

COMMITTENTE:



DIREZIONE INVESTIMENTI
DIREZIONE PROGRAMMI INVESTIMENTI
DIRETTRICE SUD - PROGETTO ADRIATICA

PROGETTAZIONE:



DIREZIONE TECNICA
U.O. STRUTTURE

PROGETTO DEFINITIVO

LINEA PESCARA - BARI
RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA
Infrastrutture strategiche legge n. 443/2001)

Lotto 1: Ripalta- Lesina

VIADOTTO RIPALTA

RELAZIONE DI CALCOLO OPERE PROVVISORIALI

SCALA:

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

L I 0 0 **0 1** **D** **0 9** **CL** **V I 0 1 0 0** **0 0 4** **A**

Revis.	Descrizione	Redatto	Data	Verificato	Data	Approvato	Data	Autorizzato/Data
A	EMISSIONE ESECUTIVA	G. GRIMALDI <i>hg</i>	06/2016	P. DINUCCI <i>[Signature]</i>	06/2016	F. GERNONE <i>[Signature]</i>	06/2016	A. VITTOZZI <i>[Signature]</i> 06/2016

ITALFERR S.p.A.
 U.O. STRUTTURE
 Dott. Ing. ADEL VITTOZZI
 Ordine degli Ingegneri della Provincia di Roma
 n° A2/763

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RELAZIONE DI CALCOLO

1 PREMESSA

Oggetto del presente documento è il dimensionamento delle opere provvisionali a sostegno dello scavo per la realizzazione del plinto di fondazione delle pile dalla 34 alla 38 comprese, presenti nel progetto definitivo del raddoppio della tratta Termoli – Lesina, linea ferroviaria Pescara – Bari.

 ITALFERR GRUPPO FERROVIE DELLO STATO ITALIANE	LINEA PESCARA – BARI RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA: Lotto 1: Ripalta - Lesina PROGETTO DEFINITIVO					
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2 **NORMATIVA DI RIFERIMENTO**

I calcoli sono svolti in ottemperanza alla Normativa vigente:

- NTC 2008 – D.M. Infrastrutture 14 gennaio 2008.
- Circolare del 02.02.2009 n. 617: Istruzioni per l'applicazione delle "Nuove norme tecniche per le costruzioni" di cui al DM 14.01.2008.
- RFI DTC INC CS LG IFS 001 A 29122011 Linee guida per il collaudo statico delle opere in terra. Emissione per applicazione del 21/12/2011
- RFI DTC INC CS SP IFS 001 A 29122011 Specifica per la progettazione geotecnica delle opere civili ferroviarie. Emissione per applicazione del 21/12/2011
- RFI DTC INC PO SP IFS 001 A 27122011 Specifica per la progettazione e l'esecuzione dei ponti ferroviari e di altre opere minori sotto binario. Emissione per applicazione del 21/12/2011
- RFI DTC INC PO SP IFS 002 A 27122011 Specifica per la progettazione e l'esecuzione di cavalcavia e passerelle pedonali sulla sede ferroviaria. Emissione per applicazione del 21/12/2011
- RFI DTC INC PO SP IFS 003 A 27122011 Specifica per la verifica a fatica dei ponti ferroviari. Emissione per applicazione del 21/12/2011
- RFI DTC INC PO SP IFS 004 A 28122011 Specifica per la progettazione e l'esecuzione di impalcati ferroviari a travi in ferro a doppio T incorporate nel calcestruzzo. Emissione per applicazione del 21/12/2011
- RFI DTC INC PO SP IFS 005 A 28122011 Specifica per il progetto, la produzione, il controllo della produzione e la posa in opera dei dispositivi di vincolo e dei coprigiunti degli impalcati ferroviari e dei cavalcavia. Emissione per applicazione del 21/12/2011

Nella redazione dei progetti e nelle verifiche strutturali si è inoltre fatto riferimento alla normativa Europea di seguito specificata:

- UNI EN 1992-1-1: EUROCODICE 2 - Progettazione delle strutture di calcestruzzo - Parte 1-1: Regole generali e regole per gli edifici.



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

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- EC8 – Strutture in zone sismiche – parte 1 (generale ed edifici) e parte 2 (ponti).
- STI 2014 - REGOLAMENTO (UE) n. 1299/2014 della commissione del 18 novembre 2014 relativo alle specifiche tecniche di interoperabilità per il sottosistema “infrastruttura” del sistema ferroviario dell’Unione europea.

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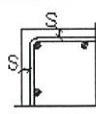
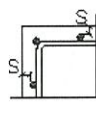
3 CARATTERISTICHE DEI MATERIALI

Si riporta nel seguito la tabella dei materiali utilizzati:

TABELLA MATERIALI							
CALCESTRUZZO							
Tipo Calcestruzzo	Rapporto q/c max (UNI EN 208)	Classe di lavorabilità	Tipo di cemento	Classe di resistenza minima C(fck/Rck) _{min}	Classe di esposizione ambientale (UNI EN 206)	Dmax inerti (mm)	Campi di Impiego
A	1	0.45	S4-S5	CEM I+V	C45/55	XC3	- Impalcati ed Elementi in c.a.p. prefabbricati
B	1	0.45	S4-S5	CEM I+V	C35/45	XC3	- Elementi prefabbricati in c.a. per strutture fuori terra
	1	0.45	S4-S5	CEM I+V	C35/45	XC3	- Predalles con funzioni strutturali
	3	0.50	S4-S5	CEM III+V	C30/37	XC4	- Vele prefabbricate
	3	0.55	S4-S5	CEM III+V	C30/37	XC3	- Predalles senza funzioni strutturali
	3	0.55	S3-S4	CEM III+V	C30/37	XA1	- Canalette portacavi ed altri elementi prefabbricati senza funzioni strutturali
C	1	0.50	S4-S5	CEM I+V	C30/37	XC4	- Impalcati in c.a. ordinari - Solette in c.a. gettate in opera in elevazione
	2	0.50	S3-S4	CEM I+V	C30/37	XC4	- Pile e spalle - Bagnoli e pulvini - Strutture in c.a. in elevazione
E		0.55	S3-S4	CEM III+V	C30/37	XA1	- Tombini a struttura scatolare e circolare
G	1	0.50	S3-S4	CEM III+V	C30/37	XC4	- Muri di controripa/sottoscarpa
	2	0.60	S3-S4	CEM III+V	C25/30	XC2	- Solette di fondazione - Fondazioni armate
	2	0.50	S3-S4	CEM III+V	C30/37	XC4	- Cordoli di fondazione barriera antirumore
	3	0.60	S3-S4	CEM III+V	C25/30	XC2	- Fondazioni non armate (pazzi, sottopinti, ecc...)
	4	0.60	S3-S4	CEM III+V	C25/30	XC2	- Cunette, canaletta e cordoli
H	1	0.80	S4-S5	CEM III+V	C25/30	XC2	- Pali (di paratia o opera di scabbagno), diaframmi e relativi cordoli di collegamento gettati in opera
	2	0.60	S4-S5	CEM III+V	C25/30	XC2	- Pali/diaframmi di fondazione gettati in opera
I	--	--	CEM I+V	C12/15	X0	--	- Magrone di riempimento e livellamento
ACCIAIO							
ACCIAIO IN BARRE PER GETTI E RETI ELETTROSALDATE						B450C f _{yk} ≥ 450Mpa f _{tk} ≥ 540Mpa 1.15 ≤ f _{tk} /f _{yk} < 1.35 f _{yk} = tensione caratteristica di snervamento f _{tk} = tensione caratteristica di rottura	
ACCIAIO ARMONICO DI TIPO STABILIZZATO PER TRAVI E TRAVERSI						Trefoli Ø0,6" f _{ptk} 1880 MPa - f _{p(1)k} 1670 MPa a trave	
ACCIAIO PER CARPENTERIA METALLICA STRUTTURE PRINCIPALI						S355J2 (ex FE 510 D1)	
ACCIAIO PER CARPENTERIA METALLICA STRUTTURE SECONDARIE						S275JR (ex FE 430 B)	
BULLONI PER UNIONI A TAGLIO						VITE Classe 8.8; DADO Classe 8	
BULLONI PER UNIONI AD ATTRITO						VITE Classe 10.9; DADO Classe 10	
ACCIAIO PER ARMATURA MICROPALI						S275JR (ex FE 430 B)	
SALDATURE						In accordo con istruzione FS 44/S	
PIOLI						Acciaio S235 J2G3 + C450 f _u /f _y ≥ 1.2 f _y ≥ 350 Mpa f _u ≥ 450 Mpa Allungamento ≥ 12% Strizione ≥ 50% Composizione Chimica C ≤ 0.18; Mn ≤ 0.9; S ≤ 0.04; P ≤ 0.05	

PRESCRIZIONI

COPRIFERRO NETTO

- PALI DI FONDAZIONE E PER PARATIE, DIAFRAMMI.....	s=60 mm	
- SOLETONI DI FONDAZIONE, FONDAZIONI ARMATE E NON ARMATE.....	s=40 mm	
- OPERE IN ELEVAZIONE IN VISTA (PILE, SPALLE, BAGGIOLI, PULVINI).....	s=40 mm	
- OPERE IN ELEVAZIONE CON SUPERFICI INTERRATE O NON ISPEZIONABILI.....	s=40 mm	
- SOLETTE DA PONTE – ESTRADOSSO.....	s=35 mm	
- SOLETTE DA PONTE – INTRADOSSO (GETTO IN OPERA).....	s=35 mm	
- SOLETTE DA PONTE – INTRADOSSO (GETTO SU PREDALLES).....	s=20 mm	
- IMPALCATI – ARMATURA ORDINARIA.....	s=40 mm	
- IMPALCATI IN C.A.P. – CAVI PRE-TESI.....	s=max(3*strefolo; 50mm)	
- IMPALCATI IN C.A.P. – CAVI POST-TESI.....	s=max(Øesterno guaina; 60mm)	
- VELETTE.....	s=30 mm	
- PREDALLES CON FUNZIONI STRUTTURALI.....	s=25 mm	
- PREDALLES SENZA FUNZIONI STRUTTURALI.....	s=max(Øbarro inf.; 20mm)	
- CUNETTE, CANALETTE E CORDOLI.....	s=40 mm	

Le caratteristiche dei materiali sono ricavate con riferimento alle indicazioni contenute nei capitoli 4 e 11 del D.M. 14 gennaio 2008. Nelle tabelle che seguono sono indicate le principali caratteristiche e i riferimenti dei paragrafi del D.M. citato.

ACCIAIO PER ARMATURE ORDINARIE

ACCIAIO

TIPO	B450C			
f_y nom	450	N/mm ²	11.3.2.1	tensione di snervamento
f_t nom	540	N/mm ²	11.3.2.1	tensione di rottura
f_{yd}	391,3	N/mm ²	4.1.6	tensione snerv. di calcolo

$f_y / f_{yk} \leq 1.35$ f_y = singolo valore della tensione snervamento rilevato sperimentalmente

$(f_t / f_y)_{medio} \geq 1.13$ f_t = singolo valore della tensione di rottura rilevato sperimentalmente

ACCIAIO PER MICROPALI

S355JR

Tensione caratteristica di snervamento

$f_{yk} = 355$ MPa

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4 SOFTWARE DI CALCOLO

Lo stato tenso-deformativo delle strutture è stato investigato mediante il software di calcolo PARATIE plus 2012 [Ce.A.S. s.r.l. - Milano].

Tale software è un codice agli elementi finiti che simula il problema di uno scavo sostenuto da diaframmi flessibili e permette di valutare il comportamento della parete di sostegno durante tutte le fasi intermedie e nella configurazione finale.

Il problema è visto ad un problema piano in cui viene analizzata una “fetta” di parete di larghezza unitaria. Tale schematizzazione non è quindi idonea a studiare problemi in cui vi siano importanti effetti tridimensionali.

La modellazione numerica dell’interazione terreno-struttura è del tipo “trave su suolo elastico”: le pareti di sostegno vengono rappresentate con elementi finiti trave il cui comportamento è definito dalla rigidità flessionale EJ, mentre il terreno viene simulato attraverso elementi elastoplastici monodimensionali (molle) connessi ai nodi delle paratie: ad ogni nodo convergono uno o al massimo due elementi terreno.

Il limite di questo schema sta nell’ammettere che ogni porzione di terreno, schematizzata da una “molla”, abbia comportamento del tutto indipendente dalle porzioni adiacenti; l’interazione fra le varie regioni di terreno è affidata alla rigidità flessionale della parete.

La realizzazione dello scavo sostenuto da una o due paratie puntionate viene seguita in tutte le varie fasi attraverso un’analisi statica incrementale: ogni passo di carico coincide con una ben precisa configurazione caratterizzata da una certa quota di scavo, da un certo insieme di puntoni applicati, da una ben precisa disposizione di carichi applicati.

Poiché il comportamento degli elementi finiti è di tipo elastoplastico, ogni configurazione dipende in generale dalle configurazioni precedenti e lo sviluppo di deformazioni plastiche ad un certo passo condiziona la risposta della struttura nei passi successivi. La soluzione ad ogni nuova configurazione (step) viene raggiunta attraverso un calcolo iterativo alla Newton-Raphson.

L’analisi ha lo scopo di indagare la risposta strutturale in termini di deformazioni laterali subite dalla parete durante le varie fasi di scavo e di conseguenza la variazione delle pressioni orizzontali nel terreno. Per far questo, in corrispondenza di ogni nodo è necessario definire due soli gradi di libertà, cioè lo spostamento orizzontale e la rotazione attorno all’asse X ortogonale al piano della struttura (positiva se antioraria).

In questa impostazione particolare, inoltre, gli sforzi verticali nel terreno non sono per ipotesi influenzati dal comportamento deformativo orizzontale, ma sono una variabile del tutto indipendente, legata ad un calcolo basato sulle classiche ipotesi di distribuzione geostatica.

5 ANALISI DEI CARICHI E FASI

Si fa riferimento a carichi e sollecitazioni relativi ad un metro di sviluppo di paratia.

5.1 Fasi

Vengono di seguito descritte le fasi per il modello studiato.

- FASE 1

Si realizza la fila di micropali $\Phi 300/0.40$, armatura 193.7/12.5mm, lunghezza 10.00m. I micropali si realizzano a partire da p.c di lavoro realizzato attraverso un prescavo, considerato qui a quota +0.00m.

Viene considerato un carico accidentale a tergo paratie di intensità pari a 57 kN/mq simulante il rilevato ferroviario presente.

- FASE 2

Si raggiunge il fondo scavo a -3.20m dalla testa della paratia. La falda è assunta a quota fondo scavo.

5.2 Combinazioni dei carichi

Le combinazioni di carico, considerate ai fini delle verifiche, sono stabilite in modo da garantire la sicurezza in conformità a quanto prescritto al cap. 2 delle NTC2008.

Gli stati limite ultimi delle opere interrato si riferiscono allo sviluppo di meccanismi di collasso, determinati dalla mobilitazione della resistenza del terreno, e al raggiungimento della resistenza degli elementi strutturali che compongono l'opera.

Le verifiche agli stati limite ultimi sono state eseguite in riferimento ai seguenti stati limite:

- SLU di tipo strutturale (STR)
 - raggiungimento della resistenza negli elementi strutturali della paratia.
- SLU di tipo geotecnico (GEO)
 - valutazione della resistenza passiva mobilitata.

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Le verifiche sono state condotte secondo l'approccio progettuale "Approccio 1", utilizzando i coefficienti parziali riportati nelle tabelle 6.2.I - 6.2.II per i parametri geotecnici e le azioni:

- combinazione 1 → (A1+M1+R1) → generalmente dimensionante per STR
- combinazione 2 → (A2+M2+R1) → generalmente dimensionante per GEO

Ai fini delle verifiche degli stati limite ultimi si definiscono le seguenti combinazioni:

$$\text{STR}) \Rightarrow \gamma_{G1} \cdot G_1 + \gamma_{G2} \cdot G_2 + \gamma_{Q1} \cdot Q_{k1} + \sum_i \psi_{0i} \cdot Q_{ki} \Rightarrow (\Phi_d' = \Phi_k')$$

$$\text{GEO}) \Rightarrow \gamma_{G1} \cdot G_1 + \gamma_{G2} \cdot G_2 + \gamma_{Q1} \cdot Q_{k1} + \sum_i \psi_{0i} \cdot Q_{ki} \Rightarrow (\text{spinte } \Phi_d' = \arctan(\tan \Phi_k' / \gamma_\Phi))$$

Ai fini delle verifiche degli stati limite di esercizio (deformazioni ammissibili) si definisce la seguente combinazione:

$$\text{Rara}) \Rightarrow G_1 + G_2 + Q_{k1} + \sum_i \psi_{0i} \cdot Q_{ki}$$

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6 VERIFICHE PARATIA

I risultati di seguito esposti riguardano la modellazione della paratia di micropali $\Phi 300/0.40$, armatura 193.7/12.5mm, lunghezza 10.00m. I micropali inclinati $\Phi 220/1.32$, armatura 168.3/12.5mm, lunghezza 10.00m, solidali con il cordolo di raccordo della paratia, non sono stati presi in considerazione, lavorando così in favore di sicurezza.

6.1 Verifiche strutturali della paratia di micropali (STR)

Per le verifiche strutturali sono state prese in considerazione le sollecitazioni massime, momento flettente e taglio della combinazione **STR**.

$$M_{SLU} = 227.78 \times 0.4 = 91.11 \text{ kNm/palo}$$

$$z = -4.90 \text{ m da p.c.}$$

$$T_{SLU} = 127.24 \times 0.4 = 50.89 \text{ kN/palo}$$

$$z = -6.40 \text{ m da p.c.}$$

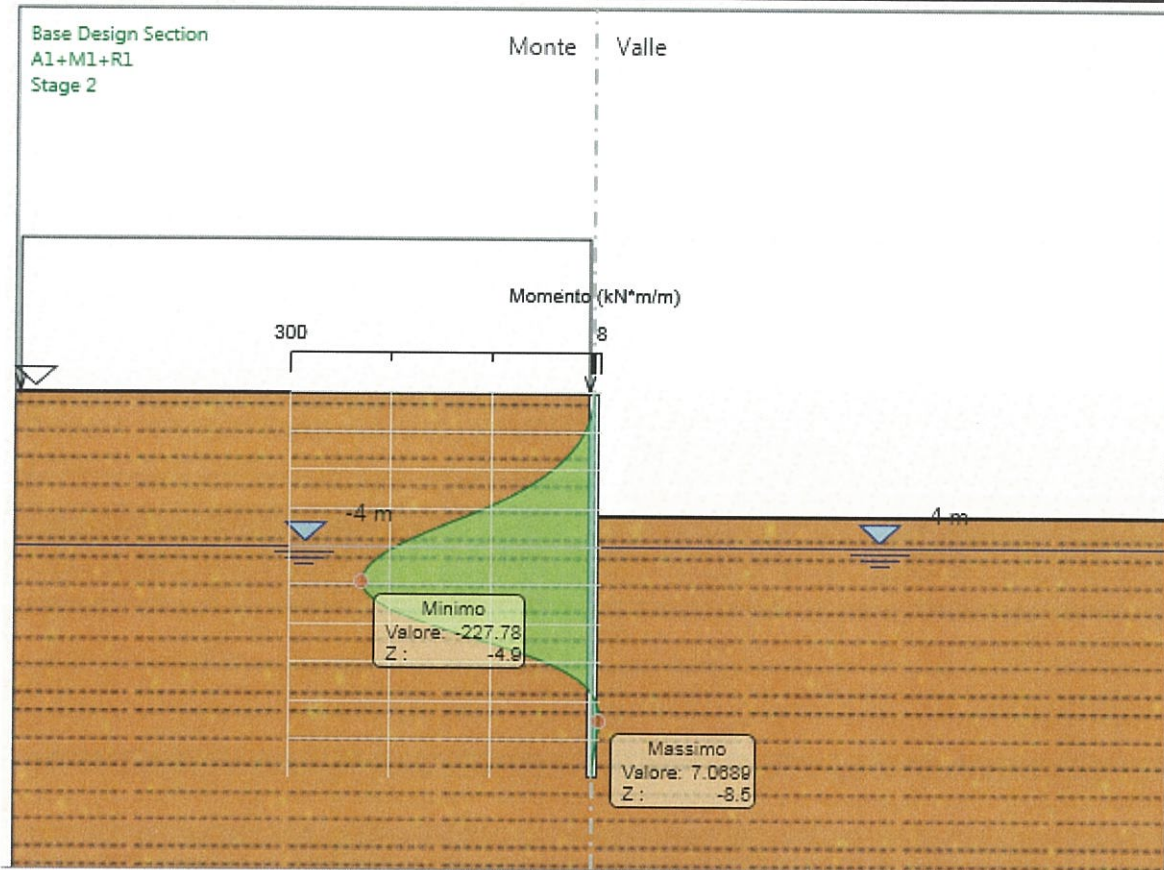


Figura 1 Diagramma del momento lungo la paratia

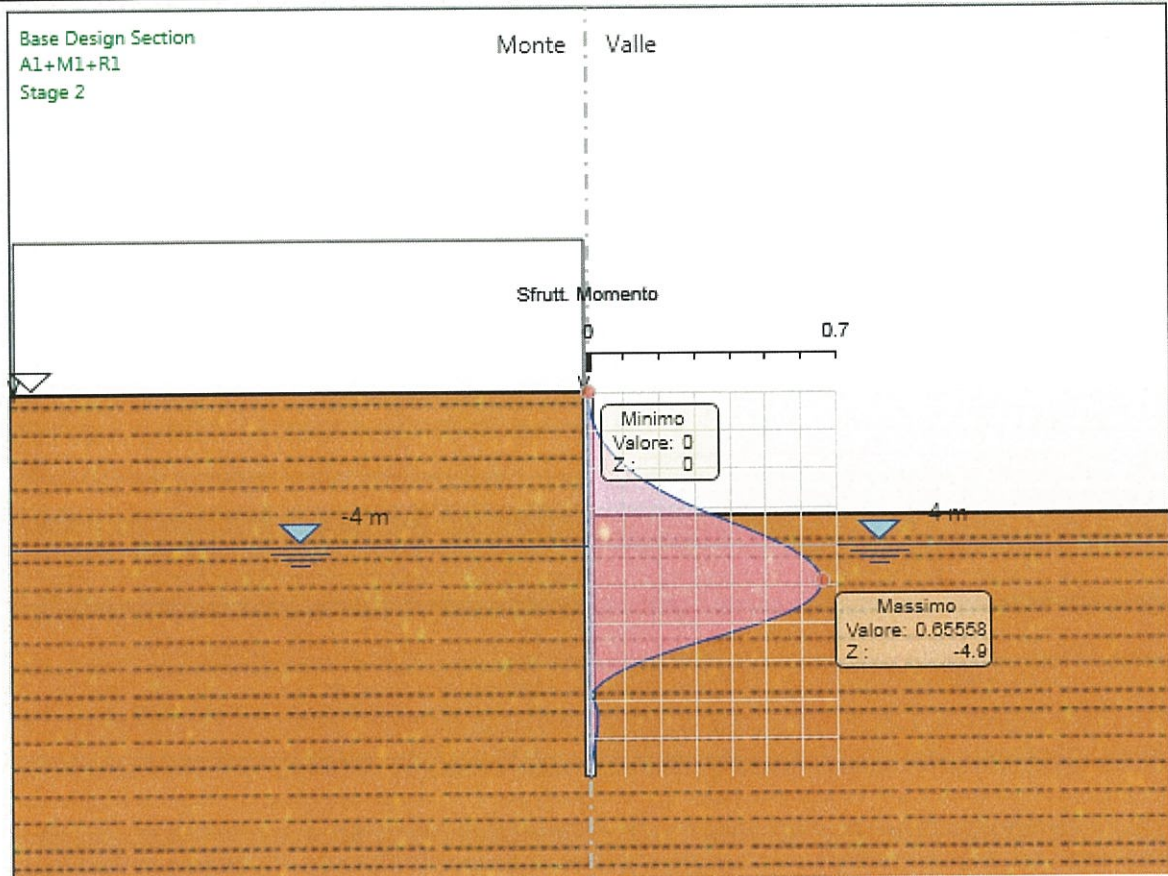


Figura 2 Coefficiente di sfruttamento del momento

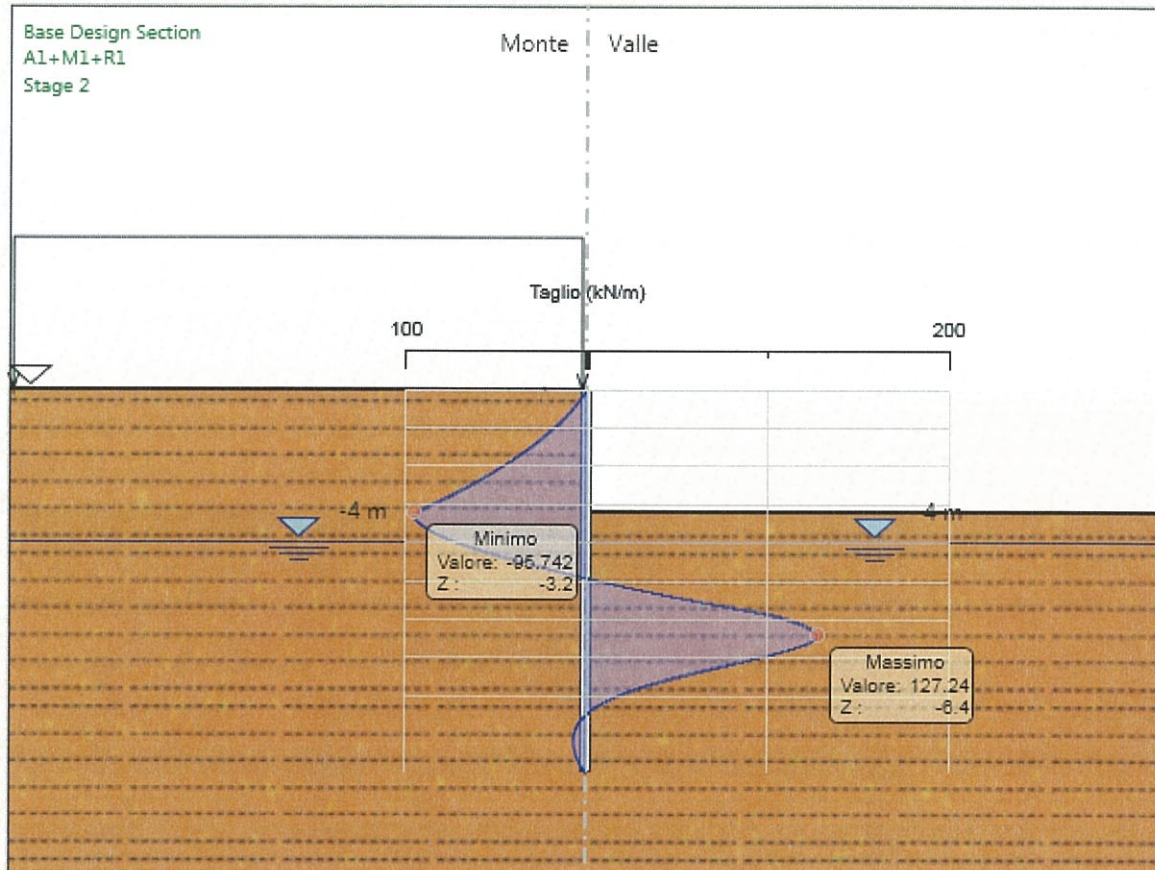


Figura 3 Diagramma del taglio lungo la paratia

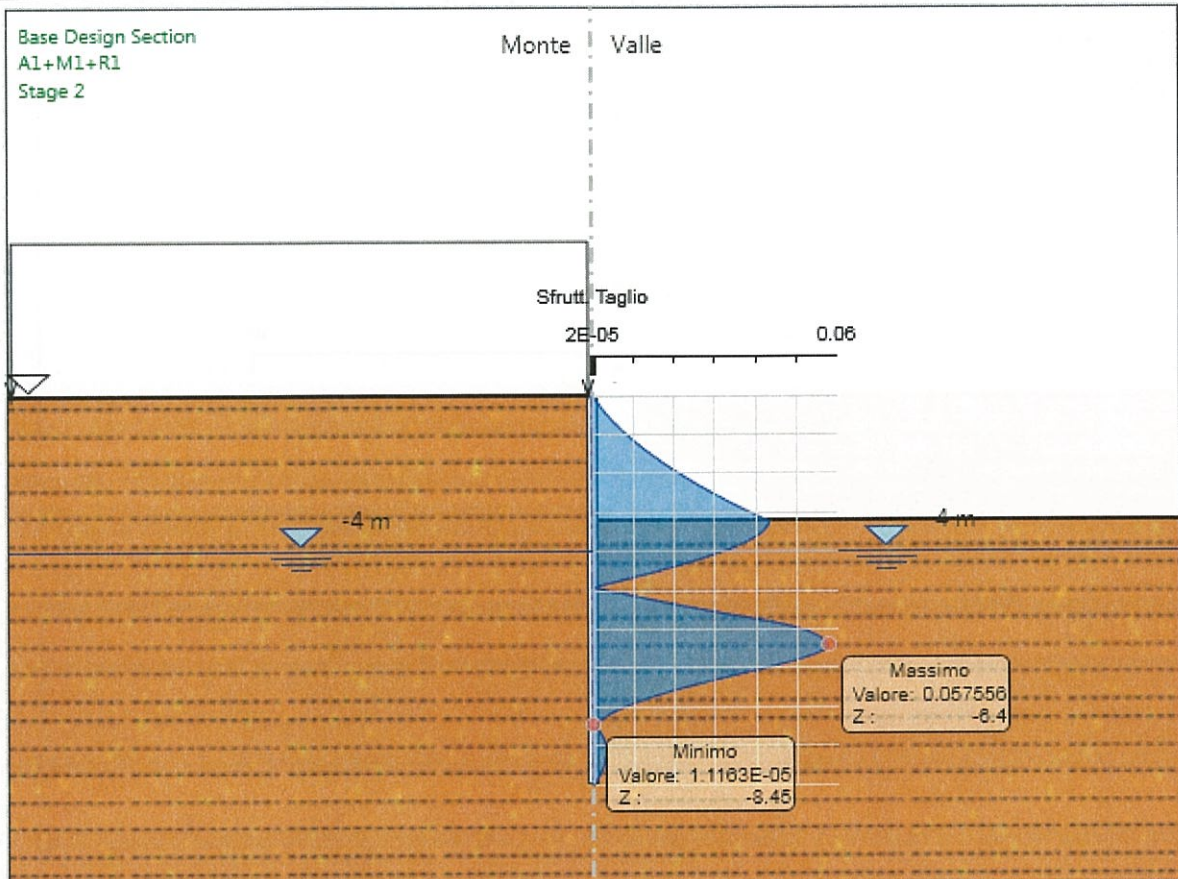


Figura 4 Coefficiente di sfruttamento del taglio

6.2 Verifiche degli spostamenti orizzontali (SLE)

Per l'opera di sostegno si ottiene uno spostamento massimo a p.c, pari a 59.424 mm, valore ritenuto accettabile considerando che nei calcoli è stato trascurato il contributo dei micropali inclinati che fungono da tiranti passivi.

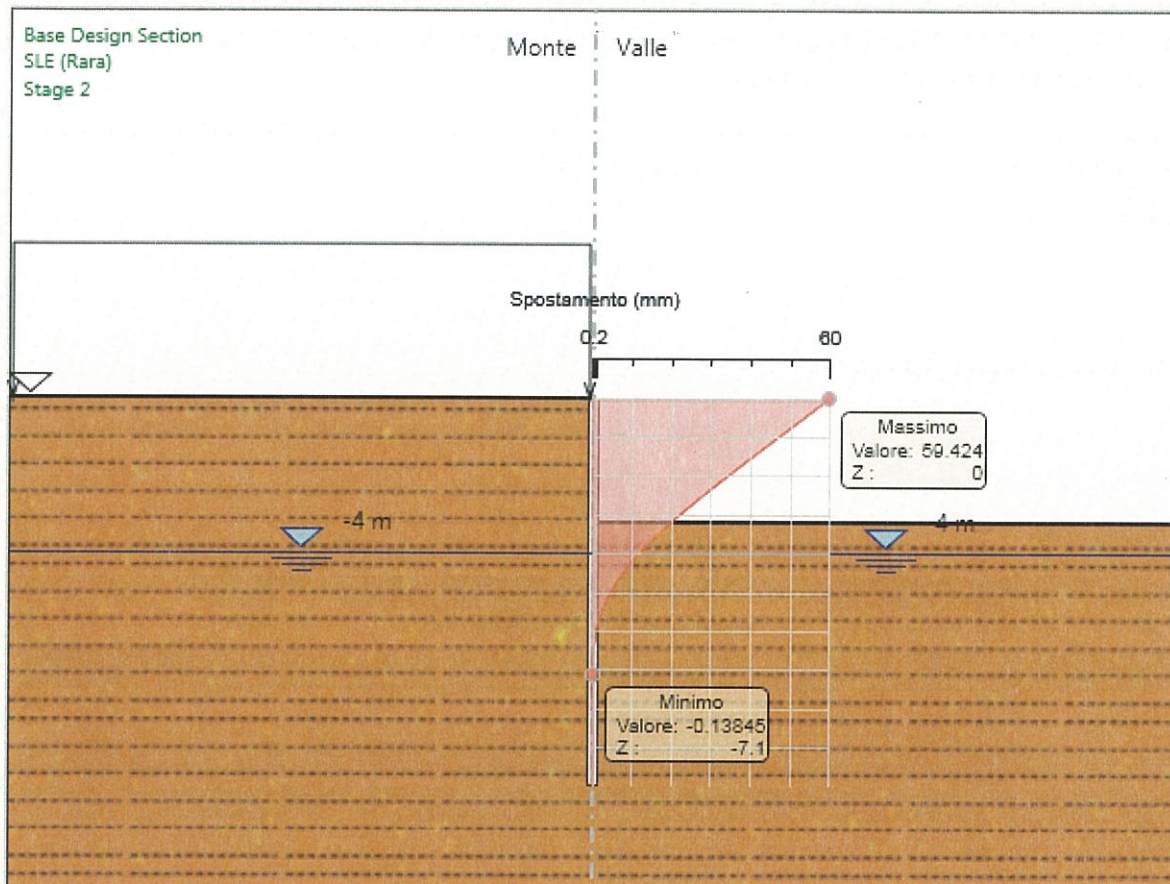


Figura 5 Diagramma degli spostamenti

6.3 Verifiche sulla resistenza mobilitata (GEO)

A valle, la risultante delle spinte, pari a circa 686.94 kN/m, va confrontata con la resistenza passiva di progetto pari a circa 1130.20 kN/m. I coefficienti di sicurezza sono incorporati nei coefficienti parziali γ_M e γ_R che si riferiscono all'approccio di calcolo prescelto: pertanto nei riguardi di una verifica allo Stato Limite Ultimo, la spinta sollecitante potrebbe, al limite, eguagliare la resistenza passiva di progetto. In tal caso la risultante delle spinte è minore della resistenza passiva di progetto.

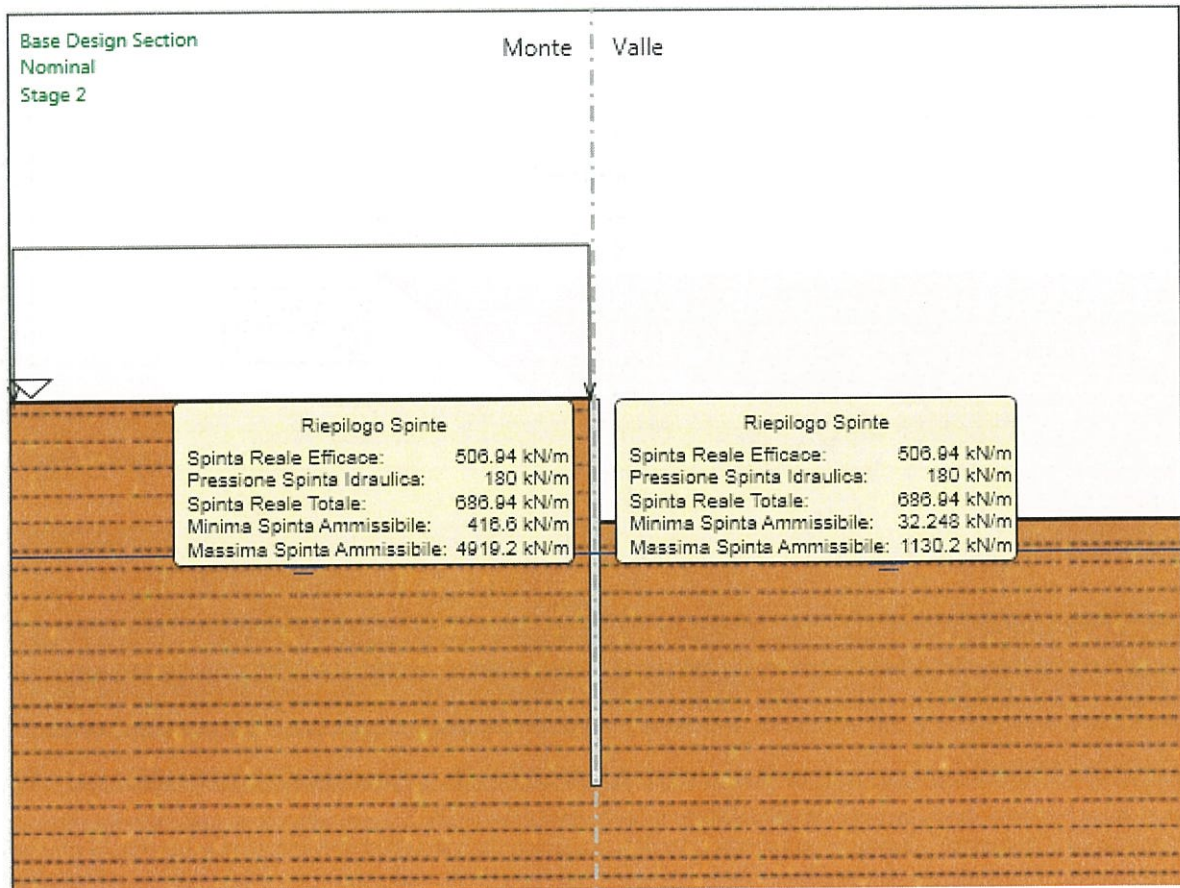


Figura 6 Riepilogo delle spinte



LINEA PESCARA – BARI

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RELAZIONE DI CALCOLO

6.4 Allegati

Design Assumption : Nominal - File di Paratie - File di output (.out)

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* PARATIE PLUS Non-Linear Spring Engine
*
* AN ELASTOPLASTIC FINITE ELEMENT PROGRAM
* FOR FLEXIBLE EARTH-RETAINING STRUCTURES
*
* Written by Ce.A.S. s.r.l. (ITALY)
* with the scientific supervision of
* Roberto Nova - full professor SOIL MECHANICS
* at Politecnico di Milano (ITALY)
*
*
*-----
*
* RELEASE 2016 *Build date: Feb 29, 2016*
*
*
* Ce.A.S. S.R.L CENTRO DI ANALISI STRUTTURALE
* VIALE GIUSTINIANO 10
* 20129 M I L A N O (ITALIA)
* TEL. +39 02 2020221 (+39 035 23 67 19)
* FAX +39 02 29512533 (+39 035 42285 49)
* email bruno.becci@ceas.it
* Web Page www.ceas.it
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STARTING

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ACCEPTED <FILE,PLOTTER,BINARY >

ACCEPTED <SOLVE TOTAL_STRESS >

ACCEPTED <PARAM ITEMAX 40 >

```
*****
*
* WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED
* BY THE PROGRAM.
*
*-----
```

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	19 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.Nominal_63
Exe Time :21 June 2016 11:57:44

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

paratia_mario

NO. OF NODAL POINTS (NUMNP)	201
NO. OF COORDINATES (NCOORD).....	2
NO. OF NODE DOFS (NDOF).....	2
NO. OF EQUATIONS (NEQ).....	402
NO. OF CONSTRAINTS CARDS (NVINC).....	0
NO. OF ELEMENT GROUPS (NEG).....	3
NO. OF SOLUTION STEPS (NSTE).....	3
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ...	0
NO. OF RECORD FROM WALGEN	47
NO. OF LONG NAMES (LASTNAME)	13
LENGTH UNIT CHOICE	3 (M)
FORCE UNIT CHOICE	3 (KN)
MAX PORE PRESSURE TABLE LENGTH.....	1
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF .	0

IDOFA (01) = 2 Y-DISPL.F
IDOFA (02) = 4 X-ROT. F

RELEVANT ITEMS UNITS

STRESSES	kPa
Y-DISPLACEMENTS	m
ROTATIONS	RADIANS
BEAM AND SLAB MOMENTS	kN*m/m
BEAM SHEAR FORCES	kN/m
ANCHOR FORCES	kN/m
AXIAL FORCES IN TRUSSES	kN/m
AXIAL FORCES SPRINGS	kN/m
Y-REACTIONS	kN/m
X-MOMENT REACTIONS	kN*m/m
ETC.	



