	130	38.01	4645.32	-52.37	-1100.50	0.000000	0.00	0.000
8-16-P	92	130	38.01	4645.32	-43.98	-1100.50	0.000000	0.00	0.000
8-17-P	92	130	38.01	4645.32	-15.89	-1100.50	0.000000	0.00	0.000
8-18-P	92	130	38.01	4645.32	10.77	-1100.50	0.000000	0.00	0.000
8-19-P	92	130	38.01	1998.00	15.91	1100.50	0.000000	0.00	0.000
8-20-P	92	130	38.01	1998.00	21.85	1100.50	0.000000	0.00	0.000
8-21-P	92	130	38.01	1998.00	18.60	1100.50	0.000000	0.00	0.000
8-22-P	92	130	38.01	4645.32	12.32	-1100.50	0.000000	0.00	0.000
8-23-P	92	130	38.01	4645.32	11.98	-1100.50	0.000000	0.00	0.000
8-24-P	92	130	38.01	4645.32	-26.64	-1100.50	0.000000	0.00	0.000
8-25-P	92	130	38.01	4645.32	-66.07	-1100.50	0.000000	0.00	0.000
8-26-P	92	130	38.01	4645.32	-26.64	-1100.50	0.000000	0.00	0.000
8-27-P	92	130	38.01	4645.32	11.98	-1100.50	0.000000	0.00	0.000
8-28-P	92	130	38.01	4645.32	12.32	-1100.50	0.000000	0.00	0.000
8-29-P	92	130	38.01	1998.00	18.60	1100.50	0.000000	0.00	0.000
8-30-P	92	130	38.01	1998.00	21.85	1100.50	0.000000	0.00	0.000
8-31-P	92	130	38.01	1998.00	15.91	1100.50	0.000000	0.00	0.000
8-32-P	92	130	38.01	4645.32	10.77	-1100.50	0.000000	0.00	0.000
8-33-P	92	130	38.01	4645.32	-15.89	-1100.50	0.000000	0.00	0.000
8-34-P	92	130	38.01	4645.32	-43.98	-1100.50	0.000000	0.00	0.000
8-35-P	92	130	38.01	4645.32	-52.37	-1100.50	0.000000	0.00	0.000
8-36-P	92	130	38.01	4645.32	-19.63	-1100.50	0.000000	0.00	0.000
8-37-P	92	130	38.01	4645.32	10.15	-1100.50	0.000000	0.00	0.000
8-38-P	92	130	38.01	4645.32	11.55	-1100.50	0.000000	0.00	0.000
8-39-P	92	130	38.01	1998.00	16.23	1100.50	0.000000	0.00	0.000
8-40-P	92	130	38.01	1998.00	14.01	1100.50	0.000000	0.00	0.000
8-41-P	92	130	38.01	4645.32	7.96	-1100.50	0.000000	0.00	0.000
8-42-P	92	130	38.01	4645.32	-12.56	-1100.50	0.000000	0.00	0.000
8-43-P	92	130	38.01	4645.32	-30.03	-1100.50	0.000000	0.00	0.000
8-44-P	92	130	38.01	4645.32	-70.82	-1100.50	0.000000	0.00	0.000
8-45-P	92	130	38.01	4645.32	-49.71	-1100.50	0.000000	0.00	0.000
8-46-P	92	130	38.01	4645.32	-25.48	-1100.50	0.000000	0.00	0.000
8-47-P	92	130	38.01	4645.32	-12.95	-1100.50	0.000000	0.00	0.000
8-48-P	92	130	38.01	4645.32	-5.24	-1100.50	0.000000	0.00	0.000
8-49-P	92	130	38.01	4645.32	1.55	-1100.50	0.000000	0.00	0.000
9-1-S	100	130	38.01	5062.36	-9.56	-1172.37	0.000000	0.00	0.000
9-2-S	100	130	38.01	5062.36	-16.26	-1172.37	0.000000	0.00	0.000
9-3-S	100	130	38.01	5062.36	-21.55	-1172.37	0.000000	0.00	0.000
9-4-S	100	130	38.01	5062.36	-26.06	-1172.37	0.000000	0.00	0.000
9-5-S	100	130	38.01	5062.36	28.92	-1172.37	0.000000	0.00	0.000
9-6-S	100	130	38.01	5062.36	81.65	-1172.37	0.000000	0.00	0.000
9-7-S	100	130	38.01	2160.00	164.53	1172.37	0.000000	0.00	0.000
9-8-S	100	130	38.01	5062.36	-327.89	-1172.37	0.000000	0.00	0.000
9-9-S	100	130	38.01	5062.36	-295.02	-1172.37	0.000000	0.00	0.000
9-10-S	100	130	38.01	5062.36	-274.38	-1172.37	0.000000	0.00	0.000
9-11-S	100	130	38.01	5062.36	-229.82	-1172.37	0.000000	0.00	0.000
9-12-S	100	130	38.01	5062.36	-181.25	-1172.37	0.000000	0.00	0.000
9-13-S	100	130	38.01	5062.36	-126.53	-1172.37	0.000000	0.00	0.000
9-14-S	100	130	38.01	5062.36	-80.01	-1172.37	0.000000	0.00	0.000