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	20 di 401

RELAZIONE DI CALCOLO

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.Nominal_63
Exe Time :21 June 2016 11:57:44

PREPROCESSOR DATA

NO. OF COMMANDS 47

```
1 : UNIT m kN
2 : TITLE paratia_mario
3 : DELTA 0.05
4 : option param itemax 40
5 : WALL LeftWall_32 0 -10 0 1
6 : SOIL 0 L LeftWall_32 -10 0 1 0
7 : SOIL 0 R LeftWall_32 -10 0 2 180
8 : LDATA 5AL 158_160_L_0 0 LeftWall_32
9 : ATREST 0.5933 0.5 1
10 : WEIGHT 19 9 10
11 : PERMEABILITY 1E-08
12 : RESISTANCE 10 25
13 : YOUNG 2.5E+05 4E+05
14 : ENDL
15 : MATERIAL S355_114 2.1E+08
16 : MATERIAL C3240_106 3.335E+07
17 : BEAM WallElement_33 LeftWall_32 -10 0 S355_114 0.1381 00 00
18 : STEP Stage1_31
19 : CHANGE 5AL 158_160_L_0 U-FRICT=25 LeftWall_32
20 : CHANGE 5AL 158_160_L_0 D-FRICT=25 LeftWall_32
21 : CHANGE 5AL 158_160_L_0 U-KA=0.406 LeftWall_32
22 : CHANGE 5AL 158_160_L_0 U-KP=3.396 LeftWall_32
23 : CHANGE 5AL 158_160_L_0 D-KA=0.406 LeftWall_32
24 : CHANGE 5AL 158_160_L_0 D-KP=3.396 LeftWall_32
25 : CHANGE 5AL 158_160_L_0 U-COHE=10 LeftWall_32
26 : CHANGE 5AL 158_160_L_0 D-COHE=10 LeftWall_32
27 : SETWALL LeftWall_32
28 : GEOM 0 0
29 : WATER -4 0 -10 0 0
30 : ENDSTEP
31 : STEP Stage2_168
32 : CHANGE 5AL 158_160_L_0 D-FRICT=25 LeftWall_32
33 : CHANGE 5AL 158_160_L_0 D-COHE=10 LeftWall_32
34 : SETWALL LeftWall_32
35 : GEOM 0 0
36 : SURCHARGE 57 0 0 0
37 : WATER -4 0 -10 0 0
38 : ADD WallElement_33
39 : ENDSTEP
40 : STEP Stage3_6035
41 : CHANGE 5AL 158_160_L_0 D-FRICT=25 LeftWall_32
42 : CHANGE 5AL 158_160_L_0 D-COHE=10 LeftWall_32
43 : SETWALL LeftWall_32
44 : GEOM 0 -3.2
45 : SURCHARGE 57 0 0 0
46 : WATER -4 0 -10 0 0
47 : ENDSTEP
```



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	21 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.Nominal_63
Exe Time :21 June 2016 11:57:44

NODAL POINT DATA

NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD /
1	0.0000	0.0000 /	2	0.0000	-5.0000E-02 /	3	0.0000	-0.10000 /
5	0.0000	-0.20000 /	6	0.0000	-0.25000 /	7	0.0000	-0.30000 /
9	0.0000	-0.40000 /	10	0.0000	-0.45000 /	11	0.0000	-0.50000 /
13	0.0000	-0.60000 /	14	0.0000	-0.65000 /	15	0.0000	-0.70000 /
17	0.0000	-0.80000 /	18	0.0000	-0.85000 /	19	0.0000	-0.90000 /
21	0.0000	-1.0000 /	22	0.0000	-1.0500 /	23	0.0000	-1.1000 /
25	0.0000	-1.2000 /	26	0.0000	-1.2500 /	27	0.0000	-1.3000 /
29	0.0000	-1.4000 /	30	0.0000	-1.4500 /	31	0.0000	-1.5000 /
33	0.0000	-1.6000 /	34	0.0000	-1.6500 /	35	0.0000	-1.7000 /
37	0.0000	-1.8000 /	38	0.0000	-1.8500 /	39	0.0000	-1.9000 /
41	0.0000	-2.0000 /	42	0.0000	-2.0500 /	43	0.0000	-2.1000 /
45	0.0000	-2.2000 /	46	0.0000	-2.2500 /	47	0.0000	-2.3000 /
49	0.0000	-2.4000 /	50	0.0000	-2.4500 /	51	0.0000	-2.5000 /
53	0.0000	-2.6000 /	54	0.0000	-2.6500 /	55	0.0000	-2.7000 /
57	0.0000	-2.8000 /	58	0.0000	-2.8500 /	59	0.0000	-2.9000 /
61	0.0000	-3.0000 /	62	0.0000	-3.0500 /	63	0.0000	-3.1000 /
65	0.0000	-3.2000 /	66	0.0000	-3.2500 /	67	0.0000	-3.3000 /
69	0.0000	-3.4000 /	70	0.0000	-3.4500 /	71	0.0000	-3.5000 /
73	0.0000	-3.6000 /	74	0.0000	-3.6500 /	75	0.0000	-3.7000 /
77	0.0000	-3.8000 /	78	0.0000	-3.8500 /	79	0.0000	-3.9000 /
81	0.0000	-4.0000 /	82	0.0000	-4.0500 /	83	0.0000	-4.1000 /
85	0.0000	-4.2000 /	86	0.0000	-4.2500 /	87	0.0000	-4.3000 /
89	0.0000	-4.4000 /	90	0.0000	-4.4500 /	91	0.0000	-4.5000 /
93	0.0000	-4.6000 /	94	0.0000	-4.6500 /	95	0.0000	-4.7000 /
97	0.0000	-4.8000 /	98	0.0000	-4.8500 /	99	0.0000	-4.9000 /
101	0.0000	-5.0000 /	102	0.0000	-5.0500 /	103	0.0000	-5.1000 /
105	0.0000	-5.2000 /	106	0.0000	-5.2500 /	107	0.0000	-5.3000 /
109	0.0000	-5.4000 /	110	0.0000	-5.4500 /	111	0.0000	-5.5000 /
113	0.0000	-5.6000 /	114	0.0000	-5.6500 /	115	0.0000	-5.7000 /
117	0.0000	-5.8000 /	118	0.0000	-5.8500 /	119	0.0000	-5.9000 /
121	0.0000	-6.0000 /	122	0.0000	-6.0500 /	123	0.0000	-6.1000 /
125	0.0000	-6.2000 /	126	0.0000	-6.2500 /	127	0.0000	-6.3000 /
129	0.0000	-6.4000 /	130	0.0000	-6.4500 /	131	0.0000	-6.5000 /
133	0.0000	-6.6000 /	134	0.0000	-6.6500 /	135	0.0000	-6.7000 /
137	0.0000	-6.8000 /	138	0.0000	-6.8500 /	139	0.0000	-6.9000 /
141	0.0000	-7.0000 /	142	0.0000	-7.0500 /	143	0.0000	-7.1000 /
145	0.0000	-7.2000 /	146	0.0000	-7.2500 /	147	0.0000	-7.3000 /
149	0.0000	-7.4000 /	150	0.0000	-7.4500 /	151	0.0000	-7.5000 /
153	0.0000	-7.6000 /	154	0.0000	-7.6500 /	155	0.0000	-7.7000 /
157	0.0000	-7.8000 /	158	0.0000	-7.8500 /	159	0.0000	-7.9000 /
161	0.0000	-8.0000 /	162	0.0000	-8.0500 /	163	0.0000	-8.1000 /
165	0.0000	-8.2000 /	166	0.0000	-8.2500 /	167	0.0000	-8.3000 /
169	0.0000	-8.4000 /	170	0.0000	-8.4500 /	171	0.0000	-8.5000 /
173	0.0000	-8.6000 /	174	0.0000	-8.6500 /	175	0.0000	-8.7000 /
177	0.0000	-8.8000 /	178	0.0000	-8.8500 /	179	0.0000	-8.9000 /
181	0.0000	-9.0000 /	182	0.0000	-9.0500 /	183	0.0000	-9.1000 /
185	0.0000	-9.2000 /	186	0.0000	-9.2500 /	187	0.0000	-9.3000 /
189	0.0000	-9.4000 /	190	0.0000	-9.4500 /	191	0.0000	-9.5000 /
193	0.0000	-9.6000 /	194	0.0000	-9.6500 /	195	0.0000	-9.7000 /
197	0.0000	-9.8000 /	198	0.0000	-9.8500 /	199	0.0000	-9.9000 /
201	0.0000	-10.000 /						



LINEA PESCARA - BARI
 RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:
 Lotto 1: Ripalta - Lesina
 PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	22 di 401

RELAZIONE DI CALCOLO

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.Nominal_63
 Exe Time :21 June 2016 11:57:44

ELEMENT GROUP NO. 1

0_L
 5 201 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage status

1 active
 2 active
 3 active

material set no. 1

prop(1) angle 0.00000
 prop(2) layer as foreseen 1.00000

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.2500E-01	0.000	0.000	0.000	1.000
2	2	1	0.5000E-01	0.000	0.000	0.000	1.000
3	3	1	0.5000E-01	0.000	0.000	0.000	1.000
4	4	1	0.5000E-01	0.000	0.000	0.000	1.000
5	5	1	0.5000E-01	0.000	0.000	0.000	1.000
6	6	1	0.5000E-01	0.000	0.000	0.000	1.000
7	7	1	0.5000E-01	0.000	0.000	0.000	1.000
8	8	1	0.5000E-01	0.000	0.000	0.000	1.000
9	9	1	0.5000E-01	0.000	0.000	0.000	1.000
10	10	1	0.5000E-01	0.000	0.000	0.000	1.000
11	11	1	0.5000E-01	0.000	0.000	0.000	1.000
12	12	1	0.5000E-01	0.000	0.000	0.000	1.000
13	13	1	0.5000E-01	0.000	0.000	0.000	1.000
14	14	1	0.5000E-01	0.000	0.000	0.000	1.000
15	15	1	0.5000E-01	0.000	0.000	0.000	1.000
16	16	1	0.5000E-01	0.000	0.000	0.000	1.000
17	17	1	0.5000E-01	0.000	0.000	0.000	1.000
18	18	1	0.5000E-01	0.000	0.000	0.000	1.000
19	19	1	0.5000E-01	0.000	0.000	0.000	1.000
20	20	1	0.5000E-01	0.000	0.000	0.000	1.000
21	21	1	0.5000E-01	0.000	0.000	0.000	1.000
22	22	1	0.5000E-01	0.000	0.000	0.000	1.000
23	23	1	0.5000E-01	0.000	0.000	0.000	1.000
24	24	1	0.5000E-01	0.000	0.000	0.000	1.000
25	25	1	0.5000E-01	0.000	0.000	0.000	1.000
26	26	1	0.5000E-01	0.000	0.000	0.000	1.000
27	27	1	0.5000E-01	0.000	0.000	0.000	1.000
28	28	1	0.5000E-01	0.000	0.000	0.000	1.000
29	29	1	0.5000E-01	0.000	0.000	0.000	1.000
30	30	1	0.5000E-01	0.000	0.000	0.000	1.000
31	31	1	0.5000E-01	0.000	0.000	0.000	1.000
32	32	1	0.5000E-01	0.000	0.000	0.000	1.000
33	33	1	0.5000E-01	0.000	0.000	0.000	1.000
34	34	1	0.5000E-01	0.000	0.000	0.000	1.000
35	35	1	0.5000E-01	0.000	0.000	0.000	1.000
36	36	1	0.5000E-01	0.000	0.000	0.000	1.000
37	37	1	0.5000E-01	0.000	0.000	0.000	1.000
38	38	1	0.5000E-01	0.000	0.000	0.000	1.000
39	39	1	0.5000E-01	0.000	0.000	0.000	1.000
40	40	1	0.5000E-01	0.000	0.000	0.000	1.000
41	41	1	0.5000E-01	0.000	0.000	0.000	1.000
42	42	1	0.5000E-01	0.000	0.000	0.000	1.000
43	43	1	0.5000E-01	0.000	0.000	0.000	1.000
44	44	1	0.5000E-01	0.000	0.000	0.000	1.000
45	45	1	0.5000E-01	0.000	0.000	0.000	1.000

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	23 di 401

RELAZIONE DI CALCOLO

46	46	1	0.5000E-01	0.000	0.000	0.000	1.000
47	47	1	0.5000E-01	0.000	0.000	0.000	1.000
48	48	1	0.5000E-01	0.000	0.000	0.000	1.000
49	49	1	0.5000E-01	0.000	0.000	0.000	1.000
50	50	1	0.5000E-01	0.000	0.000	0.000	1.000
51	51	1	0.5000E-01	0.000	0.000	0.000	1.000
52	52	1	0.5000E-01	0.000	0.000	0.000	1.000
53	53	1	0.5000E-01	0.000	0.000	0.000	1.000
54	54	1	0.5000E-01	0.000	0.000	0.000	1.000
55	55	1	0.5000E-01	0.000	0.000	0.000	1.000
56	56	1	0.5000E-01	0.000	0.000	0.000	1.000
57	57	1	0.5000E-01	0.000	0.000	0.000	1.000
58	58	1	0.5000E-01	0.000	0.000	0.000	1.000
59	59	1	0.5000E-01	0.000	0.000	0.000	1.000
60	60	1	0.5000E-01	0.000	0.000	0.000	1.000
61	61	1	0.5000E-01	0.000	0.000	0.000	1.000
62	62	1	0.5000E-01	0.000	0.000	0.000	1.000
63	63	1	0.5000E-01	0.000	0.000	0.000	1.000
64	64	1	0.5000E-01	0.000	0.000	0.000	1.000
65	65	1	0.5000E-01	0.000	0.000	0.000	1.000
66	66	1	0.5000E-01	0.000	0.000	0.000	1.000
67	67	1	0.5000E-01	0.000	0.000	0.000	1.000
68	68	1	0.5000E-01	0.000	0.000	0.000	1.000
69	69	1	0.5000E-01	0.000	0.000	0.000	1.000
70	70	1	0.5000E-01	0.000	0.000	0.000	1.000
71	71	1	0.5000E-01	0.000	0.000	0.000	1.000
72	72	1	0.5000E-01	0.000	0.000	0.000	1.000
73	73	1	0.5000E-01	0.000	0.000	0.000	1.000
74	74	1	0.5000E-01	0.000	0.000	0.000	1.000
75	75	1	0.5000E-01	0.000	0.000	0.000	1.000
76	76	1	0.5000E-01	0.000	0.000	0.000	1.000
77	77	1	0.5000E-01	0.000	0.000	0.000	1.000
78	78	1	0.5000E-01	0.000	0.000	0.000	1.000
79	79	1	0.5000E-01	0.000	0.000	0.000	1.000
80	80	1	0.5000E-01	0.000	0.000	0.000	1.000
81	81	1	0.5000E-01	0.000	0.000	0.000	1.000
82	82	1	0.5000E-01	0.000	0.000	0.000	1.000
83	83	1	0.5000E-01	0.000	0.000	0.000	1.000
84	84	1	0.5000E-01	0.000	0.000	0.000	1.000
85	85	1	0.5000E-01	0.000	0.000	0.000	1.000
86	86	1	0.5000E-01	0.000	0.000	0.000	1.000
87	87	1	0.5000E-01	0.000	0.000	0.000	1.000
88	88	1	0.5000E-01	0.000	0.000	0.000	1.000
89	89	1	0.5000E-01	0.000	0.000	0.000	1.000
90	90	1	0.5000E-01	0.000	0.000	0.000	1.000
91	91	1	0.5000E-01	0.000	0.000	0.000	1.000
92	92	1	0.5000E-01	0.000	0.000	0.000	1.000
93	93	1	0.5000E-01	0.000	0.000	0.000	1.000
94	94	1	0.5000E-01	0.000	0.000	0.000	1.000
95	95	1	0.5000E-01	0.000	0.000	0.000	1.000
96	96	1	0.5000E-01	0.000	0.000	0.000	1.000
97	97	1	0.5000E-01	0.000	0.000	0.000	1.000
98	98	1	0.5000E-01	0.000	0.000	0.000	1.000
99	99	1	0.5000E-01	0.000	0.000	0.000	1.000
100	100	1	0.5000E-01	0.000	0.000	0.000	1.000
101	101	1	0.5000E-01	0.000	0.000	0.000	1.000
102	102	1	0.5000E-01	0.000	0.000	0.000	1.000
103	103	1	0.5000E-01	0.000	0.000	0.000	1.000
104	104	1	0.5000E-01	0.000	0.000	0.000	1.000
105	105	1	0.5000E-01	0.000	0.000	0.000	1.000
106	106	1	0.5000E-01	0.000	0.000	0.000	1.000
107	107	1	0.5000E-01	0.000	0.000	0.000	1.000
108	108	1	0.5000E-01	0.000	0.000	0.000	1.000
109	109	1	0.5000E-01	0.000	0.000	0.000	1.000
110	110	1	0.5000E-01	0.000	0.000	0.000	1.000
111	111	1	0.5000E-01	0.000	0.000	0.000	1.000
112	112	1	0.5000E-01	0.000	0.000	0.000	1.000
113	113	1	0.5000E-01	0.000	0.000	0.000	1.000
114	114	1	0.5000E-01	0.000	0.000	0.000	1.000
115	115	1	0.5000E-01	0.000	0.000	0.000	1.000
116	116	1	0.5000E-01	0.000	0.000	0.000	1.000
117	117	1	0.5000E-01	0.000	0.000	0.000	1.000
118	118	1	0.5000E-01	0.000	0.000	0.000	1.000
119	119	1	0.5000E-01	0.000	0.000	0.000	1.000
120	120	1	0.5000E-01	0.000	0.000	0.000	1.000
121	121	1	0.5000E-01	0.000	0.000	0.000	1.000
122	122	1	0.5000E-01	0.000	0.000	0.000	1.000
123	123	1	0.5000E-01	0.000	0.000	0.000	1.000
124	124	1	0.5000E-01	0.000	0.000	0.000	1.000
125	125	1	0.5000E-01	0.000	0.000	0.000	1.000
126	126	1	0.5000E-01	0.000	0.000	0.000	1.000



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	24 di 401

127	127	1	0.5000E-01	0.000	0.000	0.000	1.000
128	128	1	0.5000E-01	0.000	0.000	0.000	1.000
129	129	1	0.5000E-01	0.000	0.000	0.000	1.000
130	130	1	0.5000E-01	0.000	0.000	0.000	1.000
131	131	1	0.5000E-01	0.000	0.000	0.000	1.000
132	132	1	0.5000E-01	0.000	0.000	0.000	1.000
133	133	1	0.5000E-01	0.000	0.000	0.000	1.000
134	134	1	0.5000E-01	0.000	0.000	0.000	1.000
135	135	1	0.5000E-01	0.000	0.000	0.000	1.000
136	136	1	0.5000E-01	0.000	0.000	0.000	1.000
137	137	1	0.5000E-01	0.000	0.000	0.000	1.000
138	138	1	0.5000E-01	0.000	0.000	0.000	1.000
139	139	1	0.5000E-01	0.000	0.000	0.000	1.000
140	140	1	0.5000E-01	0.000	0.000	0.000	1.000
141	141	1	0.5000E-01	0.000	0.000	0.000	1.000
142	142	1	0.5000E-01	0.000	0.000	0.000	1.000
143	143	1	0.5000E-01	0.000	0.000	0.000	1.000
144	144	1	0.5000E-01	0.000	0.000	0.000	1.000
145	145	1	0.5000E-01	0.000	0.000	0.000	1.000
146	146	1	0.5000E-01	0.000	0.000	0.000	1.000
147	147	1	0.5000E-01	0.000	0.000	0.000	1.000
148	148	1	0.5000E-01	0.000	0.000	0.000	1.000
149	149	1	0.5000E-01	0.000	0.000	0.000	1.000
150	150	1	0.5000E-01	0.000	0.000	0.000	1.000
151	151	1	0.5000E-01	0.000	0.000	0.000	1.000
152	152	1	0.5000E-01	0.000	0.000	0.000	1.000
153	153	1	0.5000E-01	0.000	0.000	0.000	1.000
154	154	1	0.5000E-01	0.000	0.000	0.000	1.000
155	155	1	0.5000E-01	0.000	0.000	0.000	1.000
156	156	1	0.5000E-01	0.000	0.000	0.000	1.000
157	157	1	0.5000E-01	0.000	0.000	0.000	1.000
158	158	1	0.5000E-01	0.000	0.000	0.000	1.000
159	159	1	0.5000E-01	0.000	0.000	0.000	1.000
160	160	1	0.5000E-01	0.000	0.000	0.000	1.000
161	161	1	0.5000E-01	0.000	0.000	0.000	1.000
162	162	1	0.5000E-01	0.000	0.000	0.000	1.000
163	163	1	0.5000E-01	0.000	0.000	0.000	1.000
164	164	1	0.5000E-01	0.000	0.000	0.000	1.000
165	165	1	0.5000E-01	0.000	0.000	0.000	1.000
166	166	1	0.5000E-01	0.000	0.000	0.000	1.000
167	167	1	0.5000E-01	0.000	0.000	0.000	1.000
168	168	1	0.5000E-01	0.000	0.000	0.000	1.000
169	169	1	0.5000E-01	0.000	0.000	0.000	1.000
170	170	1	0.5000E-01	0.000	0.000	0.000	1.000
171	171	1	0.5000E-01	0.000	0.000	0.000	1.000
172	172	1	0.5000E-01	0.000	0.000	0.000	1.000
173	173	1	0.5000E-01	0.000	0.000	0.000	1.000
174	174	1	0.5000E-01	0.000	0.000	0.000	1.000
175	175	1	0.5000E-01	0.000	0.000	0.000	1.000
176	176	1	0.5000E-01	0.000	0.000	0.000	1.000
177	177	1	0.5000E-01	0.000	0.000	0.000	1.000
178	178	1	0.5000E-01	0.000	0.000	0.000	1.000
179	179	1	0.5000E-01	0.000	0.000	0.000	1.000
180	180	1	0.5000E-01	0.000	0.000	0.000	1.000
181	181	1	0.5000E-01	0.000	0.000	0.000	1.000
182	182	1	0.5000E-01	0.000	0.000	0.000	1.000
183	183	1	0.5000E-01	0.000	0.000	0.000	1.000
184	184	1	0.5000E-01	0.000	0.000	0.000	1.000
185	185	1	0.5000E-01	0.000	0.000	0.000	1.000
186	186	1	0.5000E-01	0.000	0.000	0.000	1.000
187	187	1	0.5000E-01	0.000	0.000	0.000	1.000
188	188	1	0.5000E-01	0.000	0.000	0.000	1.000
189	189	1	0.5000E-01	0.000	0.000	0.000	1.000
190	190	1	0.5000E-01	0.000	0.000	0.000	1.000
191	191	1	0.5000E-01	0.000	0.000	0.000	1.000
192	192	1	0.5000E-01	0.000	0.000	0.000	1.000
193	193	1	0.5000E-01	0.000	0.000	0.000	1.000
194	194	1	0.5000E-01	0.000	0.000	0.000	1.000
195	195	1	0.5000E-01	0.000	0.000	0.000	1.000
196	196	1	0.5000E-01	0.000	0.000	0.000	1.000
197	197	1	0.5000E-01	0.000	0.000	0.000	1.000
198	198	1	0.5000E-01	0.000	0.000	0.000	1.000
199	199	1	0.5000E-01	0.000	0.000	0.000	1.000
200	200	1	0.4999E-01	0.000	0.000	0.000	1.000
201	201	1	0.2499E-01	0.000	0.000	0.000	1.000



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	25 di 401

RELAZIONE DI CALCOLO

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PARATIEPLUS(TM)  NLS ENGINE RELEASE 2016  FULL VERSION  *Build date: Feb 29, 2016*
paratia_mario.BaseDesignSection_28.Nominal_63
Exe Time :21 June 2016      11:57:44
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ELEMENT GROUP NO. 2

0_R 5 201 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage status

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1 active
2 active
3 active

```

material set no. 1

prop(1) angle 180.000
prop(2) layer as foreseen 1.00000

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.2500E-01	0.000	0.000	0.000	2.000
2	2	1	0.5000E-01	0.000	0.000	0.000	2.000
3	3	1	0.5000E-01	0.000	0.000	0.000	2.000
4	4	1	0.5000E-01	0.000	0.000	0.000	2.000
5	5	1	0.5000E-01	0.000	0.000	0.000	2.000
6	6	1	0.5000E-01	0.000	0.000	0.000	2.000
7	7	1	0.5000E-01	0.000	0.000	0.000	2.000
8	8	1	0.5000E-01	0.000	0.000	0.000	2.000
9	9	1	0.5000E-01	0.000	0.000	0.000	2.000
10	10	1	0.5000E-01	0.000	0.000	0.000	2.000
11	11	1	0.5000E-01	0.000	0.000	0.000	2.000
12	12	1	0.5000E-01	0.000	0.000	0.000	2.000
13	13	1	0.5000E-01	0.000	0.000	0.000	2.000
14	14	1	0.5000E-01	0.000	0.000	0.000	2.000
15	15	1	0.5000E-01	0.000	0.000	0.000	2.000
16	16	1	0.5000E-01	0.000	0.000	0.000	2.000
17	17	1	0.5000E-01	0.000	0.000	0.000	2.000
18	18	1	0.5000E-01	0.000	0.000	0.000	2.000
19	19	1	0.5000E-01	0.000	0.000	0.000	2.000
20	20	1	0.5000E-01	0.000	0.000	0.000	2.000
21	21	1	0.5000E-01	0.000	0.000	0.000	2.000
22	22	1	0.5000E-01	0.000	0.000	0.000	2.000
23	23	1	0.5000E-01	0.000	0.000	0.000	2.000
24	24	1	0.5000E-01	0.000	0.000	0.000	2.000
25	25	1	0.5000E-01	0.000	0.000	0.000	2.000
26	26	1	0.5000E-01	0.000	0.000	0.000	2.000
27	27	1	0.5000E-01	0.000	0.000	0.000	2.000
28	28	1	0.5000E-01	0.000	0.000	0.000	2.000
29	29	1	0.5000E-01	0.000	0.000	0.000	2.000
30	30	1	0.5000E-01	0.000	0.000	0.000	2.000
31	31	1	0.5000E-01	0.000	0.000	0.000	2.000
32	32	1	0.5000E-01	0.000	0.000	0.000	2.000
33	33	1	0.5000E-01	0.000	0.000	0.000	2.000
34	34	1	0.5000E-01	0.000	0.000	0.000	2.000
35	35	1	0.5000E-01	0.000	0.000	0.000	2.000
36	36	1	0.5000E-01	0.000	0.000	0.000	2.000
37	37	1	0.5000E-01	0.000	0.000	0.000	2.000
38	38	1	0.5000E-01	0.000	0.000	0.000	2.000
39	39	1	0.5000E-01	0.000	0.000	0.000	2.000
40	40	1	0.5000E-01	0.000	0.000	0.000	2.000
41	41	1	0.5000E-01	0.000	0.000	0.000	2.000
42	42	1	0.5000E-01	0.000	0.000	0.000	2.000
43	43	1	0.5000E-01	0.000	0.000	0.000	2.000
44	44	1	0.5000E-01	0.000	0.000	0.000	2.000
45	45	1	0.5000E-01	0.000	0.000	0.000	2.000

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 C04	A	26 di 401

RELAZIONE DI CALCOLO

46	46	1	0.5000E-01	0.000	0.000	0.000	2.000
47	47	1	0.5000E-01	0.000	0.000	0.000	2.000
48	48	1	0.5000E-01	0.000	0.000	0.000	2.000
49	49	1	0.5000E-01	0.000	0.000	0.000	2.000
50	50	1	0.5000E-01	0.000	0.000	0.000	2.000
51	51	1	0.5000E-01	0.000	0.000	0.000	2.000
52	52	1	0.5000E-01	0.000	0.000	0.000	2.000
53	53	1	0.5000E-01	0.000	0.000	0.000	2.000
54	54	1	0.5000E-01	0.000	0.000	0.000	2.000
55	55	1	0.5000E-01	0.000	0.000	0.000	2.000
56	56	1	0.5000E-01	0.000	0.000	0.000	2.000
57	57	1	0.5000E-01	0.000	0.000	0.000	2.000
58	58	1	0.5000E-01	0.000	0.000	0.000	2.000
59	59	1	0.5000E-01	0.000	0.000	0.000	2.000
60	60	1	0.5000E-01	0.000	0.000	0.000	2.000
61	61	1	0.5000E-01	0.000	0.000	0.000	2.000
62	62	1	0.5000E-01	0.000	0.000	0.000	2.000
63	63	1	0.5000E-01	0.000	0.000	0.000	2.000
64	64	1	0.5000E-01	0.000	0.000	0.000	2.000
65	65	1	0.5000E-01	0.000	0.000	0.000	2.000
66	66	1	0.5000E-01	0.000	0.000	0.000	2.000
67	67	1	0.5000E-01	0.000	0.000	0.000	2.000
68	68	1	0.5000E-01	0.000	0.000	0.000	2.000
69	69	1	0.5000E-01	0.000	0.000	0.000	2.000
70	70	1	0.5000E-01	0.000	0.000	0.000	2.000
71	71	1	0.5000E-01	0.000	0.000	0.000	2.000
72	72	1	0.5000E-01	0.000	0.000	0.000	2.000
73	73	1	0.5000E-01	0.000	0.000	0.000	2.000
74	74	1	0.5000E-01	0.000	0.000	0.000	2.000
75	75	1	0.5000E-01	0.000	0.000	0.000	2.000
76	76	1	0.5000E-01	0.000	0.000	0.000	2.000
77	77	1	0.5000E-01	0.000	0.000	0.000	2.000
78	78	1	0.5000E-01	0.000	0.000	0.000	2.000
79	79	1	0.5000E-01	0.000	0.000	0.000	2.000
80	80	1	0.5000E-01	0.000	0.000	0.000	2.000
81	81	1	0.5000E-01	0.000	0.000	0.000	2.000
82	82	1	0.5000E-01	0.000	0.000	0.000	2.000
83	83	1	0.5000E-01	0.000	0.000	0.000	2.000
84	84	1	0.5000E-01	0.000	0.000	0.000	2.000
85	85	1	0.5000E-01	0.000	0.000	0.000	2.000
86	86	1	0.5000E-01	0.000	0.000	0.000	2.000
87	87	1	0.5000E-01	0.000	0.000	0.000	2.000
88	88	1	0.5000E-01	0.000	0.000	0.000	2.000
89	89	1	0.5000E-01	0.000	0.000	0.000	2.000
90	90	1	0.5000E-01	0.000	0.000	0.000	2.000
91	91	1	0.5000E-01	0.000	0.000	0.000	2.000
92	92	1	0.5000E-01	0.000	0.000	0.000	2.000
93	93	1	0.5000E-01	0.000	0.000	0.000	2.000
94	94	1	0.5000E-01	0.000	0.000	0.000	2.000
95	95	1	0.5000E-01	0.000	0.000	0.000	2.000
96	96	1	0.5000E-01	0.000	0.000	0.000	2.000
97	97	1	0.5000E-01	0.000	0.000	0.000	2.000
98	98	1	0.5000E-01	0.000	0.000	0.000	2.000
99	99	1	0.5000E-01	0.000	0.000	0.000	2.000
100	100	1	0.5000E-01	0.000	0.000	0.000	2.000
101	101	1	0.5000E-01	0.000	0.000	0.000	2.000
102	102	1	0.5000E-01	0.000	0.000	0.000	2.000
103	103	1	0.5000E-01	0.000	0.000	0.000	2.000
104	104	1	0.5000E-01	0.000	0.000	0.000	2.000
105	105	1	0.5000E-01	0.000	0.000	0.000	2.000
106	106	1	0.5000E-01	0.000	0.000	0.000	2.000
107	107	1	0.5000E-01	0.000	0.000	0.000	2.000
108	108	1	0.5000E-01	0.000	0.000	0.000	2.000
109	109	1	0.5000E-01	0.000	0.000	0.000	2.000
110	110	1	0.5000E-01	0.000	0.000	0.000	2.000
111	111	1	0.5000E-01	0.000	0.000	0.000	2.000
112	112	1	0.5000E-01	0.000	0.000	0.000	2.000
113	113	1	0.5000E-01	0.000	0.000	0.000	2.000
114	114	1	0.5000E-01	0.000	0.000	0.000	2.000
115	115	1	0.5000E-01	0.000	0.000	0.000	2.000
116	116	1	0.5000E-01	0.000	0.000	0.000	2.000
117	117	1	0.5000E-01	0.000	0.000	0.000	2.000
118	118	1	0.5000E-01	0.000	0.000	0.000	2.000
119	119	1	0.5000E-01	0.000	0.000	0.000	2.000
120	120	1	0.5000E-01	0.000	0.000	0.000	2.000
121	121	1	0.5000E-01	0.000	0.000	0.000	2.000
122	122	1	0.5000E-01	0.000	0.000	0.000	2.000
123	123	1	0.5000E-01	0.000	0.000	0.000	2.000
124	124	1	0.5000E-01	0.000	0.000	0.000	2.000
125	125	1	0.5000E-01	0.000	0.000	0.000	2.000
126	126	1	0.5000E-01	0.000	0.000	0.000	2.000



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	27 di 401

RELAZIONE DI CALCOLO

127	127	1	0.5000E-01	0.000	0.000	0.000	2.000
128	128	1	0.5000E-01	0.000	0.000	0.000	2.000
129	129	1	0.5000E-01	0.000	0.000	0.000	2.000
130	130	1	0.5000E-01	0.000	0.000	0.000	2.000
131	131	1	0.5000E-01	0.000	0.000	0.000	2.000
132	132	1	0.5000E-01	0.000	0.000	0.000	2.000
133	133	1	0.5000E-01	0.000	0.000	0.000	2.000
134	134	1	0.5000E-01	0.000	0.000	0.000	2.000
135	135	1	0.5000E-01	0.000	0.000	0.000	2.000
136	136	1	0.5000E-01	0.000	0.000	0.000	2.000
137	137	1	0.5000E-01	0.000	0.000	0.000	2.000
138	138	1	0.5000E-01	0.000	0.000	0.000	2.000
139	139	1	0.5000E-01	0.000	0.000	0.000	2.000
140	140	1	0.5000E-01	0.000	0.000	0.000	2.000
141	141	1	0.5000E-01	0.000	0.000	0.000	2.000
142	142	1	0.5000E-01	0.000	0.000	0.000	2.000
143	143	1	0.5000E-01	0.000	0.000	0.000	2.000
144	144	1	0.5000E-01	0.000	0.000	0.000	2.000
145	145	1	0.5000E-01	0.000	0.000	0.000	2.000
146	146	1	0.5000E-01	0.000	0.000	0.000	2.000
147	147	1	0.5000E-01	0.000	0.000	0.000	2.000
148	148	1	0.5000E-01	0.000	0.000	0.000	2.000
149	149	1	0.5000E-01	0.000	0.000	0.000	2.000
150	150	1	0.5000E-01	0.000	0.000	0.000	2.000
151	151	1	0.5000E-01	0.000	0.000	0.000	2.000
152	152	1	0.5000E-01	0.000	0.000	0.000	2.000
153	153	1	0.5000E-01	0.000	0.000	0.000	2.000
154	154	1	0.5000E-01	0.000	0.000	0.000	2.000
155	155	1	0.5000E-01	0.000	0.000	0.000	2.000
156	156	1	0.5000E-01	0.000	0.000	0.000	2.000
157	157	1	0.5000E-01	0.000	0.000	0.000	2.000
158	158	1	0.5000E-01	0.000	0.000	0.000	2.000
159	159	1	0.5000E-01	0.000	0.000	0.000	2.000
160	160	1	0.5000E-01	0.000	0.000	0.000	2.000
161	161	1	0.5000E-01	0.000	0.000	0.000	2.000
162	162	1	0.5000E-01	0.000	0.000	0.000	2.000
163	163	1	0.5000E-01	0.000	0.000	0.000	2.000
164	164	1	0.5000E-01	0.000	0.000	0.000	2.000
165	165	1	0.5000E-01	0.000	0.000	0.000	2.000
166	166	1	0.5000E-01	0.000	0.000	0.000	2.000
167	167	1	0.5000E-01	0.000	0.000	0.000	2.000
168	168	1	0.5000E-01	0.000	0.000	0.000	2.000
169	169	1	0.5000E-01	0.000	0.000	0.000	2.000
170	170	1	0.5000E-01	0.000	0.000	0.000	2.000
171	171	1	0.5000E-01	0.000	0.000	0.000	2.000
172	172	1	0.5000E-01	0.000	0.000	0.000	2.000
173	173	1	0.5000E-01	0.000	0.000	0.000	2.000
174	174	1	0.5000E-01	0.000	0.000	0.000	2.000
175	175	1	0.5000E-01	0.000	0.000	0.000	2.000
176	176	1	0.5000E-01	0.000	0.000	0.000	2.000
177	177	1	0.5000E-01	0.000	0.000	0.000	2.000
178	178	1	0.5000E-01	0.000	0.000	0.000	2.000
179	179	1	0.5000E-01	0.000	0.000	0.000	2.000
180	180	1	0.5000E-01	0.000	0.000	0.000	2.000
181	181	1	0.5000E-01	0.000	0.000	0.000	2.000
182	182	1	0.5000E-01	0.000	0.000	0.000	2.000
183	183	1	0.5000E-01	0.000	0.000	0.000	2.000
184	184	1	0.5000E-01	0.000	0.000	0.000	2.000
185	185	1	0.5000E-01	0.000	0.000	0.000	2.000
186	186	1	0.5000E-01	0.000	0.000	0.000	2.000
187	187	1	0.5000E-01	0.000	0.000	0.000	2.000
188	188	1	0.5000E-01	0.000	0.000	0.000	2.000
189	189	1	0.5000E-01	0.000	0.000	0.000	2.000
190	190	1	0.5000E-01	0.000	0.000	0.000	2.000
191	191	1	0.5000E-01	0.000	0.000	0.000	2.000
192	192	1	0.5000E-01	0.000	0.000	0.000	2.000
193	193	1	0.5000E-01	0.000	0.000	0.000	2.000
194	194	1	0.5000E-01	0.000	0.000	0.000	2.000
195	195	1	0.5000E-01	0.000	0.000	0.000	2.000
196	196	1	0.5000E-01	0.000	0.000	0.000	2.000
197	197	1	0.5000E-01	0.000	0.000	0.000	2.000
198	198	1	0.5000E-01	0.000	0.000	0.000	2.000
199	199	1	0.5000E-01	0.000	0.000	0.000	2.000
200	200	1	0.4999E-01	0.000	0.000	0.000	2.000
201	201	1	0.2499E-01	0.000	0.000	0.000	2.000



LINEA PESCARA - BARI
RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:
Lotto 1: Ripalta - Lesina
PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	28 di 401

RELAZIONE DI CALCOLO

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_20.Nominal_63
Exe Time :21 June 2016 11:57:44

ELEMENT GROUP NO. 3

WallElement_33 :
2 200 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0

.....2D WALL ELEMENT.....

element group behaviour throughout stage analysis

stage status

1 inactive
2 active
3 active

material set no. 1

prop(1) young modulus 0.210000E+09
prop(2) modification time 0.00000
prop(3) new young modulus 0.00000
prop(4) poisson ratio 0.00000
prop(5) future0.168200E-43

no. of step variable items: 1

step inertia multiplier

1 1.000
2 1.000
3 1.000

element data

el	na	nb	mat	erc1	erc2	thick
1	1	2	1	0.000	0.000	0.1381
2	2	3	1	0.000	0.000	0.1381
3	3	4	1	0.000	0.000	0.1381
4	4	5	1	0.000	0.000	0.1381
5	5	6	1	0.000	0.000	0.1381
6	6	7	1	0.000	0.000	0.1381
7	7	8	1	0.000	0.000	0.1381
8	8	9	1	0.000	0.000	0.1381
9	9	10	1	0.000	0.000	0.1381
10	10	11	1	0.000	0.000	0.1381
11	11	12	1	0.000	0.000	0.1381
12	12	13	1	0.000	0.000	0.1381
13	13	14	1	0.000	0.000	0.1381
14	14	15	1	0.000	0.000	0.1381
15	15	16	1	0.000	0.000	0.1381
16	16	17	1	0.000	0.000	0.1381
17	17	18	1	0.000	0.000	0.1381
18	18	19	1	0.000	0.000	0.1381
19	19	20	1	0.000	0.000	0.1381
20	20	21	1	0.000	0.000	0.1381
21	21	22	1	0.000	0.000	0.1381
22	22	23	1	0.000	0.000	0.1381
23	23	24	1	0.000	0.000	0.1381
24	24	25	1	0.000	0.000	0.1381
25	25	26	1	0.000	0.000	0.1381
26	26	27	1	0.000	0.000	0.1381
27	27	28	1	0.000	0.000	0.1381
28	28	29	1	0.000	0.000	0.1381
29	29	30	1	0.000	0.000	0.1381
30	30	31	1	0.000	0.000	0.1381
31	31	32	1	0.000	0.000	0.1381
32	32	33	1	0.000	0.000	0.1381
33	33	34	1	0.000	0.000	0.1381
34	34	35	1	0.000	0.000	0.1381
35	35	36	1	0.000	0.000	0.1381
36	36	37	1	0.000	0.000	0.1381



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	29 di 401

RELAZIONE DI CALCOLO

37	37	38	1	0.000	0.000	0.1381
38	38	39	1	0.000	0.000	0.1381
39	39	40	1	0.000	0.000	0.1381
40	40	41	1	0.000	0.000	0.1381
41	41	42	1	0.000	0.000	0.1381
42	42	43	1	0.000	0.000	0.1381
43	43	44	1	0.000	0.000	0.1381
44	44	45	1	0.000	0.000	0.1381
45	45	46	1	0.000	0.000	0.1381
46	46	47	1	0.000	0.000	0.1381
47	47	48	1	0.000	0.000	0.1381
48	48	49	1	0.000	0.000	0.1381
49	49	50	1	0.000	0.000	0.1381
50	50	51	1	0.000	0.000	0.1381
51	51	52	1	0.000	0.000	0.1381
52	52	53	1	0.000	0.000	0.1381
53	53	54	1	0.000	0.000	0.1381
54	54	55	1	0.000	0.000	0.1381
55	55	56	1	0.000	0.000	0.1381
56	56	57	1	0.000	0.000	0.1381
57	57	58	1	0.000	0.000	0.1381
58	58	59	1	0.000	0.000	0.1381
59	59	60	1	0.000	0.000	0.1381
60	60	61	1	0.000	0.000	0.1381
61	61	62	1	0.000	0.000	0.1381
62	62	63	1	0.000	0.000	0.1381
63	63	64	1	0.000	0.000	0.1381
64	64	65	1	0.000	0.000	0.1381
65	65	66	1	0.000	0.000	0.1381
66	66	67	1	0.000	0.000	0.1381
67	67	68	1	0.000	0.000	0.1381
68	68	69	1	0.000	0.000	0.1381
69	69	70	1	0.000	0.000	0.1381
70	70	71	1	0.000	0.000	0.1381
71	71	72	1	0.000	0.000	0.1381
72	72	73	1	0.000	0.000	0.1381
73	73	74	1	0.000	0.000	0.1381
74	74	75	1	0.000	0.000	0.1381
75	75	76	1	0.000	0.000	0.1381
76	76	77	1	0.000	0.000	0.1381
77	77	78	1	0.000	0.000	0.1381
78	78	79	1	0.000	0.000	0.1381
79	79	80	1	0.000	0.000	0.1381
80	80	81	1	0.000	0.000	0.1381
81	81	82	1	0.000	0.000	0.1381
82	82	83	1	0.000	0.000	0.1381
83	83	84	1	0.000	0.000	0.1381
84	84	85	1	0.000	0.000	0.1381
85	85	86	1	0.000	0.000	0.1381
86	86	87	1	0.000	0.000	0.1381
87	87	88	1	0.000	0.000	0.1381
88	88	89	1	0.000	0.000	0.1381
89	89	90	1	0.000	0.000	0.1381
90	90	91	1	0.000	0.000	0.1381
91	91	92	1	0.000	0.000	0.1381
92	92	93	1	0.000	0.000	0.1381
93	93	94	1	0.000	0.000	0.1381
94	94	95	1	0.000	0.000	0.1381
95	95	96	1	0.000	0.000	0.1381
96	96	97	1	0.000	0.000	0.1381
97	97	98	1	0.000	0.000	0.1381
98	98	99	1	0.000	0.000	0.1381
99	99	100	1	0.000	0.000	0.1381
100	100	101	1	0.000	0.000	0.1381
101	101	102	1	0.000	0.000	0.1381
102	102	103	1	0.000	0.000	0.1381
103	103	104	1	0.000	0.000	0.1381
104	104	105	1	0.000	0.000	0.1381
105	105	106	1	0.000	0.000	0.1381
106	106	107	1	0.000	0.000	0.1381
107	107	108	1	0.000	0.000	0.1381
108	108	109	1	0.000	0.000	0.1381
109	109	110	1	0.000	0.000	0.1381
110	110	111	1	0.000	0.000	0.1381
111	111	112	1	0.000	0.000	0.1381
112	112	113	1	0.000	0.000	0.1381
113	113	114	1	0.000	0.000	0.1381
114	114	115	1	0.000	0.000	0.1381
115	115	116	1	0.000	0.000	0.1381
116	116	117	1	0.000	0.000	0.1381
117	117	118	1	0.000	0.000	0.1381

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	30 di 401

118	118	119	1	0.000	0.000	0.1381
119	119	120	1	0.000	0.000	0.1381
120	120	121	1	0.000	0.000	0.1381
121	121	122	1	0.000	0.000	0.1381
122	122	123	1	0.000	0.000	0.1381
123	123	124	1	0.000	0.000	0.1381
124	124	125	1	0.000	0.000	0.1381
125	125	126	1	0.000	0.000	0.1381
126	126	127	1	0.000	0.000	0.1381
127	127	128	1	0.000	0.000	0.1381
128	128	129	1	0.000	0.000	0.1381
129	129	130	1	0.000	0.000	0.1381
130	130	131	1	0.000	0.000	0.1381
131	131	132	1	0.000	0.000	0.1381
132	132	133	1	0.000	0.000	0.1381
133	133	134	1	0.000	0.000	0.1381
134	134	135	1	0.000	0.000	0.1381
135	135	136	1	0.000	0.000	0.1381
136	136	137	1	0.000	0.000	0.1381
137	137	138	1	0.000	0.000	0.1381
138	138	139	1	0.000	0.000	0.1381
139	139	140	1	0.000	0.000	0.1381
140	140	141	1	0.000	0.000	0.1381
141	141	142	1	0.000	0.000	0.1381
142	142	143	1	0.000	0.000	0.1381
143	143	144	1	0.000	0.000	0.1381
144	144	145	1	0.000	0.000	0.1381
145	145	146	1	0.000	0.000	0.1381
146	146	147	1	0.000	0.000	0.1381
147	147	148	1	0.000	0.000	0.1381
148	148	149	1	0.000	0.000	0.1381
149	149	150	1	0.000	0.000	0.1381
150	150	151	1	0.000	0.000	0.1381
151	151	152	1	0.000	0.000	0.1381
152	152	153	1	0.000	0.000	0.1381
153	153	154	1	0.000	0.000	0.1381
154	154	155	1	0.000	0.000	0.1381
155	155	156	1	0.000	0.000	0.1381
156	156	157	1	0.000	0.000	0.1381
157	157	158	1	0.000	0.000	0.1381
158	158	159	1	0.000	0.000	0.1381
159	159	160	1	0.000	0.000	0.1381
160	160	161	1	0.000	0.000	0.1381
161	161	162	1	0.000	0.000	0.1381
162	162	163	1	0.000	0.000	0.1381
163	163	164	1	0.000	0.000	0.1381
164	164	165	1	0.000	0.000	0.1381
165	165	166	1	0.000	0.000	0.1381
166	166	167	1	0.000	0.000	0.1381
167	167	168	1	0.000	0.000	0.1381
168	168	169	1	0.000	0.000	0.1381
169	169	170	1	0.000	0.000	0.1381
170	170	171	1	0.000	0.000	0.1381
171	171	172	1	0.000	0.000	0.1381
172	172	173	1	0.000	0.000	0.1381
173	173	174	1	0.000	0.000	0.1381
174	174	175	1	0.000	0.000	0.1381
175	175	176	1	0.000	0.000	0.1381
176	176	177	1	0.000	0.000	0.1381
177	177	178	1	0.000	0.000	0.1381
178	178	179	1	0.000	0.000	0.1381
179	179	180	1	0.000	0.000	0.1381
180	180	181	1	0.000	0.000	0.1381
181	181	182	1	0.000	0.000	0.1381
182	182	183	1	0.000	0.000	0.1381
183	183	184	1	0.000	0.000	0.1381
184	184	185	1	0.000	0.000	0.1381
185	185	186	1	0.000	0.000	0.1381
186	186	187	1	0.000	0.000	0.1381
187	187	188	1	0.000	0.000	0.1381
188	188	189	1	0.000	0.000	0.1381
189	189	190	1	0.000	0.000	0.1381
190	190	191	1	0.000	0.000	0.1381
191	191	192	1	0.000	0.000	0.1381
192	192	193	1	0.000	0.000	0.1381
193	193	194	1	0.000	0.000	0.1381
194	194	195	1	0.000	0.000	0.1381
195	195	196	1	0.000	0.000	0.1381
196	196	197	1	0.000	0.000	0.1381
197	197	198	1	0.000	0.000	0.1381
198	198	199	1	0.000	0.000	0.1381



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	31 di 401

RELAZIONE DI CALCOLO

199	199	200	1	0.000	0.000	0.1381
200	200	201	1	0.000	0.000	0.1381

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.Nominal_63
Exe Time :21 June 2016 11:57:44

NO. OF NODAL LOADS (NLOAD) 0
NO. OF LOAD CURVES (NLCUR) 6
MAXIMUM POINTS/LCURVE (NPTM) 5

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.Nominal_63
Exe Time :21 June 2016 11:57:44

L O A D D A T A

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
4.00000	0.1000E+01



LINEA PESCARA - BARI
 RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:
 Lotto 1: Ripalta - Lesina
 PROGETTO DEFINITIVO

OPERE PROVVISORIALI
 RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	32 di 401

LOAD FUNCTION NUMBER = 5
 NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
 NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
4.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

+-----+
| PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016* |
|                                                                                   |
| paratia_mario.BaseDesignSection_28.Nominal_63 |
| Exe Time :21 June 2016 11:57:44 |
+-----+

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L O A D B A L A N C E

STEP	1	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	1	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	2	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	2	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	3	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	3	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

```

+-----+
| PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016* |
|                                                                                   |
| paratia_mario.BaseDesignSection_28.Nominal_63 |
| Exe Time :21 June 2016 11:57:44 |
+-----+

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NO. OF LAYERS 1
 NO. OF DATA PER LAYER..... 100

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+-----+
| PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016* |
|                                                                                   |
| paratia_mario.BaseDesignSection_28.Nominal_63 |
| Exe Time :21 June 2016 11:57:44 |
+-----+

```

LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO. 1<NAME >= 10.000 (BOTH WALLS)



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	33 di 401

RELAZIONE DI CALCOLO

ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.0000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.0000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 10.0000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 25.0000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.40600	WALL NO.	1
ITEM NO.	11<U-KP	>= 3.3960	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 10.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 25.0000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.40600	WALL NO.	1
ITEM NO.	61<D-KP	>= 3.3960	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-07	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 2

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 2

ITEM NO.	1<NAME	>= 10.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.0000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.0000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 10.0000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 25.0000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.40600	WALL NO.	1
ITEM NO.	11<U-KP	>= 3.3960	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 10.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 25.0000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.40600	WALL NO.	1
ITEM NO.	61<D-KP	>= 3.3960	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-07	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 3

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO.	1<NAME	>= 10.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.0000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.0000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 10.0000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 25.0000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.40600	WALL NO.	1
ITEM NO.	11<U-KP	>= 3.3960	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	34 di 401

RELAZIONE DI CALCOLO

ITEM NO.	58<D-COHE	>= 10.000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 25.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.40600	WALL NO.	1
ITEM NO.	61<D-KP	>= 3.3960	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-07	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 3 VALUES

 PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.Nominal_63
 Exe Time :21 June 2016 11:57:44

PHASE DESCRIPTORS

STEP NO. 1

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	0.000	0.000
Z-WATER TABLE	-4.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-10.00	-10.00
WATER BEHAVIOUR FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_gh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

-----end of step 1

STEP NO. 2

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	0.000	0.000
Z-WATER TABLE	-4.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	57.00	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-10.00	-10.00
WATER BEHAVIOUR FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	35 di 401

RELAZIONE DI CALCOLO

Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

====end of step 2

STEP NO. 3

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-3.200	0.000
Z-WATER TABLE	-4.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	57.00	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-10.00	-10.00
WATER BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB_FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

====end of step 3

LEFT-HAND WALL

LOWER LEVEL	-10.00000
UPPER LEVEL	0.00000

RIGHT-HAND WALL

LOWER LEVEL	-10.00000
UPPER LEVEL	0.00000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT POSITION 3748

NO. OF D.P.W FOR THIS AREA	18840
MAX NO. OF D.P.W. AVAILABLE	81920
** MAX NO OF ITERATIONS SET TO	40

ITER	0	RNORM = 0.000	RMNORM= 0.000		
		RINORM= 5652.	RIMNOR= 0.000		
		RENORM= 0.000	REMNOR= 0.000	RATIO = 0.000	TOLER =0.1000E-03
		REMAX = 6.817	RMMAX = 0.000		CONVERGED !



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100.004	A	36 di 401

RTSMAL=0.1000E-04 RMSMAL= 0.000
 RDT = 5652. RDR = 0.000
 RATIOT= 0.000 RATOR= 0.000
 MAX UN= 0.000 IEQ= 402 NODE 201 DOF 2 X-ROT. F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5652. RIMNOR= 0.000
 RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 6.817 RMMAX = 0.000
 RTSMAL=0.1000E-04 RMSMAL= 0.000
 RDT = 5652. RDR = 0.000
 RATIOT= 0.000 RATOR= 0.000
 MAX UN= 0.000 IEQ= 402 NODE 201 DOF 2 X-ROT. F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5652. RIMNOR= 0.000
 RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 6.817 RMMAX = 0.000
 RTSMAL=0.1000E-04 RMSMAL= 0.000
 RDT = 5652. RDR = 0.000
 RATIOT= 0.000 RATOR= 0.000
 MAX UN= 0.000 IEQ= 402 NODE 201 DOF 2 X-ROT. F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*
|
|          paratia_mario.BaseDesignSection_28.Nominal_63
|          Exe Time :21 June 2016      11:57:44
+-----+

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paratia_mario
 SOLUTION REACHED USING 2 ITERATIONS ON 40
 PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)
 PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)
 Y-DISPL.F X-ROT. F
 (02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*
|
|          paratia_mario.BaseDesignSection_28.Nominal_63
|          Exe Time :21 June 2016      11:57:44
+-----+

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paratia_mario
 STRESS RESULTS FOR GROUP NO. 1
 Q.L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
 CURRENT TIME IS 1.0000
 HARDENING 2D SOIL ELEMENT
 ***** TOTAL STRESS FORMULATION *****
 EL * FORCE DISPL-Y VERTICAL-P HORIZON.-P MAX-V-P MAX-H-P STATE STIFFNESS Z-LEVEL PORE E FACTOR
 UFACTOR Peq Su_a Su_p LAYER

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	V10100 004	A	37 di 401

RELAZIONE DI CALCOLO

1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.9432E+05	0.000	0.000	1.000
1.000	0.000	0.000	0.000	5AL_158_160_L_0							
2 D	2.8182E-02	0.000	0.9500	0.5636	0.9500	0.5636	V-C	2.9432E+05	-5.0000E-02	0.000	1.000
1.000	0.5636	0.000	0.000	5AL_158_160_L_0							
3 D	5.6364E-02	0.000	1.900	1.127	1.900	1.127	V-C	2.9432E+05	-0.1000	0.000	1.000
1.000	1.127	0.000	0.000	5AL_158_160_L_0							
4 D	8.4545E-02	0.000	2.850	1.691	2.850	1.691	V-C	2.9432E+05	-0.1500	0.000	1.000
1.000	1.691	0.000	0.000	5AL_158_160_L_0							
5 D	0.1127	0.000	3.800	2.255	3.800	2.255	V-C	2.9432E+05	-0.2000	0.000	1.000
1.000	2.255	0.000	0.000	5AL_158_160_L_0							
6 D	0.1409	0.000	4.750	2.818	4.750	2.818	V-C	2.9432E+05	-0.2500	0.000	1.000
1.000	2.818	0.000	0.000	5AL_158_160_L_0							
7 D	0.1691	0.000	5.700	3.382	5.700	3.382	V-C	2.9432E+05	-0.3000	0.000	1.000
1.000	3.382	0.000	0.000	5AL_158_160_L_0							
8 D	0.1973	0.000	6.650	3.945	6.650	3.945	V-C	2.9432E+05	-0.3500	0.000	1.000
1.000	3.945	0.000	0.000	5AL_158_160_L_0							
9 D	0.2255	0.000	7.600	4.509	7.600	4.509	V-C	2.9432E+05	-0.4000	0.000	1.000
1.000	4.509	0.000	0.000	5AL_158_160_L_0							
10 D	0.2536	0.000	8.550	5.073	8.550	5.073	V-C	2.9432E+05	-0.4500	0.000	1.000
1.000	5.073	0.000	0.000	5AL_158_160_L_0							
11 D	0.2818	0.000	9.500	5.636	9.500	5.636	V-C	2.9432E+05	-0.5000	0.000	1.000
1.000	5.636	0.000	0.000	5AL_158_160_L_0							
12 D	0.3100	0.000	10.45	6.200	10.45	6.200	V-C	2.9432E+05	-0.5500	0.000	1.000
1.000	6.200	0.000	0.000	5AL_158_160_L_0							
13 D	0.3382	0.000	11.40	6.764	11.40	6.764	V-C	2.9432E+05	-0.6000	0.000	1.000
1.000	6.764	0.000	0.000	5AL_158_160_L_0							
14 D	0.3664	0.000	12.35	7.327	12.35	7.327	V-C	2.9432E+05	-0.6500	0.000	1.000
1.000	7.327	0.000	0.000	5AL_158_160_L_0							
15 D	0.3945	0.000	13.30	7.891	13.30	7.891	V-C	2.9432E+05	-0.7000	0.000	1.000
1.000	7.891	0.000	0.000	5AL_158_160_L_0							
16 D	0.4227	0.000	14.25	8.455	14.25	8.455	V-C	2.9432E+05	-0.7500	0.000	1.000
1.000	8.455	0.000	0.000	5AL_158_160_L_0							
17 D	0.4509	0.000	15.20	9.018	15.20	9.018	V-C	2.9432E+05	-0.8000	0.000	1.000
1.000	9.018	0.000	0.000	5AL_158_160_L_0							
18 D	0.4791	0.000	16.15	9.582	16.15	9.582	V-C	2.9432E+05	-0.8500	0.000	1.000
1.000	9.582	0.000	0.000	5AL_158_160_L_0							
19 D	0.5073	0.000	17.10	10.15	17.10	10.15	V-C	2.9432E+05	-0.9000	0.000	1.000
1.000	10.15	0.000	0.000	5AL_158_160_L_0							
20 D	0.5355	0.000	18.05	10.71	18.05	10.71	V-C	2.9432E+05	-0.9500	0.000	1.000
1.000	10.71	0.000	0.000	5AL_158_160_L_0							
21 D	0.5636	0.000	19.00	11.27	19.00	11.27	V-C	2.9432E+05	-1.000	0.000	1.000
1.000	11.27	0.000	0.000	5AL_158_160_L_0							
22 D	0.5918	0.000	19.95	11.84	19.95	11.84	V-C	2.9432E+05	-1.050	0.000	1.000
1.000	11.84	0.000	0.000	5AL_158_160_L_0							
23 D	0.6200	0.000	20.90	12.40	20.90	12.40	V-C	2.9432E+05	-1.100	0.000	1.000
1.000	12.40	0.000	0.000	5AL_158_160_L_0							
24 D	0.6482	0.000	21.85	12.96	21.85	12.96	V-C	2.9432E+05	-1.150	0.000	1.000
1.000	12.96	0.000	0.000	5AL_158_160_L_0							
25 D	0.6764	0.000	22.80	13.53	22.80	13.53	V-C	2.9432E+05	-1.200	0.000	1.000
1.000	13.53	0.000	0.000	5AL_158_160_L_0							
26 D	0.7045	0.000	23.75	14.09	23.75	14.09	V-C	2.9432E+05	-1.250	0.000	1.000
1.000	14.09	0.000	0.000	5AL_158_160_L_0							
27 D	0.7327	0.000	24.70	14.65	24.70	14.65	V-C	2.9432E+05	-1.300	0.000	1.000
1.000	14.65	0.000	0.000	5AL_158_160_L_0							
28 D	0.7609	0.000	25.65	15.22	25.65	15.22	V-C	2.9432E+05	-1.350	0.000	1.000
1.000	15.22	0.000	0.000	5AL_158_160_L_0							
29 D	0.7891	0.000	26.60	15.78	26.60	15.78	V-C	2.9432E+05	-1.400	0.000	1.000
1.000	15.78	0.000	0.000	5AL_158_160_L_0							
30 D	0.8173	0.000	27.55	16.35	27.55	16.35	V-C	2.9432E+05	-1.450	0.000	1.000
1.000	16.35	0.000	0.000	5AL_158_160_L_0							
31 D	0.8455	0.000	28.50	16.91	28.50	16.91	V-C	2.9432E+05	-1.500	0.000	1.000
1.000	16.91	0.000	0.000	5AL_158_160_L_0							
32 D	0.8736	0.000	29.45	17.47	29.45	17.47	V-C	2.9432E+05	-1.550	0.000	1.000
1.000	17.47	0.000	0.000	5AL_158_160_L_0							
33 D	0.9018	0.000	30.40	18.04	30.40	18.04	V-C	2.9432E+05	-1.600	0.000	1.000
1.000	18.04	0.000	0.000	5AL_158_160_L_0							
34 D	0.9300	0.000	31.35	18.60	31.35	18.60	V-C	2.9432E+05	-1.650	0.000	1.000
1.000	18.60	0.000	0.000	5AL_158_160_L_0							
35 D	0.9582	0.000	32.30	19.16	32.30	19.16	V-C	2.9432E+05	-1.700	0.000	1.000
1.000	19.16	0.000	0.000	5AL_158_160_L_0							
36 D	0.9864	0.000	33.25	19.73	33.25	19.73	V-C	2.9432E+05	-1.750	0.000	1.000
1.000	19.73	0.000	0.000	5AL_158_160_L_0							
37 D	1.015	0.000	34.20	20.29	34.20	20.29	V-C	2.9432E+05	-1.800	0.000	1.000
1.000	20.29	0.000	0.000	5AL_158_160_L_0							
38 D	1.043	0.000	35.15	20.85	35.15	20.85	V-C	2.9432E+05	-1.850	0.000	1.000
1.000	20.85	0.000	0.000	5AL_158_160_L_0							
39 D	1.071	0.000	36.10	21.42	36.10	21.42	V-C	2.9432E+05	-1.900	0.000	1.000
1.000	21.42	0.000	0.000	5AL_158_160_L_0							
40 D	1.099	0.000	37.05	21.98	37.05	21.98	V-C	2.9432E+05	-1.950	0.000	1.000
1.000	21.98	0.000	0.000	5AL_158_160_L_0							
41 D	1.127	0.000	38.00	22.55	38.00	22.55	V-C	2.9432E+05	-2.000	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100.004	A	38 di 401

1.000	22.55	0.000	0.000	5AL_158_160_L_0							
42 D	1.155	0.000	38.95	23.11	38.95	23.11	V-C	2.9432E+05	-2.050	0.000	1.000
1.000	23.11	0.000	0.000	5AL_158_160_L_0							
43 D	1.184	0.000	39.90	23.67	39.90	23.67	V-C	2.9432E+05	-2.100	0.000	1.000
1.000	23.67	0.000	0.000	5AL_158_160_L_0							
44 D	1.212	0.000	40.85	24.24	40.85	24.24	V-C	2.9432E+05	-2.150	0.000	1.000
1.000	24.24	0.000	0.000	5AL_158_160_L_0							
45 D	1.240	0.000	41.80	24.80	41.80	24.80	V-C	2.9432E+05	-2.200	0.000	1.000
1.000	24.80	0.000	0.000	5AL_158_160_L_0							
46 D	1.268	0.000	42.75	25.36	42.75	25.36	V-C	2.9432E+05	-2.250	0.000	1.000
1.000	25.36	0.000	0.000	5AL_158_160_L_0							
47 D	1.296	0.000	43.70	25.93	43.70	25.93	V-C	2.9432E+05	-2.300	0.000	1.000
1.000	25.93	0.000	0.000	5AL_158_160_L_0							
48 D	1.325	0.000	44.65	26.49	44.65	26.49	V-C	2.9432E+05	-2.350	0.000	1.000
1.000	26.49	0.000	0.000	5AL_158_160_L_0							
49 D	1.353	0.000	45.60	27.05	45.60	27.05	V-C	2.9432E+05	-2.400	0.000	1.000
1.000	27.05	0.000	0.000	5AL_158_160_L_0							
50 D	1.381	0.000	46.55	27.62	46.55	27.62	V-C	2.9432E+05	-2.450	0.000	1.000
1.000	27.62	0.000	0.000	5AL_158_160_L_0							
51 D	1.409	0.000	47.50	28.18	47.50	28.18	V-C	2.9432E+05	-2.500	0.000	1.000
1.000	28.18	0.000	0.000	5AL_158_160_L_0							
52 D	1.437	0.000	48.45	28.75	48.45	28.75	V-C	2.9432E+05	-2.550	0.000	1.000
1.000	28.75	0.000	0.000	5AL_158_160_L_0							
53 D	1.465	0.000	49.40	29.31	49.40	29.31	V-C	2.9432E+05	-2.600	0.000	1.000
1.000	29.31	0.000	0.000	5AL_158_160_L_0							
54 D	1.494	0.000	50.35	29.87	50.35	29.87	V-C	2.9432E+05	-2.650	0.000	1.000
1.000	29.87	0.000	0.000	5AL_158_160_L_0							
55 D	1.522	0.000	51.30	30.44	51.30	30.44	V-C	2.9432E+05	-2.700	0.000	1.000
1.000	30.44	0.000	0.000	5AL_158_160_L_0							
56 D	1.550	0.000	52.25	31.00	52.25	31.00	V-C	2.9432E+05	-2.750	0.000	1.000
1.000	31.00	0.000	0.000	5AL_158_160_L_0							
57 D	1.578	0.000	53.20	31.56	53.20	31.56	V-C	2.9432E+05	-2.800	0.000	1.000
1.000	31.56	0.000	0.000	5AL_158_160_L_0							
58 D	1.606	0.000	54.15	32.13	54.15	32.13	V-C	2.9432E+05	-2.850	0.000	1.000
1.000	32.13	0.000	0.000	5AL_158_160_L_0							
59 D	1.635	0.000	55.10	32.69	55.10	32.69	V-C	2.9432E+05	-2.900	0.000	1.000
1.000	32.69	0.000	0.000	5AL_158_160_L_0							
60 D	1.663	0.000	56.05	33.25	56.05	33.25	V-C	2.9432E+05	-2.950	0.000	1.000
1.000	33.25	0.000	0.000	5AL_158_160_L_0							
61 D	1.691	0.000	57.00	33.82	57.00	33.82	V-C	2.9432E+05	-3.000	0.000	1.000
1.000	33.82	0.000	0.000	5AL_158_160_L_0							
62 D	1.719	0.000	57.95	34.38	57.95	34.38	V-C	2.9432E+05	-3.050	0.000	1.000
1.000	34.38	0.000	0.000	5AL_158_160_L_0							
63 D	1.747	0.000	58.90	34.95	58.90	34.95	V-C	2.9432E+05	-3.100	0.000	1.000
1.000	34.95	0.000	0.000	5AL_158_160_L_0							
64 D	1.775	0.000	59.85	35.51	59.85	35.51	V-C	2.9432E+05	-3.150	0.000	1.000
1.000	35.51	0.000	0.000	5AL_158_160_L_0							
65 D	1.804	0.000	60.80	36.07	60.80	36.07	V-C	2.9432E+05	-3.200	0.000	1.000
1.000	36.07	0.000	0.000	5AL_158_160_L_0							
66 D	1.832	0.000	61.75	36.64	61.75	36.64	V-C	2.9432E+05	-3.250	0.000	1.000
1.000	36.64	0.000	0.000	5AL_158_160_L_0							
67 D	1.860	0.000	62.70	37.20	62.70	37.20	V-C	2.9432E+05	-3.300	0.000	1.000
1.000	37.20	0.000	0.000	5AL_158_160_L_0							
68 D	1.888	0.000	63.65	37.76	63.65	37.76	V-C	2.9432E+05	-3.350	0.000	1.000
1.000	37.76	0.000	0.000	5AL_158_160_L_0							
69 D	1.916	0.000	64.60	38.33	64.60	38.33	V-C	2.9432E+05	-3.400	0.000	1.000
1.000	38.33	0.000	0.000	5AL_158_160_L_0							
70 D	1.945	0.000	65.55	38.89	65.55	38.89	V-C	2.9432E+05	-3.450	0.000	1.000
1.000	38.89	0.000	0.000	5AL_158_160_L_0							
71 D	1.973	0.000	66.50	39.45	66.50	39.45	V-C	2.9432E+05	-3.500	0.000	1.000
1.000	39.45	0.000	0.000	5AL_158_160_L_0							
72 D	2.001	0.000	67.45	40.02	67.45	40.02	V-C	2.9432E+05	-3.550	0.000	1.000
1.000	40.02	0.000	0.000	5AL_158_160_L_0							
73 D	2.029	0.000	68.40	40.58	68.40	40.58	V-C	2.9432E+05	-3.600	0.000	1.000
1.000	40.58	0.000	0.000	5AL_158_160_L_0							
74 D	2.057	0.000	69.35	41.15	69.35	41.15	V-C	2.9432E+05	-3.650	0.000	1.000
1.000	41.15	0.000	0.000	5AL_158_160_L_0							
75 D	2.085	0.000	70.30	41.71	70.30	41.71	V-C	2.9432E+05	-3.700	0.000	1.000
1.000	41.71	0.000	0.000	5AL_158_160_L_0							
76 D	2.114	0.000	71.25	42.27	71.25	42.27	V-C	2.9432E+05	-3.750	0.000	1.000
1.000	42.27	0.000	0.000	5AL_158_160_L_0							
77 D	2.142	0.000	72.20	42.84	72.20	42.84	V-C	2.9432E+05	-3.800	0.000	1.000
1.000	42.84	0.000	0.000	5AL_158_160_L_0							
78 D	2.170	0.000	73.15	43.40	73.15	43.40	V-C	2.9432E+05	-3.850	0.000	1.000
1.000	43.40	0.000	0.000	5AL_158_160_L_0							
79 D	2.198	0.000	74.10	43.96	74.10	43.96	V-C	2.9432E+05	-3.900	0.000	1.000
1.000	43.96	0.000	0.000	5AL_158_160_L_0							
80 D	2.226	0.000	75.05	44.53	75.05	44.53	V-C	2.9432E+05	-3.950	0.000	1.000
1.000	44.53	0.000	0.000	5AL_158_160_L_0							
81 D	2.255	0.000	76.00	45.09	76.00	45.09	V-C	2.9432E+05	-4.000	0.000	1.000
1.000	45.09	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	39 di 401

RELAZIONE DI CALCOLO

82 D	2.293	0.000	76.45	45.36	76.45	45.36	V-C	2.9432E+05	-4.050	0.5000	1.000
1.000	45.86	0.000	0.000	5AL_158_160_L_0							
83 D	2.331	0.000	76.90	45.62	76.90	45.62	V-C	2.9432E+05	-4.100	1.000	1.000
1.000	46.62	0.000	0.000	5AL_158_160_L_0							
84 D	2.370	0.000	77.35	45.89	77.35	45.89	V-C	2.9432E+05	-4.150	1.500	1.000
1.000	47.39	0.000	0.000	5AL_158_160_L_0							
85 D	2.408	0.000	77.80	46.16	77.80	46.16	V-C	2.9432E+05	-4.200	2.000	1.000
1.000	48.16	0.000	0.000	5AL_158_160_L_0							
86 D	2.446	0.000	78.25	46.43	78.25	46.43	V-C	2.9432E+05	-4.250	2.500	1.000
1.000	48.93	0.000	0.000	5AL_158_160_L_0							
87 D	2.485	0.000	78.70	46.69	78.70	46.69	V-C	2.9432E+05	-4.300	3.000	1.000
1.000	49.69	0.000	0.000	5AL_158_160_L_0							
88 D	2.523	0.000	79.15	46.96	79.15	46.96	V-C	2.9432E+05	-4.350	3.500	1.000
1.000	50.46	0.000	0.000	5AL_158_160_L_0							
89 D	2.561	0.000	79.60	47.23	79.60	47.23	V-C	2.9432E+05	-4.400	4.000	1.000
1.000	51.23	0.000	0.000	5AL_158_160_L_0							
90 D	2.600	0.000	80.05	47.49	80.05	47.49	V-C	2.9432E+05	-4.450	4.500	1.000
1.000	51.99	0.000	0.000	5AL_158_160_L_0							
91 D	2.638	0.000	80.50	47.76	80.50	47.76	V-C	2.9432E+05	-4.500	5.000	1.000
1.000	52.76	0.000	0.000	5AL_158_160_L_0							
92 D	2.676	0.000	80.95	48.03	80.95	48.03	V-C	2.9432E+05	-4.550	5.500	1.000
1.000	53.53	0.000	0.000	5AL_158_160_L_0							
93 D	2.715	0.000	81.40	48.29	81.40	48.29	V-C	2.9432E+05	-4.600	6.000	1.000
1.000	54.29	0.000	0.000	5AL_158_160_L_0							
94 D	2.753	0.000	81.85	48.56	81.85	48.56	V-C	2.9432E+05	-4.650	6.500	1.000
1.000	55.06	0.000	0.000	5AL_158_160_L_0							
95 D	2.791	0.000	82.30	48.83	82.30	48.83	V-C	2.9432E+05	-4.700	7.000	1.000
1.000	55.83	0.000	0.000	5AL_158_160_L_0							
96 D	2.830	0.000	82.75	49.10	82.75	49.10	V-C	2.9432E+05	-4.750	7.500	1.000
1.000	56.60	0.000	0.000	5AL_158_160_L_0							
97 D	2.868	0.000	83.20	49.36	83.20	49.36	V-C	2.9432E+05	-4.800	8.000	1.000
1.000	57.36	0.000	0.000	5AL_158_160_L_0							
98 D	2.906	0.000	83.65	49.63	83.65	49.63	V-C	2.9432E+05	-4.850	8.500	1.000
1.000	58.13	0.000	0.000	5AL_158_160_L_0							
99 D	2.945	0.000	84.10	49.90	84.10	49.90	V-C	2.9432E+05	-4.900	9.000	1.000
1.000	58.90	0.000	0.000	5AL_158_160_L_0							
100 D	2.983	0.000	84.55	50.16	84.55	50.16	V-C	2.9432E+05	-4.950	9.500	1.000
1.000	59.66	0.000	0.000	5AL_158_160_L_0							
101 D	3.022	0.000	85.00	50.43	85.00	50.43	V-C	2.9432E+05	-5.000	10.00	1.000
1.000	60.43	0.000	0.000	5AL_158_160_L_0							
102 D	3.060	0.000	85.45	50.70	85.45	50.70	V-C	2.9432E+05	-5.050	10.50	1.000
1.000	61.20	0.000	0.000	5AL_158_160_L_0							
103 D	3.098	0.000	85.90	50.96	85.90	50.96	V-C	2.9432E+05	-5.100	11.00	1.000
1.000	61.96	0.000	0.000	5AL_158_160_L_0							
104 D	3.137	0.000	86.35	51.23	86.35	51.23	V-C	2.9432E+05	-5.150	11.50	1.000
1.000	62.73	0.000	0.000	5AL_158_160_L_0							
105 D	3.175	0.000	86.80	51.50	86.80	51.50	V-C	2.9432E+05	-5.200	12.00	1.000
1.000	63.50	0.000	0.000	5AL_158_160_L_0							
106 D	3.213	0.000	87.25	51.77	87.25	51.77	V-C	2.9432E+05	-5.250	12.50	1.000
1.000	64.27	0.000	0.000	5AL_158_160_L_0							
107 D	3.252	0.000	87.70	52.03	87.70	52.03	V-C	2.9432E+05	-5.300	13.00	1.000
1.000	65.03	0.000	0.000	5AL_158_160_L_0							
108 D	3.290	0.000	88.15	52.30	88.15	52.30	V-C	2.9432E+05	-5.350	13.50	1.000
1.000	65.80	0.000	0.000	5AL_158_160_L_0							
109 D	3.328	0.000	88.60	52.57	88.60	52.57	V-C	2.9432E+05	-5.400	14.00	1.000
1.000	66.57	0.000	0.000	5AL_158_160_L_0							
110 D	3.367	0.000	89.05	52.83	89.05	52.83	V-C	2.9432E+05	-5.450	14.50	1.000
1.000	67.33	0.000	0.000	5AL_158_160_L_0							
111 D	3.405	0.000	89.50	53.10	89.50	53.10	V-C	2.9432E+05	-5.500	15.00	1.000
1.000	68.10	0.000	0.000	5AL_158_160_L_0							
112 D	3.443	0.000	89.95	53.37	89.95	53.37	V-C	2.9432E+05	-5.550	15.50	1.000
1.000	68.87	0.000	0.000	5AL_158_160_L_0							
113 D	3.482	0.000	90.40	53.63	90.40	53.63	V-C	2.9432E+05	-5.600	16.00	1.000
1.000	69.63	0.000	0.000	5AL_158_160_L_0							
114 D	3.520	0.000	90.85	53.90	90.85	53.90	V-C	2.9432E+05	-5.650	16.50	1.000
1.000	70.40	0.000	0.000	5AL_158_160_L_0							
115 D	3.558	0.000	91.30	54.17	91.30	54.17	V-C	2.9432E+05	-5.700	17.00	1.000
1.000	71.17	0.000	0.000	5AL_158_160_L_0							
116 D	3.597	0.000	91.75	54.44	91.75	54.44	V-C	2.9432E+05	-5.750	17.50	1.000
1.000	71.94	0.000	0.000	5AL_158_160_L_0							
117 D	3.635	0.000	92.20	54.70	92.20	54.70	V-C	2.9432E+05	-5.800	18.00	1.000
1.000	72.70	0.000	0.000	5AL_158_160_L_0							
118 D	3.673	0.000	92.65	54.97	92.65	54.97	V-C	2.9432E+05	-5.850	18.50	1.000
1.000	73.47	0.000	0.000	5AL_158_160_L_0							
119 D	3.712	0.000	93.10	55.24	93.10	55.24	V-C	2.9432E+05	-5.900	19.00	1.000
1.000	74.24	0.000	0.000	5AL_158_160_L_0							
120 D	3.750	0.000	93.55	55.50	93.55	55.50	V-C	2.9432E+05	-5.950	19.50	1.000
1.000	75.00	0.000	0.000	5AL_158_160_L_0							
121 D	3.789	0.000	94.00	55.77	94.00	55.77	V-C	2.9432E+05	-6.000	20.00	1.000
1.000	75.77	0.000	0.000	5AL_158_160_L_0							
122 D	3.827	0.000	94.45	56.04	94.45	56.04	V-C	2.9432E+05	-6.050	20.50	1.000

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	40 di 401

RELAZIONE DI CALCOLO

1.000	76.54	0.000	0.000	SAL_158_160_L_0							
123 D	3.865	0.000	94.90	56.30	94.90	56.30	V-C	2.9432E+05	-6.100	21.00	1.000
1.000	77.30	0.000	0.000	SAL_158_160_L_0							
124 D	3.904	0.000	95.35	56.57	95.35	56.57	V-C	2.9432E+05	-6.150	21.50	1.000
1.000	78.07	0.000	0.000	SAL_158_160_L_0							
125 D	3.942	0.000	95.80	56.84	95.80	56.84	V-C	2.9432E+05	-6.200	22.00	1.000
1.000	78.84	0.000	0.000	SAL_158_160_L_0							
126 D	3.980	0.000	96.25	57.11	96.25	57.11	V-C	2.9432E+05	-6.250	22.50	1.000
1.000	79.61	0.000	0.000	SAL_158_160_L_0							
127 D	4.019	0.000	96.70	57.37	96.70	57.37	V-C	2.9432E+05	-6.300	23.00	1.000
1.000	80.37	0.000	0.000	SAL_158_160_L_0							
128 D	4.057	0.000	97.15	57.64	97.15	57.64	V-C	2.9432E+05	-6.350	23.50	1.000
1.000	81.14	0.000	0.000	SAL_158_160_L_0							
129 D	4.095	0.000	97.60	57.91	97.60	57.91	V-C	2.9432E+05	-6.400	24.00	1.000
1.000	81.91	0.000	0.000	SAL_158_160_L_0							
130 D	4.134	0.000	98.05	58.17	98.05	58.17	V-C	2.9432E+05	-6.450	24.50	1.000
1.000	82.67	0.000	0.000	SAL_158_160_L_0							
131 D	4.172	0.000	98.50	58.44	98.50	58.44	V-C	2.9432E+05	-6.500	25.00	1.000
1.000	83.44	0.000	0.000	SAL_158_160_L_0							
132 D	4.210	0.000	98.95	58.71	98.95	58.71	V-C	2.9432E+05	-6.550	25.50	1.000
1.000	84.21	0.000	0.000	SAL_158_160_L_0							
133 D	4.249	0.000	99.40	58.97	99.40	58.97	V-C	2.9432E+05	-6.600	26.00	1.000
1.000	84.97	0.000	0.000	SAL_158_160_L_0							
134 D	4.287	0.000	99.85	59.24	99.85	59.24	V-C	2.9432E+05	-6.650	26.50	1.000
1.000	85.74	0.000	0.000	SAL_158_160_L_0							
135 D	4.325	0.000	100.3	59.51	100.3	59.51	V-C	2.9432E+05	-6.700	27.00	1.000
1.000	86.51	0.000	0.000	SAL_158_160_L_0							
136 D	4.364	0.000	100.8	59.78	100.8	59.78	V-C	2.9432E+05	-6.750	27.50	1.000
1.000	87.28	0.000	0.000	SAL_158_160_L_0							
137 D	4.402	0.000	101.2	60.04	101.2	60.04	V-C	2.9432E+05	-6.800	28.00	1.000
1.000	88.04	0.000	0.000	SAL_158_160_L_0							
138 D	4.440	0.000	101.7	60.31	101.7	60.31	V-C	2.9432E+05	-6.850	28.50	1.000
1.000	88.81	0.000	0.000	SAL_158_160_L_0							
139 D	4.479	0.000	102.1	60.58	102.1	60.58	V-C	2.9432E+05	-6.900	29.00	1.000
1.000	89.58	0.000	0.000	SAL_158_160_L_0							
140 D	4.517	0.000	102.6	60.84	102.6	60.84	V-C	2.9432E+05	-6.950	29.50	1.000
1.000	90.34	0.000	0.000	SAL_158_160_L_0							
141 D	4.556	0.000	103.0	61.11	103.0	61.11	V-C	2.9432E+05	-7.000	30.00	1.000
1.000	91.11	0.000	0.000	SAL_158_160_L_0							
142 D	4.594	0.000	103.5	61.38	103.5	61.38	V-C	2.9432E+05	-7.050	30.50	1.000
1.000	91.88	0.000	0.000	SAL_158_160_L_0							
143 D	4.632	0.000	103.9	61.64	103.9	61.64	V-C	2.9432E+05	-7.100	31.00	1.000
1.000	92.64	0.000	0.000	SAL_158_160_L_0							
144 D	4.671	0.000	104.4	61.91	104.4	61.91	V-C	2.9432E+05	-7.150	31.50	1.000
1.000	93.41	0.000	0.000	SAL_158_160_L_0							
145 D	4.709	0.000	104.8	62.18	104.8	62.18	V-C	2.9432E+05	-7.200	32.00	1.000
1.000	94.18	0.000	0.000	SAL_158_160_L_0							
146 D	4.747	0.000	105.3	62.44	105.3	62.44	V-C	2.9432E+05	-7.250	32.50	1.000
1.000	94.94	0.000	0.000	SAL_158_160_L_0							
147 D	4.786	0.000	105.7	62.71	105.7	62.71	V-C	2.9432E+05	-7.300	33.00	1.000
1.000	95.71	0.000	0.000	SAL_158_160_L_0							
148 D	4.824	0.000	106.2	62.98	106.2	62.98	V-C	2.9432E+05	-7.350	33.50	1.000
1.000	96.48	0.000	0.000	SAL_158_160_L_0							
149 D	4.862	0.000	106.6	63.25	106.6	63.25	V-C	2.9432E+05	-7.400	34.00	1.000
1.000	97.25	0.000	0.000	SAL_158_160_L_0							
150 D	4.901	0.000	107.1	63.51	107.1	63.51	V-C	2.9432E+05	-7.450	34.50	1.000
1.000	98.01	0.000	0.000	SAL_158_160_L_0							
151 D	4.939	0.000	107.5	63.78	107.5	63.78	V-C	2.9432E+05	-7.500	35.00	1.000
1.000	98.78	0.000	0.000	SAL_158_160_L_0							
152 D	4.977	0.000	108.0	64.05	108.0	64.05	V-C	2.9432E+05	-7.550	35.50	1.000
1.000	99.55	0.000	0.000	SAL_158_160_L_0							
153 D	5.016	0.000	108.4	64.31	108.4	64.31	V-C	2.9432E+05	-7.600	36.00	1.000
1.000	100.3	0.000	0.000	SAL_158_160_L_0							
154 D	5.054	0.000	108.9	64.58	108.9	64.58	V-C	2.9432E+05	-7.650	36.50	1.000
1.000	101.1	0.000	0.000	SAL_158_160_L_0							
155 D	5.092	0.000	109.3	64.85	109.3	64.85	V-C	2.9432E+05	-7.700	37.00	1.000
1.000	101.8	0.000	0.000	SAL_158_160_L_0							
156 D	5.131	0.000	109.8	65.11	109.8	65.11	V-C	2.9432E+05	-7.750	37.50	1.000
1.000	102.6	0.000	0.000	SAL_158_160_L_0							
157 D	5.169	0.000	110.2	65.38	110.2	65.38	V-C	2.9432E+05	-7.800	38.00	1.000
1.000	103.4	0.000	0.000	SAL_158_160_L_0							
158 D	5.207	0.000	110.7	65.65	110.7	65.65	V-C	2.9432E+05	-7.850	38.50	1.000
1.000	104.1	0.000	0.000	SAL_158_160_L_0							
159 D	5.246	0.000	111.1	65.92	111.1	65.92	V-C	2.9432E+05	-7.900	39.00	1.000
1.000	104.9	0.000	0.000	SAL_158_160_L_0							
160 D	5.284	0.000	111.6	66.18	111.6	66.18	V-C	2.9432E+05	-7.950	39.50	1.000
1.000	105.7	0.000	0.000	SAL_158_160_L_0							
161 D	5.322	0.000	112.0	66.45	112.0	66.45	V-C	2.9432E+05	-8.000	40.00	1.000
1.000	106.4	0.000	0.000	SAL_158_160_L_0							
162 D	5.361	0.000	112.5	66.72	112.5	66.72	V-C	2.9432E+05	-8.050	40.50	1.000
1.000	107.2	0.000	0.000	SAL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	41 di 401

163 D	5.399	0.000	112.9	66.98	112.9	66.98	V-C	2.9432E+05	-8.100	41.00	1.000
1.000	108.0	0.000	0.000	5AL_158_160_L_0							
164 D	5.438	0.000	113.4	67.25	113.4	67.25	V-C	2.9432E+05	-8.150	41.50	1.000
1.000	108.8	0.000	0.000	5AL_158_160_L_0							
165 D	5.476	0.000	113.8	67.52	113.8	67.52	V-C	2.9432E+05	-8.200	42.00	1.000
1.000	109.5	0.000	0.000	5AL_158_160_L_0							
166 D	5.514	0.000	114.3	67.78	114.3	67.78	V-C	2.9432E+05	-8.250	42.50	1.000
1.000	110.3	0.000	0.000	5AL_158_160_L_0							
167 D	5.553	0.000	114.7	68.05	114.7	68.05	V-C	2.9432E+05	-8.300	43.00	1.000
1.000	111.1	0.000	0.000	5AL_158_160_L_0							
168 D	5.591	0.000	115.2	68.32	115.2	68.32	V-C	2.9432E+05	-8.350	43.50	1.000
1.000	111.8	0.000	0.000	5AL_158_160_L_0							
169 D	5.629	0.000	115.6	68.59	115.6	68.59	V-C	2.9432E+05	-8.400	44.00	1.000
1.000	112.6	0.000	0.000	5AL_158_160_L_0							
170 D	5.668	0.000	116.1	68.85	116.1	68.85	V-C	2.9432E+05	-8.450	44.50	1.000
1.000	113.4	0.000	0.000	5AL_158_160_L_0							
171 D	5.706	0.000	116.5	69.12	116.5	69.12	V-C	2.9432E+05	-8.500	45.00	1.000
1.000	114.1	0.000	0.000	5AL_158_160_L_0							
172 D	5.744	0.000	117.0	69.39	117.0	69.39	V-C	2.9432E+05	-8.550	45.50	1.000
1.000	114.9	0.000	0.000	5AL_158_160_L_0							
173 D	5.783	0.000	117.4	69.65	117.4	69.65	V-C	2.9432E+05	-8.600	46.00	1.000
1.000	115.7	0.000	0.000	5AL_158_160_L_0							
174 D	5.821	0.000	117.9	69.92	117.9	69.92	V-C	2.9432E+05	-8.650	46.50	1.000
1.000	116.4	0.000	0.000	5AL_158_160_L_0							
175 D	5.859	0.000	118.3	70.19	118.3	70.19	V-C	2.9432E+05	-8.700	47.00	1.000
1.000	117.2	0.000	0.000	5AL_158_160_L_0							
176 D	5.898	0.000	118.8	70.45	118.8	70.45	V-C	2.9432E+05	-8.750	47.50	1.000
1.000	118.0	0.000	0.000	5AL_158_160_L_0							
177 D	5.936	0.000	119.2	70.72	119.2	70.72	V-C	2.9432E+05	-8.800	48.00	1.000
1.000	118.7	0.000	0.000	5AL_158_160_L_0							
178 D	5.974	0.000	119.7	70.99	119.7	70.99	V-C	2.9432E+05	-8.850	48.50	1.000
1.000	119.5	0.000	0.000	5AL_158_160_L_0							
179 D	6.013	0.000	120.1	71.26	120.1	71.26	V-C	2.9432E+05	-8.900	49.00	1.000
1.000	120.3	0.000	0.000	5AL_158_160_L_0							
180 D	6.051	0.000	120.6	71.52	120.6	71.52	V-C	2.9432E+05	-8.950	49.50	1.000
1.000	121.0	0.000	0.000	5AL_158_160_L_0							
181 D	6.089	0.000	121.0	71.79	121.0	71.79	V-C	2.9432E+05	-9.000	50.00	1.000
1.000	121.8	0.000	0.000	5AL_158_160_L_0							
182 D	6.128	0.000	121.5	72.06	121.5	72.06	V-C	2.9432E+05	-9.050	50.50	1.000
1.000	122.6	0.000	0.000	5AL_158_160_L_0							
183 D	6.166	0.000	121.9	72.32	121.9	72.32	V-C	2.9432E+05	-9.100	51.00	1.000
1.000	123.3	0.000	0.000	5AL_158_160_L_0							
184 D	6.205	0.000	122.4	72.59	122.4	72.59	V-C	2.9432E+05	-9.150	51.50	1.000
1.000	124.1	0.000	0.000	5AL_158_160_L_0							
185 D	6.243	0.000	122.8	72.86	122.8	72.86	V-C	2.9432E+05	-9.200	52.00	1.000
1.000	124.9	0.000	0.000	5AL_158_160_L_0							
186 D	6.281	0.000	123.3	73.12	123.3	73.12	V-C	2.9432E+05	-9.250	52.50	1.000
1.000	125.6	0.000	0.000	5AL_158_160_L_0							
187 D	6.320	0.000	123.7	73.39	123.7	73.39	V-C	2.9432E+05	-9.300	53.00	1.000
1.000	126.4	0.000	0.000	5AL_158_160_L_0							
188 D	6.358	0.000	124.2	73.65	124.2	73.66	V-C	2.9432E+05	-9.350	53.50	1.000
1.000	127.2	0.000	0.000	5AL_158_160_L_0							
189 D	6.396	0.000	124.6	73.93	124.6	73.93	V-C	2.9432E+05	-9.400	54.00	1.000
1.000	127.9	0.000	0.000	5AL_158_160_L_0							
190 D	6.435	0.000	125.1	74.19	125.1	74.19	V-C	2.9432E+05	-9.450	54.50	1.000
1.000	128.7	0.000	0.000	5AL_158_160_L_0							
191 D	6.473	0.000	125.5	74.46	125.5	74.46	V-C	2.9432E+05	-9.500	55.00	1.000
1.000	129.5	0.000	0.000	5AL_158_160_L_0							
192 D	6.511	0.000	126.0	74.73	126.0	74.73	V-C	2.9432E+05	-9.550	55.50	1.000
1.000	130.2	0.000	0.000	5AL_158_160_L_0							
193 D	6.550	0.000	126.4	74.99	126.4	74.99	V-C	2.9432E+05	-9.600	56.00	1.000
1.000	131.0	0.000	0.000	5AL_158_160_L_0							
194 D	6.588	0.000	126.9	75.26	126.9	75.26	V-C	2.9432E+05	-9.650	56.50	1.000
1.000	131.8	0.000	0.000	5AL_158_160_L_0							
195 D	6.626	0.000	127.3	75.53	127.3	75.53	V-C	2.9432E+05	-9.700	57.00	1.000
1.000	132.5	0.000	0.000	5AL_158_160_L_0							
196 D	6.665	0.000	127.8	75.79	127.8	75.79	V-C	2.9432E+05	-9.750	57.50	1.000
1.000	133.3	0.000	0.000	5AL_158_160_L_0							
197 D	6.703	0.000	128.2	76.06	128.2	76.06	V-C	2.9432E+05	-9.800	58.00	1.000
1.000	134.1	0.000	0.000	5AL_158_160_L_0							
198 D	6.741	0.000	128.7	76.33	128.7	76.33	V-C	2.9432E+05	-9.850	58.50	1.000
1.000	134.8	0.000	0.000	5AL_158_160_L_0							
199 D	6.780	0.000	129.1	76.60	129.1	76.60	V-C	2.9432E+05	-9.900	59.00	1.000
1.000	135.6	0.000	0.000	5AL_158_160_L_0							
200 D	6.817	0.000	129.6	76.86	129.6	76.86	V-C	2.9432E+05	-9.950	59.50	1.000
1.000	136.4	0.000	0.000	5AL_158_160_L_0							
201 D	3.427	0.000	130.0	77.13	130.0	77.13	V-C	2.9432E+05	-10.00	60.00	1.000
1.000	137.1	0.000	0.000	5AL_158_160_L_0							



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	42 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_20.Nominal_63
Exe Time :21 June 2016 11:57:44