9-15-S	100	130	38.01	5062.36	-38.24	-1172.37	0.000000	0.00	0.000
9-16-S	100	130	38.01	5062.36	-15.39	-1172.37	0.000000	0.00	0.000
9-17-S	100	130	38.01	5062.36	14.97	-1172.37	0.000000	0.00	0.000
9-18-S	100	130	38.01	5062.36	19.91	-1172.37	0.000000	0.00	0.000
9-19-S	100	130	38.01	5062.36	16.57	-1172.37	0.000000	0.00	0.000
9-20-S	100	130	38.01	5062.36	13.29	-1172.37	0.000000	0.00	0.000
9-21-S	100	130	38.01	5062.36	-7.84	-1172.37	0.000000	0.00	0.000
9-22-S	100	130	38.01	5062.36	5.69	-1172.37	0.000000	0.00	0.000
9-23-S	100	130	38.01	5062.36	5.88	-1172.37	0.000000	0.00	0.000
10-1-S	100	130	38.01	5062.36	15.71	-1172.37	0.000000	0.00	0.000
10-2-S	100	130	38.01	5062.36	29.16	-1172.37	0.000000	0.00	0.000
10-3-S	100	130	38.01	5062.36	-21.37	-1172.37	0.000000	0.00	0.000
10-4-S	100	130	38.01	5062.36	-111.86	-1172.37	0.000000	0.00	0.000
10-5-S	100	130	38.01	5062.36	-65.30	-1172.37	0.000000	0.00	0.000
10-6-S	100	130	38.01	5062.36	53.55	-1172.37	0.000000	0.00	0.000
10-7-S	100	130	38.01	2160.00	179.96	1172.37	0.000000	0.00	0.000
10-8-S	100	130	38.01	5062.36	-230.45	-1172.37	0.000000	0.00	0.000
10-9-S	100	130	38.01	5062.36	-220.45	-1172.37	0.000000	0.00	0.000
10-10-S	100	130	38.01	5062.36	-327.27	-1172.37	0.000000	0.00	0.000
10-11-S	100	130	38.01	5062.36	-275.96	-1172.37	0.000000	0.00	0.000
10-12-S	100	130	38.01	5062.36	-213.63	-1172.37	0.000000	0.00	0.000
10-13-S	100	130	38.01	5062.36	-139.11	-1172.37	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	119 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
10-14-S	100	130	38.01	5062.36	-81.41	-1172.37	0.000000	0.00	0.000
10-15-S	100	130	38.01	5062.36	-31.61	-1172.37	0.000000	0.00	0.000
10-16-S	100	130	38.01	5062.36	8.37	-1172.37	0.000000	0.00	0.000
10-17-S	100	130	38.01	5062.36	36.52	-1172.37	0.000000	0.00	0.000
10-18-S	100	130	38.01	5062.36	62.39	-1172.37	0.000000	0.00	0.000
10-19-S	100	130	38.01	5062.36	16.27	-1172.37	0.000000	0.00	0.000
10-20-S	100	130	38.01	5062.36	-44.04	-1172.37	0.000000	0.00	0.000
10-21-S	100	130	38.01	5062.36	-40.49	-1172.37	0.000000	0.00	0.000
10-22-S	100	130	38.01	5062.36	-26.82	-1172.37	0.000000	0.00	0.000
10-23-S	100	130	38.01	5062.36	-7.21	-1172.37	0.000000	0.00	0.000
11-1-S	100	130	38.01	5062.36	-12.26	-1172.37	0.000000	0.00	0.000
11-2-S	100	130	38.01	5062.36	-11.66	-1172.37	0.000000	0.00	0.000
11-3-S	100	130	38.01	5062.36	-5.65	-1172.37	0.000000	0.00	0.000
11-4-S	100	130	38.01	5062.36	17.38	-1172.37	0.000000	0.00	0.000
11-5-S	100	130	38.01	2160.00	56.82	1172.37	0.000000	0.00	0.000
11-6-S	100	130	38.01	2160.00	108.99	1172.37	0.000000	0.00	0.000
11-7-S	100	130	38.01	2160.00	171.10	1172.37	0.000000	0.00	0.000
11-8-S	100	130	38.01	5062.36	-360.05	-1172.37	0.000000	0.00	0.000
11-9-S	100	130	38.01	5062.36	-303.37	-1172.37	0.000000	0.00	0.000
11-10-S	100	130	38.01	5062.36	-260.75	-1172.37	0.000000	0.00	0.000
11-11-S	100	130	38.01	5062.36	-215.23	-1172.37	0.000000	0.00	0.000
11-12-S	100	130	38.01	5062.36	-168.93	-1172.37	0.000000	0.00	0.000
11-13-S	100	130	38.01	5062.36	-121.32	-1172.37	0.000000	0.00	0.000
11-14-S	100	130	38.01	5062.36	-79.62	-1172.37	0.000000	0.00	0.000
11-15-S	100	130	38.01	5062.36	-41.82	-1172.37	0.000000	0.00	0.000
11-16-S	100	130	38.01	5062.36	-18.45	-1172.37	0.000000	0.00	0.000
11-17-S	100	130	38.01	5062.36	-3.86	-1172.37	0.000000	0.00	0.000
11-18-S	100	130	38.01	5062.36	10.05	-1172.37	0.000000	0.00	0.000
11-19-S	100	130	38.01	5062.36	11.97	-1172.37	0.000000	0.00	0.000
11-20-S	100	130	38.01	5062.36	11.73	-1172.37	0.000000	0.00	0.000
11-21-S	100	130	38.01	5062.36	8.61	-1172.37	0.000000	0.00	0.000
11-22-S	100	130	38.01	5062.36	5.77	-1172.37	0.000000	0.00	0.000
11-23-S	100	130	38.01	5062.36	3.39	-1172.37	0.000000	0.00	0.000
12-1-S	100	130	38.01	5062.36	19.45	-1172.37	0.000000	0.00	0.000
12-2-S	100	130	38.01	5062.36	31.33	-1172.37	0.000000	0.00	0.000
12-3-S	100	130	38.01	5062.36	-24.28	-1172.37	0.000000	0.00	0.000
12-4-S	100	130	38.01	5062.36	-127.68	-1172.37	0.000000	0.00	0.000
12-5-S	100	130	38.01	5062.36	-71.51	-1172.37	0.000000	0.00	0.000
12-6-S	100	130	38.01	5062.36	45.74	-1172.37	0.000000	0.00	0.000
12-7-S	100	130	38.01	2160.00	180.71	1172.37	0.000000	0.00	0.000
12-8-S	100	130	38.01	5062.36	-201.05	-1172.37	0.000000	0.00	0.000
12-9-S	100	130	38.01	5062.36	-204.65	-1172.37	0.000000	0.00	0.000
12-10-S	100	130	38.01	5062.36	-333.21	-1172.37	0.000000	0.00	0.000
12-11-S	100	130	38.01	5062.36	-282.04	-1172.37	0.000000	0.00	0.000
12-12-S	100	130	38.01	5062.36	-218.14	-1172.37	0.000000	0.00	0.000
12-13-S	100	130	38.01	5062.36	-140.01	-1172.37	0.000000	0.00	0.000
12-14-S	100	130	38.01	5062.36	-80.36	-1172.37	0.000000	0.00	0.000
12-15-S	100	130	38.01	5062.36	-29.13	-1172.37	0.000000	0.00	0.000
12-16-S	100	130	38.01	5062.36	11.26	-1172.37	0.000000	0.00	0.000
12-17-S	100	130	38.01	5062.36	42.50	-1172.37	0.000000	0.00	0.000
12-18-S	100	130	38.01	5062.36	70.08	-1172.37	0.000000	0.00	0.000
12-19-S	100	130	38.01	5062.36	18.51	-1172.37	0.000000	0.00	0.000
12-20-S	100	130	38.01	5062.36	-51.12	-1172.37	0.000000	0.00	0.000
12-21-S	100	130	38.01	5062.36	-45.71	-1172.37	0.000000	0.00	0.000
12-22-S	100	130	38.01	5062.36	-30.15	-1172.37	0.000000	0.00	0.000
12-23-S	100	130	38.01	5062.36	-8.23	-1172.37	0.000000	0.00	0.000
13-1-S	100	130	38.01	5062.36	-10.98	-1172.37	0.000000	0.00	0.000
13-2-S	100	130	38.01	5062.36	-16.03	-1172.37	0.000000	0.00	0.000
13-3-S	100	130	38.01	5062.36	-14.24	-1172.37	0.000000	0.00	0.000
13-4-S	100	130	38.01	5062.36	15.57	-1172.37	0.000000	0.00	0.000
13-5-S	100	130	38.01	2160.00	47.98	1172.37	0.000000	0.00	0.000
13-6-S	100	130	38.01	2160.00	102.06	1172.37	0.000000	0.00	0.000
13-7-S	100	130	38.01	2160.00	170.41	1172.37	0.000000	0.00	0.000
13-8-S	100	130	38.01	5062.36	-344.92	-1172.37	0.000000	0.00	0.000
13-9-S	100	130	38.01	5062.36	-303.76	-1172.37	0.000000	0.00	0.000
13-10-S	100	130	38.01	5062.36	-260.55	-1172.37	0.000000	0.00	0.000
13-11-S	100	130	38.01	5062.36	-216.31	-1172.37	0.000000	0.00	0.000
13-12-S	100	130	38.01	5062.36	-170.34	-1172.37	0.000000	0.00	0.000
13-13-S	100	130	38.01	5062.36	-121.21	-1172.37	0.000000	0.00	0.000
13-14-S	100	130	38.01	5062.36	-78.36	-1172.37	0.000000	0.00	0.000