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.3890E+05	0.000	0.000	1.000
1.000	0.000	0.000	0.000	5AL_158_160_L_0							
2 D	2.8182E-02	0.000	0.9500	0.5636	0.9500	0.5636	V-C	2.3890E+05	-5.0000E-02	0.000	1.000
1.000	0.5636	0.000	0.000	5AL_158_160_L_0							
3 D	5.6364E-02	0.000	1.900	1.127	1.900	1.127	V-C	2.3890E+05	-0.1000	0.000	1.000
1.000	1.127	0.000	0.000	5AL_158_160_L_0							
4 D	8.4545E-02	0.000	2.850	1.691	2.850	1.691	V-C	2.3890E+05	-0.1500	0.000	1.000
1.000	1.691	0.000	0.000	5AL_158_160_L_0							
5 D	0.1127	0.000	3.800	2.255	3.800	2.255	V-C	2.3890E+05	-0.2000	0.000	1.000
1.000	2.255	0.000	0.000	5AL_158_160_L_0							
6 D	0.1409	0.000	4.750	2.818	4.750	2.818	V-C	2.3890E+05	-0.2500	0.000	1.000
1.000	2.818	0.000	0.000	5AL_158_160_L_0							
7 D	0.1691	0.000	5.700	3.382	5.700	3.382	V-C	2.3890E+05	-0.3000	0.000	1.000
1.000	3.382	0.000	0.000	5AL_158_160_L_0							
8 D	0.1973	0.000	6.650	3.945	6.650	3.945	V-C	2.3890E+05	-0.3500	0.000	1.000
1.000	3.945	0.000	0.000	5AL_158_160_L_0							
9 D	0.2255	0.000	7.600	4.509	7.600	4.509	V-C	2.3890E+05	-0.4000	0.000	1.000
1.000	4.509	0.000	0.000	5AL_158_160_L_0							
10 D	0.2536	0.000	8.550	5.073	8.550	5.073	V-C	2.3890E+05	-0.4500	0.000	1.000
1.000	5.073	0.000	0.000	5AL_158_160_L_0							
11 D	0.2818	0.000	9.500	5.636	9.500	5.636	V-C	2.3890E+05	-0.5000	0.000	1.000
1.000	5.636	0.000	0.000	5AL_158_160_L_0							
12 D	0.3100	0.000	10.45	6.200	10.45	6.200	V-C	2.3890E+05	-0.5500	0.000	1.000
1.000	6.200	0.000	0.000	5AL_158_160_L_0							
13 D	0.3382	0.000	11.40	6.764	11.40	6.764	V-C	2.3890E+05	-0.6000	0.000	1.000
1.000	6.764	0.000	0.000	5AL_158_160_L_0							
14 D	0.3664	0.000	12.35	7.327	12.35	7.327	V-C	2.3890E+05	-0.6500	0.000	1.000
1.000	7.327	0.000	0.000	5AL_158_160_L_0							
15 D	0.3945	0.000	13.30	7.891	13.30	7.891	V-C	2.3890E+05	-0.7000	0.000	1.000
1.000	7.891	0.000	0.000	5AL_158_160_L_0							
16 D	0.4227	0.000	14.25	8.455	14.25	8.455	V-C	2.3890E+05	-0.7500	0.000	1.000
1.000	8.455	0.000	0.000	5AL_158_160_L_0							
17 D	0.4509	0.000	15.20	9.018	15.20	9.018	V-C	2.3890E+05	-0.8000	0.000	1.000
1.000	9.018	0.000	0.000	5AL_158_160_L_0							
18 D	0.4791	0.000	16.15	9.582	16.15	9.582	V-C	2.3890E+05	-0.8500	0.000	1.000
1.000	9.582	0.000	0.000	5AL_158_160_L_0							
19 D	0.5073	0.000	17.10	10.15	17.10	10.15	V-C	2.3890E+05	-0.9000	0.000	1.000
1.000	10.15	0.000	0.000	5AL_158_160_L_0							
20 D	0.5355	0.000	18.05	10.71	18.05	10.71	V-C	2.3890E+05	-0.9500	0.000	1.000
1.000	10.71	0.000	0.000	5AL_158_160_L_0							
21 D	0.5636	0.000	19.00	11.27	19.00	11.27	V-C	2.3890E+05	-1.000	0.000	1.000
1.000	11.27	0.000	0.000	5AL_158_160_L_0							
22 D	0.5918	0.000	19.95	11.84	19.95	11.84	V-C	2.3890E+05	-1.050	0.000	1.000
1.000	11.84	0.000	0.000	5AL_158_160_L_0							
23 D	0.6200	0.000	20.90	12.40	20.90	12.40	V-C	2.3890E+05	-1.100	0.000	1.000
1.000	12.40	0.000	0.000	5AL_158_160_L_0							
24 D	0.6482	0.000	21.85	12.96	21.85	12.96	V-C	2.3890E+05	-1.150	0.000	1.000
1.000	12.96	0.000	0.000	5AL_158_160_L_0							
25 D	0.6764	0.000	22.80	13.53	22.80	13.53	V-C	2.3890E+05	-1.200	0.000	1.000
1.000	13.53	0.000	0.000	5AL_158_160_L_0							
26 D	0.7045	0.000	23.75	14.09	23.75	14.09	V-C	2.3890E+05	-1.250	0.000	1.000
1.000	14.09	0.000	0.000	5AL_158_160_L_0							
27 D	0.7327	0.000	24.70	14.65	24.70	14.65	V-C	2.3890E+05	-1.300	0.000	1.000
1.000	14.65	0.000	0.000	5AL_158_160_L_0							
28 D	0.7609	0.000	25.65	15.22	25.65	15.22	V-C	2.3890E+05	-1.350	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	43 di 401

1.000	15.22	0.000	0.000	5AL_158_160_L_0							
29 D	0.7891	0.000	26.60	15.78	26.60	15.78	V-C	2.3890E+05	-1.400	0.000	1.000
1.000	15.78	0.000	0.000	5AL_158_160_L_0							
30 D	0.8173	0.000	27.55	16.35	27.55	16.35	V-C	2.3890E+05	-1.450	0.000	1.000
1.000	16.35	0.000	0.000	5AL_158_160_L_0							
31 D	0.8455	0.000	28.50	16.91	28.50	16.91	V-C	2.3890E+05	-1.500	0.000	1.000
1.000	16.91	0.000	0.000	5AL_158_160_L_0							
32 D	0.8736	0.000	29.45	17.47	29.45	17.47	V-C	2.3890E+05	-1.550	0.000	1.000
1.000	17.47	0.000	0.000	5AL_158_160_L_0							
33 D	0.9018	0.000	30.40	18.04	30.40	18.04	V-C	2.3890E+05	-1.600	0.000	1.000
1.000	18.04	0.000	0.000	5AL_158_160_L_0							
34 D	0.9300	0.000	31.35	18.60	31.35	18.60	V-C	2.3890E+05	-1.650	0.000	1.000
1.000	18.60	0.000	0.000	5AL_158_160_L_0							
35 D	0.9582	0.000	32.30	19.16	32.30	19.16	V-C	2.3890E+05	-1.700	0.000	1.000
1.000	19.16	0.000	0.000	5AL_158_160_L_0							
36 D	0.9864	0.000	33.25	19.73	33.25	19.73	V-C	2.3890E+05	-1.750	0.000	1.000
1.000	19.73	0.000	0.000	5AL_158_160_L_0							
37 D	1.015	0.000	34.20	20.29	34.20	20.29	V-C	2.3890E+05	-1.800	0.000	1.000
1.000	20.29	0.000	0.000	5AL_158_160_L_0							
38 D	1.043	0.000	35.15	20.85	35.15	20.85	V-C	2.3890E+05	-1.850	0.000	1.000
1.000	20.85	0.000	0.000	5AL_158_160_L_0							
39 D	1.071	0.000	36.10	21.42	36.10	21.42	V-C	2.3890E+05	-1.900	0.000	1.000
1.000	21.42	0.000	0.000	5AL_158_160_L_0							
40 D	1.099	0.000	37.05	21.98	37.05	21.98	V-C	2.3890E+05	-1.950	0.000	1.000
1.000	21.98	0.000	0.000	5AL_158_160_L_0							
41 D	1.127	0.000	38.00	22.55	38.00	22.55	V-C	2.3890E+05	-2.000	0.000	1.000
1.000	22.55	0.000	0.000	5AL_158_160_L_0							
42 D	1.155	0.000	38.95	23.11	38.95	23.11	V-C	2.3890E+05	-2.050	0.000	1.000
1.000	23.11	0.000	0.000	5AL_158_160_L_0							
43 D	1.184	0.000	39.90	23.67	39.90	23.67	V-C	2.3890E+05	-2.100	0.000	1.000
1.000	23.67	0.000	0.000	5AL_158_160_L_0							
44 D	1.212	0.000	40.85	24.24	40.85	24.24	V-C	2.3890E+05	-2.150	0.000	1.000
1.000	24.24	0.000	0.000	5AL_158_160_L_0							
45 D	1.240	0.000	41.80	24.80	41.80	24.80	V-C	2.3890E+05	-2.200	0.000	1.000
1.000	24.80	0.000	0.000	5AL_158_160_L_0							
46 D	1.268	0.000	42.75	25.36	42.75	25.36	V-C	2.3890E+05	-2.250	0.000	1.000
1.000	25.36	0.000	0.000	5AL_158_160_L_0							
47 D	1.296	0.000	43.70	25.93	43.70	25.93	V-C	2.3890E+05	-2.300	0.000	1.000
1.000	25.93	0.000	0.000	5AL_158_160_L_0							
48 D	1.325	0.000	44.65	26.49	44.65	26.49	V-C	2.3890E+05	-2.350	0.000	1.000
1.000	26.49	0.000	0.000	5AL_158_160_L_0							
49 D	1.353	0.000	45.60	27.05	45.60	27.05	V-C	2.3890E+05	-2.400	0.000	1.000
1.000	27.05	0.000	0.000	5AL_158_160_L_0							
50 D	1.381	0.000	46.55	27.62	46.55	27.62	V-C	2.3890E+05	-2.450	0.000	1.000
1.000	27.62	0.000	0.000	5AL_158_160_L_0							
51 D	1.409	0.000	47.50	28.18	47.50	28.18	V-C	2.3890E+05	-2.500	0.000	1.000
1.000	28.18	0.000	0.000	5AL_158_160_L_0							
52 D	1.437	0.000	48.45	28.75	48.45	28.75	V-C	2.3890E+05	-2.550	0.000	1.000
1.000	28.75	0.000	0.000	5AL_158_160_L_0							
53 D	1.465	0.000	49.40	29.31	49.40	29.31	V-C	2.3890E+05	-2.600	0.000	1.000
1.000	29.31	0.000	0.000	5AL_158_160_L_0							
54 D	1.494	0.000	50.35	29.87	50.35	29.87	V-C	2.3890E+05	-2.650	0.000	1.000
1.000	29.87	0.000	0.000	5AL_158_160_L_0							
55 D	1.522	0.000	51.30	30.44	51.30	30.44	V-C	2.3890E+05	-2.700	0.000	1.000
1.000	30.44	0.000	0.000	5AL_158_160_L_0							
56 D	1.550	0.000	52.25	31.00	52.25	31.00	V-C	2.3890E+05	-2.750	0.000	1.000
1.000	31.00	0.000	0.000	5AL_158_160_L_0							
57 D	1.578	0.000	53.20	31.56	53.20	31.56	V-C	2.3890E+05	-2.800	0.000	1.000
1.000	31.56	0.000	0.000	5AL_158_160_L_0							
58 D	1.606	0.000	54.15	32.13	54.15	32.13	V-C	2.3890E+05	-2.850	0.000	1.000
1.000	32.13	0.000	0.000	5AL_158_160_L_0							
59 D	1.635	0.000	55.10	32.69	55.10	32.69	V-C	2.3890E+05	-2.900	0.000	1.000
1.000	32.69	0.000	0.000	5AL_158_160_L_0							
60 D	1.663	0.000	56.05	33.25	56.05	33.25	V-C	2.3890E+05	-2.950	0.000	1.000
1.000	33.25	0.000	0.000	5AL_158_160_L_0							
61 D	1.691	0.000	57.00	33.82	57.00	33.82	V-C	2.3890E+05	-3.000	0.000	1.000
1.000	33.82	0.000	0.000	5AL_158_160_L_0							
62 D	1.719	0.000	57.95	34.38	57.95	34.38	V-C	2.3890E+05	-3.050	0.000	1.000
1.000	34.38	0.000	0.000	5AL_158_160_L_0							
63 D	1.747	0.000	58.90	34.95	58.90	34.95	V-C	2.3890E+05	-3.100	0.000	1.000
1.000	34.95	0.000	0.000	5AL_158_160_L_0							
64 D	1.775	0.000	59.85	35.51	59.85	35.51	V-C	2.3890E+05	-3.150	0.000	1.000
1.000	35.51	0.000	0.000	5AL_158_160_L_0							
65 D	1.804	0.000	60.80	36.07	60.80	36.07	V-C	2.3890E+05	-3.200	0.000	1.000
1.000	36.07	0.000	0.000	5AL_158_160_L_0							
66 D	1.832	0.000	61.75	36.64	61.75	36.64	V-C	2.3890E+05	-3.250	0.000	1.000
1.000	36.64	0.000	0.000	5AL_158_160_L_0							
67 D	1.860	0.000	62.70	37.20	62.70	37.20	V-C	2.3890E+05	-3.300	0.000	1.000
1.000	37.20	0.000	0.000	5AL_158_160_L_0							
68 D	1.888	0.000	63.65	37.76	63.65	37.76	V-C	2.3890E+05	-3.350	0.000	1.000
1.000	37.76	0.000	0.000	5AL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
LI00 01 D 09CL VI0100 004 A 44 di 401

69 D	1.916	0.000	64.60	38.33	64.60	38.33	V-C	2.3890E+05	-3.400	0.000	1.000
1.000	38.33	0.000	0.000	5AL_158_160_L_0							
70 D	1.945	0.000	65.55	38.89	65.55	38.89	V-C	2.3890E+05	-3.450	0.000	1.000
1.000	38.89	0.000	0.000	5AL_158_160_L_0							
71 D	1.973	0.000	66.50	39.45	66.50	39.45	V-C	2.3890E+05	-3.500	0.000	1.000
1.000	39.45	0.000	0.000	5AL_158_160_L_0							
72 D	2.001	0.000	67.45	40.02	67.45	40.02	V-C	2.3890E+05	-3.550	0.000	1.000
1.000	40.02	0.000	0.000	5AL_158_160_L_0							
73 D	2.029	0.000	68.40	40.58	68.40	40.58	V-C	2.3890E+05	-3.600	0.000	1.000
1.000	40.58	0.000	0.000	5AL_158_160_L_0							
74 D	2.057	0.000	69.35	41.15	69.35	41.15	V-C	2.3890E+05	-3.650	0.000	1.000
1.000	41.15	0.000	0.000	5AL_158_160_L_0							
75 D	2.085	0.000	70.30	41.71	70.30	41.71	V-C	2.3890E+05	-3.700	0.000	1.000
1.000	41.71	0.000	0.000	5AL_158_160_L_0							
76 D	2.114	0.000	71.25	42.27	71.25	42.27	V-C	2.3890E+05	-3.750	0.000	1.000
1.000	42.27	0.000	0.000	5AL_158_160_L_0							
77 D	2.142	0.000	72.20	42.84	72.20	42.84	V-C	2.3890E+05	-3.800	0.000	1.000
1.000	42.84	0.000	0.000	5AL_158_160_L_0							
78 D	2.170	0.000	73.15	43.40	73.15	43.40	V-C	2.3890E+05	-3.850	0.000	1.000
1.000	43.40	0.000	0.000	5AL_158_160_L_0							
79 D	2.198	0.000	74.10	43.96	74.10	43.96	V-C	2.3890E+05	-3.900	0.000	1.000
1.000	43.96	0.000	0.000	5AL_158_160_L_0							
80 D	2.226	0.000	75.05	44.53	75.05	44.53	V-C	2.3890E+05	-3.950	0.000	1.000
1.000	44.53	0.000	0.000	5AL_158_160_L_0							
81 D	2.255	0.000	76.00	45.09	76.00	45.09	V-C	2.3890E+05	-4.000	0.000	1.000
1.000	45.09	0.000	0.000	5AL_158_160_L_0							
82 D	2.293	0.000	76.45	45.36	76.45	45.36	V-C	2.3890E+05	-4.050	0.5000	1.000
1.000	45.36	0.000	0.000	5AL_158_160_L_0							
83 D	2.331	0.000	76.90	45.62	76.90	45.62	V-C	2.3890E+05	-4.100	1.000	1.000
1.000	45.62	0.000	0.000	5AL_158_160_L_0							
84 D	2.370	0.000	77.35	45.89	77.35	45.89	V-C	2.3890E+05	-4.150	1.500	1.000
1.000	47.39	0.000	0.000	5AL_158_160_L_0							
85 D	2.408	0.000	77.80	46.16	77.80	46.16	V-C	2.3890E+05	-4.200	2.000	1.000
1.000	48.16	0.000	0.000	5AL_158_160_L_0							
86 D	2.446	0.000	78.25	46.43	78.25	46.43	V-C	2.3890E+05	-4.250	2.500	1.000
1.000	48.93	0.000	0.000	5AL_158_160_L_0							
87 D	2.485	0.000	78.70	46.69	78.70	46.69	V-C	2.3890E+05	-4.300	3.000	1.000
1.000	49.69	0.000	0.000	5AL_158_160_L_0							
88 D	2.523	0.000	79.15	46.96	79.15	46.96	V-C	2.3890E+05	-4.350	3.500	1.000
1.000	50.46	0.000	0.000	5AL_158_160_L_0							
89 D	2.561	0.000	79.60	47.23	79.60	47.23	V-C	2.3890E+05	-4.400	4.000	1.000
1.000	51.23	0.000	0.000	5AL_158_160_L_0							
90 D	2.600	0.000	80.05	47.49	80.05	47.49	V-C	2.3890E+05	-4.450	4.500	1.000
1.000	51.99	0.000	0.000	5AL_158_160_L_0							
91 D	2.638	0.000	80.50	47.76	80.50	47.76	V-C	2.3890E+05	-4.500	5.000	1.000
1.000	52.76	0.000	0.000	5AL_158_160_L_0							
92 D	2.676	0.000	80.95	48.03	80.95	48.03	V-C	2.3890E+05	-4.550	5.500	1.000
1.000	53.53	0.000	0.000	5AL_158_160_L_0							
93 D	2.715	0.000	81.40	48.29	81.40	48.29	V-C	2.3890E+05	-4.600	6.000	1.000
1.000	54.29	0.000	0.000	5AL_158_160_L_0							
94 D	2.753	0.000	81.85	48.56	81.85	48.56	V-C	2.3890E+05	-4.650	6.500	1.000
1.000	55.06	0.000	0.000	5AL_158_160_L_0							
95 D	2.791	0.000	82.30	48.83	82.30	48.83	V-C	2.3890E+05	-4.700	7.000	1.000
1.000	55.83	0.000	0.000	5AL_158_160_L_0							
96 D	2.830	0.000	82.75	49.10	82.75	49.10	V-C	2.3890E+05	-4.750	7.500	1.000
1.000	56.60	0.000	0.000	5AL_158_160_L_0							
97 D	2.868	0.000	83.20	49.36	83.20	49.36	V-C	2.3890E+05	-4.800	8.000	1.000
1.000	57.36	0.000	0.000	5AL_158_160_L_0							
98 D	2.906	0.000	83.65	49.63	83.65	49.63	V-C	2.3890E+05	-4.850	8.500	1.000
1.000	58.13	0.000	0.000	5AL_158_160_L_0							
99 D	2.945	0.000	84.10	49.90	84.10	49.90	V-C	2.3890E+05	-4.900	9.000	1.000
1.000	58.90	0.000	0.000	5AL_158_160_L_0							
100 D	2.983	0.000	84.55	50.16	84.55	50.16	V-C	2.3890E+05	-4.950	9.500	1.000
1.000	59.66	0.000	0.000	5AL_158_160_L_0							
101 D	3.022	0.000	85.00	50.43	85.00	50.43	V-C	2.3890E+05	-5.000	10.00	1.000
1.000	60.43	0.000	0.000	5AL_158_160_L_0							
102 D	3.060	0.000	85.45	50.70	85.45	50.70	V-C	2.3890E+05	-5.050	10.50	1.000
1.000	61.20	0.000	0.000	5AL_158_160_L_0							
103 D	3.098	0.000	85.90	50.96	85.90	50.96	V-C	2.3890E+05	-5.100	11.00	1.000
1.000	61.96	0.000	0.000	5AL_158_160_L_0							
104 D	3.137	0.000	86.35	51.23	86.35	51.23	V-C	2.3890E+05	-5.150	11.50	1.000
1.000	62.73	0.000	0.000	5AL_158_160_L_0							
105 D	3.175	0.000	86.80	51.50	86.80	51.50	V-C	2.3890E+05	-5.200	12.00	1.000
1.000	63.50	0.000	0.000	5AL_158_160_L_0							
106 D	3.213	0.000	87.25	51.77	87.25	51.77	V-C	2.3890E+05	-5.250	12.50	1.000
1.000	64.27	0.000	0.000	5AL_158_160_L_0							
107 D	3.252	0.000	87.70	52.03	87.70	52.03	V-C	2.3890E+05	-5.300	13.00	1.000
1.000	65.03	0.000	0.000	5AL_158_160_L_0							
108 D	3.290	0.000	88.15	52.30	88.15	52.30	V-C	2.3890E+05	-5.350	13.50	1.000
1.000	65.80	0.000	0.000	5AL_158_160_L_0							
109 D	3.328	0.000	88.60	52.57	88.60	52.57	V-C	2.3890E+05	-5.400	14.00	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VIC100 004	A	45 di 401

1.000	66.57	0.000	0.000	5AL_158_160_L_0							
110 D	3.367	0.000	89.05	52.83	89.05	52.83	V-C	2.3890E+05	-5.450	14.50	1.000
1.000	67.33	0.000	0.000	5AL_158_160_L_0							
111 D	3.405	0.000	89.50	53.10	89.50	53.10	V-C	2.3890E+05	-5.500	15.00	1.000
1.000	68.10	0.000	0.000	5AL_158_160_L_0							
112 D	3.443	0.000	89.95	53.37	89.95	53.37	V-C	2.3890E+05	-5.550	15.50	1.000
1.000	68.87	0.000	0.000	5AL_158_160_L_0							
113 D	3.482	0.000	90.40	53.63	90.40	53.63	V-C	2.3890E+05	-5.600	16.00	1.000
1.000	69.63	0.000	0.000	5AL_158_160_L_0							
114 D	3.520	0.000	90.85	53.90	90.85	53.90	V-C	2.3890E+05	-5.650	16.50	1.000
1.000	70.40	0.000	0.000	5AL_158_160_L_0							
115 D	3.558	0.000	91.30	54.17	91.30	54.17	V-C	2.3890E+05	-5.700	17.00	1.000
1.000	71.17	0.000	0.000	5AL_158_160_L_0							
116 D	3.597	0.000	91.75	54.44	91.75	54.44	V-C	2.3890E+05	-5.750	17.50	1.000
1.000	71.94	0.000	0.000	5AL_158_160_L_0							
117 D	3.635	0.000	92.20	54.70	92.20	54.70	V-C	2.3890E+05	-5.800	18.00	1.000
1.000	72.70	0.000	0.000	5AL_158_160_L_0							
118 D	3.673	0.000	92.65	54.97	92.65	54.97	V-C	2.3890E+05	-5.850	18.50	1.000
1.000	73.47	0.000	0.000	5AL_158_160_L_0							
119 D	3.712	0.000	93.10	55.24	93.10	55.24	V-C	2.3890E+05	-5.900	19.00	1.000
1.000	74.24	0.000	0.000	5AL_158_160_L_0							
120 D	3.750	0.000	93.55	55.50	93.55	55.50	V-C	2.3890E+05	-5.950	19.50	1.000
1.000	75.00	0.000	0.000	5AL_158_160_L_0							
121 D	3.789	0.000	94.00	55.77	94.00	55.77	V-C	2.3890E+05	-6.000	20.00	1.000
1.000	75.77	0.000	0.000	5AL_158_160_L_0							
122 D	3.827	0.000	94.45	56.04	94.45	56.04	V-C	2.3890E+05	-6.050	20.50	1.000
1.000	76.54	0.000	0.000	5AL_158_160_L_0							
123 D	3.865	0.000	94.90	56.30	94.90	56.30	V-C	2.3890E+05	-6.100	21.00	1.000
1.000	77.30	0.000	0.000	5AL_158_160_L_0							
124 D	3.904	0.000	95.35	56.57	95.35	56.57	V-C	2.3890E+05	-6.150	21.50	1.000
1.000	78.07	0.000	0.000	5AL_158_160_L_0							
125 D	3.942	0.000	95.80	56.84	95.80	56.84	V-C	2.3890E+05	-6.200	22.00	1.000
1.000	78.84	0.000	0.000	5AL_158_160_L_0							
126 D	3.980	0.000	96.25	57.11	96.25	57.11	V-C	2.3890E+05	-6.250	22.50	1.000
1.000	79.61	0.000	0.000	5AL_158_160_L_0							
127 D	4.019	0.000	96.70	57.37	96.70	57.37	V-C	2.3890E+05	-6.300	23.00	1.000
1.000	80.37	0.000	0.000	5AL_158_160_L_0							
128 D	4.057	0.000	97.15	57.64	97.15	57.64	V-C	2.3890E+05	-6.350	23.50	1.000
1.000	81.14	0.000	0.000	5AL_158_160_L_0							
129 D	4.095	0.000	97.60	57.91	97.60	57.91	V-C	2.3890E+05	-6.400	24.00	1.000
1.000	81.91	0.000	0.000	5AL_158_160_L_0							
130 D	4.134	0.000	98.05	58.17	98.05	58.17	V-C	2.3890E+05	-6.450	24.50	1.000
1.000	82.67	0.000	0.000	5AL_158_160_L_0							
131 D	4.172	0.000	98.50	58.44	98.50	58.44	V-C	2.3890E+05	-6.500	25.00	1.000
1.000	83.44	0.000	0.000	5AL_158_160_L_0							
132 D	4.210	0.000	98.95	58.71	98.95	58.71	V-C	2.3890E+05	-6.550	25.50	1.000
1.000	84.21	0.000	0.000	5AL_158_160_L_0							
133 D	4.249	0.000	99.40	58.97	99.40	58.97	V-C	2.3890E+05	-6.600	26.00	1.000
1.000	84.97	0.000	0.000	5AL_158_160_L_0							
134 D	4.287	0.000	99.85	59.24	99.85	59.24	V-C	2.3890E+05	-6.650	26.50	1.000
1.000	85.74	0.000	0.000	5AL_158_160_L_0							
135 D	4.325	0.000	100.3	59.51	100.3	59.51	V-C	2.3890E+05	-6.700	27.00	1.000
1.000	86.51	0.000	0.000	5AL_158_160_L_0							
136 D	4.364	0.000	100.8	59.78	100.8	59.78	V-C	2.3890E+05	-6.750	27.50	1.000
1.000	87.28	0.000	0.000	5AL_158_160_L_0							
137 D	4.402	0.000	101.2	60.04	101.2	60.04	V-C	2.3890E+05	-6.800	28.00	1.000
1.000	88.04	0.000	0.000	5AL_158_160_L_0							
138 D	4.440	0.000	101.7	60.31	101.7	60.31	V-C	2.3890E+05	-6.850	28.50	1.000
1.000	88.81	0.000	0.000	5AL_158_160_L_0							
139 D	4.479	0.000	102.1	60.58	102.1	60.58	V-C	2.3890E+05	-6.900	29.00	1.000
1.000	89.58	0.000	0.000	5AL_158_160_L_0							
140 D	4.517	0.000	102.6	60.84	102.6	60.84	V-C	2.3890E+05	-6.950	29.50	1.000
1.000	90.34	0.000	0.000	5AL_158_160_L_0							
141 D	4.556	0.000	103.0	61.11	103.0	61.11	V-C	2.3890E+05	-7.000	30.00	1.000
1.000	91.11	0.000	0.000	5AL_158_160_L_0							
142 D	4.594	0.000	103.5	61.38	103.5	61.38	V-C	2.3890E+05	-7.050	30.50	1.000
1.000	91.88	0.000	0.000	5AL_158_160_L_0							
143 D	4.632	0.000	103.9	61.64	103.9	61.64	V-C	2.3890E+05	-7.100	31.00	1.000
1.000	92.64	0.000	0.000	5AL_158_160_L_0							
144 D	4.671	0.000	104.4	61.91	104.4	61.91	V-C	2.3890E+05	-7.150	31.50	1.000
1.000	93.41	0.000	0.000	5AL_158_160_L_0							
145 D	4.709	0.000	104.8	62.18	104.8	62.18	V-C	2.3890E+05	-7.200	32.00	1.000
1.000	94.18	0.000	0.000	5AL_158_160_L_0							
146 D	4.747	0.000	105.3	62.44	105.3	62.44	V-C	2.3890E+05	-7.250	32.50	1.000
1.000	94.94	0.000	0.000	5AL_158_160_L_0							
147 D	4.786	0.000	105.7	62.71	105.7	62.71	V-C	2.3890E+05	-7.300	33.00	1.000
1.000	95.71	0.000	0.000	5AL_158_160_L_0							
148 D	4.824	0.000	106.2	62.98	106.2	62.98	V-C	2.3890E+05	-7.350	33.50	1.000
1.000	96.48	0.000	0.000	5AL_158_160_L_0							
149 D	4.862	0.000	106.6	63.25	106.6	63.25	V-C	2.3890E+05	-7.400	34.00	1.000
1.000	97.25	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	46 di 401

150 D	4.901	0.000	107.1	63.51	107.1	63.51	V-C	2.3890E+05	-7.450	34.50	1.000
1.000	98.01	0.000	0.000	5AL_158_160_L_0							
151 D	4.939	0.000	107.5	63.78	107.5	63.78	V-C	2.3890E+05	-7.500	35.00	1.000
1.000	98.78	0.000	0.000	5AL_158_160_L_0							
152 D	4.977	0.000	108.0	64.05	108.0	64.05	V-C	2.3890E+05	-7.550	35.50	1.000
1.000	99.55	0.000	0.000	5AL_158_160_L_0							
153 D	5.016	0.000	108.4	64.31	108.4	64.31	V-C	2.3890E+05	-7.600	36.00	1.000
1.000	100.3	0.000	0.000	5AL_158_160_L_0							
154 D	5.054	0.000	108.9	64.58	108.9	64.58	V-C	2.3890E+05	-7.650	36.50	1.000
1.000	101.1	0.000	0.000	5AL_158_160_L_0							
155 D	5.092	0.000	109.3	64.85	109.3	64.85	V-C	2.3890E+05	-7.700	37.00	1.000
1.000	101.8	0.000	0.000	5AL_158_160_L_0							
156 D	5.131	0.000	109.8	65.11	109.8	65.11	V-C	2.3890E+05	-7.750	37.50	1.000
1.000	102.6	0.000	0.000	5AL_158_160_L_0							
157 D	5.169	0.000	110.2	65.38	110.2	65.38	V-C	2.3890E+05	-7.800	38.00	1.000
1.000	103.4	0.000	0.000	5AL_158_160_L_0							
158 D	5.207	0.000	110.7	65.65	110.7	65.65	V-C	2.3890E+05	-7.850	38.50	1.000
1.000	104.1	0.000	0.000	5AL_158_160_L_0							
159 D	5.246	0.000	111.1	65.92	111.1	65.92	V-C	2.3890E+05	-7.900	39.00	1.000
1.000	104.9	0.000	0.000	5AL_158_160_L_0							
160 D	5.284	0.000	111.6	66.18	111.6	66.18	V-C	2.3890E+05	-7.950	39.50	1.000
1.000	105.7	0.000	0.000	5AL_158_160_L_0							
161 D	5.322	0.000	112.0	66.45	112.0	66.45	V-C	2.3890E+05	-8.000	40.00	1.000
1.000	106.4	0.000	0.000	5AL_158_160_L_0							
162 D	5.361	0.000	112.5	66.72	112.5	66.72	V-C	2.3890E+05	-8.050	40.50	1.000
1.000	107.2	0.000	0.000	5AL_158_160_L_0							
163 D	5.399	0.000	112.9	66.98	112.9	66.98	V-C	2.3890E+05	-8.100	41.00	1.000
1.000	108.0	0.000	0.000	5AL_158_160_L_0							
164 D	5.438	0.000	113.4	67.25	113.4	67.25	V-C	2.3890E+05	-8.150	41.50	1.000
1.000	108.8	0.000	0.000	5AL_158_160_L_0							
165 D	5.476	0.000	113.8	67.52	113.8	67.52	V-C	2.3890E+05	-8.200	42.00	1.000
1.000	109.5	0.000	0.000	5AL_158_160_L_0							
166 D	5.514	0.000	114.3	67.78	114.3	67.78	V-C	2.3890E+05	-8.250	42.50	1.000
1.000	110.3	0.000	0.000	5AL_158_160_L_0							
167 D	5.553	0.000	114.7	68.05	114.7	68.05	V-C	2.3890E+05	-8.300	43.00	1.000
1.000	111.1	0.000	0.000	5AL_158_160_L_0							
168 D	5.591	0.000	115.2	68.32	115.2	68.32	V-C	2.3890E+05	-8.350	43.50	1.000
1.000	111.8	0.000	0.000	5AL_158_160_L_0							
169 D	5.629	0.000	115.6	68.59	115.6	68.59	V-C	2.3890E+05	-8.400	44.00	1.000
1.000	112.6	0.000	0.000	5AL_158_160_L_0							
170 D	5.668	0.000	116.1	68.85	116.1	68.85	V-C	2.3890E+05	-8.450	44.50	1.000
1.000	113.4	0.000	0.000	5AL_158_160_L_0							
171 D	5.706	0.000	116.5	69.12	116.5	69.12	V-C	2.3890E+05	-8.500	45.00	1.000
1.000	114.1	0.000	0.000	5AL_158_160_L_0							
172 D	5.744	0.000	117.0	69.39	117.0	69.39	V-C	2.3890E+05	-8.550	45.50	1.000
1.000	114.9	0.000	0.000	5AL_158_160_L_0							
173 D	5.783	0.000	117.4	69.65	117.4	69.65	V-C	2.3890E+05	-8.600	46.00	1.000
1.000	115.7	0.000	0.000	5AL_158_160_L_0							
174 D	5.821	0.000	117.9	69.92	117.9	69.92	V-C	2.3890E+05	-8.650	46.50	1.000
1.000	116.4	0.000	0.000	5AL_158_160_L_0							
175 D	5.859	0.000	118.3	70.19	118.3	70.19	V-C	2.3890E+05	-8.700	47.00	1.000
1.000	117.2	0.000	0.000	5AL_158_160_L_0							
176 D	5.898	0.000	118.8	70.45	118.8	70.45	V-C	2.3890E+05	-8.750	47.50	1.000
1.000	118.0	0.000	0.000	5AL_158_160_L_0							
177 D	5.936	0.000	119.2	70.72	119.2	70.72	V-C	2.3890E+05	-8.800	48.00	1.000
1.000	118.7	0.000	0.000	5AL_158_160_L_0							
178 D	5.974	0.000	119.7	70.99	119.7	70.99	V-C	2.3890E+05	-8.850	48.50	1.000
1.000	119.5	0.000	0.000	5AL_158_160_L_0							
179 D	6.013	0.000	120.1	71.26	120.1	71.26	V-C	2.3890E+05	-8.900	49.00	1.000
1.000	120.3	0.000	0.000	5AL_158_160_L_0							
180 D	6.051	0.000	120.6	71.52	120.6	71.52	V-C	2.3890E+05	-8.950	49.50	1.000
1.000	121.0	0.000	0.000	5AL_158_160_L_0							
181 D	6.089	0.000	121.0	71.79	121.0	71.79	V-C	2.3890E+05	-9.000	50.00	1.000
1.000	121.8	0.000	0.000	5AL_158_160_L_0							
182 D	6.128	0.000	121.5	72.06	121.5	72.06	V-C	2.3890E+05	-9.050	50.50	1.000
1.000	122.6	0.000	0.000	5AL_158_160_L_0							
183 D	6.166	0.000	121.9	72.32	121.9	72.32	V-C	2.3890E+05	-9.100	51.00	1.000
1.000	123.3	0.000	0.000	5AL_158_160_L_0							
184 D	6.205	0.000	122.4	72.59	122.4	72.59	V-C	2.3890E+05	-9.150	51.50	1.000
1.000	124.1	0.000	0.000	5AL_158_160_L_0							
185 D	6.243	0.000	122.8	72.86	122.8	72.86	V-C	2.3890E+05	-9.200	52.00	1.000
1.000	124.9	0.000	0.000	5AL_158_160_L_0							
186 D	6.281	0.000	123.3	73.12	123.3	73.12	V-C	2.3890E+05	-9.250	52.50	1.000
1.000	125.6	0.000	0.000	5AL_158_160_L_0							
187 D	6.320	0.000	123.7	73.39	123.7	73.39	V-C	2.3890E+05	-9.300	53.00	1.000
1.000	126.4	0.000	0.000	5AL_158_160_L_0							
188 D	6.358	0.000	124.2	73.66	124.2	73.66	V-C	2.3890E+05	-9.350	53.50	1.000
1.000	127.2	0.000	0.000	5AL_158_160_L_0							
189 D	6.396	0.000	124.6	73.93	124.6	73.93	V-C	2.3890E+05	-9.400	54.00	1.000
1.000	127.9	0.000	0.000	5AL_158_160_L_0							
190 D	6.435	0.000	125.1	74.19	125.1	74.19	V-C	2.3890E+05	-9.450	54.50	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VIO100.004	A	47 di 401

RELAZIONE DI CALCOLO

1.000	128.7	0.000	0.000	5AL_158_160_L_0							
191 D	6.473	0.000	125.5	74.46	125.5	74.46	V-C	2.3890E+05	-9.500	55.00	1.000
1.000	129.5	0.000	0.000	5AL_158_160_L_0							
192 D	6.511	0.000	126.0	74.73	126.0	74.73	V-C	2.3890E+05	-9.550	55.50	1.000
1.000	130.2	0.000	0.000	5AL_158_160_L_0							
193 D	6.550	0.000	126.4	74.99	126.4	74.99	V-C	2.3890E+05	-9.600	56.00	1.000
1.000	131.0	0.000	0.000	5AL_158_160_L_0							
194 D	6.588	0.000	126.9	75.26	126.9	75.26	V-C	2.3890E+05	-9.650	56.50	1.000
1.000	131.8	0.000	0.000	5AL_158_160_L_0							
195 D	6.626	0.000	127.3	75.53	127.3	75.53	V-C	2.3890E+05	-9.700	57.00	1.000
1.000	132.5	0.000	0.000	5AL_158_160_L_0							
196 D	6.665	0.000	127.8	75.79	127.8	75.79	V-C	2.3890E+05	-9.750	57.50	1.000
1.000	133.3	0.000	0.000	5AL_158_160_L_0							
197 D	6.703	0.000	128.2	76.06	128.2	76.06	V-C	2.3890E+05	-9.800	58.00	1.000
1.000	134.1	0.000	0.000	5AL_158_160_L_0							
198 D	6.741	0.000	128.7	76.33	128.7	76.33	V-C	2.3890E+05	-9.850	58.50	1.000
1.000	134.8	0.000	0.000	5AL_158_160_L_0							
199 D	6.780	0.000	129.1	76.60	129.1	76.60	V-C	2.3890E+05	-9.900	59.00	1.000
1.000	135.6	0.000	0.000	5AL_158_160_L_0							
200 D	6.817	0.000	129.6	76.86	129.6	76.86	V-C	2.3890E+05	-9.950	59.50	1.000
1.000	136.4	0.000	0.000	5AL_158_160_L_0							
201 D	3.427	0.000	130.0	77.13	130.0	77.13	V-C	2.3890E+05	-10.00	60.00	1.000
1.000	137.1	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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Exe Time :21 June 2016 11:57:44

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement 33
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****				

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM= 8370. RIMNOR= 0.000
RENORM= 570.4 REMNOR= 0.000 RATIO =0.2611 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 8.507 RMMAX = 0.000
RTSMAL=0.1000E-04 RMSMAL= 0.000
RDT = 8370. RDR = 0.000
RATIOT=0.2611 RATOR= 0.000
MAX UN= 1.691 IEQ= 371 NODE 186 DOF 1 Y-DISPL.F
MIN UN= 0.000 IEQ= 2 NODE 1 DOF 2 X-ROT. F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM= 8370. RIMNOR= 0.000
RENORM=0.6102E-18 REMNOR=0.1458E-21 RATIO =0.8539E-11 TOLER =0.1000E-03 CONVERGED !
RFMAX = 8.507 RMMAX = 0.000
RTSMAL=0.1000E-04 RMSMAL= 0.000
RDT = 8370. RDR = 0.000
RATIOT=0.8539E-11 RATOR= 0.000
MAX UN=0.9814E-10 IEQ= 169 NODE 85 DOF 1 Y-DISPL.F
MIN UN=-.1660E-09 IEQ= 281 NODE 141 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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Exe Time :21 June 2016 11:57:44



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	48 di 401

RELAZIONE DI CALCOLO

paratia_mario

SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F (02)	X-ROT. F (04)
1	4.7644076E-05	1.2022912E-15
2	4.7644076E-05	1.2017316E-15
3	4.7644076E-05	1.2008242E-15
4	4.7644076E-05	1.1979229E-15
5	4.7644076E-05	1.1932089E-15
6	4.7644076E-05	1.1866834E-15
7	4.7644076E-05	1.1793663E-15
8	4.7644076E-05	1.1708143E-15
9	4.7644076E-05	1.1609455E-15
10	4.7644076E-05	1.1517979E-15
11	4.7644076E-05	1.1421977E-15
12	4.7644076E-05	1.1323382E-15
13	4.7644076E-05	1.1230361E-15
14	4.7644076E-05	1.1155178E-15
15	4.7644076E-05	1.1068383E-15
16	4.7644076E-05	1.0946834E-15
17	4.7644076E-05	1.0781103E-15
18	4.7644076E-05	1.0575952E-15
19	4.7644076E-05	1.0342916E-15
20	4.7644076E-05	1.0084063E-15
21	4.7644076E-05	9.7907522E-16
22	4.7644076E-05	9.4645598E-16
23	4.7644076E-05	9.1251198E-16
24	4.7644076E-05	8.7751427E-16
25	4.7644076E-05	8.3990940E-16
26	4.7644076E-05	8.0023946E-16
27	4.7644076E-05	7.5916175E-16
28	4.7644076E-05	7.1888364E-16
29	4.7644076E-05	6.8158200E-16
30	4.7644076E-05	6.4653008E-16
31	4.7644076E-05	6.1409042E-16
32	4.7644076E-05	5.8558437E-16
33	4.7644076E-05	5.6034956E-16
34	4.7644076E-05	5.3524859E-16
35	4.7644076E-05	5.0742695E-16
36	4.7644076E-05	4.7769101E-16
37	4.7644076E-05	4.4769249E-16
38	4.7644076E-05	4.1735854E-16
39	4.7644076E-05	3.8628768E-16
40	4.7644076E-05	3.5424273E-16
41	4.7644076E-05	3.2194198E-16
42	4.7644076E-05	2.8995632E-16
43	4.7644076E-05	2.5757933E-16
44	4.7644076E-05	2.2458740E-16
45	4.7644076E-05	1.9235949E-16
46	4.7644076E-05	1.6117512E-16
47	4.7644076E-05	1.2956047E-16
48	4.7644076E-05	9.8333749E-17
49	4.7644076E-05	6.8052321E-17
50	4.7644076E-05	4.0891363E-17
51	4.7644076E-05	1.6805134E-17
52	4.7644076E-05	-5.0652570E-18
53	4.7644076E-05	-2.4535156E-17
54	4.7644076E-05	-4.0467846E-17
55	4.7644076E-05	-5.3246185E-17
56	4.7644076E-05	-6.5228313E-17
57	4.7644076E-05	-7.8237045E-17
58	4.7644076E-05	-9.3536154E-17
59	4.7644076E-05	-1.1290102E-16
60	4.7644076E-05	-1.3580310E-16
61	4.7644076E-05	-1.6272858E-16
62	4.7644076E-05	-1.8996408E-16
63	4.7644076E-05	-2.1827870E-16
64	4.7644076E-05	-2.5072006E-16
65	4.7644076E-05	-2.8748806E-16
66	4.7644076E-05	-3.2767639E-16
67	4.7644076E-05	-3.6960452E-16
68	4.7644076E-05	-4.1330126E-16
69	4.7644076E-05	-4.5864632E-16
70	4.7644076E-05	-5.0311216E-16
71	4.7644076E-05	-5.4532998E-16
72	4.7644076E-05	-5.8272817E-16

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	49 di 401

RELAZIONE DI CALCOLO

73	4.7644076E-05	-6.1566420E-16
74	4.7644076E-05	-6.4681299E-16
75	4.7644076E-05	-6.7476000E-16
76	4.7644076E-05	-6.9779082E-16
77	4.7644076E-05	-7.1317802E-16
78	4.7644076E-05	-7.2269190E-16
79	4.7644076E-05	-7.2923438E-16
80	4.7644076E-05	-7.3226507E-16
81	4.7644076E-05	-7.2860249E-16
82	4.7644076E-05	-7.1545146E-16
83	4.7644076E-05	-6.9414350E-16
84	4.7644076E-05	-6.6602201E-16
85	4.7644076E-05	-6.3318593E-16
86	4.7644076E-05	-5.9950451E-16
87	4.7644076E-05	-5.6677007E-16
88	4.7644076E-05	-5.3395771E-16
89	4.7644076E-05	-5.0026613E-16
90	4.7644076E-05	-4.6257316E-16
91	4.7644076E-05	-4.2081613E-16
92	4.7644076E-05	-3.7756663E-16
93	4.7644076E-05	-3.3417483E-16
94	4.7644076E-05	-2.9192482E-16
95	4.7644076E-05	-2.4841952E-16
96	4.7644076E-05	-2.0362164E-16
97	4.7644076E-05	-1.5760064E-16
98	4.7644076E-05	-1.1323306E-16
99	4.7644076E-05	-7.1044041E-17
100	4.7644076E-05	-2.9580085E-17
101	4.7644076E-05	1.1821192E-17
102	4.7644076E-05	5.1475886E-17
103	4.7644076E-05	8.6182214E-17
104	4.7644076E-05	1.1468318E-16
105	4.7644076E-05	1.4175943E-16
106	4.7644076E-05	1.7009099E-16
107	4.7644076E-05	1.9925772E-16
108	4.7644076E-05	2.2675919E-16
109	4.7644076E-05	2.4918523E-16
110	4.7644076E-05	2.6579724E-16
111	4.7644076E-05	2.7553643E-16
112	4.7644076E-05	2.7887882E-16
113	4.7644076E-05	2.7528401E-16
114	4.7644076E-05	2.6416925E-16
115	4.7644076E-05	2.4544135E-16
116	4.7644076E-05	2.2180405E-16
117	4.7644076E-05	1.9447538E-16
118	4.7644076E-05	1.6316904E-16
119	4.7644076E-05	1.2709391E-16
120	4.7644076E-05	8.8667409E-17
121	4.7644076E-05	5.1159096E-17
122	4.7644076E-05	1.6474791E-17
123	4.7644076E-05	-1.8111258E-17
124	4.7644076E-05	-5.2051869E-17
125	4.7644076E-05	-8.1936885E-17
126	4.7644076E-05	-1.0353792E-16
127	4.7644076E-05	-1.1754446E-16
128	4.7644076E-05	-1.2659246E-16
129	4.7644076E-05	-1.3409548E-16
130	4.7644076E-05	-1.3997558E-16
131	4.7644076E-05	-1.4291648E-16
132	4.7644076E-05	-1.4049735E-16
133	4.7644076E-05	-1.3271820E-16
134	4.7644076E-05	-1.2257753E-16
135	4.7644076E-05	-1.1153899E-16
136	4.7644076E-05	-9.9180782E-17
137	4.7644076E-05	-8.5282665E-17
138	4.7644076E-05	-7.0579867E-17
139	4.7644076E-05	-5.6322609E-17
140	4.7644076E-05	-4.2492255E-17
141	4.7644076E-05	-2.7911430E-17
142	4.7644076E-05	-9.9424727E-18
143	4.7644076E-05	1.0870821E-17
144	4.7644076E-05	3.0830305E-17
145	4.7644076E-05	4.7820092E-17
146	4.7644076E-05	6.4410079E-17
147	4.7644076E-05	8.4306883E-17
148	4.7644076E-05	1.0691250E-16
149	4.7644076E-05	1.2998568E-16
150	4.7644076E-05	1.5204241E-16
151	4.7644076E-05	1.7059413E-16
152	4.7644076E-05	1.8765846E-16
153	4.7644076E-05	2.0502432E-16



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	50 di 401

RELAZIONE DI CALCOLO

154	4.7644076E-05	2.2208696E-16