13-15-S	100	130	38.01	5062.36	-39.53	-1172.37	0.000000	0.00	0.000
13-16-S	100	130	38.01	5062.36	-15.36	-1172.37	0.000000	0.00	0.000
13-17-S	100	130	38.01	5062.36	4.74	-1172.37	0.000000	0.00	0.000
13-18-S	100	130	38.01	5062.36	10.61	-1172.37	0.000000	0.00	0.000
13-19-S	100	130	38.01	5062.36	13.45	-1172.37	0.000000	0.00	0.000
13-20-S	100	130	38.01	5062.36	13.86	-1172.37	0.000000	0.00	0.000
13-21-S	100	130	38.01	5062.36	9.31	-1172.37	0.000000	0.00	0.000
13-22-S	100	130	38.01	5062.36	6.19	-1172.37	0.000000	0.00	0.000
13-23-S	100	130	38.01	5062.36	4.06	-1172.37	0.000000	0.00	0.000
14-1-S	100	130	41.81	5012.90	11.00	-1193.79	0.000000	0.00	0.000
14-2-S	100	130	41.81	5012.90	-17.64	-1193.79	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.
Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	120 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
14-3-S	100	130	41.81	5012.90	-22.05	-1193.79	0.000000	0.00	0.000
14-4-S	100	130	41.81	5012.90	-68.36	-1193.79	0.000000	0.00	0.000
14-5-S	100	130	41.81	5012.90	-36.32	-1193.79	0.000000	0.00	0.000
14-6-S	100	130	41.81	5012.90	71.32	-1193.79	0.000000	0.00	0.000
14-7-S	100	130	41.81	2160.00	175.89	1193.79	0.000000	0.00	0.000
14-8-S	100	130	41.81	5012.90	-270.50	-1193.79	0.000000	0.00	0.000
14-9-S	100	130	41.81	5012.90	-253.38	-1193.79	0.000000	0.00	0.000
14-10-S	100	130	41.81	5012.90	-296.70	-1193.79	0.000000	0.00	0.000
14-11-S	100	130	41.81	5012.90	-249.51	-1193.79	0.000000	0.00	0.000
14-12-S	100	130	41.81	5012.90	-194.69	-1193.79	0.000000	0.00	0.000
14-13-S	100	130	41.81	5012.90	-130.49	-1193.79	0.000000	0.00	0.000
14-14-S	100	130	41.81	5012.90	-78.70	-1193.79	0.000000	0.00	0.000
14-15-S	100	130	41.81	5012.90	-33.23	-1193.79	0.000000	0.00	0.000
14-16-S	100	130	41.81	5012.90	-8.22	-1193.79	0.000000	0.00	0.000
14-17-S	100	130	41.81	5012.90	24.73	-1193.79	0.000000	0.00	0.000
14-18-S	100	130	41.81	5012.90	40.55	-1193.79	0.000000	0.00	0.000
14-19-S	100	130	41.81	5012.90	16.08	-1193.79	0.000000	0.00	0.000
14-20-S	100	130	41.81	5012.90	-27.82	-1193.79	0.000000	0.00	0.000
14-21-S	100	130	41.81	5012.90	-24.06	-1193.79	0.000000	0.00	0.000
14-22-S	100	130	41.81	5012.90	-15.72	-1193.79	0.000000	0.00	0.000
14-23-S	100	130	41.81	5012.90	-4.56	-1193.79	0.000000	0.00	0.000
15-1-S	100	130	38.01	5062.36	11.00	-1172.37	0.000000	0.00	0.000
15-2-S	100	130	38.01	5062.36	-17.64	-1172.37	0.000000	0.00	0.000
15-3-S	100	130	38.01	5062.36	-22.05	-1172.37	0.000000	0.00	0.000
15-4-S	100	130	38.01	5062.36	-68.36	-1172.37	0.000000	0.00	0.000
15-5-S	100	130	38.01	5062.36	-36.32	-1172.37	0.000000	0.00	0.000
15-6-S	100	130	38.01	5062.36	71.32	-1172.37	0.000000	0.00	0.000
15-7-S	100	130	38.01	2160.00	175.89	1172.37	0.000000	0.00	0.000
15-8-S	100	130	38.01	5062.36	-270.50	-1172.37	0.000000	0.00	0.000
15-9-S	100	130	38.01	5062.36	-253.38	-1172.37	0.000000	0.00	0.000
15-10-S	100	130	38.01	5062.36	-296.70	-1172.37	0.000000	0.00	0.000
15-11-S	100	130	38.01	5062.36	-249.51	-1172.37	0.000000	0.00	0.000
15-12-S	100	130	38.01	5062.36	-194.69	-1172.37	0.000000	0.00	0.000
15-13-S	100	130	38.01	5062.36	-130.49	-1172.37	0.000000	0.00	0.000
15-14-S	100	130	38.01	5062.36	-78.70	-1172.37	0.000000	0.00	0.000
15-15-S	100	130	38.01	5062.36	-33.23	-1172.37	0.000000	0.00	0.000
15-16-S	100	130	38.01	5062.36	-8.22	-1172.37	0.000000	0.00	0.000
15-17-S	100	130	38.01	5062.36	24.73	-1172.37	0.000000	0.00	0.000
15-18-S	100	130	38.01	5062.36	40.55	-1172.37	0.000000	0.00	0.000
15-19-S	100	130	38.01	5062.36	16.08	-1172.37	0.000000	0.00	0.000
15-20-S	100	130	38.01	5062.36	-27.82	-1172.37	0.000000	0.00	0.000
15-21-S	100	130	38.01	5062.36	-24.06	-1172.37	0.000000	0.00	0.000
15-22-S	100	130	38.01	5062.36	-15.72	-1172.37	0.000000	0.00	0.000
15-23-S	100	130	38.01	5062.36	-4.56	-1172.37	0.000000	0.00	0.000
16-1-S	100	130	38.01	5062.36	-10.98	-1172.37	0.000000	0.00	0.000
16-2-S	100	130	38.01	5062.36	-16.03	-1172.37	0.000000	0.00	0.000
16-3-S	100	130	38.01	5062.36	-14.24	-1172.37	0.000000	0.00	0.000
16-4-S	100	130	38.01	5062.36	15.57	-1172.37	0.000000	0.00	0.000
16-5-S	100	130	38.01	2160.00	47.98	1172.37	0.000000	0.00	0.000
16-6-S	100	130	38.01	2160.00	102.06	1172.37	0.000000	0.00	0.000
16-7-S	100	130	38.01	2160.00	170.41	1172.37	0.000000	0.00	0.000
16-8-S	100	130	38.01	5062.36	-344.92	-1172.37	0.000000	0.00	0.000
16-9-S	100	130	38.01	5062.36	-303.76	-1172.37	0.000000	0.00	0.000
16-10-S	100	130	38.01	5062.36	-260.55	-1172.37	0.000000	0.00	0.000
16-11-S	100	130	38.01	5062.36	-216.31	-1172.37	0.000000	0.00	0.000
16-12-S	100	130	38.01	5062.36	-170.34	-1172.37	0.000000	0.00	0.000
16-13-S	100	130	38.01	5062.36	-121.21	-1172.37	0.000000	0.00	0.000
16-14-S	100	130	38.01	5062.36	-78.36	-1172.37	0.000000	0.00	0.000
16-15-S	100	130	38.01	5062.36	-39.53	-1172.37	0.000000	0.00	0.000
16-16-S	100	130	38.01	5062.36	-15.36	-1172.37	0.000000	0.00	0.000
16-17-S	100	130	38.01	5062.36	4.74	-1172.37	0.000000	0.00	0.000
16-18-S	100	130	38.01	5062.36	10.61	-1172.37	0.000000	0.00	0.000
16-19-S	100	130	38.01	5062.36	13.45	-1172.37	0.000000	0.00	0.000
16-20-S	100	130	38.01	5062.36	13.86	-1172.37	0.000000	0.00	0.000
16-21-S	100	130	38.01	5062.36	9.31	-1172.37	0.000000	0.00	0.000
16-22-S	100	130	38.01	5062.36	6.19	-1172.37	0.000000	0.00	0.000
16-23-S	100	130	38.01	5062.36	4.06	-1172.37	0.000000	0.00	0.000
17-1-S	100	130	38.01	5062.36	19.45	-1172.37	0.000000	0.00	0.000
17-2-S	100	130	38.01	5062.36	31.33	-1172.37	0.000000	0.00	0.000
17-3-S	100	130	38.01	5062.36	-24.28	-1172.37	0.000000	0.00	0.000
17-4-S	100	130	38.01	5062.36	-127.68	-1172.37	0.000000	0.00	0.000
17-5-S	100	130	38.01	5062.36	-71.51	-1172.37	0.000000	0.00	0.000
17-6-S	100	130	38.01	5062.36	45.74	-1172.37	0.000000	0.00	0.000
17-7-S	100	130	38.01	2160.00	180.71	1172.37	0.000000	0.00	0.000
17-8-S	100	130	38.01	5062.36	-201.05	-1172.37	0.000000	0.00	0.000
17-9-S	100	130	38.01	5062.36	-204.65	-1172.37	0.000000	0.00	0.000
17-10-S	100	130	38.01	5062.36	-333.21	-1172.37	0.000000	0.00	0.000
17-11-S	100	130	38.01	5062.36	-282.04	-1172.37	0.000000	0.00	0.000
17-12-S	100	130	38.01	5062.36	-218.14	-1172.37	0.000000	0.00	0.000
17-13-S	100	130	38.01	5062.36	-140.01	-1172.37	0.000000	0.00	0.000
17-14-S	100	130	38.01	5062.36	-80.36	-1172.37	0.000000	0.00	0.000