155	4.7644076E-05	2.3745722E-16
156	4.7644076E-05	2.4809087E-16
157	4.7644076E-05	2.5482139E-16
158	4.7644076E-05	2.6053039E-16
159	4.7644076E-05	2.6775050E-16
160	4.7644076E-05	2.7584475E-16
161	4.7644076E-05	2.8134877E-16
162	4.7644076E-05	2.8413212E-16
163	4.7644076E-05	2.8555683E-16
164	4.7644076E-05	2.8614806E-16
165	4.7644076E-05	2.8350193E-16
166	4.7644076E-05	2.7638685E-16
167	4.7644076E-05	2.6515350E-16
168	4.7644076E-05	2.5132992E-16
169	4.7644076E-05	2.3641537E-16
170	4.7644076E-05	2.2192263E-16
171	4.7644076E-05	2.0822780E-16
172	4.7644076E-05	1.9655230E-16
173	4.7644076E-05	1.8703165E-16
174	4.7644076E-05	1.7702142E-16
175	4.7644076E-05	1.6613874E-16
176	4.7644076E-05	1.5678580E-16
177	4.7644076E-05	1.4925737E-16
178	4.7644076E-05	1.4292834E-16
179	4.7644076E-05	1.3869317E-16
180	4.7644076E-05	1.3437669E-16
181	4.7644076E-05	1.2738528E-16
182	4.7644076E-05	1.1664999E-16
183	4.7644076E-05	1.0192517E-16
184	4.7644076E-05	8.4871007E-17
185	4.7644076E-05	6.6214260E-17
186	4.7644076E-05	4.6730808E-17
187	4.7644076E-05	2.7013575E-17
188	4.7644076E-05	5.2329695E-18
189	4.7644076E-05	-1.8146834E-17
190	4.7644076E-05	-4.2673520E-17
191	4.7644076E-05	-6.6288798E-17
192	4.7644076E-05	-8.9456844E-17
193	4.7644076E-05	-1.1272653E-16
194	4.7644076E-05	-1.3522542E-16
195	4.7644076E-05	-1.5734484E-16
196	4.7644076E-05	-1.7770412E-16
197	4.7644076E-05	-1.9660482E-16
198	4.7644076E-05	-2.1183616E-16
199	4.7644076E-05	-2.2177017E-16
200	4.7644076E-05	-2.2668635E-16
201	4.7644076E-05	-2.2756580E-16

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.Nominal_63
Exe Time :21 June 2016 11:57:44

paratia_mario

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
1 D	0.2846	-4.7644E-05	57.00	11.38	57.00	33.82	UL-RL	4.7091E+05	0.000	0.000	1.000
1.000	11.38	0.000	0.000	5AL_158_160_L_0							
2 D	0.5973	-4.7644E-05	57.95	11.95	57.95	34.38	UL-RL	4.7091E+05	-5.0000E-02	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	51 di 401

1.000		11.95	0.000	0.000	SAL_158_160_L_0						
3 D	0.6255	-4.7644E-05	58.90	12.51	58.90	34.95	UL-RL	4.7091E+05	-0.1000	0.000	1.000
1.000		12.51	0.000	0.000	SAL_158_160_L_0						
4 D	0.6537	-4.7644E-05	59.85	13.07	59.85	35.51	UL-RL	4.7091E+05	-0.1500	0.000	1.000
1.000		13.07	0.000	0.000	SAL_158_160_L_0						
5 D	0.6818	-4.7644E-05	60.80	13.64	60.80	36.07	UL-RL	4.7091E+05	-0.2000	0.000	1.000
1.000		13.64	0.000	0.000	SAL_158_160_L_0						
6 D	0.7100	-4.7644E-05	61.75	14.20	61.75	36.64	UL-RL	4.7091E+05	-0.2500	0.000	1.000
1.000		14.20	0.000	0.000	SAL_158_160_L_0						
7 D	0.7382	-4.7644E-05	62.70	14.76	62.70	37.20	UL-RL	4.7091E+05	-0.3000	0.000	1.000
1.000		14.76	0.000	0.000	SAL_158_160_L_0						
8 D	0.7664	-4.7644E-05	63.65	15.33	63.65	37.76	UL-RL	4.7091E+05	-0.3500	0.000	1.000
1.000		15.33	0.000	0.000	SAL_158_160_L_0						
9 D	0.7946	-4.7644E-05	64.60	15.89	64.60	38.33	UL-RL	4.7091E+05	-0.4000	0.000	1.000
1.000		15.89	0.000	0.000	SAL_158_160_L_0						
10 D	0.8227	-4.7644E-05	65.55	16.45	65.55	38.89	UL-RL	4.7091E+05	-0.4500	0.000	1.000
1.000		16.45	0.000	0.000	SAL_158_160_L_0						
11 D	0.8509	-4.7644E-05	66.50	17.02	66.50	39.45	UL-RL	4.7091E+05	-0.5000	0.000	1.000
1.000		17.02	0.000	0.000	SAL_158_160_L_0						
12 D	0.8791	-4.7644E-05	67.45	17.58	67.45	40.02	UL-RL	4.7091E+05	-0.5500	0.000	1.000
1.000		17.58	0.000	0.000	SAL_158_160_L_0						
13 D	0.9073	-4.7644E-05	68.40	18.15	68.40	40.58	UL-RL	4.7091E+05	-0.6000	0.000	1.000
1.000		18.15	0.000	0.000	SAL_158_160_L_0						
14 D	0.9355	-4.7644E-05	69.35	18.71	69.35	41.15	UL-RL	4.7091E+05	-0.6500	0.000	1.000
1.000		18.71	0.000	0.000	SAL_158_160_L_0						
15 D	0.9637	-4.7644E-05	70.30	19.27	70.30	41.71	UL-RL	4.7091E+05	-0.7000	0.000	1.000
1.000		19.27	0.000	0.000	SAL_158_160_L_0						
16 D	0.9918	-4.7644E-05	71.25	19.84	71.25	42.27	UL-RL	4.7091E+05	-0.7500	0.000	1.000
1.000		19.84	0.000	0.000	SAL_158_160_L_0						
17 D	1.020	-4.7644E-05	72.20	20.40	72.20	42.84	UL-RL	4.7091E+05	-0.8000	0.000	1.000
1.000		20.40	0.000	0.000	SAL_158_160_L_0						
18 D	1.048	-4.7644E-05	73.15	20.96	73.15	43.40	UL-RL	4.7091E+05	-0.8500	0.000	1.000
1.000		20.96	0.000	0.000	SAL_158_160_L_0						
19 D	1.076	-4.7644E-05	74.10	21.53	74.10	43.96	UL-RL	4.7091E+05	-0.9000	0.000	1.000
1.000		21.53	0.000	0.000	SAL_158_160_L_0						
20 D	1.105	-4.7644E-05	75.05	22.09	75.05	44.53	UL-RL	4.7091E+05	-0.9500	0.000	1.000
1.000		22.09	0.000	0.000	SAL_158_160_L_0						
21 D	1.133	-4.7644E-05	76.00	22.65	76.00	45.09	UL-RL	4.7091E+05	-1.000	0.000	1.000
1.000		22.65	0.000	0.000	SAL_158_160_L_0						
22 D	1.161	-4.7644E-05	76.95	23.22	76.95	45.65	UL-RL	4.7091E+05	-1.050	0.000	1.000
1.000		23.22	0.000	0.000	SAL_158_160_L_0						
23 D	1.189	-4.7644E-05	77.90	23.78	77.90	46.22	UL-RL	4.7091E+05	-1.100	0.000	1.000
1.000		23.78	0.000	0.000	SAL_158_160_L_0						
24 D	1.217	-4.7644E-05	78.85	24.35	78.85	46.78	UL-RL	4.7091E+05	-1.150	0.000	1.000
1.000		24.35	0.000	0.000	SAL_158_160_L_0						
25 D	1.245	-4.7644E-05	79.80	24.91	79.80	47.35	UL-RL	4.7091E+05	-1.200	0.000	1.000
1.000		24.91	0.000	0.000	SAL_158_160_L_0						
26 D	1.274	-4.7644E-05	80.75	25.47	80.75	47.91	UL-RL	4.7091E+05	-1.250	0.000	1.000
1.000		25.47	0.000	0.000	SAL_158_160_L_0						
27 D	1.302	-4.7644E-05	81.70	26.04	81.70	48.47	UL-RL	4.7091E+05	-1.300	0.000	1.000
1.000		26.04	0.000	0.000	SAL_158_160_L_0						
28 D	1.330	-4.7644E-05	82.65	26.60	82.65	49.04	UL-RL	4.7091E+05	-1.350	0.000	1.000
1.000		26.60	0.000	0.000	SAL_158_160_L_0						
29 D	1.358	-4.7644E-05	83.60	27.16	83.60	49.60	UL-RL	4.7091E+05	-1.400	0.000	1.000
1.000		27.16	0.000	0.000	SAL_158_160_L_0						
30 D	1.386	-4.7644E-05	84.55	27.73	84.55	50.16	UL-RL	4.7091E+05	-1.450	0.000	1.000
1.000		27.73	0.000	0.000	SAL_158_160_L_0						
31 D	1.415	-4.7644E-05	85.50	28.29	85.50	50.73	UL-RL	4.7091E+05	-1.500	0.000	1.000
1.000		28.29	0.000	0.000	SAL_158_160_L_0						
32 D	1.443	-4.7644E-05	86.45	28.85	86.45	51.29	UL-RL	4.7091E+05	-1.550	0.000	1.000
1.000		28.85	0.000	0.000	SAL_158_160_L_0						
33 D	1.471	-4.7644E-05	87.40	29.42	87.40	51.85	UL-RL	4.7091E+05	-1.600	0.000	1.000
1.000		29.42	0.000	0.000	SAL_158_160_L_0						
34 D	1.499	-4.7644E-05	88.35	29.98	88.35	52.42	UL-RL	4.7091E+05	-1.650	0.000	1.000
1.000		29.98	0.000	0.000	SAL_158_160_L_0						
35 D	1.527	-4.7644E-05	89.30	30.55	89.30	52.98	UL-RL	4.7091E+05	-1.700	0.000	1.000
1.000		30.55	0.000	0.000	SAL_158_160_L_0						
36 D	1.555	-4.7644E-05	90.25	31.11	90.25	53.55	UL-RL	4.7091E+05	-1.750	0.000	1.000
1.000		31.11	0.000	0.000	SAL_158_160_L_0						
37 D	1.584	-4.7644E-05	91.20	31.67	91.20	54.11	UL-RL	4.7091E+05	-1.800	0.000	1.000
1.000		31.67	0.000	0.000	SAL_158_160_L_0						
38 D	1.612	-4.7644E-05	92.15	32.24	92.15	54.67	UL-RL	4.7091E+05	-1.850	0.000	1.000
1.000		32.24	0.000	0.000	SAL_158_160_L_0						
39 D	1.640	-4.7644E-05	93.10	32.80	93.10	55.24	UL-RL	4.7091E+05	-1.900	0.000	1.000
1.000		32.80	0.000	0.000	SAL_158_160_L_0						
40 D	1.668	-4.7644E-05	94.05	33.36	94.05	55.80	UL-RL	4.7091E+05	-1.950	0.000	1.000
1.000		33.36	0.000	0.000	SAL_158_160_L_0						
41 D	1.696	-4.7644E-05	95.00	33.93	95.00	56.36	UL-RL	4.7091E+05	-2.000	0.000	1.000
1.000		33.93	0.000	0.000	SAL_158_160_L_0						
42 D	1.725	-4.7644E-05	95.95	34.49	95.95	56.93	UL-RL	4.7091E+05	-2.050	0.000	1.000
1.000		34.49	0.000	0.000	SAL_158_160_L_0						

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	52 di 401

43 D	1.753	-4.7644E-05	96.90	35.05	96.90	57.49	UL-RL	4.7091E+05	-2.100	0.000	1.000
1.000	35.05	0.000	0.000	5AL_158_160_L_0							
44 D	1.781	-4.7644E-05	97.85	35.62	97.85	58.05	UL-RL	4.7091E+05	-2.150	0.000	1.000
1.000	35.62	0.000	0.000	5AL_158_160_L_0							
45 D	1.809	-4.7644E-05	98.80	36.18	98.80	58.62	UL-RL	4.7091E+05	-2.200	0.000	1.000
1.000	36.18	0.000	0.000	5AL_158_160_L_0							
46 D	1.837	-4.7644E-05	99.75	36.75	99.75	59.18	UL-RL	4.7091E+05	-2.250	0.000	1.000
1.000	36.75	0.000	0.000	5AL_158_160_L_0							
47 D	1.865	-4.7644E-05	100.7	37.31	100.7	59.75	UL-RL	4.7091E+05	-2.300	0.000	1.000
1.000	37.31	0.000	0.000	5AL_158_160_L_0							
48 D	1.894	-4.7644E-05	101.6	37.87	101.6	60.31	UL-RL	4.7091E+05	-2.350	0.000	1.000
1.000	37.87	0.000	0.000	5AL_158_160_L_0							
49 D	1.922	-4.7644E-05	102.6	38.44	102.6	60.87	UL-RL	4.7091E+05	-2.400	0.000	1.000
1.000	38.44	0.000	0.000	5AL_158_160_L_0							
50 D	1.950	-4.7644E-05	103.5	39.00	103.5	61.44	UL-RL	4.7091E+05	-2.450	0.000	1.000
1.000	39.00	0.000	0.000	5AL_158_160_L_0							
51 D	1.978	-4.7644E-05	104.5	39.56	104.5	62.00	UL-RL	4.7091E+05	-2.500	0.000	1.000
1.000	39.56	0.000	0.000	5AL_158_160_L_0							
52 D	2.006	-4.7644E-05	105.4	40.13	105.4	62.56	UL-RL	4.7091E+05	-2.550	0.000	1.000
1.000	40.13	0.000	0.000	5AL_158_160_L_0							
53 D	2.035	-4.7644E-05	106.4	40.69	106.4	63.13	UL-RL	4.7091E+05	-2.600	0.000	1.000
1.000	40.69	0.000	0.000	5AL_158_160_L_0							
54 D	2.063	-4.7644E-05	107.3	41.25	107.3	63.69	UL-RL	4.7091E+05	-2.650	0.000	1.000
1.000	41.25	0.000	0.000	5AL_158_160_L_0							
55 D	2.091	-4.7644E-05	108.3	41.82	108.3	64.25	UL-RL	4.7091E+05	-2.700	0.000	1.000
1.000	41.82	0.000	0.000	5AL_158_160_L_0							
56 D	2.119	-4.7644E-05	109.2	42.38	109.2	64.82	UL-RL	4.7091E+05	-2.750	0.000	1.000
1.000	42.38	0.000	0.000	5AL_158_160_L_0							
57 D	2.147	-4.7644E-05	110.2	42.95	110.2	65.38	UL-RL	4.7091E+05	-2.800	0.000	1.000
1.000	42.95	0.000	0.000	5AL_158_160_L_0							
58 D	2.175	-4.7644E-05	111.1	43.51	111.1	65.95	UL-RL	4.7091E+05	-2.850	0.000	1.000
1.000	43.51	0.000	0.000	5AL_158_160_L_0							
59 D	2.204	-4.7644E-05	112.1	44.07	112.1	66.51	UL-RL	4.7091E+05	-2.900	0.000	1.000
1.000	44.07	0.000	0.000	5AL_158_160_L_0							
60 D	2.232	-4.7644E-05	113.0	44.64	113.0	67.07	UL-RL	4.7091E+05	-2.950	0.000	1.000
1.000	44.64	0.000	0.000	5AL_158_160_L_0							
61 D	2.260	-4.7644E-05	114.0	45.20	114.0	67.64	UL-RL	4.7091E+05	-3.000	0.000	1.000
1.000	45.20	0.000	0.000	5AL_158_160_L_0							
62 D	2.288	-4.7644E-05	114.9	45.76	114.9	68.20	UL-RL	4.7091E+05	-3.050	0.000	1.000
1.000	45.76	0.000	0.000	5AL_158_160_L_0							
63 D	2.316	-4.7644E-05	115.9	46.33	115.9	68.76	UL-RL	4.7091E+05	-3.100	0.000	1.000
1.000	46.33	0.000	0.000	5AL_158_160_L_0							
64 D	2.345	-4.7644E-05	116.8	46.89	116.8	69.33	UL-RL	4.7091E+05	-3.150	0.000	1.000
1.000	46.89	0.000	0.000	5AL_158_160_L_0							
65 D	2.373	-4.7644E-05	117.8	47.45	117.8	69.89	UL-RL	4.7091E+05	-3.200	0.000	1.000
1.000	47.45	0.000	0.000	5AL_158_160_L_0							
66 D	2.401	-4.7644E-05	118.7	48.02	118.7	70.45	UL-RL	4.7091E+05	-3.250	0.000	1.000
1.000	48.02	0.000	0.000	5AL_158_160_L_0							
67 D	2.429	-4.7644E-05	119.7	48.58	119.7	71.02	UL-RL	4.7091E+05	-3.300	0.000	1.000
1.000	48.58	0.000	0.000	5AL_158_160_L_0							
68 D	2.457	-4.7644E-05	120.6	49.15	120.6	71.58	UL-RL	4.7091E+05	-3.350	0.000	1.000
1.000	49.15	0.000	0.000	5AL_158_160_L_0							
69 D	2.485	-4.7644E-05	121.6	49.71	121.6	72.15	UL-RL	4.7091E+05	-3.400	0.000	1.000
1.000	49.71	0.000	0.000	5AL_158_160_L_0							
70 D	2.514	-4.7644E-05	122.5	50.27	122.5	72.71	UL-RL	4.7091E+05	-3.450	0.000	1.000
1.000	50.27	0.000	0.000	5AL_158_160_L_0							
71 D	2.542	-4.7644E-05	123.5	50.84	123.5	73.27	UL-RL	4.7091E+05	-3.500	0.000	1.000
1.000	50.84	0.000	0.000	5AL_158_160_L_0							
72 D	2.570	-4.7644E-05	124.4	51.40	124.4	73.84	UL-RL	4.7091E+05	-3.550	0.000	1.000
1.000	51.40	0.000	0.000	5AL_158_160_L_0							
73 D	2.598	-4.7644E-05	125.4	51.96	125.4	74.40	UL-RL	4.7091E+05	-3.600	0.000	1.000
1.000	51.96	0.000	0.000	5AL_158_160_L_0							
74 D	2.626	-4.7644E-05	126.3	52.53	126.3	74.96	UL-RL	4.7091E+05	-3.650	0.000	1.000
1.000	52.53	0.000	0.000	5AL_158_160_L_0							
75 D	2.655	-4.7644E-05	127.3	53.09	127.3	75.53	UL-RL	4.7091E+05	-3.700	0.000	1.000
1.000	53.09	0.000	0.000	5AL_158_160_L_0							
76 D	2.683	-4.7644E-05	128.2	53.65	128.2	76.09	UL-RL	4.7091E+05	-3.750	0.000	1.000
1.000	53.65	0.000	0.000	5AL_158_160_L_0							
77 D	2.711	-4.7644E-05	129.2	54.22	129.2	76.65	UL-RL	4.7091E+05	-3.800	0.000	1.000
1.000	54.22	0.000	0.000	5AL_158_160_L_0							
78 D	2.739	-4.7644E-05	130.1	54.78	130.1	77.22	UL-RL	4.7091E+05	-3.850	0.000	1.000
1.000	54.78	0.000	0.000	5AL_158_160_L_0							
79 D	2.767	-4.7644E-05	131.1	55.35	131.1	77.78	UL-RL	4.7091E+05	-3.900	0.000	1.000
1.000	55.35	0.000	0.000	5AL_158_160_L_0							
80 D	2.795	-4.7644E-05	132.0	55.91	132.0	78.35	UL-RL	4.7091E+05	-3.950	0.000	1.000
1.000	55.91	0.000	0.000	5AL_158_160_L_0							
81 D	2.824	-4.7644E-05	133.0	56.47	133.0	78.91	UL-RL	4.7091E+05	-4.000	0.000	1.000
1.000	56.47	0.000	0.000	5AL_158_160_L_0							
82 D	2.862	-4.7644E-05	133.4	56.74	133.4	79.18	UL-RL	4.7091E+05	-4.050	0.5000	1.000
1.000	57.24	0.000	0.000	5AL_158_160_L_0							
83 D	2.900	-4.7644E-05	133.9	57.01	133.9	79.44	UL-RL	4.7091E+05	-4.100	1.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	53 di 401

1.000	58.01	0.000	0.000	SAL_158_160_L_0							
84 D	2.939	-4.7644E-05	134.3	57.27	134.3	79.71	UL-RL	4.7091E+05	-4.150	1.500	1.000
1.000	58.77	0.000	0.000	SAL_158_160_L_0							
85 D	2.977	-4.7644E-05	134.8	57.54	134.8	79.98	UL-RL	4.7091E+05	-4.200	2.000	1.000
1.000	59.54	0.000	0.000	SAL_158_160_L_0							
86 D	3.015	-4.7644E-05	135.2	57.81	135.2	80.24	UL-RL	4.7091E+05	-4.250	2.500	1.000
1.000	60.31	0.000	0.000	SAL_158_160_L_0							
87 D	3.054	-4.7644E-05	135.7	58.07	135.7	80.51	UL-RL	4.7091E+05	-4.300	3.000	1.000
1.000	61.07	0.000	0.000	SAL_158_160_L_0							
88 D	3.092	-4.7644E-05	136.1	58.34	136.1	80.78	UL-RL	4.7091E+05	-4.350	3.500	1.000
1.000	61.84	0.000	0.000	SAL_158_160_L_0							
89 D	3.130	-4.7644E-05	136.6	58.61	136.6	81.04	UL-RL	4.7091E+05	-4.400	4.000	1.000
1.000	62.61	0.000	0.000	SAL_158_160_L_0							
90 D	3.169	-4.7644E-05	137.0	58.88	137.0	81.31	UL-RL	4.7091E+05	-4.450	4.500	1.000
1.000	63.38	0.000	0.000	SAL_158_160_L_0							
91 D	3.207	-4.7644E-05	137.5	59.14	137.5	81.58	UL-RL	4.7091E+05	-4.500	5.000	1.000
1.000	64.14	0.000	0.000	SAL_158_160_L_0							
92 D	3.245	-4.7644E-05	137.9	59.41	137.9	81.85	UL-RL	4.7091E+05	-4.550	5.500	1.000
1.000	64.91	0.000	0.000	SAL_158_160_L_0							
93 D	3.284	-4.7644E-05	138.4	59.68	138.4	82.11	UL-RL	4.7091E+05	-4.600	6.000	1.000
1.000	65.68	0.000	0.000	SAL_158_160_L_0							
94 D	3.322	-4.7644E-05	138.9	59.94	138.9	82.38	UL-RL	4.7091E+05	-4.650	6.500	1.000
1.000	66.44	0.000	0.000	SAL_158_160_L_0							
95 D	3.361	-4.7644E-05	139.3	60.21	139.3	82.65	UL-RL	4.7091E+05	-4.700	7.000	1.000
1.000	67.21	0.000	0.000	SAL_158_160_L_0							
96 D	3.399	-4.7644E-05	139.8	60.48	139.8	82.91	UL-RL	4.7091E+05	-4.750	7.500	1.000
1.000	67.98	0.000	0.000	SAL_158_160_L_0							
97 D	3.437	-4.7644E-05	140.2	60.74	140.2	83.18	UL-RL	4.7091E+05	-4.800	8.000	1.000
1.000	68.74	0.000	0.000	SAL_158_160_L_0							
98 D	3.476	-4.7644E-05	140.6	61.01	140.6	83.45	UL-RL	4.7091E+05	-4.850	8.500	1.000
1.000	69.51	0.000	0.000	SAL_158_160_L_0							
99 D	3.514	-4.7644E-05	141.1	61.28	141.1	83.71	UL-RL	4.7091E+05	-4.900	9.000	1.000
1.000	70.28	0.000	0.000	SAL_158_160_L_0							
100 D	3.552	-4.7644E-05	141.6	61.55	141.6	83.98	UL-RL	4.7091E+05	-4.950	9.500	1.000
1.000	71.05	0.000	0.000	SAL_158_160_L_0							
101 D	3.591	-4.7644E-05	142.0	61.81	142.0	84.25	UL-RL	4.7091E+05	-5.000	10.00	1.000
1.000	71.81	0.000	0.000	SAL_158_160_L_0							
102 D	3.629	-4.7644E-05	142.5	62.08	142.5	84.52	UL-RL	4.7091E+05	-5.050	10.50	1.000
1.000	72.58	0.000	0.000	SAL_158_160_L_0							
103 D	3.667	-4.7644E-05	142.9	62.35	142.9	84.78	UL-RL	4.7091E+05	-5.100	11.00	1.000
1.000	73.35	0.000	0.000	SAL_158_160_L_0							
104 D	3.706	-4.7644E-05	143.4	62.61	143.4	85.05	UL-RL	4.7091E+05	-5.150	11.50	1.000
1.000	74.11	0.000	0.000	SAL_158_160_L_0							
105 D	3.744	-4.7644E-05	143.8	62.88	143.8	85.32	UL-RL	4.7091E+05	-5.200	12.00	1.000
1.000	74.88	0.000	0.000	SAL_158_160_L_0							
106 D	3.782	-4.7644E-05	144.3	63.15	144.3	85.58	UL-RL	4.7091E+05	-5.250	12.50	1.000
1.000	75.65	0.000	0.000	SAL_158_160_L_0							
107 D	3.821	-4.7644E-05	144.7	63.41	144.7	85.85	UL-RL	4.7091E+05	-5.300	13.00	1.000
1.000	76.41	0.000	0.000	SAL_158_160_L_0							
108 D	3.859	-4.7644E-05	145.2	63.68	145.2	86.12	UL-RL	4.7091E+05	-5.350	13.50	1.000
1.000	77.18	0.000	0.000	SAL_158_160_L_0							
109 D	3.897	-4.7644E-05	145.6	63.95	145.6	86.38	UL-RL	4.7091E+05	-5.400	14.00	1.000
1.000	77.95	0.000	0.000	SAL_158_160_L_0							
110 D	3.936	-4.7644E-05	146.1	64.22	146.1	86.65	UL-RL	4.7091E+05	-5.450	14.50	1.000
1.000	78.72	0.000	0.000	SAL_158_160_L_0							
111 D	3.974	-4.7644E-05	146.5	64.48	146.5	86.92	UL-RL	4.7091E+05	-5.500	15.00	1.000
1.000	79.48	0.000	0.000	SAL_158_160_L_0							
112 D	4.012	-4.7644E-05	147.0	64.75	147.0	87.19	UL-RL	4.7091E+05	-5.550	15.50	1.000
1.000	80.25	0.000	0.000	SAL_158_160_L_0							
113 D	4.051	-4.7644E-05	147.4	65.02	147.4	87.45	UL-RL	4.7091E+05	-5.600	16.00	1.000
1.000	81.02	0.000	0.000	SAL_158_160_L_0							
114 D	4.089	-4.7644E-05	147.9	65.28	147.9	87.72	UL-RL	4.7091E+05	-5.650	16.50	1.000
1.000	81.78	0.000	0.000	SAL_158_160_L_0							
115 D	4.128	-4.7644E-05	148.3	65.55	148.3	87.99	UL-RL	4.7091E+05	-5.700	17.00	1.000
1.000	82.55	0.000	0.000	SAL_158_160_L_0							
116 D	4.166	-4.7644E-05	148.8	65.82	148.8	88.25	UL-RL	4.7091E+05	-5.750	17.50	1.000
1.000	83.32	0.000	0.000	SAL_158_160_L_0							
117 D	4.204	-4.7644E-05	149.2	66.08	149.2	88.52	UL-RL	4.7091E+05	-5.800	18.00	1.000
1.000	84.08	0.000	0.000	SAL_158_160_L_0							
118 D	4.243	-4.7644E-05	149.7	66.35	149.7	88.79	UL-RL	4.7091E+05	-5.850	18.50	1.000
1.000	84.85	0.000	0.000	SAL_158_160_L_0							
119 D	4.281	-4.7644E-05	150.1	66.62	150.1	89.05	UL-RL	4.7091E+05	-5.900	19.00	1.000
1.000	85.62	0.000	0.000	SAL_158_160_L_0							
120 D	4.319	-4.7644E-05	150.6	66.89	150.6	89.32	UL-RL	4.7091E+05	-5.950	19.50	1.000
1.000	86.39	0.000	0.000	SAL_158_160_L_0							
121 D	4.358	-4.7644E-05	151.0	67.15	151.0	89.59	UL-RL	4.7091E+05	-6.000	20.00	1.000
1.000	87.15	0.000	0.000	SAL_158_160_L_0							
122 D	4.396	-4.7644E-05	151.5	67.42	151.5	89.86	UL-RL	4.7091E+05	-6.050	20.50	1.000
1.000	87.92	0.000	0.000	SAL_158_160_L_0							
123 D	4.434	-4.7644E-05	151.9	67.69	151.9	90.12	UL-RL	4.7091E+05	-6.100	21.00	1.000
1.000	88.69	0.000	0.000	SAL_158_160_L_0							

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	54 di 401

RELAZIONE DI CALCOLO

124 D	4.473	-4.7644E-05	152.4	67.95	152.4	90.39	UL-RL	4.7091E+05	-6.150	21.50	1.000
1.000	89.45	0.000	0.000	5AL_158_160_L_0							
125 D	4.511	-4.7644E-05	152.8	68.22	152.8	90.66	UL-RL	4.7091E+05	-6.200	22.00	1.000
1.000	90.22	0.000	0.000	5AL_158_160_L_0							
126 D	4.549	-4.7644E-05	153.3	68.49	153.3	90.92	UL-RL	4.7091E+05	-6.250	22.50	1.000
1.000	90.99	0.000	0.000	5AL_158_160_L_0							
127 D	4.588	-4.7644E-05	153.7	68.75	153.7	91.19	UL-RL	4.7091E+05	-6.300	23.00	1.000
1.000	91.75	0.000	0.000	5AL_158_160_L_0							
128 D	4.626	-4.7644E-05	154.2	69.02	154.2	91.46	UL-RL	4.7091E+05	-6.350	23.50	1.000
1.000	92.52	0.000	0.000	5AL_158_160_L_0							
129 D	4.664	-4.7644E-05	154.6	69.29	154.6	91.72	UL-RL	4.7091E+05	-6.400	24.00	1.000
1.000	93.29	0.000	0.000	5AL_158_160_L_0							
130 D	4.703	-4.7644E-05	155.1	69.56	155.1	91.99	UL-RL	4.7091E+05	-6.450	24.50	1.000
1.000	94.06	0.000	0.000	5AL_158_160_L_0							
131 D	4.741	-4.7644E-05	155.5	69.82	155.5	92.26	UL-RL	4.7091E+05	-6.500	25.00	1.000
1.000	94.82	0.000	0.000	5AL_158_160_L_0							
132 D	4.779	-4.7644E-05	156.0	70.09	156.0	92.53	UL-RL	4.7091E+05	-6.550	25.50	1.000
1.000	95.59	0.000	0.000	5AL_158_160_L_0							
133 D	4.818	-4.7644E-05	156.4	70.36	156.4	92.79	UL-RL	4.7091E+05	-6.600	26.00	1.000
1.000	96.36	0.000	0.000	5AL_158_160_L_0							
134 D	4.856	-4.7644E-05	156.9	70.62	156.9	93.06	UL-RL	4.7091E+05	-6.650	26.50	1.000
1.000	97.12	0.000	0.000	5AL_158_160_L_0							
135 D	4.895	-4.7644E-05	157.3	70.89	157.3	93.33	UL-RL	4.7091E+05	-6.700	27.00	1.000
1.000	97.89	0.000	0.000	5AL_158_160_L_0							
136 D	4.933	-4.7644E-05	157.8	71.16	157.8	93.59	UL-RL	4.7091E+05	-6.750	27.50	1.000
1.000	98.66	0.000	0.000	5AL_158_160_L_0							
137 D	4.971	-4.7644E-05	158.2	71.42	158.2	93.86	UL-RL	4.7091E+05	-6.800	28.00	1.000
1.000	99.42	0.000	0.000	5AL_158_160_L_0							
138 D	5.010	-4.7644E-05	158.7	71.69	158.7	94.13	UL-RL	4.7091E+05	-6.850	28.50	1.000
1.000	100.2	0.000	0.000	5AL_158_160_L_0							
139 D	5.048	-4.7644E-05	159.1	71.96	159.1	94.39	UL-RL	4.7091E+05	-6.900	29.00	1.000
1.000	101.0	0.000	0.000	5AL_158_160_L_0							
140 D	5.086	-4.7644E-05	159.6	72.23	159.6	94.66	UL-RL	4.7091E+05	-6.950	29.50	1.000
1.000	101.7	0.000	0.000	5AL_158_160_L_0							
141 D	5.125	-4.7644E-05	160.0	72.49	160.0	94.93	UL-RL	4.7091E+05	-7.000	30.00	1.000
1.000	102.5	0.000	0.000	5AL_158_160_L_0							
142 D	5.163	-4.7644E-05	160.5	72.76	160.5	95.20	UL-RL	4.7091E+05	-7.050	30.50	1.000
1.000	103.3	0.000	0.000	5AL_158_160_L_0							
143 D	5.201	-4.7644E-05	160.9	73.03	160.9	95.46	UL-RL	4.7091E+05	-7.100	31.00	1.000
1.000	104.0	0.000	0.000	5AL_158_160_L_0							
144 D	5.240	-4.7644E-05	161.4	73.29	161.4	95.73	UL-RL	4.7091E+05	-7.150	31.50	1.000
1.000	104.8	0.000	0.000	5AL_158_160_L_0							
145 D	5.278	-4.7644E-05	161.8	73.56	161.8	96.00	UL-RL	4.7091E+05	-7.200	32.00	1.000
1.000	105.6	0.000	0.000	5AL_158_160_L_0							
146 D	5.316	-4.7644E-05	162.3	73.83	162.3	96.26	UL-RL	4.7091E+05	-7.250	32.50	1.000
1.000	106.3	0.000	0.000	5AL_158_160_L_0							
147 D	5.355	-4.7644E-05	162.7	74.09	162.7	96.53	UL-RL	4.7091E+05	-7.300	33.00	1.000
1.000	107.1	0.000	0.000	5AL_158_160_L_0							
148 D	5.393	-4.7644E-05	163.2	74.36	163.2	96.80	UL-RL	4.7091E+05	-7.350	33.50	1.000
1.000	107.9	0.000	0.000	5AL_158_160_L_0							
149 D	5.431	-4.7644E-05	163.6	74.63	163.6	97.06	UL-RL	4.7091E+05	-7.400	34.00	1.000
1.000	108.6	0.000	0.000	5AL_158_160_L_0							
150 D	5.470	-4.7644E-05	164.1	74.90	164.1	97.33	UL-RL	4.7091E+05	-7.450	34.50	1.000
1.000	109.4	0.000	0.000	5AL_158_160_L_0							
151 D	5.508	-4.7644E-05	164.5	75.16	164.5	97.60	UL-RL	4.7091E+05	-7.500	35.00	1.000
1.000	110.2	0.000	0.000	5AL_158_160_L_0							
152 D	5.546	-4.7644E-05	165.0	75.43	165.0	97.86	UL-RL	4.7091E+05	-7.550	35.50	1.000
1.000	110.9	0.000	0.000	5AL_158_160_L_0							
153 D	5.585	-4.7644E-05	165.4	75.70	165.4	98.13	UL-RL	4.7091E+05	-7.600	36.00	1.000
1.000	111.7	0.000	0.000	5AL_158_160_L_0							
154 D	5.623	-4.7644E-05	165.9	75.96	165.9	98.40	UL-RL	4.7091E+05	-7.650	36.50	1.000
1.000	112.5	0.000	0.000	5AL_158_160_L_0							
155 D	5.662	-4.7644E-05	166.3	76.23	166.3	98.67	UL-RL	4.7091E+05	-7.700	37.00	1.000
1.000	113.2	0.000	0.000	5AL_158_160_L_0							
156 D	5.700	-4.7644E-05	166.8	76.50	166.8	98.93	UL-RL	4.7091E+05	-7.750	37.50	1.000
1.000	114.0	0.000	0.000	5AL_158_160_L_0							
157 D	5.738	-4.7644E-05	167.2	76.76	167.2	99.20	UL-RL	4.7091E+05	-7.800	38.00	1.000
1.000	114.8	0.000	0.000	5AL_158_160_L_0							
158 D	5.777	-4.7644E-05	167.7	77.03	167.7	99.47	UL-RL	4.7091E+05	-7.850	38.50	1.000
1.000	115.5	0.000	0.000	5AL_158_160_L_0							
159 D	5.815	-4.7644E-05	168.1	77.30	168.1	99.73	UL-RL	4.7091E+05	-7.900	39.00	1.000
1.000	116.3	0.000	0.000	5AL_158_160_L_0							
160 D	5.853	-4.7644E-05	168.6	77.56	168.6	100.0	UL-RL	4.7091E+05	-7.950	39.50	1.000
1.000	117.1	0.000	0.000	5AL_158_160_L_0							
161 D	5.892	-4.7644E-05	169.0	77.83	169.0	100.3	UL-RL	4.7091E+05	-8.000	40.00	1.000
1.000	117.8	0.000	0.000	5AL_158_160_L_0							
162 D	5.930	-4.7644E-05	169.5	78.10	169.5	100.5	UL-RL	4.7091E+05	-8.050	40.50	1.000
1.000	118.6	0.000	0.000	5AL_158_160_L_0							
163 D	5.968	-4.7644E-05	169.9	78.37	169.9	100.8	UL-RL	4.7091E+05	-8.100	41.00	1.000
1.000	119.4	0.000	0.000	5AL_158_160_L_0							
164 D	6.007	-4.7644E-05	170.4	78.63	170.4	101.1	UL-RL	4.7091E+05	-8.150	41.50	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	55 di 401

1.000	120.1	0.000	0.000	SAL_158_160_L_0							
165 D	6.045	-4.7644E-05	170.8	78.90	170.8	101.3	UL-RL	4.7091E+05	-8.200	42.00	1.000
1.000	120.9	0.000	0.000	SAL_158_160_L_0							
166 D	6.083	-4.7644E-05	171.3	79.17	171.3	101.6	UL-RL	4.7091E+05	-8.250	42.50	1.000
1.000	121.7	0.000	0.000	SAL_158_160_L_0							
167 D	6.122	-4.7644E-05	171.7	79.43	171.7	101.9	UL-RL	4.7091E+05	-8.300	43.00	1.000
1.000	122.4	0.000	0.000	SAL_158_160_L_0							
168 D	6.160	-4.7644E-05	172.2	79.70	172.2	102.1	UL-RL	4.7091E+05	-8.350	43.50	1.000
1.000	123.2	0.000	0.000	SAL_158_160_L_0							
169 D	6.198	-4.7644E-05	172.6	79.97	172.6	102.4	UL-RL	4.7091E+05	-8.400	44.00	1.000
1.000	124.0	0.000	0.000	SAL_158_160_L_0							
170 D	6.237	-4.7644E-05	173.1	80.23	173.1	102.7	UL-RL	4.7091E+05	-8.450	44.50	1.000
1.000	124.7	0.000	0.000	SAL_158_160_L_0							
171 D	6.275	-4.7644E-05	173.5	80.50	173.5	102.9	UL-RL	4.7091E+05	-8.500	45.00	1.000
1.000	125.5	0.000	0.000	SAL_158_160_L_0							
172 D	6.313	-4.7644E-05	174.0	80.77	174.0	103.2	UL-RL	4.7091E+05	-8.550	45.50	1.000
1.000	126.3	0.000	0.000	SAL_158_160_L_0							
173 D	6.352	-4.7644E-05	174.4	81.04	174.4	103.5	UL-RL	4.7091E+05	-8.600	46.00	1.000
1.000	127.0	0.000	0.000	SAL_158_160_L_0							
174 D	6.390	-4.7644E-05	174.9	81.30	174.9	103.7	UL-RL	4.7091E+05	-8.650	46.50	1.000
1.000	127.8	0.000	0.000	SAL_158_160_L_0							
175 D	6.428	-4.7644E-05	175.3	81.57	175.3	104.0	UL-RL	4.7091E+05	-8.700	47.00	1.000
1.000	128.6	0.000	0.000	SAL_158_160_L_0							
176 D	6.467	-4.7644E-05	175.8	81.84	175.8	104.3	UL-RL	4.7091E+05	-8.750	47.50	1.000
1.000	129.3	0.000	0.000	SAL_158_160_L_0							
177 D	6.505	-4.7644E-05	176.2	82.10	176.2	104.5	UL-RL	4.7091E+05	-8.800	48.00	1.000
1.000	130.1	0.000	0.000	SAL_158_160_L_0							
178 D	6.544	-4.7644E-05	176.7	82.37	176.7	104.8	UL-RL	4.7091E+05	-8.850	48.50	1.000
1.000	130.9	0.000	0.000	SAL_158_160_L_0							
179 D	6.582	-4.7644E-05	177.1	82.64	177.1	105.1	UL-RL	4.7091E+05	-8.900	49.00	1.000
1.000	131.6	0.000	0.000	SAL_158_160_L_0							
180 D	6.620	-4.7644E-05	177.6	82.90	177.6	105.3	UL-RL	4.7091E+05	-8.950	49.50	1.000
1.000	132.4	0.000	0.000	SAL_158_160_L_0							
181 D	6.659	-4.7644E-05	178.0	83.17	178.0	105.6	UL-RL	4.7091E+05	-9.000	50.00	1.000
1.000	133.2	0.000	0.000	SAL_158_160_L_0							
182 D	6.697	-4.7644E-05	178.5	83.44	178.5	105.9	UL-RL	4.7091E+05	-9.050	50.50	1.000
1.000	133.9	0.000	0.000	SAL_158_160_L_0							
183 D	6.735	-4.7644E-05	178.9	83.71	178.9	106.1	UL-RL	4.7091E+05	-9.100	51.00	1.000
1.000	134.7	0.000	0.000	SAL_158_160_L_0							
184 D	6.774	-4.7644E-05	179.4	83.97	179.4	106.4	UL-RL	4.7091E+05	-9.150	51.50	1.000
1.000	135.5	0.000	0.000	SAL_158_160_L_0							
185 D	6.812	-4.7644E-05	179.8	84.24	179.8	106.7	UL-RL	4.7091E+05	-9.200	52.00	1.000
1.000	136.2	0.000	0.000	SAL_158_160_L_0							
186 D	6.850	-4.7644E-05	180.3	84.51	180.3	106.9	UL-RL	4.7091E+05	-9.250	52.50	1.000
1.000	137.0	0.000	0.000	SAL_158_160_L_0							
187 D	6.889	-4.7644E-05	180.7	84.77	180.7	107.2	UL-RL	4.7091E+05	-9.300	53.00	1.000
1.000	137.8	0.000	0.000	SAL_158_160_L_0							
188 D	6.927	-4.7644E-05	181.2	85.04	181.2	107.5	UL-RL	4.7091E+05	-9.350	53.50	1.000
1.000	138.5	0.000	0.000	SAL_158_160_L_0							
189 D	6.965	-4.7644E-05	181.6	85.31	181.6	107.7	UL-RL	4.7091E+05	-9.400	54.00	1.000
1.000	139.3	0.000	0.000	SAL_158_160_L_0							
190 D	7.004	-4.7644E-05	182.1	85.57	182.1	108.0	UL-RL	4.7091E+05	-9.450	54.50	1.000
1.000	140.1	0.000	0.000	SAL_158_160_L_0							
191 D	7.042	-4.7644E-05	182.5	85.84	182.5	108.3	UL-RL	4.7091E+05	-9.500	55.00	1.000
1.000	140.8	0.000	0.000	SAL_158_160_L_0							
192 D	7.080	-4.7644E-05	183.0	86.11	183.0	108.5	UL-RL	4.7091E+05	-9.550	55.50	1.000
1.000	141.6	0.000	0.000	SAL_158_160_L_0							
193 D	7.119	-4.7644E-05	183.4	86.38	183.4	108.8	UL-RL	4.7091E+05	-9.600	56.00	1.000
1.000	142.4	0.000	0.000	SAL_158_160_L_0							
194 D	7.157	-4.7644E-05	183.9	86.64	183.9	109.1	UL-RL	4.7091E+05	-9.650	56.50	1.000
1.000	143.1	0.000	0.000	SAL_158_160_L_0							
195 D	7.195	-4.7644E-05	184.3	86.91	184.3	109.3	UL-RL	4.7091E+05	-9.700	57.00	1.000
1.000	143.9	0.000	0.000	SAL_158_160_L_0							
196 D	7.234	-4.7644E-05	184.8	87.18	184.8	109.6	UL-RL	4.7091E+05	-9.750	57.50	1.000
1.000	144.7	0.000	0.000	SAL_158_160_L_0							
197 D	7.272	-4.7644E-05	185.2	87.44	185.2	109.9	UL-RL	4.7091E+05	-9.800	58.00	1.000
1.000	145.4	0.000	0.000	SAL_158_160_L_0							
198 D	7.311	-4.7644E-05	185.7	87.71	185.7	110.1	UL-RL	4.7091E+05	-9.850	58.50	1.000
1.000	146.2	0.000	0.000	SAL_158_160_L_0							
199 D	7.349	-4.7644E-05	186.1	87.98	186.1	110.4	UL-RL	4.7091E+05	-9.900	59.00	1.000
1.000	147.0	0.000	0.000	SAL_158_160_L_0							
200 D	7.386	-4.7644E-05	186.6	88.24	186.6	110.7	UL-RL	4.7091E+05	-9.950	59.50	1.000
1.000	147.7	0.000	0.000	SAL_158_160_L_0							
201 D	3.711	-4.7644E-05	187.0	88.51	187.0	110.9	UL-RL	4.7091E+05	-10.00	60.00	1.000
1.000	148.5	0.000	0.000	SAL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	56 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.Nominal_63
Exe Time :21 June 2016 11:57:44

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

OR :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
1 D	0.2846	4.7644E-05	0.000	11.38	0.000	11.38	V-C	2.3890E+05	0.000	0.000	1.000
1.000	11.38	0.000	0.000	5AL_158_160_L_0							
2 D	0.5973	4.7644E-05	0.9500	11.95	0.9500	11.95	V-C	2.3890E+05	-5.0000E-02	0.000	1.000
1.000	11.95	0.000	0.000	5AL_158_160_L_0							
3 D	0.6255	4.7644E-05	1.900	12.51	1.900	12.51	V-C	2.3890E+05	-0.1000	0.000	1.000
1.000	12.51	0.000	0.000	5AL_158_160_L_0							
4 D	0.6537	4.7644E-05	2.850	13.07	2.850	13.07	V-C	2.3890E+05	-0.1500	0.000	1.000
1.000	13.07	0.000	0.000	5AL_158_160_L_0							
5 D	0.6818	4.7644E-05	3.800	13.64	3.800	13.64	V-C	2.3890E+05	-0.2000	0.000	1.000
1.000	13.64	0.000	0.000	5AL_158_160_L_0							
6 D	0.7100	4.7644E-05	4.750	14.20	4.750	14.20	V-C	2.3890E+05	-0.2500	0.000	1.000
1.000	14.20	0.000	0.000	5AL_158_160_L_0							
7 D	0.7382	4.7644E-05	5.700	14.76	5.700	14.76	V-C	2.3890E+05	-0.3000	0.000	1.000
1.000	14.76	0.000	0.000	5AL_158_160_L_0							
8 D	0.7664	4.7644E-05	6.650	15.33	6.650	15.33	V-C	2.3890E+05	-0.3500	0.000	1.000
1.000	15.33	0.000	0.000	5AL_158_160_L_0							
9 D	0.7946	4.7644E-05	7.600	15.89	7.600	15.89	V-C	2.3890E+05	-0.4000	0.000	1.000
1.000	15.89	0.000	0.000	5AL_158_160_L_0							
10 D	0.8227	4.7644E-05	8.550	16.45	8.550	16.45	V-C	2.3890E+05	-0.4500	0.000	1.000
1.000	16.45	0.000	0.000	5AL_158_160_L_0							
11 D	0.8509	4.7644E-05	9.500	17.02	9.500	17.02	V-C	2.3890E+05	-0.5000	0.000	1.000
1.000	17.02	0.000	0.000	5AL_158_160_L_0							
12 D	0.8791	4.7644E-05	10.45	17.58	10.45	17.58	V-C	2.3890E+05	-0.5500	0.000	1.000
1.000	17.58	0.000	0.000	5AL_158_160_L_0							
13 D	0.9073	4.7644E-05	11.40	18.15	11.40	18.15	V-C	2.3890E+05	-0.6000	0.000	1.000
1.000	18.15	0.000	0.000	5AL_158_160_L_0							
14 D	0.9355	4.7644E-05	12.35	18.71	12.35	18.71	V-C	2.3890E+05	-0.6500	0.000	1.000
1.000	18.71	0.000	0.000	5AL_158_160_L_0							
15 D	0.9637	4.7644E-05	13.30	19.27	13.30	19.27	V-C	2.3890E+05	-0.7000	0.000	1.000
1.000	19.27	0.000	0.000	5AL_158_160_L_0							
16 D	0.9918	4.7644E-05	14.25	19.84	14.25	19.84	V-C	2.3890E+05	-0.7500	0.000	1.000
1.000	19.84	0.000	0.000	5AL_158_160_L_0							
17 D	1.020	4.7644E-05	15.20	20.40	15.20	20.40	V-C	2.3890E+05	-0.8000	0.000	1.000
1.000	20.40	0.000	0.000	5AL_158_160_L_0							
18 D	1.048	4.7644E-05	16.15	20.96	16.15	20.96	V-C	2.3890E+05	-0.8500	0.000	1.000
1.000	20.96	0.000	0.000	5AL_158_160_L_0							
19 D	1.076	4.7644E-05	17.10	21.53	17.10	21.53	V-C	2.3890E+05	-0.9000	0.000	1.000
1.000	21.53	0.000	0.000	5AL_158_160_L_0							
20 D	1.105	4.7644E-05	18.05	22.09	18.05	22.09	V-C	2.3890E+05	-0.9500	0.000	1.000
1.000	22.09	0.000	0.000	5AL_158_160_L_0							
21 D	1.133	4.7644E-05	19.00	22.65	19.00	22.65	V-C	2.3890E+05	-1.000	0.000	1.000
1.000	22.65	0.000	0.000	5AL_158_160_L_0							
22 D	1.161	4.7644E-05	19.95	23.22	19.95	23.22	V-C	2.3890E+05	-1.050	0.000	1.000