APPALTATORE:

TELESE S.c.a r.l.

Consorzio Telese Società Consortile a Responsabilità Limitata

ITINERARIO NAPOLI – BARI
RADDOPPIO TRATTA CANCELLO-BENEVENTO
II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO
2° SUBLOTTO TELESE – SAN LORENZO

PROGETTAZIONE:

Mandataria:

Mandante:

SYSTRA S.A. SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.

PROGETTO ESECUTIVO

Relazione di calcolo

IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	121 di 123

Is	B [cm]	H [cm]	Af [cmq]	Aeff [cmq]	M [kNm]	Mpf [kNm]	ε [%]	Sm [mm]	w [mm]
17-15-S	100	130	38.01	5062.36	-29.13	-1172.37	0.000000	0.00	0.000
17-16-S	100	130	38.01	5062.36	11.26	-1172.37	0.000000	0.00	0.000
17-17-S	100	130	38.01	5062.36	42.50	-1172.37	0.000000	0.00	0.000
17-18-S	100	130	38.01	5062.36	70.08	-1172.37	0.000000	0.00	0.000
17-19-S	100	130	38.01	5062.36	18.51	-1172.37	0.000000	0.00	0.000
17-20-S	100	130	38.01	5062.36	-51.12	-1172.37	0.000000	0.00	0.000
17-21-S	100	130	38.01	5062.36	-45.71	-1172.37	0.000000	0.00	0.000
17-22-S	100	130	38.01	5062.36	-30.15	-1172.37	0.000000	0.00	0.000
17-23-S	100	130	38.01	5062.36	-8.23	-1172.37	0.000000	0.00	0.000
18-1-S	100	130	38.01	5062.36	-12.26	-1172.37	0.000000	0.00	0.000
18-2-S	100	130	38.01	5062.36	-11.66	-1172.37	0.000000	0.00	0.000
18-3-S	100	130	38.01	5062.36	-5.65	-1172.37	0.000000	0.00	0.000
18-4-S	100	130	38.01	5062.36	17.38	-1172.37	0.000000	0.00	0.000
18-5-S	100	130	38.01	2160.00	56.82	1172.37	0.000000	0.00	0.000
18-6-S	100	130	38.01	2160.00	108.99	1172.37	0.000000	0.00	0.000
18-7-S	100	130	38.01	2160.00	171.10	1172.37	0.000000	0.00	0.000
18-8-S	100	130	38.01	5062.36	-360.05	-1172.37	0.000000	0.00	0.000
18-9-S	100	130	38.01	5062.36	-303.37	-1172.37	0.000000	0.00	0.000
18-10-S	100	130	38.01	5062.36	-260.75	-1172.37	0.000000	0.00	0.000
18-11-S	100	130	38.01	5062.36	-215.23	-1172.37	0.000000	0.00	0.000
18-12-S	100	130	38.01	5062.36	-168.93	-1172.37	0.000000	0.00	0.000
18-13-S	100	130	38.01	5062.36	-121.32	-1172.37	0.000000	0.00	0.000
18-14-S	100	130	38.01	5062.36	-79.62	-1172.37	0.000000	0.00	0.000
18-15-S	100	130	38.01	5062.36	-41.82	-1172.37	0.000000	0.00	0.000
18-16-S	100	130	38.01	5062.36	-18.45	-1172.37	0.000000	0.00	0.000
18-17-S	100	130	38.01	5062.36	-3.86	-1172.37	0.000000	0.00	0.000
18-18-S	100	130	38.01	5062.36	10.05	-1172.37	0.000000	0.00	0.000
18-19-S	100	130	38.01	5062.36	11.97	-1172.37	0.000000	0.00	0.000
18-20-S	100	130	38.01	5062.36	11.73	-1172.37	0.000000	0.00	0.000
18-21-S	100	130	38.01	5062.36	8.61	-1172.37	0.000000	0.00	0.000
18-22-S	100	130	38.01	5062.36	5.77	-1172.37	0.000000	0.00	0.000
18-23-S	100	130	38.01	5062.36	3.39	-1172.37	0.000000	0.00	0.000
19-1-S	100	130	38.01	5062.36	15.71	-1172.37	0.000000	0.00	0.000
19-2-S	100	130	38.01	5062.36	29.16	-1172.37	0.000000	0.00	0.000
19-3-S	100	130	38.01	5062.36	-21.37	-1172.37	0.000000	0.00	0.000
19-4-S	100	130	38.01	5062.36	-111.86	-1172.37	0.000000	0.00	0.000
19-5-S	100	130	38.01	5062.36	-65.30	-1172.37	0.000000	0.00	0.000
19-6-S	100	130	38.01	5062.36	53.55	-1172.37	0.000000	0.00	0.000
19-7-S	100	130	38.01	2160.00	179.96	1172.37	0.000000	0.00	0.000
19-8-S	100	130	38.01	5062.36	-230.45	-1172.37	0.000000	0.00	0.000
19-9-S	100	130	38.01	5062.36	-220.45	-1172.37	0.000000	0.00	0.000
19-10-S	100	130	38.01	5062.36	-327.27	-1172.37	0.000000	0.00	0.000
19-11-S	100	130	38.01	5062.36	-275.96	-1172.37	0.000000	0.00	0.000
19-12-S	100	130	38.01	5062.36	-213.63	-1172.37	0.000000	0.00	0.000
19-13-S	100	130	38.01	5062.36	-139.11	-1172.37	0.000000	0.00	0.000
19-14-S	100	130	38.01	5062.36	-81.41	-1172.37	0.000000	0.00	0.000
19-15-S	100	130	38.01	5062.36	-31.61	-1172.37	0.000000	0.00	0.000
19-16-S	100	130	38.01	5062.36	8.37	-1172.37	0.000000	0.00	0.000
19-17-S	100	130	38.01	5062.36	36.52	-1172.37	0.000000	0.00	0.000
19-18-S	100	130	38.01	5062.36	62.39	-1172.37	0.000000	0.00	0.000
19-19-S	100	130	38.01	5062.36	16.27	-1172.37	0.000000	0.00	0.000
19-20-S	100	130	38.01	5062.36	-44.04	-1172.37	0.000000	0.00	0.000
19-21-S	100	130	38.01	5062.36	-40.49	-1172.37	0.000000	0.00	0.000
19-22-S	100	130	38.01	5062.36	-26.82	-1172.37	0.000000	0.00	0.000
19-23-S	100	130	38.01	5062.36	-7.21	-1172.37	0.000000	0.00	0.000
20-1-S	100	130	38.01	5062.36	-9.56	-1172.37	0.000000	0.00	0.000
20-2-S	100	130	38.01	5062.36	-16.26	-1172.37	0.000000	0.00	0.000
20-3-S	100	130	38.01	5062.36	-21.55	-1172.37	0.000000	0.00	0.000
20-4-S	100	130	38.01	5062.36	-26.06	-1172.37	0.000000	0.00	0.000
20-5-S	100	130	38.01	5062.36	28.92	-1172.37	0.000000	0.00	0.000
20-6-S	100	130	38.01	5062.36	81.65	-1172.37	0.000000	0.00	0.000
20-7-S	100	130	38.01	2160.00	164.53	1172.37	0.000000	0.00	0.000
20-8-S	100	130	38.01	5062.36	-327.89	-1172.37	0.000000	0.00	0.000
20-9-S	100	130	38.01	5062.36	-295.02	-1172.37	0.000000	0.00	0.000
20-10-S	100	130	38.01	5062.36	-274.38	-1172.37	0.000000	0.00	0.000
20-11-S	100	130	38.01	5062.36	-229.82	-1172.37	0.000000	0.00	0.000
20-12-S	100	130	38.01	5062.36	-181.25	-1172.37	0.000000	0.00	0.000
20-13-S	100	130	38.01	5062.36	-126.53	-1172.37	0.000000	0.00	0.000
20-14-S	100	130	38.01	5062.36	-80.01	-1172.37	0.000000	0.00	0.000
20-15-S	100	130	38.01	5062.36	-38.24	-1172.37	0.000000	0.00	0.000
20-16-S	100	130	38.01	5062.36	-15.39	-1172.37	0.000000	0.00	0.000
20-17-S	100	130	38.01	5062.36	14.97	-1172.37	0.000000	0.00	0.000
20-18-S	100	130	38.01	5062.36	19.91	-1172.37	0.000000	0.00	0.000
20-19-S	100	130	38.01	5062.36	16.57	-1172.37	0.000000	0.00	0.000
20-20-S	100	130	38.01	5062.36	13.29	-1172.37	0.000000	0.00	0.000
20-21-S	100	130	38.01	5062.36	-7.84	-1172.37	0.000000	0.00	0.000
20-22-S	100	130	38.01	5062.36	5.69	-1172.37	0.000000	0.00	0.000
20-23-S	100	130	38.01	5062.36	5.88	-1172.37	0.000000	0.00	0.000