1.000	23.22	0.000	0.000	5AL_158_160_L_0							
23 D	1.189	4.7644E-05	20.90	23.78	20.90	23.78	V-C	2.3890E+05	-1.100	0.000	1.000
1.000	23.78	0.000	0.000	5AL_158_160_L_0							
24 D	1.217	4.7644E-05	21.85	24.35	21.85	24.35	V-C	2.3890E+05	-1.150	0.000	1.000
1.000	24.35	0.000	0.000	5AL_158_160_L_0							
25 D	1.245	4.7644E-05	22.80	24.91	22.80	24.91	V-C	2.3890E+05	-1.200	0.000	1.000
1.000	24.91	0.000	0.000	5AL_158_160_L_0							
26 D	1.274	4.7644E-05	23.75	25.47	23.75	25.47	V-C	2.3890E+05	-1.250	0.000	1.000
1.000	25.47	0.000	0.000	5AL_158_160_L_0							
27 D	1.302	4.7644E-05	24.70	26.04	24.70	26.04	V-C	2.3890E+05	-1.300	0.000	1.000
1.000	26.04	0.000	0.000	5AL_158_160_L_0							
28 D	1.330	4.7644E-05	25.65	26.60	25.65	26.60	V-C	2.3890E+05	-1.350	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	57 di 401

1.000	26.60	0.000	0.000	5AL_158_160_L_0							
29 D	1.358	4.7644E-05	26.60	27.16	26.60	27.16	V-C	2.3890E+05	-1.400	0.000	1.000
1.000	27.16	0.000	0.000	5AL_158_160_L_0							
30 D	1.386	4.7644E-05	27.55	27.73	27.55	27.73	V-C	2.3890E+05	-1.450	0.000	1.000
1.000	27.73	0.000	0.000	5AL_158_160_L_0							
31 D	1.415	4.7644E-05	28.50	28.29	28.50	28.29	V-C	2.3890E+05	-1.500	0.000	1.000
1.000	28.29	0.000	0.000	5AL_158_160_L_0							
32 D	1.443	4.7644E-05	29.45	28.85	29.45	28.85	V-C	2.3890E+05	-1.550	0.000	1.000
1.000	28.85	0.000	0.000	5AL_158_160_L_0							
33 D	1.471	4.7644E-05	30.40	29.42	30.40	29.42	V-C	2.3890E+05	-1.600	0.000	1.000
1.000	29.42	0.000	0.000	5AL_158_160_L_0							
34 D	1.499	4.7644E-05	31.35	29.98	31.35	29.98	V-C	2.3890E+05	-1.650	0.000	1.000
1.000	29.98	0.000	0.000	5AL_158_160_L_0							
35 D	1.527	4.7644E-05	32.30	30.55	32.30	30.55	V-C	2.3890E+05	-1.700	0.000	1.000
1.000	30.55	0.000	0.000	5AL_158_160_L_0							
36 D	1.555	4.7644E-05	33.25	31.11	33.25	31.11	V-C	2.3890E+05	-1.750	0.000	1.000
1.000	31.11	0.000	0.000	5AL_158_160_L_0							
37 D	1.584	4.7644E-05	34.20	31.67	34.20	31.67	V-C	2.3890E+05	-1.800	0.000	1.000
1.000	31.67	0.000	0.000	5AL_158_160_L_0							
38 D	1.612	4.7644E-05	35.15	32.24	35.15	32.24	V-C	2.3890E+05	-1.850	0.000	1.000
1.000	32.24	0.000	0.000	5AL_158_160_L_0							
39 D	1.640	4.7644E-05	36.10	32.80	36.10	32.80	V-C	2.3890E+05	-1.900	0.000	1.000
1.000	32.80	0.000	0.000	5AL_158_160_L_0							
40 D	1.668	4.7644E-05	37.05	33.36	37.05	33.36	V-C	2.3890E+05	-1.950	0.000	1.000
1.000	33.36	0.000	0.000	5AL_158_160_L_0							
41 D	1.696	4.7644E-05	38.00	33.93	38.00	33.93	V-C	2.3890E+05	-2.000	0.000	1.000
1.000	33.93	0.000	0.000	5AL_158_160_L_0							
42 D	1.725	4.7644E-05	38.95	34.49	38.95	34.49	V-C	2.3890E+05	-2.050	0.000	1.000
1.000	34.49	0.000	0.000	5AL_158_160_L_0							
43 D	1.753	4.7644E-05	39.90	35.05	39.90	35.05	V-C	2.3890E+05	-2.100	0.000	1.000
1.000	35.05	0.000	0.000	5AL_158_160_L_0							
44 D	1.781	4.7644E-05	40.85	35.62	40.85	35.62	V-C	2.3890E+05	-2.150	0.000	1.000
1.000	35.62	0.000	0.000	5AL_158_160_L_0							
45 D	1.809	4.7644E-05	41.80	36.18	41.80	36.18	V-C	2.3890E+05	-2.200	0.000	1.000
1.000	36.18	0.000	0.000	5AL_158_160_L_0							
46 D	1.837	4.7644E-05	42.75	36.75	42.75	36.75	V-C	2.3890E+05	-2.250	0.000	1.000
1.000	36.75	0.000	0.000	5AL_158_160_L_0							
47 D	1.865	4.7644E-05	43.70	37.31	43.70	37.31	V-C	2.3890E+05	-2.300	0.000	1.000
1.000	37.31	0.000	0.000	5AL_158_160_L_0							
48 D	1.894	4.7644E-05	44.65	37.87	44.65	37.87	V-C	2.3890E+05	-2.350	0.000	1.000
1.000	37.87	0.000	0.000	5AL_158_160_L_0							
49 D	1.922	4.7644E-05	45.60	38.44	45.60	38.44	V-C	2.3890E+05	-2.400	0.000	1.000
1.000	38.44	0.000	0.000	5AL_158_160_L_0							
50 D	1.950	4.7644E-05	46.55	39.00	46.55	39.00	V-C	2.3890E+05	-2.450	0.000	1.000
1.000	39.00	0.000	0.000	5AL_158_160_L_0							
51 D	1.978	4.7644E-05	47.50	39.56	47.50	39.56	V-C	2.3890E+05	-2.500	0.000	1.000
1.000	39.56	0.000	0.000	5AL_158_160_L_0							
52 D	2.006	4.7644E-05	48.45	40.13	48.45	40.13	V-C	2.3890E+05	-2.550	0.000	1.000
1.000	40.13	0.000	0.000	5AL_158_160_L_0							
53 D	2.035	4.7644E-05	49.40	40.69	49.40	40.69	V-C	2.3890E+05	-2.600	0.000	1.000
1.000	40.69	0.000	0.000	5AL_158_160_L_0							
54 D	2.063	4.7644E-05	50.35	41.25	50.35	41.25	V-C	2.3890E+05	-2.650	0.000	1.000
1.000	41.25	0.000	0.000	5AL_158_160_L_0							
55 D	2.091	4.7644E-05	51.30	41.82	51.30	41.82	V-C	2.3890E+05	-2.700	0.000	1.000
1.000	41.82	0.000	0.000	5AL_158_160_L_0							
56 D	2.119	4.7644E-05	52.25	42.38	52.25	42.38	V-C	2.3890E+05	-2.750	0.000	1.000
1.000	42.38	0.000	0.000	5AL_158_160_L_0							
57 D	2.147	4.7644E-05	53.20	42.95	53.20	42.95	V-C	2.3890E+05	-2.800	0.000	1.000
1.000	42.95	0.000	0.000	5AL_158_160_L_0							
58 D	2.175	4.7644E-05	54.15	43.51	54.15	43.51	V-C	2.3890E+05	-2.850	0.000	1.000
1.000	43.51	0.000	0.000	5AL_158_160_L_0							
59 D	2.204	4.7644E-05	55.10	44.07	55.10	44.07	V-C	2.3890E+05	-2.900	0.000	1.000
1.000	44.07	0.000	0.000	5AL_158_160_L_0							
60 D	2.232	4.7644E-05	56.05	44.64	56.05	44.64	V-C	2.3890E+05	-2.950	0.000	1.000
1.000	44.64	0.000	0.000	5AL_158_160_L_0							
61 D	2.260	4.7644E-05	57.00	45.20	57.00	45.20	V-C	2.3890E+05	-3.000	0.000	1.000
1.000	45.20	0.000	0.000	5AL_158_160_L_0							
62 D	2.288	4.7644E-05	57.95	45.76	57.95	45.76	V-C	2.3890E+05	-3.050	0.000	1.000
1.000	45.76	0.000	0.000	5AL_158_160_L_0							
63 D	2.316	4.7644E-05	58.90	46.33	58.90	46.33	V-C	2.3890E+05	-3.100	0.000	1.000
1.000	46.33	0.000	0.000	5AL_158_160_L_0							
64 D	2.345	4.7644E-05	59.85	46.89	59.85	46.89	V-C	2.3890E+05	-3.150	0.000	1.000
1.000	46.89	0.000	0.000	5AL_158_160_L_0							
65 D	2.373	4.7644E-05	60.80	47.45	60.80	47.45	V-C	2.3890E+05	-3.200	0.000	1.000
1.000	47.45	0.000	0.000	5AL_158_160_L_0							
66 D	2.401	4.7644E-05	61.75	48.02	61.75	48.02	V-C	2.3890E+05	-3.250	0.000	1.000
1.000	48.02	0.000	0.000	5AL_158_160_L_0							
67 D	2.429	4.7644E-05	62.70	48.58	62.70	48.58	V-C	2.3890E+05	-3.300	0.000	1.000
1.000	48.58	0.000	0.000	5AL_158_160_L_0							
68 D	2.457	4.7644E-05	63.65	49.15	63.65	49.15	V-C	2.3890E+05	-3.350	0.000	1.000
1.000	49.15	0.000	0.000	5AL_158_160_L_0							

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	58 di 401

69 D	2.485	4.7644E-05	64.60	49.71	64.60	49.71	V-C	2.3890E+05	-3.400	0.000	1.000
1.000	49.71	0.000	0.000	5AL_158_160_L_0							
70 D	2.514	4.7644E-05	65.55	50.27	65.55	50.27	V-C	2.3890E+05	-3.450	0.000	1.000
1.000	50.27	0.000	0.000	5AL_158_160_L_0							
71 D	2.542	4.7644E-05	66.50	50.84	66.50	50.84	V-C	2.3890E+05	-3.500	0.000	1.000
1.000	50.84	0.000	0.000	5AL_158_160_L_0							
72 D	2.570	4.7644E-05	67.45	51.40	67.45	51.40	V-C	2.3890E+05	-3.550	0.000	1.000
1.000	51.40	0.000	0.000	5AL_158_160_L_0							
73 D	2.598	4.7644E-05	68.40	51.96	68.40	51.96	V-C	2.3890E+05	-3.600	0.000	1.000
1.000	51.96	0.000	0.000	5AL_158_160_L_0							
74 D	2.626	4.7644E-05	69.35	52.53	69.35	52.53	V-C	2.3890E+05	-3.650	0.000	1.000
1.000	52.53	0.000	0.000	5AL_158_160_L_0							
75 D	2.655	4.7644E-05	70.30	53.09	70.30	53.09	V-C	2.3890E+05	-3.700	0.000	1.000
1.000	53.09	0.000	0.000	5AL_158_160_L_0							
76 D	2.683	4.7644E-05	71.25	53.65	71.25	53.65	V-C	2.3890E+05	-3.750	0.000	1.000
1.000	53.65	0.000	0.000	5AL_158_160_L_0							
77 D	2.711	4.7644E-05	72.20	54.22	72.20	54.22	V-C	2.3890E+05	-3.800	0.000	1.000
1.000	54.22	0.000	0.000	5AL_158_160_L_0							
78 D	2.739	4.7644E-05	73.15	54.78	73.15	54.78	V-C	2.3890E+05	-3.850	0.000	1.000
1.000	54.78	0.000	0.000	5AL_158_160_L_0							
79 D	2.767	4.7644E-05	74.10	55.35	74.10	55.35	V-C	2.3890E+05	-3.900	0.000	1.000
1.000	55.35	0.000	0.000	5AL_158_160_L_0							
80 D	2.795	4.7644E-05	75.05	55.91	75.05	55.91	V-C	2.3890E+05	-3.950	0.000	1.000
1.000	55.91	0.000	0.000	5AL_158_160_L_0							
81 D	2.824	4.7644E-05	76.00	56.47	76.00	56.47	V-C	2.3890E+05	-4.000	0.000	1.000
1.000	56.47	0.000	0.000	5AL_158_160_L_0							
82 D	2.862	4.7644E-05	76.45	56.74	76.45	56.74	V-C	2.3890E+05	-4.050	0.5000	1.000
1.000	57.24	0.000	0.000	5AL_158_160_L_0							
83 D	2.900	4.7644E-05	76.90	57.01	76.90	57.01	V-C	2.3890E+05	-4.100	1.000	1.000
1.000	58.01	0.000	0.000	5AL_158_160_L_0							
84 D	2.939	4.7644E-05	77.35	57.27	77.35	57.27	V-C	2.3890E+05	-4.150	1.500	1.000
1.000	58.77	0.000	0.000	5AL_158_160_L_0							
85 D	2.977	4.7644E-05	77.80	57.54	77.80	57.54	V-C	2.3890E+05	-4.200	2.000	1.000
1.000	59.54	0.000	0.000	5AL_158_160_L_0							
86 D	3.015	4.7644E-05	78.25	57.81	78.25	57.81	V-C	2.3890E+05	-4.250	2.500	1.000
1.000	60.31	0.000	0.000	5AL_158_160_L_0							
87 D	3.054	4.7644E-05	78.70	58.07	78.70	58.07	V-C	2.3890E+05	-4.300	3.000	1.000
1.000	61.07	0.000	0.000	5AL_158_160_L_0							
88 D	3.092	4.7644E-05	79.15	58.34	79.15	58.34	V-C	2.3890E+05	-4.350	3.500	1.000
1.000	61.84	0.000	0.000	5AL_158_160_L_0							
89 D	3.130	4.7644E-05	79.60	58.61	79.60	58.61	V-C	2.3890E+05	-4.400	4.000	1.000
1.000	62.61	0.000	0.000	5AL_158_160_L_0							
90 D	3.169	4.7644E-05	80.05	58.88	80.05	58.88	V-C	2.3890E+05	-4.450	4.500	1.000
1.000	63.38	0.000	0.000	5AL_158_160_L_0							
91 D	3.207	4.7644E-05	80.50	59.14	80.50	59.14	V-C	2.3890E+05	-4.500	5.000	1.000
1.000	64.14	0.000	0.000	5AL_158_160_L_0							
92 D	3.245	4.7644E-05	80.95	59.41	80.95	59.41	V-C	2.3890E+05	-4.550	5.500	1.000
1.000	64.91	0.000	0.000	5AL_158_160_L_0							
93 D	3.284	4.7644E-05	81.40	59.68	81.40	59.68	V-C	2.3890E+05	-4.600	6.000	1.000
1.000	65.68	0.000	0.000	5AL_158_160_L_0							
94 D	3.322	4.7644E-05	81.85	59.94	81.85	59.94	V-C	2.3890E+05	-4.650	6.500	1.000
1.000	66.44	0.000	0.000	5AL_158_160_L_0							
95 D	3.361	4.7644E-05	82.30	60.21	82.30	60.21	V-C	2.3890E+05	-4.700	7.000	1.000
1.000	67.21	0.000	0.000	5AL_158_160_L_0							
96 D	3.399	4.7644E-05	82.75	60.48	82.75	60.48	V-C	2.3890E+05	-4.750	7.500	1.000
1.000	67.98	0.000	0.000	5AL_158_160_L_0							
97 D	3.437	4.7644E-05	83.20	60.74	83.20	60.74	V-C	2.3890E+05	-4.800	8.000	1.000
1.000	68.74	0.000	0.000	5AL_158_160_L_0							
98 D	3.476	4.7644E-05	83.65	61.01	83.65	61.01	V-C	2.3890E+05	-4.850	8.500	1.000
1.000	69.51	0.000	0.000	5AL_158_160_L_0							
99 D	3.514	4.7644E-05	84.10	61.28	84.10	61.28	V-C	2.3890E+05	-4.900	9.000	1.000
1.000	70.28	0.000	0.000	5AL_158_160_L_0							
100 D	3.552	4.7644E-05	84.55	61.55	84.55	61.55	V-C	2.3890E+05	-4.950	9.500	1.000
1.000	71.05	0.000	0.000	5AL_158_160_L_0							
101 D	3.591	4.7644E-05	85.00	61.81	85.00	61.81	V-C	2.3890E+05	-5.000	10.00	1.000
1.000	71.81	0.000	0.000	5AL_158_160_L_0							
102 D	3.629	4.7644E-05	85.45	62.08	85.45	62.08	V-C	2.3890E+05	-5.050	10.50	1.000
1.000	72.58	0.000	0.000	5AL_158_160_L_0							
103 D	3.667	4.7644E-05	85.90	62.35	85.90	62.35	V-C	2.3890E+05	-5.100	11.00	1.000
1.000	73.35	0.000	0.000	5AL_158_160_L_0							
104 D	3.706	4.7644E-05	86.35	62.61	86.35	62.61	V-C	2.3890E+05	-5.150	11.50	1.000
1.000	74.11	0.000	0.000	5AL_158_160_L_0							
105 D	3.744	4.7644E-05	86.80	62.88	86.80	62.88	V-C	2.3890E+05	-5.200	12.00	1.000
1.000	74.88	0.000	0.000	5AL_158_160_L_0							
106 D	3.782	4.7644E-05	87.25	63.15	87.25	63.15	V-C	2.3890E+05	-5.250	12.50	1.000
1.000	75.65	0.000	0.000	5AL_158_160_L_0							
107 D	3.821	4.7644E-05	87.70	63.41	87.70	63.41	V-C	2.3890E+05	-5.300	13.00	1.000
1.000	76.41	0.000	0.000	5AL_158_160_L_0							
108 D	3.859	4.7644E-05	88.15	63.68	88.15	63.68	V-C	2.3890E+05	-5.350	13.50	1.000
1.000	77.18	0.000	0.000	5AL_158_160_L_0							
109 D	3.897	4.7644E-05	88.60	63.95	88.60	63.95	V-C	2.3890E+05	-5.400	14.00	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	V10100 004	A	59 di 401

1.000	77.95	0.000	0.000	5AL_158_160_L_0							
110 D	3.936	4.7644E-05	89.05	64.22	89.05	64.22	V-C	2.3890E+05	-5.450	14.50	1.000
1.000	78.72	0.000	0.000	5AL_158_160_L_0							
111 D	3.974	4.7644E-05	89.50	64.48	89.50	64.48	V-C	2.3890E+05	-5.500	15.00	1.000
1.000	79.48	0.000	0.000	5AL_158_160_L_0							
112 D	4.012	4.7644E-05	89.95	64.75	89.95	64.75	V-C	2.3890E+05	-5.550	15.50	1.000
1.000	80.25	0.000	0.000	5AL_158_160_L_0							
113 D	4.051	4.7644E-05	90.40	65.02	90.40	65.02	V-C	2.3890E+05	-5.600	16.00	1.000
1.000	81.02	0.000	0.000	5AL_158_160_L_0							
114 D	4.089	4.7644E-05	90.85	65.28	90.85	65.28	V-C	2.3890E+05	-5.650	16.50	1.000
1.000	81.78	0.000	0.000	5AL_158_160_L_0							
115 D	4.128	4.7644E-05	91.30	65.55	91.30	65.55	V-C	2.3890E+05	-5.700	17.00	1.000
1.000	82.55	0.000	0.000	5AL_158_160_L_0							
116 D	4.166	4.7644E-05	91.75	65.82	91.75	65.82	V-C	2.3890E+05	-5.750	17.50	1.000
1.000	83.32	0.000	0.000	5AL_158_160_L_0							
117 D	4.204	4.7644E-05	92.20	66.08	92.20	66.08	V-C	2.3890E+05	-5.800	18.00	1.000
1.000	84.08	0.000	0.000	5AL_158_160_L_0							
118 D	4.243	4.7644E-05	92.65	66.35	92.65	66.35	V-C	2.3890E+05	-5.850	18.50	1.000
1.000	84.85	0.000	0.000	5AL_158_160_L_0							
119 D	4.281	4.7644E-05	93.10	66.62	93.10	66.62	V-C	2.3890E+05	-5.900	19.00	1.000
1.000	85.62	0.000	0.000	5AL_158_160_L_0							
120 D	4.319	4.7644E-05	93.55	66.89	93.55	66.89	V-C	2.3890E+05	-5.950	19.50	1.000
1.000	86.39	0.000	0.000	5AL_158_160_L_0							
121 D	4.358	4.7644E-05	94.00	67.15	94.00	67.15	V-C	2.3890E+05	-6.000	20.00	1.000
1.000	87.15	0.000	0.000	5AL_158_160_L_0							
122 D	4.396	4.7644E-05	94.45	67.42	94.45	67.42	V-C	2.3890E+05	-6.050	20.50	1.000
1.000	87.92	0.000	0.000	5AL_158_160_L_0							
123 D	4.434	4.7644E-05	94.90	67.69	94.90	67.69	V-C	2.3890E+05	-6.100	21.00	1.000
1.000	88.69	0.000	0.000	5AL_158_160_L_0							
124 D	4.473	4.7644E-05	95.35	67.95	95.35	67.95	V-C	2.3890E+05	-6.150	21.50	1.000
1.000	89.45	0.000	0.000	5AL_158_160_L_0							
125 D	4.511	4.7644E-05	95.80	68.22	95.80	68.22	V-C	2.3890E+05	-6.200	22.00	1.000
1.000	90.22	0.000	0.000	5AL_158_160_L_0							
126 D	4.549	4.7644E-05	96.25	68.49	96.25	68.49	V-C	2.3890E+05	-6.250	22.50	1.000
1.000	90.99	0.000	0.000	5AL_158_160_L_0							
127 D	4.588	4.7644E-05	96.70	68.75	96.70	68.75	V-C	2.3890E+05	-6.300	23.00	1.000
1.000	91.75	0.000	0.000	5AL_158_160_L_0							
128 D	4.626	4.7644E-05	97.15	69.02	97.15	69.02	V-C	2.3890E+05	-6.350	23.50	1.000
1.000	92.52	0.000	0.000	5AL_158_160_L_0							
129 D	4.664	4.7644E-05	97.60	69.29	97.60	69.29	V-C	2.3890E+05	-6.400	24.00	1.000
1.000	93.29	0.000	0.000	5AL_158_160_L_0							
130 D	4.703	4.7644E-05	98.05	69.56	98.05	69.56	V-C	2.3890E+05	-6.450	24.50	1.000
1.000	94.06	0.000	0.000	5AL_158_160_L_0							
131 D	4.741	4.7644E-05	98.50	69.82	98.50	69.82	V-C	2.3890E+05	-6.500	25.00	1.000
1.000	94.82	0.000	0.000	5AL_158_160_L_0							
132 D	4.779	4.7644E-05	98.95	70.09	98.95	70.09	V-C	2.3890E+05	-6.550	25.50	1.000
1.000	95.59	0.000	0.000	5AL_158_160_L_0							
133 D	4.818	4.7644E-05	99.40	70.36	99.40	70.36	V-C	2.3890E+05	-6.600	26.00	1.000
1.000	96.36	0.000	0.000	5AL_158_160_L_0							
134 D	4.856	4.7644E-05	99.85	70.62	99.85	70.62	V-C	2.3890E+05	-6.650	26.50	1.000
1.000	97.12	0.000	0.000	5AL_158_160_L_0							
135 D	4.895	4.7644E-05	100.3	70.89	100.3	70.89	V-C	2.3890E+05	-6.700	27.00	1.000
1.000	97.89	0.000	0.000	5AL_158_160_L_0							
136 D	4.933	4.7644E-05	100.8	71.16	100.8	71.16	V-C	2.3890E+05	-6.750	27.50	1.000
1.000	98.66	0.000	0.000	5AL_158_160_L_0							
137 D	4.971	4.7644E-05	101.2	71.42	101.2	71.42	V-C	2.3890E+05	-6.800	28.00	1.000
1.000	99.42	0.000	0.000	5AL_158_160_L_0							
138 D	5.010	4.7644E-05	101.7	71.69	101.7	71.69	V-C	2.3890E+05	-6.850	28.50	1.000
1.000	100.2	0.000	0.000	5AL_158_160_L_0							
139 D	5.048	4.7644E-05	102.1	71.96	102.1	71.96	V-C	2.3890E+05	-6.900	29.00	1.000
1.000	101.0	0.000	0.000	5AL_158_160_L_0							
140 D	5.086	4.7644E-05	102.6	72.23	102.6	72.23	V-C	2.3890E+05	-6.950	29.50	1.000
1.000	101.7	0.000	0.000	5AL_158_160_L_0							
141 D	5.125	4.7644E-05	103.0	72.49	103.0	72.49	V-C	2.3890E+05	-7.000	30.00	1.000
1.000	102.5	0.000	0.000	5AL_158_160_L_0							
142 D	5.163	4.7644E-05	103.5	72.76	103.5	72.76	V-C	2.3890E+05	-7.050	30.50	1.000
1.000	103.3	0.000	0.000	5AL_158_160_L_0							
143 D	5.201	4.7644E-05	103.9	73.03	103.9	73.03	V-C	2.3890E+05	-7.100	31.00	1.000
1.000	104.0	0.000	0.000	5AL_158_160_L_0							
144 D	5.240	4.7644E-05	104.4	73.29	104.4	73.29	V-C	2.3890E+05	-7.150	31.50	1.000
1.000	104.8	0.000	0.000	5AL_158_160_L_0							
145 D	5.278	4.7644E-05	104.8	73.56	104.8	73.56	V-C	2.3890E+05	-7.200	32.00	1.000
1.000	105.6	0.000	0.000	5AL_158_160_L_0							
146 D	5.316	4.7644E-05	105.3	73.83	105.3	73.83	V-C	2.3890E+05	-7.250	32.50	1.000
1.000	106.3	0.000	0.000	5AL_158_160_L_0							
147 D	5.355	4.7644E-05	105.7	74.09	105.7	74.09	V-C	2.3890E+05	-7.300	33.00	1.000
1.000	107.1	0.000	0.000	5AL_158_160_L_0							
148 D	5.393	4.7644E-05	106.2	74.36	106.2	74.36	V-C	2.3890E+05	-7.350	33.50	1.000
1.000	107.9	0.000	0.000	5AL_158_160_L_0							
149 D	5.431	4.7644E-05	106.6	74.63	106.6	74.63	V-C	2.3890E+05	-7.400	34.00	1.000
1.000	108.6	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	60 di 401

150 D	5.470	4.7644E-05	107.1	74.90	107.1	74.90	V-C	2.3890E+05	-7.450	34.50	1.000
1.000	109.4	0.000	0.000	SAL_158_160_L_0							
151 D	5.508	4.7644E-05	107.5	75.16	107.5	75.16	V-C	2.3890E+05	-7.500	35.00	1.000
1.000	110.2	0.000	0.000	SAL_158_160_L_0							
152 D	5.546	4.7644E-05	108.0	75.43	108.0	75.43	V-C	2.3890E+05	-7.550	35.50	1.000
1.000	110.9	0.000	0.000	SAL_158_160_L_0							
153 D	5.585	4.7644E-05	108.4	75.70	108.4	75.70	V-C	2.3890E+05	-7.600	36.00	1.000
1.000	111.7	0.000	0.000	SAL_158_160_L_0							
154 D	5.623	4.7644E-05	108.9	75.96	108.9	75.96	V-C	2.3890E+05	-7.650	36.50	1.000
1.000	112.5	0.000	0.000	SAL_158_160_L_0							
155 D	5.662	4.7644E-05	109.3	76.23	109.3	76.23	V-C	2.3890E+05	-7.700	37.00	1.000
1.000	113.2	0.000	0.000	SAL_158_160_L_0							
156 D	5.700	4.7644E-05	109.8	76.50	109.8	76.50	V-C	2.3890E+05	-7.750	37.50	1.000
1.000	114.0	0.000	0.000	SAL_158_160_L_0							
157 D	5.738	4.7644E-05	110.2	76.76	110.2	76.76	V-C	2.3890E+05	-7.800	38.00	1.000
1.000	114.8	0.000	0.000	SAL_158_160_L_0							
158 D	5.777	4.7644E-05	110.7	77.03	110.7	77.03	V-C	2.3890E+05	-7.850	38.50	1.000
1.000	115.5	0.000	0.000	SAL_158_160_L_0							
159 D	5.815	4.7644E-05	111.1	77.30	111.1	77.30	V-C	2.3890E+05	-7.900	39.00	1.000
1.000	116.3	0.000	0.000	SAL_158_160_L_0							
160 D	5.853	4.7644E-05	111.6	77.56	111.6	77.56	V-C	2.3890E+05	-7.950	39.50	1.000
1.000	117.1	0.000	0.000	SAL_158_160_L_0							
161 D	5.892	4.7644E-05	112.0	77.83	112.0	77.83	V-C	2.3890E+05	-8.000	40.00	1.000
1.000	117.8	0.000	0.000	SAL_158_160_L_0							
162 D	5.930	4.7644E-05	112.5	78.10	112.5	78.10	V-C	2.3890E+05	-8.050	40.50	1.000
1.000	118.6	0.000	0.000	SAL_158_160_L_0							
163 D	5.968	4.7644E-05	112.9	78.37	112.9	78.37	V-C	2.3890E+05	-8.100	41.00	1.000
1.000	119.4	0.000	0.000	SAL_158_160_L_0							
164 D	6.007	4.7644E-05	113.4	78.63	113.4	78.63	V-C	2.3890E+05	-8.150	41.50	1.000
1.000	120.1	0.000	0.000	SAL_158_160_L_0							
165 D	6.045	4.7644E-05	113.8	78.90	113.8	78.90	V-C	2.3890E+05	-8.200	42.00	1.000
1.000	120.9	0.000	0.000	SAL_158_160_L_0							
166 D	6.083	4.7644E-05	114.3	79.17	114.3	79.17	V-C	2.3890E+05	-8.250	42.50	1.000
1.000	121.7	0.000	0.000	SAL_158_160_L_0							
167 D	6.122	4.7644E-05	114.7	79.43	114.7	79.43	V-C	2.3890E+05	-8.300	43.00	1.000
1.000	122.4	0.000	0.000	SAL_158_160_L_0							
168 D	6.160	4.7644E-05	115.2	79.70	115.2	79.70	V-C	2.3890E+05	-8.350	43.50	1.000
1.000	123.2	0.000	0.000	SAL_158_160_L_0							
169 D	6.198	4.7644E-05	115.6	79.97	115.6	79.97	V-C	2.3890E+05	-8.400	44.00	1.000
1.000	124.0	0.000	0.000	SAL_158_160_L_0							
170 D	6.237	4.7644E-05	116.1	80.23	116.1	80.23	V-C	2.3890E+05	-8.450	44.50	1.000
1.000	124.7	0.000	0.000	SAL_158_160_L_0							
171 D	6.275	4.7644E-05	116.5	80.50	116.5	80.50	V-C	2.3890E+05	-8.500	45.00	1.000
1.000	125.5	0.000	0.000	SAL_158_160_L_0							
172 D	6.313	4.7644E-05	117.0	80.77	117.0	80.77	V-C	2.3890E+05	-8.550	45.50	1.000
1.000	126.3	0.000	0.000	SAL_158_160_L_0							
173 D	6.352	4.7644E-05	117.4	81.04	117.4	81.04	V-C	2.3890E+05	-8.600	46.00	1.000
1.000	127.0	0.000	0.000	SAL_158_160_L_0							
174 D	6.390	4.7644E-05	117.9	81.30	117.9	81.30	V-C	2.3890E+05	-8.650	46.50	1.000
1.000	127.8	0.000	0.000	SAL_158_160_L_0							
175 D	6.428	4.7644E-05	118.3	81.57	118.3	81.57	V-C	2.3890E+05	-8.700	47.00	1.000
1.000	128.6	0.000	0.000	SAL_158_160_L_0							
176 D	6.467	4.7644E-05	118.8	81.84	118.8	81.84	V-C	2.3890E+05	-8.750	47.50	1.000
1.000	129.3	0.000	0.000	SAL_158_160_L_0							
177 D	6.505	4.7644E-05	119.2	82.10	119.2	82.10	V-C	2.3890E+05	-8.800	48.00	1.000
1.000	130.1	0.000	0.000	SAL_158_160_L_0							
178 D	6.544	4.7644E-05	119.7	82.37	119.7	82.37	V-C	2.3890E+05	-8.850	48.50	1.000
1.000	130.9	0.000	0.000	SAL_158_160_L_0							
179 D	6.582	4.7644E-05	120.1	82.64	120.1	82.64	V-C	2.3890E+05	-8.900	49.00	1.000
1.000	131.6	0.000	0.000	SAL_158_160_L_0							
180 D	6.620	4.7644E-05	120.6	82.90	120.6	82.90	V-C	2.3890E+05	-8.950	49.50	1.000
1.000	132.4	0.000	0.000	SAL_158_160_L_0							
181 D	6.659	4.7644E-05	121.0	83.17	121.0	83.17	V-C	2.3890E+05	-9.000	50.00	1.000
1.000	133.2	0.000	0.000	SAL_158_160_L_0							
182 D	6.697	4.7644E-05	121.5	83.44	121.5	83.44	V-C	2.3890E+05	-9.050	50.50	1.000
1.000	133.9	0.000	0.000	SAL_158_160_L_0							
183 D	6.735	4.7644E-05	121.9	83.71	121.9	83.71	V-C	2.3890E+05	-9.100	51.00	1.000
1.000	134.7	0.000	0.000	SAL_158_160_L_0							
184 D	6.774	4.7644E-05	122.4	83.97	122.4	83.97	V-C	2.3890E+05	-9.150	51.50	1.000
1.000	135.5	0.000	0.000	SAL_158_160_L_0							
185 D	6.812	4.7644E-05	122.8	84.24	122.8	84.24	V-C	2.3890E+05	-9.200	52.00	1.000
1.000	136.2	0.000	0.000	SAL_158_160_L_0							
186 D	6.850	4.7644E-05	123.3	84.51	123.3	84.51	V-C	2.3890E+05	-9.250	52.50	1.000
1.000	137.0	0.000	0.000	SAL_158_160_L_0							
187 D	6.889	4.7644E-05	123.7	84.77	123.7	84.77	V-C	2.3890E+05	-9.300	53.00	1.000
1.000	137.8	0.000	0.000	SAL_158_160_L_0							
188 D	6.927	4.7644E-05	124.2	85.04	124.2	85.04	V-C	2.3890E+05	-9.350	53.50	1.000
1.000	138.5	0.000	0.000	SAL_158_160_L_0							
189 D	6.965	4.7644E-05	124.6	85.31	124.6	85.31	V-C	2.3890E+05	-9.400	54.00	1.000
1.000	139.3	0.000	0.000	SAL_158_160_L_0							
190 D	7.004	4.7644E-05	125.1	85.57	125.1	85.57	V-C	2.3890E+05	-9.450	54.50	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	61 di 401

1.000	140.1	0.000	0.000	5AL_158_160_L_0							
191 D	7.042	4.7644E-05	125.5	85.84	125.5	85.84	V-C	2.3890E+05	-9.500	55.00	1.000
1.000	140.8	0.000	0.000	5AL_158_160_L_0							
192 D	7.080	4.7644E-05	126.0	86.11	126.0	86.11	V-C	2.3890E+05	-9.550	55.50	1.000
1.000	141.6	0.000	0.000	5AL_158_160_L_0							
193 D	7.119	4.7644E-05	126.4	86.38	126.4	86.38	V-C	2.3890E+05	-9.600	56.00	1.000
1.000	142.4	0.000	0.000	5AL_158_160_L_0							
194 D	7.157	4.7644E-05	126.9	86.64	126.9	86.64	V-C	2.3890E+05	-9.650	56.50	1.000
1.000	143.1	0.000	0.000	5AL_158_160_L_0							
195 D	7.195	4.7644E-05	127.3	86.91	127.3	86.91	V-C	2.3890E+05	-9.700	57.00	1.000
1.000	143.9	0.000	0.000	5AL_158_160_L_0							
196 D	7.234	4.7644E-05	127.8	87.18	127.8	87.18	V-C	2.3890E+05	-9.750	57.50	1.000
1.000	144.7	0.000	0.000	5AL_158_160_L_0							
197 D	7.272	4.7644E-05	128.2	87.44	128.2	87.44	V-C	2.3890E+05	-9.800	58.00	1.000
1.000	145.4	0.000	0.000	5AL_158_160_L_0							
198 D	7.311	4.7644E-05	128.7	87.71	128.7	87.71	V-C	2.3890E+05	-9.850	58.50	1.000
1.000	146.2	0.000	0.000	5AL_158_160_L_0							
199 D	7.349	4.7644E-05	129.1	87.98	129.1	87.98	V-C	2.3890E+05	-9.900	59.00	1.000
1.000	147.0	0.000	0.000	5AL_158_160_L_0							
200 D	7.386	4.7644E-05	129.6	88.24	129.6	88.24	V-C	2.3890E+05	-9.950	59.50	1.000
1.000	147.7	0.000	0.000	5AL_158_160_L_0							
201 D	3.711	4.7644E-05	130.0	88.51	130.0	88.51	V-C	2.3890E+05	-10.00	60.00	1.000
1.000	148.5	0.000	0.000	5AL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	62 di 401

 PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.Nominal_63
 Exe Time :21 June 2016 11:57:44

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
 CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1-1.17673E-11	1.17673E-11	4.64102E-14	-8.16674E-13	
2-5.39395E-11	5.39395E-11	-7.17094E-13	-2.34368E-12	
3-2.56270E-11	2.56270E-11	1.20997E-12	-3.94652E-12	
4-2.32230E-11	2.32230E-11	3.43283E-12	-5.86727E-12	
5-1.74654E-11	1.74654E-11	5.95411E-12	-6.28168E-12	
6-4.10727E-11	4.10727E-11	6.10635E-12	-6.88669E-12	
7 2.43499E-12	-2.43499E-12	7.61971E-12	-7.49796E-12	
8 1.67044E-11	-1.67044E-11	9.43399E-12	-9.32636E-12	
9 2.34462E-11	-2.34462E-11	9.84951E-12	-7.58581E-12	
10 8.70478E-12	-8.70478E-12	9.42614E-12	-8.43257E-12	
11-3.36974E-11	3.36974E-11	8.53332E-12	-1.02182E-11	
12 7.23598E-11	-7.23598E-11	1.04828E-11	-7.22865E-12	
13-2.60465E-12	2.60465E-12	7.53571E-12	-5.84695E-12	
14-6.05100E-11	6.05100E-11	6.99505E-12	-9.65676E-12	
15-9.54049E-11	9.54049E-11	8.23246E-12	-1.35484E-11	
16-9.51599E-11	9.51599E-11	1.31478E-11	-1.73601E-11	
17-6.53245E-11	6.53245E-11	1.71618E-11	-2.11556E-11	
18-8.24663E-11	8.24663E-11	1.96690E-11	-2.34171E-11	
19-6.41423E-11	6.41423E-11	2.19715E-11	-2.51786E-11	
20-7.73274E-11	7.73274E-11	2.52006E-11	-2.87248E-11	
21-7.76314E-11	7.76314E-11	2.78100E-11	-3.16915E-11	
22-4.89897E-11	4.89897E-11	2.98032E-11	-3.22526E-11	
23-4.95970E-11	4.95970E-11	3.16727E-11	-3.30611E-11	
24-7.66724E-11	7.66724E-11	3.32829E-11	-3.62071E-11	
25-1.20416E-11	1.20416E-11	3.65429E-11	-3.60536E-11	
26 4.23821E-11	-4.23821E-11	3.72074E-11	-3.83625E-11	
27 3.97377E-11	-3.97377E-11	3.93461E-11	-3.49946E-11	
28 1.71024E-11	-1.71024E-11	3.51490E-11	-3.42939E-11	
29 6.87061E-11	-6.87061E-11	3.32806E-11	-3.07548E-11	
30 3.09249E-11	-3.09249E-11	3.16808E-11	-2.75879E-11	
31 7.90315E-11	-7.90315E-11	2.82382E-11	-2.44686E-11	
32 5.24426E-11	-5.24426E-11	2.44603E-11	-2.20200E-11	
33-4.42851E-11	4.42851E-11	2.27678E-11	-2.35860E-11	
34-6.83580E-11	6.83580E-11	2.51148E-11	-2.61680E-11	
35-1.07819E-11	1.07819E-11	2.66807E-11	-2.75836E-11	
36 1.77479E-11	-1.77479E-11	2.86720E-11	-2.72389E-11	
37-1.99306E-11	1.99306E-11	2.73165E-11	-2.81311E-11	
38-5.18149E-11	5.18149E-11	2.73308E-11	-2.99215E-11	
39-1.68290E-11	1.68290E-11	2.91871E-11	-2.98467E-11	
40-3.92438E-11	3.92438E-11	2.87529E-11	-3.07151E-11	
41 3.14048E-11	-3.14048E-11	2.98091E-11	-2.86027E-11	
42-2.85466E-11	2.85466E-11	2.92344E-11	-3.06617E-11	
43-1.10036E-11	1.10036E-11	3.02544E-11	-3.04407E-11	
44 6.19511E-11	-6.19511E-11	3.17734E-11	-2.83121E-11	
45 1.75113E-11	-1.75113E-11	2.88500E-11	-2.87020E-11	
46 1.27843E-11	-1.27843E-11	2.96807E-11	-2.79501E-11	
47-7.23664E-12	7.23664E-12	2.94077E-11	-2.75867E-11	
48 4.82056E-11	-4.82056E-11	2.99679E-11	-2.64662E-11	
49 9.95856E-11	-9.95856E-11	2.71862E-11	-2.29346E-11	
50-3.67551E-12	3.67551E-12	2.27974E-11	-2.17079E-11	
51 5.08660E-11	-5.08660E-11	2.15842E-11	-1.86771E-11	
52 7.99095E-11	-7.99095E-11	1.93398E-11	-1.58900E-11	
53 6.36787E-11	-6.36787E-11	1.72503E-11	-1.27931E-11	
54 1.80297E-11	-1.80297E-11	1.27909E-11	-1.07980E-11	
55 2.24924E-12	-2.24924E-12	1.07089E-11	-1.13240E-11	
56-3.97818E-11	3.97818E-11	1.12817E-11	-1.29070E-11	
57-4.45480E-11	4.45480E-11	1.21758E-11	-1.65756E-11	
58-1.19887E-10	1.19887E-10	1.55854E-11	-2.06703E-11	
59-3.39509E-11	3.39509E-11	1.97462E-11	-2.23532E-11	



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	63 di 401

RELAZIONE DI CALCOLO

60-4.38344E-11 4.38344E-11 2.28557E-11-2.61388E-11
61-6.99810E-13 6.99810E-13 2.44841E-11-2.56104E-11
62-7.69366E-11 7.69366E-11 2.50324E-11-2.72422E-11
63-8.58014E-11 8.58014E-11 2.79770E-11-3.13575E-11
64-7.85108E-11 7.85108E-11 3.20396E-11-3.59652E-11
65-7.12232E-11 7.12232E-11 3.52534E-11-3.86326E-11
66-2.35608E-11 2.35608E-11 3.79880E-11-3.95298E-11
67-5.51246E-11 5.51246E-11 3.92809E-11-4.14915E-11
68-7.09044E-12 7.09044E-12 4.20824E-11-4.13455E-11
69-7.31679E-12 7.31679E-12 4.10478E-11-4.15956E-11
70 6.65085E-11-6.65085E-11 3.96104E-11-3.81040E-11
71 9.13993E-11-9.13993E-11 3.70542E-11-3.13929E-11
72 2.78148E-11-2.78148E-11 2.99918E-11-3.00563E-11
73 1.64141E-11-1.64141E-11 2.98625E-11-2.75866E-11
74 9.72576E-11-9.72576E-11 2.83601E-11-2.33153E-11
75 1.10744E-10-1.10744E-10 2.40980E-11-1.81970E-11
76 1.54855E-10-1.54855E-10 1.75573E-11-1.12697E-11
77 9.19685E-11-9.19685E-11 1.09309E-11-7.24199E-12
78 3.44060E-11-3.44060E-11 7.02742E-12-5.04455E-12
79 1.09835E-10-1.09835E-10 6.01425E-12 2.05077E-13
80 1.65739E-10-1.65739E-10 3.38356E-14 7.34363E-12
81 1.65304E-10-1.65304E-10-7.55254E-12 1.67272E-11
82 1.38930E-10-1.38930E-10-1.64457E-11 2.34973E-11
83 1.32524E-10-1.32524E-10-2.28327E-11 2.89132E-11
84 6.86370E-11-6.86370E-11-2.86875E-11 3.17555E-11
85-4.72587E-11 4.72587E-11-3.11648E-11 3.04389E-11
86-5.97432E-12 5.97432E-12-3.08405E-11 3.01780E-11
87 1.48264E-11-1.48264E-11-3.03725E-11 3.02044E-11
88 7.68916E-11-7.68916E-11-2.91747E-11 3.35096E-11
89 1.11498E-10-1.11498E-10-3.24600E-11 3.69435E-11
90 7.40125E-11-7.40125E-11-3.64195E-11 3.99383E-11
91 2.69999E-11-2.69999E-11-3.94465E-11 4.02508E-11
92-4.27135E-12 4.27135E-12-3.94826E-11 4.10880E-11
93-1.50368E-11 1.50368E-11-3.88846E-11 3.95556E-11
94 2.31634E-11-2.31634E-11-3.87222E-11 4.16994E-11
95 1.91175E-12-1.91175E-12-4.16230E-11 4.04453E-11
96 2.86486E-11-2.86486E-11-4.22688E-11 4.27917E-11
97-6.93055E-11 6.93055E-11-4.23249E-11 3.99510E-11
98-2.95869E-11 2.95869E-11-4.00284E-11 3.72679E-11
99-1.24949E-11 1.24949E-11-3.81645E-11 3.82673E-11
100-2.02215E-12 2.02215E-12-3.82325E-11 3.81314E-11
101-6.83395E-11 6.83395E-11-3.87921E-11 3.42837E-11
102-9.99644E-11 9.99644E-11-3.48323E-11 2.85608E-11
103-3.27253E-11 3.27253E-11-2.77654E-11 2.54142E-11
104 2.34476E-11-2.34476E-11-2.51357E-11 2.43072E-11
105 4.33507E-11-4.33507E-11-2.56528E-11 2.60014E-11
106 1.01209E-11-1.01209E-11-2.55397E-11 2.80466E-11
107-9.09039E-11 9.09039E-11-2.66778E-11 2.39515E-11
108-8.39795E-11 8.39795E-11-2.35307E-11 1.84222E-11
109-1.39298E-10 1.39298E-10-1.83796E-11 1.23536E-11
110-1.08520E-10 1.08520E-10-1.13280E-11 6.44776E-12
111-1.46241E-10 1.46241E-10-6.07532E-12 5.82282E-13
112-1.36442E-10 1.36442E-10 3.00273E-14-7.21590E-12
113-1.43587E-10 1.43587E-10 6.82310E-12-1.36386E-11
114-1.49965E-10 1.49965E-10 1.41231E-11-2.08666E-11
115-2.78572E-11 2.78572E-11 2.14849E-11-2.16044E-11
116-5.32371E-11 5.32371E-11 2.29415E-11-2.68766E-11
117-8.20656E-11 8.20656E-11 2.61596E-11-3.13543E-11
118-5.63377E-11 5.63377E-11 3.24092E-11-3.43166E-11
119-2.91734E-11 2.91734E-11 3.43204E-11-3.59511E-11
120 4.21365E-11-4.21365E-11 3.61119E-11-3.23680E-11
121 4.70937E-11-4.70937E-11 3.21928E-11-3.11114E-11
122 4.71224E-12-4.71224E-12 3.11833E-11-3.31304E-11
123 3.37287E-11-3.37287E-11 3.31827E-11-3.00411E-11
124 1.04280E-10-1.04280E-10 2.99293E-11-2.56339E-11
125 1.88255E-10-1.88255E-10 2.46623E-11-1.52495E-11
126 1.23159E-10-1.23159E-10 1.61195E-11-9.59774E-12
127 2.44954E-11-2.44954E-11 8.53308E-12-7.49020E-12
128 3.85290E-11-3.85290E-11 7.43304E-12-6.96178E-12
129-7.42497E-13 7.42497E-13 5.68713E-12-4.99665E-12
130 8.20238E-11-8.20238E-11 4.81787E-12-1.27819E-12
131 1.16162E-10-1.16162E-10 1.08718E-12 4.90284E-12
132 4.53629E-11-4.53629E-11-6.39864E-12 8.12109E-12
133 6.11706E-11-6.11706E-11-8.62113E-12 1.00426E-11
134 3.07791E-11-3.07791E-11-1.00978E-11 1.07272E-11
135 3.03927E-11-3.03927E-11-1.09567E-11 1.17378E-11
136 5.39526E-11-5.39526E-11-1.08030E-11 1.47739E-11
137-7.65854E-12 7.65854E-12-1.46189E-11 1.25989E-11
138 2.69643E-11-2.69643E-11-1.28899E-11 1.33286E-11
139-4.38443E-11 4.38443E-11-1.37668E-11 1.15746E-11
140-3.15130E-11 3.15130E-11-1.32592E-11 1.34994E-11



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	64 di 401

141 1.22533E-10-1.22533E-10-1.37830E-11 1.88182E-11
 142 3.83678E-11-3.83678E-11-1.81568E-11 2.00751E-11
 143-5.29336E-11 5.29336E-11-1.95572E-11 1.72743E-11
 144-6.52868E-11 6.52868E-11-1.73378E-11 1.35277E-11
 145 5.24726E-11-5.24726E-11-1.40388E-11 1.64877E-11
 146 7.09379E-11-7.09379E-11-1.73714E-11 1.98269E-11
 147 3.95186E-11-3.95186E-11-1.93502E-11 2.22357E-11
 148-5.65946E-11 5.65946E-11-2.22861E-11 2.09115E-11
 149-3.23149E-11 3.23149E-11-2.16389E-11 1.85679E-11
 150-7.56156E-11 7.56156E-11-1.92683E-11 1.51237E-11
 151 6.75783E-12-6.75783E-12-1.41898E-11 1.70951E-11
 152-2.13707E-11 2.13707E-11-1.58176E-11 1.56585E-11
 153 3.25418E-11-3.25418E-11-1.52828E-11 1.67280E-11
 154-7.16506E-11 7.16506E-11-1.60493E-11 1.24667E-11
 155-1.17726E-10 1.17726E-10-1.28154E-11 6.20151E-12
 156-4.37167E-11 4.37167E-11-7.69201E-12 4.62487E-12
 157 6.85918E-12-6.85918E-12-5.34265E-12 5.68561E-12
 158 1.97381E-11-1.97381E-11-7.49269E-12 5.93301E-12
 159-1.62058E-11 1.62058E-11-7.12162E-12 7.58463E-12
 160-7.67438E-11 7.67438E-11-6.97856E-12 3.32327E-12
 161-3.20436E-11 3.20436E-11-2.76700E-12 1.74195E-12
 162 1.03984E-11-1.03984E-11-1.03935E-12 1.55927E-12
 163-6.97195E-11 6.97195E-11-8.58827E-13 1.01334E-13
 164-7.13940E-11 7.13940E-11 6.29089E-13-4.19879E-12
 165-1.01758E-10 1.01758E-10 3.88226E-12-8.60638E-12
 166-3.58828E-11 3.58828E-11 9.53744E-12-1.18479E-11
 167-5.04628E-11 5.04628E-11 1.04367E-11-1.55064E-11
 168-1.22762E-11 1.22762E-11 1.47717E-11-1.32028E-11
 169-4.38433E-11 4.38433E-11 1.26085E-11-1.38912E-11
 170 1.28532E-11-1.28532E-11 1.37354E-11-1.16375E-11
 171 1.88761E-12-1.88761E-12 1.13092E-11-1.01234E-11
 172 2.47355E-11-2.47355E-11 1.01204E-11-7.95347E-12
 173-3.40228E-11 3.40228E-11 8.04284E-12-1.02897E-11
 174 1.36092E-11-1.36092E-11 1.07163E-11-9.49017E-12
 175-2.37082E-12 2.37082E-12 8.93417E-12-8.50701E-12
 176 6.70595E-11-6.70595E-11 8.69678E-12-5.34381E-12
 177 6.59942E-12-6.59942E-12 6.11793E-12-5.04455E-12
 178 3.35066E-11-3.35066E-11 3.77199E-12-3.36995E-12
 179-6.56289E-11 6.56289E-11 3.08986E-12-4.73422E-12
 180-8.23132E-11 8.23132E-11 3.84255E-12-9.59530E-12
 181-7.65854E-11 7.65854E-11 7.69726E-12-1.18903E-11
 182-7.60691E-11 7.60691E-11 1.14689E-11-1.61705E-11
 183-4.12822E-11 4.12822E-11 1.55010E-11-1.53823E-11
 184-9.60001E-12 9.60001E-12 1.65747E-11-1.77823E-11
 185-1.11595E-11 1.11595E-11 1.79433E-11-1.77736E-11
 186-9.47580E-12 9.47580E-12 1.70618E-11-1.86270E-11
 187-3.23311E-12 3.23311E-12 1.96520E-11-2.07226E-11
 188 7.76922E-13-7.76922E-13 2.11132E-11-2.14382E-11
 189-5.68806E-12 5.68806E-12 2.13693E-11-2.36546E-11
 190 3.04584E-11-3.04584E-11 2.33056E-11-2.06913E-11
 191-3.37856E-13 3.37856E-13 2.06096E-11-2.15360E-11
 192-1.27753E-11 1.27753E-11 2.13683E-11-2.09281E-11
 193 2.99511E-11-2.99511E-11 2.17207E-11-2.02232E-11
 194 2.78416E-11-2.78416E-11 2.18675E-11-1.90202E-11
 195 1.67098E-11-1.67098E-11 1.79833E-11-1.95125E-11
 196 5.05108E-11-5.05108E-11 1.86073E-11-1.64456E-11
 197 5.36543E-11-5.36543E-11 1.59919E-11-1.25815E-11
 198 9.07940E-11-9.07940E-11 1.13276E-11-6.44863E-12
 199 9.89620E-11-9.89620E-11 7.71266E-12-1.85507E-12
 200 6.88378E-11-6.88378E-11 2.28538E-12 2.32867E-14

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 336.8 REMNOR=0.1458E-21 RATIO =0.2412 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIOI=0.2412 RATIOI= 0.000
 MAX UN= 2.373 IEQ= 129 NODE 65 DOF 1 Y-DISPL.F
 MIN UN=-.2381E-11 IEQ= 96 NODE 48 DOF 2 X-ROT. F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 67.34 REMNOR=0.2017E-20 RATIO =0.1079 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIOI=0.1079 RATIOI= 0.000
 MAX UN= 1.189 IEQ= 79 NODE 40 DOF 1 Y-DISPL.F



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	65 di 401

RELAZIONE DI CALCOLO

MIN UN=-.4340E-09 IEQ= 221 NODE 111 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM= 5788. RIMNOR=0.2102E-18
RENORM= 926.4 REMNOR=0.2545E-17 RATIO =0.4001 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.386 RMMAX =0.4279E-10
RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
RDT = 5788. RDR =0.1000E-15
RATIOT=0.4001 RATOR= 0.000
MAX UN= 13.26 IEQ= 131 NODE 66 DOF 1 Y-DISPL.F
MIN UN=-.2365E-07 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM= 5788. RIMNOR=0.2102E-18
RENORM= 787.5 REMNOR=0.5857E-17 RATIO =0.3689 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.386 RMMAX =0.4279E-10
RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
RDT = 5788. RDR =0.1000E-15
RATIOT=0.3689 RATOR= 0.000
MAX UN= 12.30 IEQ= 181 NODE 91 DOF 1 Y-DISPL.F
MIN UN=-.1549 IEQ= 235 NODE 118 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM= 5788. RIMNOR=0.2102E-18
RENORM= 497.8 REMNOR=0.5697E-17 RATIO =0.2933 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.386 RMMAX =0.4279E-10
RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
RDT = 5788. RDR =0.1000E-15
RATIOT=0.2933 RATOR= 0.000
MAX UN= 10.64 IEQ= 205 NODE 103 DOF 1 Y-DISPL.F
MIN UN=-.7762 IEQ= 227 NODE 114 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
RINORM= 5788. RIMNOR=0.2102E-18
RENORM= 132.8 REMNOR=0.7850E-17 RATIO =0.1515 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.386 RMMAX =0.4279E-10
RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
RDT = 5788. RDR =0.1000E-15
RATIOT=0.1515 RATOR= 0.000
MAX UN= 5.552 IEQ= 229 NODE 115 DOF 1 Y-DISPL.F
MIN UN=-.6633 IEQ= 247 NODE 124 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 7 RNORM = 0.000 RMNORM= 0.000
RINORM= 5788. RIMNOR=0.2102E-18
RENORM= 13.26 REMNOR=0.5816E-17 RATIO =0.4787E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.386 RMMAX =0.4279E-10
RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
RDT = 5788. RDR =0.1000E-15
RATIOT=0.4787E-01 RATOR= 0.000
MAX UN= 2.205 IEQ= 245 NODE 123 DOF 1 Y-DISPL.F
MIN UN=-.1885 IEQ= 269 NODE 135 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 8 RNORM = 0.000 RMNORM= 0.000
RINORM= 5788. RIMNOR=0.2102E-18
RENORM=0.1419 REMNOR=0.4612E-17 RATIO =0.4951E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.386 RMMAX =0.4279E-10
RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
RDT = 5788. RDR =0.1000E-15
RATIOT=0.4951E-02 RATOR= 0.000
MAX UN=0.3428 IEQ= 229 NODE 115 DOF 1 Y-DISPL.F
MIN UN=-.1837E-01 IEQ= 287 NODE 144 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 9 RNORM = 0.000 RMNORM= 0.000
RINORM= 5788. RIMNOR=0.2102E-18
RENORM=0.2374E-13 REMNOR=0.4924E-17 RATIO =0.2025E-08 TOLER =0.1000E-03 CONVERGED !
RFMAX = 7.386 RMMAX =0.4279E-10
RTSMAL=0.1000E-04 RMSMAL=0.1000E-15



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	66 di 401

RELAZIONE DI CALCOLO

RDT = 5788. RDR = 0.1000E-15
 RATIOI=0.2025E-08 RATIOI= 0.000
 MAX UN=0.4668E-07 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F
 MIN UN=-.4213E-07 IEQ= 39 NODE 20 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

 | PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*
 |

| paratia_mario.BaseDesignSection_28.Nominal_63
Exe Time :21 June 2016 11:57:44

paratia_mario
 SOLUTION REACHED USING 9 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F (02)	X-ROT. F (04)
1	5.9423760E-02	-1.2997294E-02
2	5.8773895E-02	-1.2997287E-02
3	5.8124032E-02	-1.2997251E-02
4	5.7474171E-02	-1.2997157E-02
5	5.6824317E-02	-1.2996973E-02
6	5.6174476E-02	-1.2996669E-02
7	5.5524653E-02	-1.2996210E-02
8	5.4874858E-02	-1.2995563E-02
9	5.4225101E-02	-1.2994693E-02
10	5.3575393E-02	-1.2993564E-02
11	5.2925748E-02	-1.2992139E-02
12	5.2276183E-02	-1.2990380E-02
13	5.1626716E-02	-1.2988247E-02
14	5.0977366E-02	-1.2985700E-02
15	5.0328154E-02	-1.2982698E-02
16	4.9679104E-02	-1.2979199E-02
17	4.9030243E-02	-1.2975160E-02
18	4.8381598E-02	-1.2970535E-02
19	4.7733198E-02	-1.2965280E-02
20	4.7085080E-02	-1.2959347E-02
21	4.6437278E-02	-1.2952690E-02
22	4.5789826E-02	-1.2945260E-02
23	4.5142766E-02	-1.2937007E-02
24	4.4496140E-02	-1.2927881E-02
25	4.3849993E-02	-1.2917829E-02
26	4.3204373E-02	-1.2906799E-02
27	4.2559331E-02	-1.2894737E-02
28	4.1914918E-02	-1.2881588E-02
29	4.1271191E-02	-1.2867297E-02
30	4.0628208E-02	-1.2851806E-02
31	3.9986031E-02	-1.2835058E-02
32	3.9344724E-02	-1.2816992E-02
33	3.8704355E-02	-1.2797550E-02
34	3.8065006E-02	-1.2776670E-02
35	3.7426726E-02	-1.2754290E-02
36	3.6789603E-02	-1.2730346E-02
37	3.6153718E-02	-1.2704775E-02
38	3.5519154E-02	-1.2677511E-02
39	3.4885996E-02	-1.2648487E-02
40	3.4254336E-02	-1.2617636E-02
41	3.3624264E-02	-1.2584890E-02
42	3.2995879E-02	-1.2550179E-02
43	3.2369280E-02	-1.2513433E-02
44	3.1744571E-02	-1.2474580E-02
45	3.1121859E-02	-1.2433547E-02
46	3.0501254E-02	-1.2390260E-02
47	2.9882872E-02	-1.2344646E-02
48	2.9266830E-02	-1.2296627E-02
49	2.8653250E-02	-1.2246128E-02
50	2.8042259E-02	-1.2193071E-02
51	2.7433987E-02	-1.2137375E-02
52	2.6828567E-02	-1.2078963E-02
53	2.6226138E-02	-1.2017751E-02
54	2.5626840E-02	-1.1953659E-02
55	2.5030821E-02	-1.1886603E-02
56	2.4438231E-02	-1.1816499E-02
57	2.3849223E-02	-1.1743263E-02
58	2.3263970E-02	-1.1666808E-02
59	2.2682609E-02	-1.1587045E-02



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	67 di 401

RELAZIONE DI CALCOLO

60	2.2105322E-02	-1.1503887E-02
61	2.1532279E-02	-1.1417245E-02
62	2.0963657E-02	-1.1327027E-02
63	2.0399637E-02	-1.1233144E-02
64	1.9840405E-02	-1.1135501E-02
65	1.9286151E-02	-1.1034006E-02
66	1.8737070E-02	-1.0928564E-02
67	1.8193361E-02	-1.0819134E-02
68	1.7655223E-02	-1.0705732E-02
69	1.7122854E-02	-1.0588381E-02
70	1.6596450E-02	-1.0467115E-02
71	1.6076207E-02	-1.0341971E-02
72	1.5562317E-02	-1.0212998E-02
73	1.5054970E-02	-1.0080251E-02
74	1.4554354E-02	-9.9437913E-03
75	1.4060652E-02	-9.8036899E-03
76	1.3574044E-02	-9.6600247E-03
77	1.3094707E-02	-9.5128815E-03
78	1.2622812E-02	-9.3623535E-03
79	1.2158536E-02	-9.2085450E-03
80	1.1702020E-02	-9.0515587E-03
81	1.1253431E-02	-8.8915141E-03
82	1.0812918E-02	-8.7285354E-03
83	1.0380615E-02	-8.5627492E-03
84	9.9566785E-03	-8.3942956E-03
85	9.5412281E-03	-8.2233086E-03
86	9.1343875E-03	-8.0499290E-03
87	8.7362727E-03	-7.8743012E-03
88	8.3469924E-03	-7.6965734E-03
89	7.9666403E-03	-7.5168937E-03
90	7.5953252E-03	-7.3354249E-03
91	7.2331250E-03	-7.1523224E-03
92	6.8801175E-03	-6.9677488E-03
93	6.5363719E-03	-6.7818707E-03
94	6.2019427E-03	-6.5948542E-03
95	5.8768957E-03	-6.4068806E-03
96	5.5612677E-03	-6.2181234E-03
97	5.2550934E-03	-6.0287636E-03
98	4.9583983E-03	-5.8389859E-03
99	4.6711930E-03	-5.6489746E-03
100	4.3934957E-03	-5.4589294E-03
101	4.1252974E-03	-5.2690420E-03
102	3.8665855E-03	-5.0795115E-03
103	3.6173369E-03	-4.8905410E-03
104	3.3775139E-03	-4.7023331E-03
105	3.1470825E-03	-4.5151056E-03
106	2.9259835E-03	-4.3290684E-03
107	2.7141522E-03	-4.1444391E-03
108	2.5115125E-03	-3.9614388E-03
109	2.3179774E-03	-3.7802922E-03
110	2.1334449E-03	-3.6012242E-03
111	1.9578126E-03	-3.4244740E-03
112	1.7909550E-03	-3.2502737E-03
113	1.6327388E-03	-3.0788627E-03
114	1.4830182E-03	-2.9104840E-03
115	1.3416330E-03	-2.7453809E-03
116	1.2084184E-03	-2.5838104E-03
117	1.0831889E-03	-2.4260181E-03
118	9.6574975E-04	-2.2722369E-03
119	8.5589492E-04	-2.1226758E-03
120	7.5340675E-04	-1.9775180E-03
121	6.5806482E-04	-1.8369341E-03
122	5.6963474E-04	-1.7010664E-03
123	4.8787746E-04	-1.5700417E-03
124	4.1254802E-04	-1.4439700E-03
125	3.4339502E-04	-1.3229431E-03
126	2.8016681E-04	-1.2070460E-03
127	2.2260386E-04	-1.0963428E-03
128	1.7044505E-04	-9.9088791E-04
129	1.2342694E-04	-8.9072053E-04
130	8.1284570E-05	-7.9585904E-04
131	4.3752060E-05	-7.0629198E-04
132	1.0566951E-05	-6.2198424E-04
133	-1.8532911E-05	-5.4286930E-04
134	-4.3805062E-05	-4.6885935E-04
135	-6.5502125E-05	-3.9984614E-04
136	-8.3871199E-05	-3.3570292E-04
137	-9.9151680E-05	-2.7629281E-04
138	-1.1157683E-04	-2.2146341E-04
139	-1.2137168E-04	-1.7105382E-04
140	-1.2875305E-04	-1.2489509E-04



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	68 di 401

RELAZIONE DI CALCOLO

141	-1.3392920E-04	-8.2810973E-05
142	-1.3709919E-04	-4.4622675E-05
143	-1.3845331E-04	-1.0145127E-05
144	-1.3817244E-04	2.0808336E-05
145	-1.3642809E-04	4.8425389E-05
146	-1.3338231E-04	7.2893811E-05
147	-1.2918804E-04	9.4398746E-05
148	-1.2398875E-04	1.1312491E-04
149	-1.1791883E-04	1.2925396E-04
150	-1.1110367E-04	1.4296440E-04
151	-1.0365979E-04	1.5443110E-04
152	-9.5694944E-05	1.6382484E-04
153	-8.7308945E-05	1.7131070E-04
154	-7.8593011E-05	1.7704836E-04
155	-6.9630692E-05	1.8119107E-04
156	-6.0498040E-05	1.8388559E-04
157	-5.1263747E-05	1.8527214E-04
158	-4.1990218E-05	1.8548412E-04
159	-3.2732798E-05	1.8464832E-04
160	-2.3540850E-05	1.8288470E-04
161	-1.4457904E-05	1.8030651E-04
162	-5.5218220E-06	1.7702025E-04
163	3.2341676E-06	1.7312607E-04
164	1.1782211E-05	1.6871747E-04
165	2.0098795E-05	1.6388169E-04
166	2.8164612E-05	1.5869983E-04
167	3.5964415E-05	1.5324691E-04
168	4.3486102E-05	1.4759247E-04
169	5.0721365E-05	1.4180015E-04
170	5.7664791E-05	1.3592830E-04
171	6.4313756E-05	1.3003010E-04
172	7.0668166E-05	1.2415376E-04
173	7.6730339E-05	1.1834264E-04
174	8.2504291E-05	1.1263587E-04
175	8.7996241E-05	1.0706796E-04
176	9.3213909E-05	1.0166936E-04
177	9.8166442E-05	9.6466644E-05
178	1.0286431E-04	9.1482537E-05
179	1.0731876E-04	8.6736538E-05
180	1.1154220E-04	8.2244487E-05
181	1.1554765E-04	7.8019142E-05
182	1.1934872E-04	7.4070244E-05
183	1.2295947E-04	7.0404594E-05
184	1.2639404E-04	6.7026488E-05
185	1.2966694E-04	6.3937407E-05
186	1.3279259E-04	6.1136441E-05
187	1.3578533E-04	5.8620325E-05
188	1.3865933E-04	5.6383497E-05
189	1.4142826E-04	5.4418363E-05
190	1.4410553E-04	5.2715111E-05
191	1.4670394E-04	5.1261969E-05
192	1.4923567E-04	5.0045212E-05
193	1.5171219E-04	4.9049209E-05
194	1.5414403E-04	4.8256531E-05
195	1.5654091E-04	4.7647875E-05
196	1.5891153E-04	4.7202177E-05
197	1.6126347E-04	4.6896609E-05
198	1.6360312E-04	4.6706599E-05
199	1.6593566E-04	4.6605839E-05
200	1.6826477E-04	4.6566299E-05
201	1.7059188E-04	4.6558225E-05

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.Nominal_63
Exe Time :21 June 2016 11:57:44

paratia_mario

STRESS RESULTS FOR GROUP NO. 1

0_L
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	69 di 401

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
UFACTOR	Peq	Su_a	Su_p	LAYER							
1 D	0.2600	-5.9424E-02	57.00	10.40	57.00	33.82	ACTIVE	0.000	0.000	0.000	1.000
1.000	10.40	0.000	0.000	5AL_158_160_L_0							
2 D	0.5392	-5.8774E-02	57.95	10.78	57.95	34.38	ACTIVE	0.000	-5.0000E-02	0.000	1.000
1.000	10.78	0.000	0.000	5AL_158_160_L_0							
3 D	0.5585	-5.8124E-02	58.90	11.17	58.90	34.95	ACTIVE	0.000	-0.1000	0.000	1.000
1.000	11.17	0.000	0.000	5AL_158_160_L_0							
4 D	0.5778	-5.7474E-02	59.85	11.56	59.85	35.51	ACTIVE	0.000	-0.1500	0.000	1.000
1.000	11.56	0.000	0.000	5AL_158_160_L_0							
5 D	0.5971	-5.6824E-02	60.80	11.94	60.80	36.07	ACTIVE	0.000	-0.2000	0.000	1.000
1.000	11.94	0.000	0.000	5AL_158_160_L_0							
6 D	0.6163	-5.6174E-02	61.75	12.33	61.75	36.64	ACTIVE	0.000	-0.2500	0.000	1.000
1.000	12.33	0.000	0.000	5AL_158_160_L_0							
7 D	0.6356	-5.5525E-02	62.70	12.71	62.70	37.20	ACTIVE	0.000	-0.3000	0.000	1.000
1.000	12.71	0.000	0.000	5AL_158_160_L_0							
8 D	0.6549	-5.4875E-02	63.65	13.10	63.65	37.76	ACTIVE	0.000	-0.3500	0.000	1.000
1.000	13.10	0.000	0.000	5AL_158_160_L_0							
9 D	0.6742	-5.4225E-02	64.60	13.48	64.60	38.33	ACTIVE	0.000	-0.4000	0.000	1.000
1.000	13.48	0.000	0.000	5AL_158_160_L_0							
10 D	0.6935	-5.3575E-02	65.55	13.87	65.55	38.89	ACTIVE	0.000	-0.4500	0.000	1.000
1.000	13.87	0.000	0.000	5AL_158_160_L_0							
11 D	0.7128	-5.2926E-02	66.50	14.26	66.50	39.45	ACTIVE	0.000	-0.5000	0.000	1.000
1.000	14.26	0.000	0.000	5AL_158_160_L_0							
12 D	0.7321	-5.2276E-02	67.45	14.64	67.45	40.02	ACTIVE	0.000	-0.5500	0.000	1.000
1.000	14.64	0.000	0.000	5AL_158_160_L_0							
13 D	0.7513	-5.1627E-02	68.40	15.03	68.40	40.58	ACTIVE	0.000	-0.6000	0.000	1.000
1.000	15.03	0.000	0.000	5AL_158_160_L_0							
14 D	0.7706	-5.0977E-02	69.35	15.41	69.35	41.15	ACTIVE	0.000	-0.6500	0.000	1.000
1.000	15.41	0.000	0.000	5AL_158_160_L_0							
15 D	0.7899	-5.0328E-02	70.30	15.80	70.30	41.71	ACTIVE	0.000	-0.7000	0.000	1.000
1.000	15.80	0.000	0.000	5AL_158_160_L_0							
16 D	0.8092	-4.9679E-02	71.25	16.18	71.25	42.27	ACTIVE	0.000	-0.7500	0.000	1.000
1.000	16.18	0.000	0.000	5AL_158_160_L_0							
17 D	0.8285	-4.9030E-02	72.20	16.57	72.20	42.84	ACTIVE	0.000	-0.8000	0.000	1.000
1.000	16.57	0.000	0.000	5AL_158_160_L_0							
18 D	0.8478	-4.8382E-02	73.15	16.96	73.15	43.40	ACTIVE	0.000	-0.8500	0.000	1.000
1.000	16.96	0.000	0.000	5AL_158_160_L_0							
19 D	0.8670	-4.7733E-02	74.10	17.34	74.10	43.96	ACTIVE	0.000	-0.9000	0.000	1.000
1.000	17.34	0.000	0.000	5AL_158_160_L_0							
20 D	0.8863	-4.7085E-02	75.05	17.73	75.05	44.53	ACTIVE	0.000	-0.9500	0.000	1.000
1.000	17.73	0.000	0.000	5AL_158_160_L_0							
21 D	0.9056	-4.6437E-02	76.00	18.11	76.00	45.09	ACTIVE	0.000	-1.000	0.000	1.000
1.000	18.11	0.000	0.000	5AL_158_160_L_0							
22 D	0.9249	-4.5790E-02	76.95	18.50	76.95	45.65	ACTIVE	0.000	-1.050	0.000	1.000
1.000	18.50	0.000	0.000	5AL_158_160_L_0							
23 D	0.9442	-4.5143E-02	77.90	18.88	77.90	46.22	ACTIVE	0.000	-1.100	0.000	1.000
1.000	18.88	0.000	0.000	5AL_158_160_L_0							
24 D	0.9635	-4.4496E-02	78.85	19.27	78.85	46.78	ACTIVE	0.000	-1.150	0.000	1.000
1.000	19.27	0.000	0.000	5AL_158_160_L_0							
25 D	0.9828	-4.3850E-02	79.80	19.66	79.80	47.35	ACTIVE	0.000	-1.200	0.000	1.000
1.000	19.66	0.000	0.000	5AL_158_160_L_0							
26 D	1.002	-4.3204E-02	80.75	20.04	80.75	47.91	ACTIVE	0.000	-1.250	0.000	1.000
1.000	20.04	0.000	0.000	5AL_158_160_L_0							
27 D	1.021	-4.2559E-02	81.70	20.43	81.70	48.47	ACTIVE	0.000	-1.300	0.000	1.000
1.000	20.43	0.000	0.000	5AL_158_160_L_0							
28 D	1.041	-4.1915E-02	82.65	20.81	82.65	49.04	ACTIVE	0.000	-1.350	0.000	1.000
1.000	20.81	0.000	0.000	5AL_158_160_L_0							
29 D	1.060	-4.1271E-02	83.60	21.20	83.60	49.60	ACTIVE	0.000	-1.400	0.000	1.000
1.000	21.20	0.000	0.000	5AL_158_160_L_0							
30 D	1.079	-4.0628E-02	84.55	21.58	84.55	50.16	ACTIVE	0.000	-1.450	0.000	1.000
1.000	21.58	0.000	0.000	5AL_158_160_L_0							
31 D	1.098	-3.9986E-02	85.50	21.97	85.50	50.73	ACTIVE	0.000	-1.500	0.000	1.000
1.000	21.97	0.000	0.000	5AL_158_160_L_0							
32 D	1.118	-3.9345E-02	86.45	22.36	86.45	51.29	ACTIVE	0.000	-1.550	0.000	1.000
1.000	22.36	0.000	0.000	5AL_158_160_L_0							
33 D	1.137	-3.8704E-02	87.40	22.74	87.40	51.85	ACTIVE	0.000	-1.600	0.000	1.000
1.000	22.74	0.000	0.000	5AL_158_160_L_0							
34 D	1.156	-3.8065E-02	88.35	23.13	88.35	52.42	ACTIVE	0.000	-1.650	0.000	1.000
1.000	23.13	0.000	0.000	5AL_158_160_L_0							
35 D	1.176	-3.7427E-02	89.30	23.51	89.30	52.98	ACTIVE	0.000	-1.700	0.000	1.000
1.000	23.51	0.000	0.000	5AL_158_160_L_0							
36 D	1.195	-3.6790E-02	90.25	23.90	90.25	53.55	ACTIVE	0.000	-1.750	0.000	1.000
1.000	23.90	0.000	0.000	5AL_158_160_L_0							
37 D	1.214	-3.6154E-02	91.20	24.28	91.20	54.11	ACTIVE	0.000	-1.800	0.000	1.000
1.000	24.28	0.000	0.000	5AL_158_160_L_0							
38 D	1.233	-3.5519E-02	92.15	24.67	92.15	54.67	ACTIVE	0.000	-1.850	0.000	1.000
1.000	24.67	0.000	0.000	5AL_158_160_L_0							



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1.000	24.67	0.000	0.000	5AL_158_160_L_0							
39 D	1.253	-3.4886E-02	93.10	25.05	93.10	55.24	ACTIVE	0.000	-1.900	0.000	1.000
1.000	25.05	0.000	0.000	5AL_158_160_L_0							
40 D	1.272	-3.4254E-02	94.05	25.44	94.05	55.80	ACTIVE	0.000	-1.950	0.000	1.000
1.000	25.44	0.000	0.000	5AL_158_160_L_0							
41 D	1.291	-3.3624E-02	95.00	25.83	95.00	56.36	ACTIVE	0.000	-2.000	0.000	1.000
1.000	25.83	0.000	0.000	5AL_158_160_L_0							
42 D	1.311	-3.2996E-02	95.95	26.21	95.95	56.93	ACTIVE	0.000	-2.050	0.000	1.000
1.000	26.21	0.000	0.000	5AL_158_160_L_0							
43 D	1.330	-3.2369E-02	96.90	26.60	96.90	57.49	ACTIVE	0.000	-2.100	0.000	1.000
1.000	26.60	0.000	0.000	5AL_158_160_L_0							
44 D	1.349	-3.1745E-02	97.85	26.98	97.85	58.05	ACTIVE	0.000	-2.150	0.000	1.000
1.000	26.98	0.000	0.000	5AL_158_160_L_0							
45 D	1.368	-3.1122E-02	98.80	27.37	98.80	58.62	ACTIVE	0.000	-2.200	0.000	1.000
1.000	27.37	0.000	0.000	5AL_158_160_L_0							
46 D	1.388	-3.0501E-02	99.75	27.75	99.75	59.18	ACTIVE	0.000	-2.250	0.000	1.000
1.000	27.75	0.000	0.000	5AL_158_160_L_0							
47 D	1.407	-2.9883E-02	100.7	28.14	100.7	59.75	ACTIVE	0.000	-2.300	0.000	1.000
1.000	28.14	0.000	0.000	5AL_158_160_L_0							
48 D	1.426	-2.9267E-02	101.6	28.53	101.6	60.31	ACTIVE	0.000	-2.350	0.000	1.000
1.000	28.53	0.000	0.000	5AL_158_160_L_0							
49 D	1.446	-2.8653E-02	102.6	28.91	102.6	60.87	ACTIVE	0.000	-2.400	0.000	1.000
1.000	28.91	0.000	0.000	5AL_158_160_L_0							
50 D	1.465	-2.8042E-02	103.5	29.30	103.5	61.44	ACTIVE	0.000	-2.450	0.000	1.000
1.000	29.30	0.000	0.000	5AL_158_160_L_0							
51 D	1.484	-2.7434E-02	104.5	29.68	104.5	62.00	ACTIVE	0.000	-2.500	0.000	1.000
1.000	29.68	0.000	0.000	5AL_158_160_L_0							
52 D	1.503	-2.6829E-02	105.4	30.07	105.4	62.56	ACTIVE	0.000	-2.550	0.000	1.000
1.000	30.07	0.000	0.000	5AL_158_160_L_0							
53 D	1.523	-2.6226E-02	106.4	30.45	106.4	63.13	ACTIVE	0.000	-2.600	0.000	1.000
1.000	30.45	0.000	0.000	5AL_158_160_L_0							
54 D	1.542	-2.5627E-02	107.3	30.84	107.3	63.69	ACTIVE	0.000	-2.650	0.000	1.000
1.000	30.84	0.000	0.000	5AL_158_160_L_0							
55 D	1.561	-2.5031E-02	108.3	31.23	108.3	64.25	ACTIVE	0.000	-2.700	0.000	1.000
1.000	31.23	0.000	0.000	5AL_158_160_L_0							
56 D	1.581	-2.4438E-02	109.2	31.61	109.2	64.82	ACTIVE	0.000	-2.750	0.000	1.000
1.000	31.61	0.000	0.000	5AL_158_160_L_0							
57 D	1.600	-2.3849E-02	110.2	32.00	110.2	65.38	ACTIVE	0.000	-2.800	0.000	1.000
1.000	32.00	0.000	0.000	5AL_158_160_L_0							
58 D	1.619	-2.3264E-02	111.1	32.38	111.1	65.95	ACTIVE	0.000	-2.850	0.000	1.000
1.000	32.38	0.000	0.000	5AL_158_160_L_0							
59 D	1.638	-2.2683E-02	112.1	32.77	112.1	66.51	ACTIVE	0.000	-2.900	0.000	1.000
1.000	32.77	0.000	0.000	5AL_158_160_L_0							
60 D	1.658	-2.2105E-02	113.0	33.15	113.0	67.07	ACTIVE	0.000	-2.950	0.000	1.000
1.000	33.15	0.000	0.000	5AL_158_160_L_0							
61 D	1.677	-2.1532E-02	114.0	33.54	114.0	67.64	ACTIVE	0.000	-3.000	0.000	1.000
1.000	33.54	0.000	0.000	5AL_158_160_L_0							
62 D	1.696	-2.0964E-02	114.9	33.93	114.9	68.20	ACTIVE	0.000	-3.050	0.000	1.000
1.000	33.93	0.000	0.000	5AL_158_160_L_0							
63 D	1.716	-2.0400E-02	115.9	34.31	115.9	68.76	ACTIVE	0.000	-3.100	0.000	1.000
1.000	34.31	0.000	0.000	5AL_158_160_L_0							
64 D	1.735	-1.9840E-02	116.8	34.70	116.8	69.33	ACTIVE	0.000	-3.150	0.000	1.000
1.000	34.70	0.000	0.000	5AL_158_160_L_0							
65 D	1.754	-1.9286E-02	117.8	35.08	117.8	69.89	ACTIVE	0.000	-3.200	0.000	1.000
1.000	35.08	0.000	0.000	5AL_158_160_L_0							
66 D	1.773	-1.8737E-02	118.7	35.47	118.7	70.45	ACTIVE	0.000	-3.250	0.000	1.000
1.000	35.47	0.000	0.000	5AL_158_160_L_0							
67 D	1.793	-1.8193E-02	119.7	35.85	119.7	71.02	ACTIVE	0.000	-3.300	0.000	1.000
1.000	35.85	0.000	0.000	5AL_158_160_L_0							
68 D	1.812	-1.7655E-02	120.6	36.24	120.6	71.58	ACTIVE	0.000	-3.350	0.000	1.000
1.000	36.24	0.000	0.000	5AL_158_160_L_0							
69 D	1.831	-1.7123E-02	121.6	36.63	121.6	72.15	ACTIVE	0.000	-3.400	0.000	1.000
1.000	36.63	0.000	0.000	5AL_158_160_L_0							
70 D	1.851	-1.6596E-02	122.5	37.01	122.5	72.71	ACTIVE	0.000	-3.450	0.000	1.000
1.000	37.01	0.000	0.000	5AL_158_160_L_0							
71 D	1.870	-1.6076E-02	123.5	37.40	123.5	73.27	ACTIVE	0.000	-3.500	0.000	1.000
1.000	37.40	0.000	0.000	5AL_158_160_L_0							
72 D	1.889	-1.5562E-02	124.4	37.78	124.4	73.84	ACTIVE	0.000	-3.550	0.000	1.000
1.000	37.78	0.000	0.000	5AL_158_160_L_0							
73 D	1.908	-1.5055E-02	125.4	38.17	125.4	74.40	ACTIVE	0.000	-3.600	0.000	1.000
1.000	38.17	0.000	0.000	5AL_158_160_L_0							
74 D	1.928	-1.4554E-02	126.3	38.55	126.3	74.96	ACTIVE	0.000	-3.650	0.000	1.000
1.000	38.55	0.000	0.000	5AL_158_160_L_0							
75 D	1.947	-1.4061E-02	127.3	38.94	127.3	75.53	ACTIVE	0.000	-3.700	0.000	1.000
1.000	38.94	0.000	0.000	5AL_158_160_L_0							
76 D	1.966	-1.3574E-02	128.2	39.33	128.2	76.09	ACTIVE	0.000	-3.750	0.000	1.000
1.000	39.33	0.000	0.000	5AL_158_160_L_0							
77 D	1.986	-1.3095E-02	129.2	39.71	129.2	76.65	ACTIVE	0.000	-3.800	0.000	1.000
1.000	39.71	0.000	0.000	5AL_158_160_L_0							
78 D	2.005	-1.2623E-02	130.1	40.10	130.1	77.22	ACTIVE	0.000	-3.850	0.000	1.000
1.000	40.10	0.000	0.000	5AL_158_160_L_0							

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79 D	2.024	-1.2159E-02	131.1	40.48	131.1	77.78	ACTIVE	0.000	-3.900	0.000	1.000
1.000	40.48	0.000	0.000	5AL_158_160_L_0							
80 D	2.043	-1.1702E-02	132.0	40.87	132.0	78.35	ACTIVE	0.000	-3.950	0.000	1.000
1.000	40.87	0.000	0.000	5AL_158_160_L_0							
81 D	2.063	-1.1253E-02	133.0	41.25	133.0	78.91	ACTIVE	0.000	-4.000	0.000	1.000
1.000	41.25	0.000	0.000	5AL_158_160_L_0							
82 D	2.097	-1.0813E-02	133.4	41.44	133.4	79.18	ACTIVE	0.000	-4.050	0.5000	1.000
1.000	41.94	0.000	0.000	5AL_158_160_L_0							
83 D	2.131	-1.0381E-02	133.9	41.62	133.9	79.44	ACTIVE	0.000	-4.100	1.000	1.000
1.000	42.62	0.000	0.000	5AL_158_160_L_0							
84 D	2.165	-9.9567E-03	134.3	41.80	134.3	79.71	ACTIVE	0.000	-4.150	1.500	1.000
1.000	43.30	0.000	0.000	5AL_158_160_L_0							
85 D	2.199	-9.5412E-03	134.8	41.99	134.8	79.98	ACTIVE	0.000	-4.200	2.000	1.000
1.000	43.99	0.000	0.000	5AL_158_160_L_0							
86 D	2.233	-9.1344E-03	135.2	42.17	135.2	80.24	ACTIVE	0.000	-4.250	2.500	1.000
1.000	44.67	0.000	0.000	5AL_158_160_L_0							
87 D	2.268	-8.7363E-03	135.7	42.35	135.7	80.51	ACTIVE	0.000	-4.300	3.000	1.000
1.000	45.35	0.000	0.000	5AL_158_160_L_0							
88 D	2.302	-8.3470E-03	136.1	42.53	136.1	80.78	ACTIVE	0.000	-4.350	3.500	1.000
1.000	46.03	0.000	0.000	5AL_158_160_L_0							
89 D	2.336	-7.9666E-03	136.6	42.72	136.6	81.04	ACTIVE	0.000	-4.400	4.000	1.000
1.000	46.72	0.000	0.000	5AL_158_160_L_0							
90 D	2.370	-7.5953E-03	137.0	42.90	137.0	81.31	ACTIVE	0.000	-4.450	4.500	1.000
1.000	47.40	0.000	0.000	5AL_158_160_L_0							
91 D	2.404	-7.2331E-03	137.5	43.08	137.5	81.58	ACTIVE	0.000	-4.500	5.000	1.000
1.000	48.08	0.000	0.000	5AL_158_160_L_0							
92 D	2.438	-6.8801E-03	137.9	43.26	137.9	81.85	ACTIVE	0.000	-4.550	5.500	1.000
1.000	48.76	0.000	0.000	5AL_158_160_L_0							
93 D	2.472	-6.5364E-03	138.4	43.45	138.4	82.11	ACTIVE	0.000	-4.600	6.000	1.000
1.000	49.45	0.000	0.000	5AL_158_160_L_0							
94 D	2.506	-6.2019E-03	138.9	43.63	138.9	82.38	ACTIVE	0.000	-4.650	6.500	1.000
1.000	50.13	0.000	0.000	5AL_158_160_L_0							
95 D	2.541	-5.8769E-03	139.3	43.81	139.3	82.65	ACTIVE	0.000	-4.700	7.000	1.000
1.000	50.81	0.000	0.000	5AL_158_160_L_0							
96 D	2.575	-5.5613E-03	139.8	43.99	139.8	82.91	ACTIVE	0.000	-4.750	7.500	1.000
1.000	51.49	0.000	0.000	5AL_158_160_L_0							
97 D	2.609	-5.2551E-03	140.2	44.18	140.2	83.18	ACTIVE	0.000	-4.800	8.000	1.000
1.000	52.18	0.000	0.000	5AL_158_160_L_0							
98 D	2.643	-4.9584E-03	140.6	44.36	140.6	83.45	ACTIVE	0.000	-4.850	8.500	1.000
1.000	52.86	0.000	0.000	5AL_158_160_L_0							
99 D	2.677	-4.6712E-03	141.1	44.54	141.1	83.71	ACTIVE	0.000	-4.900	9.000	1.000
1.000	53.54	0.000	0.000	5AL_158_160_L_0							
100 D	2.711	-4.3935E-03	141.6	44.73	141.6	83.98	ACTIVE	0.000	-4.950	9.500	1.000
1.000	54.23	0.000	0.000	5AL_158_160_L_0							
101 D	2.745	-4.1253E-03	142.0	44.91	142.0	84.25	ACTIVE	0.000	-5.000	10.00	1.000
1.000	54.91	0.000	0.000	5AL_158_160_L_0							
102 D	2.780	-3.8666E-03	142.5	45.09	142.5	84.52	ACTIVE	0.000	-5.050	10.50	1.000
1.000	55.59	0.000	0.000	5AL_158_160_L_0							
103 D	2.814	-3.6173E-03	142.9	45.27	142.9	84.78	ACTIVE	0.000	-5.100	11.00	1.000
1.000	56.27	0.000	0.000	5AL_158_160_L_0							
104 D	2.848	-3.3775E-03	143.4	45.46	143.4	85.05	ACTIVE	0.000	-5.150	11.50	1.000
1.000	56.96	0.000	0.000	5AL_158_160_L_0							
105 D	2.882	-3.1471E-03	143.8	45.64	143.8	85.32	ACTIVE	0.000	-5.200	12.00	1.000
1.000	57.64	0.000	0.000	5AL_158_160_L_0							
106 D	2.916	-2.9260E-03	144.3	45.82	144.3	85.58	ACTIVE	0.000	-5.250	12.50	1.000
1.000	58.32	0.000	0.000	5AL_158_160_L_0							
107 D	2.950	-2.7142E-03	144.7	46.00	144.7	85.85	ACTIVE	0.000	-5.300	13.00	1.000
1.000	59.00	0.000	0.000	5AL_158_160_L_0							
108 D	2.984	-2.5115E-03	145.2	46.19	145.2	86.12	ACTIVE	0.000	-5.350	13.50	1.000
1.000	59.69	0.000	0.000	5AL_158_160_L_0							
109 D	3.019	-2.3180E-03	145.6	46.37	145.6	86.38	ACTIVE	0.000	-5.400	14.00	1.000
1.000	60.37	0.000	0.000	5AL_158_160_L_0							
110 D	3.053	-2.1334E-03	146.1	46.55	146.1	86.65	ACTIVE	0.000	-5.450	14.50	1.000
1.000	61.05	0.000	0.000	5AL_158_160_L_0							
111 D	3.087	-1.9578E-03	146.5	46.74	146.5	87.10	ACTIVE	0.000	-5.500	15.00	1.000
1.000	61.74	0.000	0.000	5AL_158_160_L_0							
112 D	3.121	-1.7910E-03	147.0	46.92	147.0	88.82	ACTIVE	0.000	-5.550	15.50	1.000
1.000	62.42	0.000	0.000	5AL_158_160_L_0							
113 D	3.155	-1.6327E-03	147.4	47.10	147.4	90.26	ACTIVE	0.000	-5.600	16.00	1.000
1.000	63.10	0.000	0.000	5AL_158_160_L_0							
114 D	3.189	-1.4830E-03	147.9	47.28	147.9	91.43	ACTIVE	0.000	-5.650	16.50	1.000
1.000	63.78	0.000	0.000	5AL_158_160_L_0							
115 D	3.223	-1.3416E-03	148.3	47.47	148.3	92.37	ACTIVE	0.000	-5.700	17.00	1.000
1.000	64.47	0.000	0.000	5AL_158_160_L_0							
116 D	3.257	-1.2084E-03	148.8	47.65	148.8	93.09	ACTIVE	0.000	-5.750	17.50	1.000
1.000	65.15	0.000	0.000	5AL_158_160_L_0							
117 D	3.292	-1.0832E-03	149.2	47.83	149.2	93.61	ACTIVE	0.000	-5.800	18.00	1.000
1.000	65.83	0.000	0.000	5AL_158_160_L_0							
118 D	3.326	-9.6575E-04	149.7	48.01	149.7	93.95	ACTIVE	0.000	-5.850	18.50	1.000
1.000	66.51	0.000	0.000	5AL_158_160_L_0							
119 D	3.360	-8.5589E-04	150.1	48.20	150.1	94.13	ACTIVE	0.000	-5.900	19.00	1.000

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	72 di 401

1.000	67.20	0.000	0.000	5AL_158_160_L_0							
120 D	3.394	-7.5341E-04	150.6	48.38	150.6	94.17	ACTIVE	0.000	-5.950	19.50	1.000
1.000	67.88	0.000	0.000	5AL_158_160_L_0							
121 D	3.428	-6.5806E-04	151.0	48.56	151.0	94.08	ACTIVE	0.000	-6.000	20.00	1.000
1.000	68.56	0.000	0.000	5AL_158_160_L_0							
122 D	3.462	-5.6963E-04	151.5	48.75	151.5	93.88	ACTIVE	0.000	-6.050	20.50	1.000
1.000	69.25	0.000	0.000	5AL_158_160_L_0							
123 D	3.496	-4.8788E-04	151.9	48.93	151.9	93.58	ACTIVE	0.000	-6.100	21.00	1.000
1.000	69.93	0.000	0.000	5AL_158_160_L_0							
124 D	3.531	-4.1255E-04	152.4	49.11	152.4	94.81	ACTIVE	0.000	-6.150	21.50	1.000
1.000	70.61	0.000	0.000	5AL_158_160_L_0							
125 D	3.565	-3.4340E-04	152.8	49.29	152.8	96.05	ACTIVE	0.000	-6.200	22.00	1.000
1.000	71.29	0.000	0.000	5AL_158_160_L_0							
126 D	3.599	-2.8017E-04	153.3	49.48	153.3	97.04	ACTIVE	0.000	-6.250	22.50	1.000
1.000	71.98	0.000	0.000	5AL_158_160_L_0							
127 D	3.633	-2.2260E-04	153.7	49.66	153.7	97.80	ACTIVE	0.000	-6.300	23.00	1.000
1.000	72.66	0.000	0.000	5AL_158_160_L_0							
128 D	3.667	-1.7045E-04	154.2	49.84	154.2	98.35	ACTIVE	0.000	-6.350	23.50	1.000
1.000	73.34	0.000	0.000	5AL_158_160_L_0							
129 D	3.897	-1.2343E-04	154.6	53.95	154.6	98.70	UL-RL	1.4716E+05	-6.400	24.00	1.000
1.000	77.95	0.000	0.000	5AL_158_160_L_0							
130 D	4.248	-8.1285E-05	155.1	60.47	155.1	98.89	UL-RL	1.4716E+05	-6.450	24.50	1.000
1.000	84.97	0.000	0.000	5AL_158_160_L_0							
131 D	4.570	-4.3752E-05	155.5	66.40	155.5	98.92	UL-RL	1.4716E+05	-6.500	25.00	1.000
1.000	91.40	0.000	0.000	5AL_158_160_L_0							
132 D	4.864	-1.0567E-05	156.0	71.77	156.0	98.81	UL-RL	1.4716E+05	-6.550	25.50	1.000
1.000	97.27	0.000	0.000	5AL_158_160_L_0							
133 D	5.131	1.8533E-05	156.4	76.62	156.4	98.59	UL-RL	1.4716E+05	-6.600	26.00	1.000
1.000	102.6	0.000	0.000	5AL_158_160_L_0							
134 D	5.373	4.3805E-05	156.9	80.96	156.9	98.26	UL-RL	1.4716E+05	-6.650	26.50	1.000
1.000	107.5	0.000	0.000	5AL_158_160_L_0							
135 D	5.565	6.5502E-05	157.3	84.31	157.3	98.72	UL-RL	1.4716E+05	-6.700	27.00	1.000
1.000	111.3	0.000	0.000	5AL_158_160_L_0							
136 D	5.728	8.3871E-05	157.8	87.06	157.8	99.35	UL-RL	1.4716E+05	-6.750	27.50	1.000
1.000	114.6	0.000	0.000	5AL_158_160_L_0							
137 D	5.873	9.9152E-05	158.2	89.46	158.2	99.80	UL-RL	1.4716E+05	-6.800	28.00	1.000
1.000	117.5	0.000	0.000	5AL_158_160_L_0							
138 D	6.003	1.1158E-04	158.7	91.56	158.7	100.1	UL-RL	1.4716E+05	-6.850	28.50	1.000
1.000	120.1	0.000	0.000	5AL_158_160_L_0							