APPALTATORE: TELESE S.c.a r.l. <i>Consorzio Telese Società Consortile a Responsabilità Limitata</i>	ITINERARIO NAPOLI – BARI RADDOPPIO TRATTA CANCELLO-BENEVENTO II LOTTO FUNZIONALE FRASSO TELESINO – VITULANO 2° SUBLOTTO TELESE – SAN LORENZO PROGETTO ESECUTIVO					
PROGETTAZIONE: <u>Mandatario:</u> SYSTRA S.A. <u>Mandante:</u> SWS Engineering S.p.A. SYSTRA-SOTECNI S.p.A.	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
Relazione di calcolo IF2R.2.2.E.ZZ.CL.TR.16.0.5.003.A.DOCX	IF2R	2.2.E.ZZ	CL	TR.16.0.5.003	A	122 di 123

Pali in c.a.

Apertura limite fessure $w_{lim}=0.200$ mm

Ip	Is	Af [cmq]	Aeff [cmq]	Mpf [kNm]	M [kNm]	N [kN]	ε [%]	Sm [mm]	wm [mm]
1	1	58.81	3578.11	237.44	-487.54	-38.43	0.040295	287.55	0.20
2	1	49.76	2930.13	295.72	-487.54	792.91	0.025525	282.54	0.12
3	1	40.72	2327.19	353.98	-487.54	1624.26	0.000000	0.00	0.00