139 D	6.118	1.2137E-04	159.1	93.36	159.1	100.2	UL-RL	1.4716E+05	-6.900	29.00	1.000
1.000	122.4	0.000	0.000	5AL_158_160_L_0							
140 D	6.219	1.2875E-04	159.6	94.88	159.6	100.2	UL-RL	1.4716E+05	-6.950	29.50	1.000
1.000	124.4	0.000	0.000	5AL_158_160_L_0							
141 D	6.308	1.3393E-04	160.0	96.16	160.0	100.0	UL-RL	1.4716E+05	-7.000	30.00	1.000
1.000	126.2	0.000	0.000	5AL_158_160_L_0							
142 D	6.385	1.3710E-04	160.5	97.20	160.5	99.77	UL-RL	1.4716E+05	-7.050	30.50	1.000
1.000	127.7	0.000	0.000	5AL_158_160_L_0							
143 D	6.452	1.3845E-04	160.9	98.04	160.9	99.42	UL-RL	1.4716E+05	-7.100	31.00	1.000
1.000	129.0	0.000	0.000	5AL_158_160_L_0							
144 D	6.495	1.3817E-04	161.4	98.40	161.4	99.45	UL-RL	1.4716E+05	-7.150	31.50	1.000
1.000	129.9	0.000	0.000	5AL_158_160_L_0							
145 D	6.530	1.3643E-04	161.8	98.60	161.8	99.40	UL-RL	1.4716E+05	-7.200	32.00	1.000
1.000	130.6	0.000	0.000	5AL_158_160_L_0							
146 D	6.559	1.3338E-04	162.3	98.68	162.3	99.25	UL-RL	1.4716E+05	-7.250	32.50	1.000
1.000	131.2	0.000	0.000	5AL_158_160_L_0							
147 D	6.582	1.2919E-04	162.7	98.84	162.7	99.00	UL-RL	1.4716E+05	-7.300	33.00	1.000
1.000	131.6	0.000	0.000	5AL_158_160_L_0							
148 D	6.600	1.2399E-04	163.2	98.50	163.2	98.67	UL-RL	1.4716E+05	-7.350	33.50	1.000
1.000	132.0	0.000	0.000	5AL_158_160_L_0							
149 D	6.613	1.1792E-04	163.6	98.27	163.6	98.27	UL-RL	1.4716E+05	-7.400	34.00	1.000
1.000	132.3	0.000	0.000	5AL_158_160_L_0							
150 D	6.620	1.1110E-04	164.1	97.91	164.1	97.91	V-C	9.1974E+04	-7.450	34.50	1.000
1.000	132.4	0.000	0.000	5AL_158_160_L_0							
151 D	6.621	1.0366E-04	164.5	97.43	164.5	97.60	UL-RL	1.4716E+05	-7.500	35.00	1.000
1.000	132.4	0.000	0.000	5AL_158_160_L_0							
152 D	6.601	9.5695E-05	165.0	96.52	165.0	97.86	UL-RL	1.4716E+05	-7.550	35.50	1.000
1.000	132.0	0.000	0.000	5AL_158_160_L_0							
153 D	6.578	8.7309E-05	165.4	95.56	165.4	98.13	UL-RL	1.4716E+05	-7.600	36.00	1.000
1.000	131.6	0.000	0.000	5AL_158_160_L_0							
154 D	6.552	7.8593E-05	165.9	94.54	165.9	98.40	UL-RL	1.4716E+05	-7.650	36.50	1.000
1.000	131.0	0.000	0.000	5AL_158_160_L_0							
155 D	6.524	6.9631E-05	166.3	93.49	166.3	98.67	UL-RL	1.4716E+05	-7.700	37.00	1.000
1.000	130.5	0.000	0.000	5AL_158_160_L_0							
156 D	6.496	6.0498E-05	166.8	92.41	166.8	98.93	UL-RL	1.4716E+05	-7.750	37.50	1.000
1.000	129.9	0.000	0.000	5AL_158_160_L_0							
157 D	6.466	5.1264E-05	167.2	91.32	167.2	99.20	UL-RL	1.4716E+05	-7.800	38.00	1.000
1.000	129.3	0.000	0.000	5AL_158_160_L_0							
158 D	6.436	4.1990E-05	167.7	90.22	167.7	99.47	UL-RL	1.4716E+05	-7.850	38.50	1.000
1.000	128.7	0.000	0.000	5AL_158_160_L_0							
159 D	6.406	3.2733E-05	168.1	89.13	168.1	99.73	UL-RL	1.4716E+05	-7.900	39.00	1.000
1.000	128.1	0.000	0.000	5AL_158_160_L_0							

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 D04	A	73 di 401

160 D	6.377	2.3541E-05	168.6	88.04	168.6	100.0	UL-RL	1.4716E+05	-7.950	39.50	1.000
1.000	127.5	0.000	0.000	SAL_158_160_L_0							
161 D	6.349	1.4458E-05	169.0	86.97	169.0	100.3	UL-RL	1.4716E+05	-8.000	40.00	1.000
1.000	127.0	0.000	0.000	SAL_158_160_L_0							
162 D	6.321	5.5218E-06	169.5	85.92	169.5	100.5	UL-RL	1.4716E+05	-8.050	40.50	1.000
1.000	126.4	0.000	0.000	SAL_158_160_L_0							
163 D	6.295	-3.2342E-06	169.9	84.90	169.9	100.8	UL-RL	1.4716E+05	-8.100	41.00	1.000
1.000	125.9	0.000	0.000	SAL_158_160_L_0							
164 D	6.271	-1.1782E-05	170.4	83.91	170.4	101.1	UL-RL	1.4716E+05	-8.150	41.50	1.000
1.000	125.4	0.000	0.000	SAL_158_160_L_0							
165 D	6.248	-2.0099E-05	170.8	82.95	170.8	101.3	UL-RL	1.4716E+05	-8.200	42.00	1.000
1.000	125.0	0.000	0.000	SAL_158_160_L_0							
166 D	6.227	-2.8165E-05	171.3	82.03	171.3	101.6	UL-RL	1.4716E+05	-8.250	42.50	1.000
1.000	124.5	0.000	0.000	SAL_158_160_L_0							
167 D	6.208	-3.5964E-05	171.7	81.15	171.7	101.9	UL-RL	1.4716E+05	-8.300	43.00	1.000
1.000	124.2	0.000	0.000	SAL_158_160_L_0							
168 D	6.191	-4.3486E-05	172.2	80.31	172.2	102.1	UL-RL	1.4716E+05	-8.350	43.50	1.000
1.000	123.8	0.000	0.000	SAL_158_160_L_0							
169 D	6.176	-5.0721E-05	172.6	79.51	172.6	102.4	UL-RL	1.4716E+05	-8.400	44.00	1.000
1.000	123.5	0.000	0.000	SAL_158_160_L_0							
170 D	6.163	-5.7665E-05	173.1	78.76	173.1	102.7	UL-RL	1.4716E+05	-8.450	44.50	1.000
1.000	123.3	0.000	0.000	SAL_158_160_L_0							
171 D	6.152	-6.4314E-05	173.5	78.05	173.5	102.9	UL-RL	1.4716E+05	-8.500	45.00	1.000
1.000	123.0	0.000	0.000	SAL_158_160_L_0							
172 D	6.144	-7.0668E-05	174.0	77.38	174.0	103.2	UL-RL	1.4716E+05	-8.550	45.50	1.000
1.000	122.9	0.000	0.000	SAL_158_160_L_0							
173 D	6.138	-7.6730E-05	174.4	76.76	174.4	103.5	UL-RL	1.4716E+05	-8.600	46.00	1.000
1.000	122.8	0.000	0.000	SAL_158_160_L_0							
174 D	6.134	-8.2504E-05	174.9	76.17	174.9	103.7	UL-RL	1.4716E+05	-8.650	46.50	1.000
1.000	122.7	0.000	0.000	SAL_158_160_L_0							
175 D	6.132	-8.7996E-05	175.3	75.63	175.3	104.0	UL-RL	1.4716E+05	-8.700	47.00	1.000
1.000	122.6	0.000	0.000	SAL_158_160_L_0							
176 D	6.132	-9.3214E-05	175.8	75.13	175.8	104.3	UL-RL	1.4716E+05	-8.750	47.50	1.000
1.000	122.6	0.000	0.000	SAL_158_160_L_0							
177 D	6.133	-9.8166E-05	176.2	74.67	176.2	104.5	UL-RL	1.4716E+05	-8.800	48.00	1.000
1.000	122.7	0.000	0.000	SAL_158_160_L_0							
178 D	6.137	-1.0286E-04	176.7	74.24	176.7	104.8	UL-RL	1.4716E+05	-8.850	48.50	1.000
1.000	122.7	0.000	0.000	SAL_158_160_L_0							
179 D	6.143	-1.0732E-04	177.1	73.86	177.1	105.1	UL-RL	1.4716E+05	-8.900	49.00	1.000
1.000	122.9	0.000	0.000	SAL_158_160_L_0							
180 D	6.150	-1.1154E-04	177.6	73.50	177.6	105.3	UL-RL	1.4716E+05	-8.950	49.50	1.000
1.000	123.0	0.000	0.000	SAL_158_160_L_0							
181 D	6.159	-1.1555E-04	178.0	73.18	178.0	105.6	UL-RL	1.4716E+05	-9.000	50.00	1.000
1.000	123.2	0.000	0.000	SAL_158_160_L_0							
182 D	6.169	-1.1935E-04	178.5	72.89	178.5	105.9	UL-RL	1.4716E+05	-9.050	50.50	1.000
1.000	123.4	0.000	0.000	SAL_158_160_L_0							
183 D	6.181	-1.2296E-04	178.9	72.62	178.9	106.1	UL-RL	1.4716E+05	-9.100	51.00	1.000
1.000	123.6	0.000	0.000	SAL_158_160_L_0							
184 D	6.194	-1.2639E-04	179.4	72.38	179.4	106.4	UL-RL	1.4716E+05	-9.150	51.50	1.000
1.000	123.9	0.000	0.000	SAL_158_160_L_0							
185 D	6.208	-1.2967E-04	179.8	72.17	179.8	106.7	UL-RL	1.4716E+05	-9.200	52.00	1.000
1.000	124.2	0.000	0.000	SAL_158_160_L_0							
186 D	6.224	-1.3279E-04	180.3	71.98	180.3	106.9	UL-RL	1.4716E+05	-9.250	52.50	1.000
1.000	124.5	0.000	0.000	SAL_158_160_L_0							
187 D	6.240	-1.3579E-04	180.7	71.80	180.7	107.2	UL-RL	1.4716E+05	-9.300	53.00	1.000
1.000	124.8	0.000	0.000	SAL_158_160_L_0							
188 D	6.257	-1.3866E-04	181.2	71.65	181.2	107.5	UL-RL	1.4716E+05	-9.350	53.50	1.000
1.000	125.1	0.000	0.000	SAL_158_160_L_0							
189 D	6.275	-1.4143E-04	181.6	71.51	181.6	107.7	UL-RL	1.4716E+05	-9.400	54.00	1.000
1.000	125.5	0.000	0.000	SAL_158_160_L_0							
190 D	6.294	-1.4411E-04	182.1	71.38	182.1	108.0	UL-RL	1.4716E+05	-9.450	54.50	1.000
1.000	125.9	0.000	0.000	SAL_158_160_L_0							
191 D	6.313	-1.4670E-04	182.5	71.26	182.5	108.3	UL-RL	1.4716E+05	-9.500	55.00	1.000
1.000	126.3	0.000	0.000	SAL_158_160_L_0							
192 D	6.333	-1.4924E-04	183.0	71.16	183.0	108.5	UL-RL	1.4716E+05	-9.550	55.50	1.000
1.000	126.7	0.000	0.000	SAL_158_160_L_0							
193 D	6.353	-1.5171E-04	183.4	71.06	183.4	108.8	UL-RL	1.4716E+05	-9.600	56.00	1.000
1.000	127.1	0.000	0.000	SAL_158_160_L_0							
194 D	6.374	-1.5414E-04	183.9	70.97	183.9	109.1	UL-RL	1.4716E+05	-9.650	56.50	1.000
1.000	127.5	0.000	0.000	SAL_158_160_L_0							
195 D	6.394	-1.5654E-04	184.3	70.88	184.3	109.3	UL-RL	1.4716E+05	-9.700	57.00	1.000
1.000	127.9	0.000	0.000	SAL_158_160_L_0							
196 D	6.415	-1.5891E-04	184.8	70.80	184.8	109.6	UL-RL	1.4716E+05	-9.750	57.50	1.000
1.000	128.3	0.000	0.000	SAL_158_160_L_0							
197 D	6.436	-1.6126E-04	185.2	70.72	185.2	109.9	UL-RL	1.4716E+05	-9.800	58.00	1.000
1.000	128.7	0.000	0.000	SAL_158_160_L_0							
198 D	6.457	-1.6360E-04	185.7	70.65	185.7	110.1	UL-RL	1.4716E+05	-9.850	58.50	1.000
1.000	129.1	0.000	0.000	SAL_158_160_L_0							
199 D	6.479	-1.6594E-04	186.1	70.57	186.1	110.4	UL-RL	1.4716E+05	-9.900	59.00	1.000
1.000	129.6	0.000	0.000	SAL_158_160_L_0							
200 D	6.498	-1.6826E-04	186.6	70.49	186.6	110.7	UL-RL	1.4716E+05	-9.950	59.50	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	74 di 401

RELAZIONE DI CALCOLO

1.000	130.0	0.000	0.000	5AL_158_160_L_0							
201 D	3.259	-1.7059E-04	187.0	70.42	187.0	110.9	UL-RL	1.4716E+05	-10.00	60.00	1.000
1.000	130.4	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.Nominal_63
Exe Time :21 June 2016 11:57:44

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
UFACOR	Peq	Su_a	Su_p	LAYER							
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-5.0000E-02	0.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.1000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.1500	0.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.2500	0.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-0.3000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.3500	0.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.4500	0.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-0.5000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.5500	0.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.6500	0.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-0.7000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.7500	0.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.8500	0.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--	-0.9000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.9500	0.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-1.050	0.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--	-1.100	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-1.150	0.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-1.250	0.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--			
15	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--			
16	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--			
17	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--			
18	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--			
19	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--			
20	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--			
21	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--			
22	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--			
23	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--			
24	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--			
25	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--			
26	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--			

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	75 di 401

27	0.000	--	--	--	--	REMOVED	--	-1.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.350	0.000	1.000	
28	0.000	--	--	--	--	REMOVED	--	-1.400	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.450	0.000	1.000	
29	0.000	--	--	--	--	REMOVED	--	-1.500	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.550	0.000	1.000	
30	0.000	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.650	0.000	1.000	
31	0.000	--	--	--	--	REMOVED	--	-1.700	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.750	0.000	1.000	
32	0.000	--	--	--	--	REMOVED	--	-1.800	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.850	0.000	1.000	
33	0.000	--	--	--	--	REMOVED	--	-1.900	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.950	0.000	1.000	
34	0.000	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.050	0.000	1.000	
35	0.000	--	--	--	--	REMOVED	--	-2.100	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.150	0.000	1.000	
36	0.000	--	--	--	--	REMOVED	--	-2.200	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.250	0.000	1.000	
37	0.000	--	--	--	--	REMOVED	--	-2.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.350	0.000	1.000	
38	0.000	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.450	0.000	1.000	
39	0.000	--	--	--	--	REMOVED	--	-2.500	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.550	0.000	1.000	
40	0.000	--	--	--	--	REMOVED	--	-2.600	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.650	0.000	1.000	
41	0.000	--	--	--	--	REMOVED	--	-2.700	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.750	0.000	1.000	
42	0.000	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.850	0.000	1.000	
43	0.000	--	--	--	--	REMOVED	--	-2.900	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.950	0.000	1.000	
44	0.000	--	--	--	--	REMOVED	--	-3.000	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.050	0.000	1.000	
45	0.000	--	--	--	--	REMOVED	--	-3.100	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.150	0.000	1.000	
46	0.000	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.250	0.000	1.000	
47	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
48	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
49	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
50	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
51	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
52	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
53	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
54	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
55	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
56	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
57	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
58	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
59	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
60	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
61	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
62	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
63	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
64	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
65	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.300	0.000	1.000	
66 D	2.004	1.8737E-02	0.9500	40.08	61.75	48.02	PASSIVE	0.000	-3.250	0.000	1.000
1.000	40.08	0.000	0.000	SAL_158_160_L_0							
67 D	2.165	1.8193E-02	1.900	43.31	62.70	48.58	PASSIVE	0.000	-3.300	0.000	1.000

OPERE PROVVISIONALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	76 di 401

1.000	43.31	0.000	0.000	5AL_158_160_L_0							
68 D	2.327	1.7655E-02	2.850	46.53	63.65	49.15	PASSIVE	0.000	-3.350	0.000	1.000
1.000	46.53	0.000	0.000	5AL_158_160_L_0							
69 D	2.488	1.7123E-02	3.800	49.76	64.60	49.76	PASSIVE	0.000	-3.400	0.000	1.000
1.000	49.76	0.000	0.000	5AL_158_160_L_0							
70 D	2.649	1.6596E-02	4.750	52.99	65.55	52.99	PASSIVE	0.000	-3.450	0.000	1.000
1.000	52.99	0.000	0.000	5AL_158_160_L_0							
71 D	2.811	1.6076E-02	5.700	56.21	66.50	56.21	PASSIVE	0.000	-3.500	0.000	1.000
1.000	56.21	0.000	0.000	5AL_158_160_L_0							
72 D	2.972	1.5562E-02	6.650	59.44	67.45	59.44	PASSIVE	0.000	-3.550	0.000	1.000
1.000	59.44	0.000	0.000	5AL_158_160_L_0							
73 D	3.133	1.5055E-02	7.600	62.67	68.40	62.67	PASSIVE	0.000	-3.600	0.000	1.000
1.000	62.67	0.000	0.000	5AL_158_160_L_0							
74 D	3.295	1.4554E-02	8.550	65.89	69.35	65.89	PASSIVE	0.000	-3.650	0.000	1.000
1.000	65.89	0.000	0.000	5AL_158_160_L_0							
75 D	3.456	1.4061E-02	9.500	69.12	70.30	69.12	PASSIVE	0.000	-3.700	0.000	1.000
1.000	69.12	0.000	0.000	5AL_158_160_L_0							
76 D	3.617	1.3574E-02	10.45	72.34	71.25	72.34	PASSIVE	0.000	-3.750	0.000	1.000
1.000	72.34	0.000	0.000	5AL_158_160_L_0							
77 D	3.779	1.3095E-02	11.40	75.57	72.20	75.57	PASSIVE	0.000	-3.800	0.000	1.000
1.000	75.57	0.000	0.000	5AL_158_160_L_0							
78 D	3.940	1.2623E-02	12.35	78.80	73.15	78.80	PASSIVE	0.000	-3.850	0.000	1.000
1.000	78.80	0.000	0.000	5AL_158_160_L_0							
79 D	4.101	1.2159E-02	13.30	82.02	74.10	82.02	PASSIVE	0.000	-3.900	0.000	1.000
1.000	82.02	0.000	0.000	5AL_158_160_L_0							
80 D	4.262	1.1702E-02	14.25	85.25	75.05	85.25	PASSIVE	0.000	-3.950	0.000	1.000
1.000	85.25	0.000	0.000	5AL_158_160_L_0							
81 D	4.424	1.1253E-02	15.20	88.48	76.00	88.48	PASSIVE	0.000	-4.000	0.000	1.000
1.000	88.48	0.000	0.000	5AL_158_160_L_0							
82 D	4.525	1.0813E-02	15.65	90.00	76.45	90.00	PASSIVE	0.000	-4.050	0.5000	1.000
1.000	90.50	0.000	0.000	5AL_158_160_L_0							
83 D	4.627	1.0381E-02	16.10	91.53	76.90	91.53	PASSIVE	0.000	-4.100	1.000	1.000
1.000	92.53	0.000	0.000	5AL_158_160_L_0							
84 D	4.728	9.9567E-03	16.55	93.06	77.35	93.06	PASSIVE	0.000	-4.150	1.500	1.000
1.000	94.56	0.000	0.000	5AL_158_160_L_0							
85 D	4.829	9.5412E-03	17.00	94.59	77.80	94.59	PASSIVE	0.000	-4.200	2.000	1.000
1.000	96.59	0.000	0.000	5AL_158_160_L_0							
86 D	4.931	9.1344E-03	17.45	96.12	78.25	96.12	PASSIVE	0.000	-4.250	2.500	1.000
1.000	98.62	0.000	0.000	5AL_158_160_L_0							
87 D	5.032	8.7363E-03	17.90	97.64	78.70	97.64	PASSIVE	0.000	-4.300	3.000	1.000
1.000	100.6	0.000	0.000	5AL_158_160_L_0							
88 D	5.134	8.3470E-03	18.35	99.17	79.15	99.17	PASSIVE	0.000	-4.350	3.500	1.000
1.000	102.7	0.000	0.000	5AL_158_160_L_0							
89 D	5.235	7.9666E-03	18.80	100.7	79.60	100.7	PASSIVE	0.000	-4.400	4.000	1.000
1.000	104.7	0.000	0.000	5AL_158_160_L_0							
90 D	5.336	7.5953E-03	19.25	102.2	80.05	102.2	PASSIVE	0.000	-4.450	4.500	1.000
1.000	106.7	0.000	0.000	5AL_158_160_L_0							
91 D	5.438	7.2331E-03	19.70	103.8	80.50	103.8	PASSIVE	0.000	-4.500	5.000	1.000
1.000	108.8	0.000	0.000	5AL_158_160_L_0							
92 D	5.539	6.8801E-03	20.15	105.3	80.95	105.3	PASSIVE	0.000	-4.550	5.500	1.000
1.000	110.8	0.000	0.000	5AL_158_160_L_0							
93 D	5.641	6.5364E-03	20.60	106.8	81.40	106.8	PASSIVE	0.000	-4.600	6.000	1.000
1.000	112.8	0.000	0.000	5AL_158_160_L_0							
94 D	5.742	6.2019E-03	21.05	108.3	81.85	108.3	PASSIVE	0.000	-4.650	6.500	1.000
1.000	114.8	0.000	0.000	5AL_158_160_L_0							
95 D	5.844	5.8769E-03	21.50	109.9	82.30	109.9	PASSIVE	0.000	-4.700	7.000	1.000
1.000	116.9	0.000	0.000	5AL_158_160_L_0							
96 D	5.945	5.5613E-03	21.95	111.4	82.75	111.4	PASSIVE	0.000	-4.750	7.500	1.000
1.000	118.9	0.000	0.000	5AL_158_160_L_0							
97 D	6.046	5.2551E-03	22.40	112.9	83.20	112.9	PASSIVE	0.000	-4.800	8.000	1.000
1.000	120.9	0.000	0.000	5AL_158_160_L_0							
98 D	6.148	4.9584E-03	22.85	114.5	83.65	114.5	PASSIVE	0.000	-4.850	8.500	1.000
1.000	123.0	0.000	0.000	5AL_158_160_L_0							
99 D	6.249	4.6712E-03	23.30	116.0	84.10	116.0	PASSIVE	0.000	-4.900	9.000	1.000
1.000	125.0	0.000	0.000	5AL_158_160_L_0							
100 D	6.351	4.3935E-03	23.75	117.5	84.55	117.5	PASSIVE	0.000	-4.950	9.500	1.000
1.000	127.0	0.000	0.000	5AL_158_160_L_0							
101 D	6.452	4.1253E-03	24.20	119.0	85.00	119.0	PASSIVE	0.000	-5.000	10.00	1.000
1.000	129.0	0.000	0.000	5AL_158_160_L_0							
102 D	6.553	3.8666E-03	24.65	120.6	85.45	120.6	PASSIVE	0.000	-5.050	10.50	1.000
1.000	131.1	0.000	0.000	5AL_158_160_L_0							
103 D	6.655	3.6173E-03	25.10	122.1	85.90	122.1	PASSIVE	0.000	-5.100	11.00	1.000
1.000	133.1	0.000	0.000	5AL_158_160_L_0							
104 D	6.756	3.3775E-03	25.55	123.6	86.35	123.6	PASSIVE	0.000	-5.150	11.50	1.000
1.000	135.1	0.000	0.000	5AL_158_160_L_0							
105 D	6.858	3.1471E-03	26.00	125.2	86.80	125.2	PASSIVE	0.000	-5.200	12.00	1.000
1.000	137.2	0.000	0.000	5AL_158_160_L_0							
106 D	6.959	2.9260E-03	26.45	126.7	87.25	126.7	PASSIVE	0.000	-5.250	12.50	1.000
1.000	139.2	0.000	0.000	5AL_158_160_L_0							
107 D	7.060	2.7142E-03	26.90	128.2	87.70	128.2	PASSIVE	0.000	-5.300	13.00	1.000
1.000	141.2	0.000	0.000	5AL_158_160_L_0							

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	77 di 401

108 D	7.162	2.5115E-03	27.35	129.7	88.15	129.7	PASSIVE	0.000	-5.350	13.50	1.000
1.000	143.2	0.000	0.000	5AL_158_160_L_0							
109 D	7.263	2.3180E-03	27.80	131.3	88.60	131.3	PASSIVE	0.000	-5.400	14.00	1.000
1.000	145.3	0.000	0.000	5AL_158_160_L_0							
110 D	7.365	2.1334E-03	28.25	132.8	89.05	132.8	PASSIVE	0.000	-5.450	14.50	1.000
1.000	147.3	0.000	0.000	5AL_158_160_L_0							
111 D	7.466	1.9578E-03	28.70	134.3	89.50	134.3	PASSIVE	0.000	-5.500	15.00	1.000
1.000	149.3	0.000	0.000	5AL_158_160_L_0							
112 D	7.568	1.7910E-03	29.15	135.8	89.95	135.8	PASSIVE	0.000	-5.550	15.50	1.000
1.000	151.4	0.000	0.000	5AL_158_160_L_0							
113 D	7.669	1.6327E-03	29.60	137.4	90.40	137.4	PASSIVE	0.000	-5.600	16.00	1.000
1.000	153.4	0.000	0.000	5AL_158_160_L_0							
114 D	7.770	1.4830E-03	30.05	138.9	90.85	138.9	PASSIVE	0.000	-5.650	16.50	1.000
1.000	155.4	0.000	0.000	5AL_158_160_L_0							
115 D	7.872	1.3416E-03	30.50	140.4	91.30	140.4	PASSIVE	0.000	-5.700	17.00	1.000
1.000	157.4	0.000	0.000	5AL_158_160_L_0							
116 D	7.786	1.2084E-03	30.95	138.2	91.75	138.2	V-C	7.4657E+04	-5.750	17.50	1.000
1.000	155.7	0.000	0.000	5AL_158_160_L_0							
117 D	7.358	1.0832E-03	31.40	129.2	92.20	129.2	V-C	7.4657E+04	-5.800	18.00	1.000
1.000	147.2	0.000	0.000	5AL_158_160_L_0							
118 D	6.959	9.6575E-04	31.85	120.7	92.65	120.7	V-C	7.4657E+04	-5.850	18.50	1.000
1.000	139.2	0.000	0.000	5AL_158_160_L_0							
119 D	6.589	8.5589E-04	32.30	112.8	93.10	112.8	V-C	7.4657E+04	-5.900	19.00	1.000
1.000	131.8	0.000	0.000	5AL_158_160_L_0							
120 D	6.246	7.5341E-04	32.75	105.4	93.55	105.4	V-C	7.4657E+04	-5.950	19.50	1.000
1.000	124.9	0.000	0.000	5AL_158_160_L_0							
121 D	5.929	6.5806E-04	33.20	98.58	94.00	98.58	V-C	7.4657E+04	-6.000	20.00	1.000
1.000	118.6	0.000	0.000	5AL_158_160_L_0							
122 D	5.639	5.6963E-04	33.65	92.27	94.45	92.27	V-C	7.4657E+04	-6.050	20.50	1.000
1.000	112.8	0.000	0.000	5AL_158_160_L_0							
123 D	5.373	4.8788E-04	34.10	86.46	94.90	86.46	V-C	7.4657E+04	-6.100	21.00	1.000
1.000	107.5	0.000	0.000	5AL_158_160_L_0							
124 D	5.131	4.1255E-04	34.55	81.12	95.35	81.12	V-C	7.4657E+04	-6.150	21.50	1.000
1.000	102.6	0.000	0.000	5AL_158_160_L_0							
125 D	4.912	3.4340E-04	35.00	76.25	95.80	76.25	V-C	7.4657E+04	-6.200	22.00	1.000
1.000	98.25	0.000	0.000	5AL_158_160_L_0							
126 D	4.716	2.8017E-04	35.45	71.82	96.25	71.82	V-C	7.4657E+04	-6.250	22.50	1.000
1.000	94.32	0.000	0.000	5AL_158_160_L_0							
127 D	4.512	2.2260E-04	35.90	67.24	96.70	68.75	UL-RL	1.1945E+05	-6.300	23.00	1.000
1.000	90.24	0.000	0.000	5AL_158_160_L_0							
128 D	4.240	1.7045E-04	36.35	61.31	97.15	69.02	UL-RL	1.1945E+05	-6.350	23.50	1.000
1.000	84.81	0.000	0.000	5AL_158_160_L_0							
129 D	4.000	1.2343E-04	36.80	55.99	97.60	69.29	UL-RL	1.1945E+05	-6.400	24.00	1.000
1.000	79.99	0.000	0.000	5AL_158_160_L_0							
130 D	3.788	8.1285E-05	37.25	51.26	98.05	69.56	UL-RL	1.1945E+05	-6.450	24.50	1.000
1.000	75.76	0.000	0.000	5AL_158_160_L_0							
131 D	3.604	4.3752E-05	37.70	47.07	98.50	69.82	UL-RL	1.1945E+05	-6.500	25.00	1.000
1.000	72.07	0.000	0.000	5AL_158_160_L_0							
132 D	3.445	1.0567E-05	38.15	43.41	98.95	70.09	UL-RL	1.1945E+05	-6.550	25.50	1.000
1.000	68.91	0.000	0.000	5AL_158_160_L_0							
133 D	3.311	-1.8533E-05	38.60	40.23	99.40	70.36	UL-RL	1.1945E+05	-6.600	26.00	1.000
1.000	66.23	0.000	0.000	5AL_158_160_L_0							
134 D	3.200	-4.3805E-05	39.05	37.51	99.85	70.62	UL-RL	1.1945E+05	-6.650	26.50	1.000
1.000	64.01	0.000	0.000	5AL_158_160_L_0							
135 D	3.111	-6.5502E-05	39.50	35.21	100.3	70.89	UL-RL	1.1945E+05	-6.700	27.00	1.000
1.000	62.21	0.000	0.000	5AL_158_160_L_0							
136 D	3.041	-8.3871E-05	39.95	33.31	100.8	71.16	UL-RL	1.1945E+05	-6.750	27.50	1.000
1.000	60.81	0.000	0.000	5AL_158_160_L_0							
137 D	2.989	-9.9152E-05	40.40	31.78	101.2	71.42	UL-RL	1.1945E+05	-6.800	28.00	1.000
1.000	59.78	0.000	0.000	5AL_158_160_L_0							
138 D	2.955	-1.1158E-04	40.85	30.59	101.7	71.69	UL-RL	1.1945E+05	-6.850	28.50	1.000
1.000	59.10	0.000	0.000	5AL_158_160_L_0							
139 D	2.936	-1.2137E-04	41.30	29.72	102.1	71.96	UL-RL	1.1945E+05	-6.900	29.00	1.000
1.000	58.72	0.000	0.000	5AL_158_160_L_0							
140 D	2.932	-1.2875E-04	41.75	29.13	102.6	72.23	UL-RL	1.1945E+05	-6.950	29.50	1.000
1.000	58.63	0.000	0.000	5AL_158_160_L_0							
141 D	2.940	-1.3393E-04	42.20	28.81	103.0	72.49	UL-RL	1.1945E+05	-7.000	30.00	1.000
1.000	58.81	0.000	0.000	5AL_158_160_L_0							
142 D	2.961	-1.3710E-04	42.65	28.72	103.5	72.76	UL-RL	1.1945E+05	-7.050	30.50	1.000
1.000	59.22	0.000	0.000	5AL_158_160_L_0							
143 D	2.993	-1.3845E-04	43.10	28.86	103.9	73.03	UL-RL	1.1945E+05	-7.100	31.00	1.000
1.000	59.86	0.000	0.000	5AL_158_160_L_0							
144 D	3.034	-1.3817E-04	43.55	29.18	104.4	73.29	UL-RL	1.1945E+05	-7.150	31.50	1.000
1.000	60.68	0.000	0.000	5AL_158_160_L_0							
145 D	3.084	-1.3643E-04	44.00	29.68	104.8	73.56	UL-RL	1.1945E+05	-7.200	32.00	1.000
1.000	61.68	0.000	0.000	5AL_158_160_L_0							
146 D	3.142	-1.3338E-04	44.45	30.34	105.3	73.83	UL-RL	1.1945E+05	-7.250	32.50	1.000
1.000	62.84	0.000	0.000	5AL_158_160_L_0							
147 D	3.207	-1.2919E-04	44.90	31.13	105.7	74.09	UL-RL	1.1945E+05	-7.300	33.00	1.000
1.000	64.13	0.000	0.000	5AL_158_160_L_0							
148 D	3.277	-1.2399E-04	45.35	32.05	106.2	74.36	UL-RL	1.1945E+05	-7.350	33.50	1.000

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	78 di 401

1.000	65.55	0.000	0.000	SAL_158_160_L_0							
149 D	3.353	-1.1792E-04	45.80	33.06	106.6	74.63	UL-RL	1.1945E+05	-7.400	34.00	1.000
1.000	67.06	0.000	0.000	SAL_158_160_L_0							
150 D	3.433	-1.1110E-04	46.25	34.17	107.1	74.90	UL-RL	1.1945E+05	-7.450	34.50	1.000
1.000	68.67	0.000	0.000	SAL_158_160_L_0							
151 D	3.517	-1.0366E-04	46.70	35.35	107.5	75.16	UL-RL	1.1945E+05	-7.500	35.00	1.000
1.000	70.35	0.000	0.000	SAL_158_160_L_0							
152 D	3.604	-9.5695E-05	47.15	36.59	108.0	75.43	UL-RL	1.1945E+05	-7.550	35.50	1.000
1.000	72.09	0.000	0.000	SAL_158_160_L_0							
153 D	3.694	-8.7309E-05	47.60	37.88	108.4	75.70	UL-RL	1.1945E+05	-7.600	36.00	1.000
1.000	73.88	0.000	0.000	SAL_158_160_L_0							
154 D	3.786	-7.8593E-05	48.05	39.21	108.9	75.96	UL-RL	1.1945E+05	-7.650	36.50	1.000
1.000	75.71	0.000	0.000	SAL_158_160_L_0							
155 D	3.879	-6.9631E-05	48.50	40.57	109.3	76.23	UL-RL	1.1945E+05	-7.700	37.00	1.000
1.000	77.57	0.000	0.000	SAL_158_160_L_0							
156 D	3.973	-6.0498E-05	48.95	41.95	109.8	76.50	UL-RL	1.1945E+05	-7.750	37.50	1.000
1.000	79.45	0.000	0.000	SAL_158_160_L_0							
157 D	4.067	-5.1264E-05	49.40	43.34	110.2	76.76	UL-RL	1.1945E+05	-7.800	38.00	1.000
1.000	81.34	0.000	0.000	SAL_158_160_L_0							
158 D	4.162	-4.1990E-05	49.85	44.74	110.7	77.03	UL-RL	1.1945E+05	-7.850	38.50	1.000
1.000	83.24	0.000	0.000	SAL_158_160_L_0							
159 D	4.257	-3.2733E-05	50.30	46.13	111.1	77.30	UL-RL	1.1945E+05	-7.900	39.00	1.000
1.000	85.13	0.000	0.000	SAL_158_160_L_0							
160 D	4.351	-2.3541E-05	50.75	47.52	111.6	77.56	UL-RL	1.1945E+05	-7.950	39.50	1.000
1.000	87.02	0.000	0.000	SAL_158_160_L_0							
161 D	4.445	-1.4458E-05	51.20	48.89	112.0	77.83	UL-RL	1.1945E+05	-8.000	40.00	1.000
1.000	88.89	0.000	0.000	SAL_158_160_L_0							
162 D	4.537	-5.5218E-06	51.65	50.25	112.5	78.10	UL-RL	1.1945E+05	-8.050	40.50	1.000
1.000	90.75	0.000	0.000	SAL_158_160_L_0							
163 D	4.629	3.2342E-06	52.10	51.58	112.9	78.37	UL-RL	1.1945E+05	-8.100	41.00	1.000
1.000	92.58	0.000	0.000	SAL_158_160_L_0							
164 D	4.719	1.1782E-05	52.55	52.89	113.4	78.63	UL-RL	1.1945E+05	-8.150	41.50	1.000
1.000	94.39	0.000	0.000	SAL_158_160_L_0							
165 D	4.808	2.0099E-05	53.00	54.17	113.8	78.90	UL-RL	1.1945E+05	-8.200	42.00	1.000
1.000	96.17	0.000	0.000	SAL_158_160_L_0							
166 D	4.896	2.8165E-05	53.45	55.42	114.3	79.17	UL-RL	1.1945E+05	-8.250	42.50	1.000
1.000	97.92	0.000	0.000	SAL_158_160_L_0							
167 D	4.982	3.5964E-05	53.90	56.64	114.7	79.43	UL-RL	1.1945E+05	-8.300	43.00	1.000
1.000	99.64	0.000	0.000	SAL_158_160_L_0							
168 D	5.066	4.3486E-05	54.35	57.82	115.2	79.70	UL-RL	1.1945E+05	-8.350	43.50	1.000
1.000	101.3	0.000	0.000	SAL_158_160_L_0							
169 D	5.149	5.0721E-05	54.80	58.97	115.6	79.97	UL-RL	1.1945E+05	-8.400	44.00	1.000
1.000	103.0	0.000	0.000	SAL_158_160_L_0							
170 D	5.229	5.7665E-05	55.25	60.09	116.1	80.23	UL-RL	1.1945E+05	-8.450	44.50	1.000
1.000	104.6	0.000	0.000	SAL_158_160_L_0							
171 D	5.308	6.4314E-05	55.70	61.17	116.5	80.50	UL-RL	1.1945E+05	-8.500	45.00	1.000
1.000	106.2	0.000	0.000	SAL_158_160_L_0							
172 D	5.386	7.0668E-05	56.15	62.21	117.0	80.77	UL-RL	1.1945E+05	-8.550	45.50	1.000
1.000	107.7	0.000	0.000	SAL_158_160_L_0							
173 D	5.461	7.6730E-05	56.60	63.22	117.4	81.04	UL-RL	1.1945E+05	-8.600	46.00	1.000
1.000	109.2	0.000	0.000	SAL_158_160_L_0							
174 D	5.535	8.2504E-05	57.05	64.19	117.9	81.30	UL-RL	1.1945E+05	-8.650	46.50	1.000
1.000	110.7	0.000	0.000	SAL_158_160_L_0							
175 D	5.607	8.7996E-05	57.50	65.14	118.3	81.57	UL-RL	1.1945E+05	-8.700	47.00	1.000
1.000	112.1	0.000	0.000	SAL_158_160_L_0							
176 D	5.677	9.3214E-05	57.95	66.04	118.8	81.84	UL-RL	1.1945E+05	-8.750	47.50	1.000
1.000	113.5	0.000	0.000	SAL_158_160_L_0							
177 D	5.746	9.8166E-05	58.40	66.92	119.2	82.10	UL-RL	1.1945E+05	-8.800	48.00	1.000
1.000	114.9	0.000	0.000	SAL_158_160_L_0							
178 D	5.813	1.0286E-04	58.85	67.76	119.7	82.37	UL-RL	1.1945E+05	-8.850	48.50	1.000
1.000	116.3	0.000	0.000	SAL_158_160_L_0							
179 D	5.879	1.0732E-04	59.30	68.58	120.1	82.64	UL-RL	1.1945E+05	-8.900	49.00	1.000
1.000	117.6	0.000	0.000	SAL_158_160_L_0							
180 D	5.943	1.1154E-04	59.75	69.37	120.6	82.90	UL-RL	1.1945E+05	-8.950	49.50	1.000
1.000	118.9	0.000	0.000	SAL_158_160_L_0							
181 D	6.007	1.1555E-04	60.20	70.13	121.0	83.17	UL-RL	1.1945E+05	-9.000	50.00	1.000
1.000	120.1	0.000	0.000	SAL_158_160_L_0							
182 D	6.068	1.1935E-04	60.65	70.87	121.5	83.44	UL-RL	1.1945E+05	-9.050	50.50	1.000
1.000	121.4	0.000	0.000	SAL_158_160_L_0							
183 D	6.129	1.2296E-04	61.10	71.58	121.9	83.71	UL-RL	1.1945E+05	-9.100	51.00	1.000
1.000	122.6	0.000	0.000	SAL_158_160_L_0							
184 D	6.189	1.2639E-04	61.55	72.28	122.4	83.97	UL-RL	1.1945E+05	-9.150	51.50	1.000
1.000	123.8	0.000	0.000	SAL_158_160_L_0							
185 D	6.247	1.2967E-04	62.00	72.95	122.8	84.24	UL-RL	1.1945E+05	-9.200	52.00	1.000
1.000	124.9	0.000	0.000	SAL_158_160_L_0							
186 D	6.305	1.3279E-04	62.45	73.60	123.3	84.51	UL-RL	1.1945E+05	-9.250	52.50	1.000
1.000	126.1	0.000	0.000	SAL_158_160_L_0							
187 D	6.362	1.3579E-04	62.90	74.24	123.7	84.77	UL-RL	1.1945E+05	-9.300	53.00	1.000
1.000	127.2	0.000	0.000	SAL_158_160_L_0							
188 D	6.419	1.3866E-04	63.35	74.87	124.2	85.04	UL-RL	1.1945E+05	-9.350	53.50	1.000
1.000	128.4	0.000	0.000	SAL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	79 di 401

RELAZIONE DI CALCOLO

189 D	6.474	1.4143E-04	63.80	75.48	124.6	85.31	UL-RL	1.1945E+05	-9.400	54.00	1.000
1.000	129.5	0.000	0.000	5AL_158_160_L_0							
190 D	6.529	1.4411E-04	64.25	76.09	125.1	85.57	UL-RL	1.1945E+05	-9.450	54.50	1.000
1.000	130.6	0.000	0.000	5AL_158_160_L_0							
191 D	6.584	1.4670E-04	64.70	76.68	125.5	85.84	UL-RL	1.1945E+05	-9.500	55.00	1.000
1.000	131.7	0.000	0.000	5AL_158_160_L_0							
192 D	6.638	1.4924E-04	65.15	77.26	126.0	86.11	UL-RL	1.1945E+05	-9.550	55.50	1.000
1.000	132.8	0.000	0.000	5AL_158_160_L_0							
193 D	6.692	1.5171E-04	65.60	77.84	126.4	86.38	UL-RL	1.1945E+05	-9.600	56.00	1.000
1.000	133.8	0.000	0.000	5AL_158_160_L_0							
194 D	6.746	1.5414E-04	66.05	78.41	126.9	86.64	UL-RL	1.1945E+05	-9.650	56.50	1.000
1.000	134.9	0.000	0.000	5AL_158_160_L_0							
195 D	6.799	1.5654E-04	66.50	78.98	127.3	86.91	UL-RL	1.1945E+05	-9.700	57.00	1.000
1.000	136.0	0.000	0.000	5AL_158_160_L_0							
196 D	6.852	1.5891E-04	66.95	79.54	127.8	87.18	UL-RL	1.1945E+05	-9.750	57.50	1.000
1.000	137.0	0.000	0.000	5AL_158_160_L_0							
197 D	6.905	1.6126E-04	67.40	80.10	128.2	87.44	UL-RL	1.1945E+05	-9.800	58.00	1.000
1.000	138.1	0.000	0.000	5AL_158_160_L_0							
198 D	6.958	1.6360E-04	67.85	80.66	128.7	87.71	UL-RL	1.1945E+05	-9.850	58.50	1.000
1.000	139.2	0.000	0.000	5AL_158_160_L_0							
199 D	7.011	1.6594E-04	68.30	81.22	129.1	87.98	UL-RL	1.1945E+05	-9.900	59.00	1.000
1.000	140.2	0.000	0.000	5AL_158_160_L_0							
200 D	7.063	1.6826E-04	68.75	81.78	129.6	88.24	UL-RL	1.1945E+05	-9.950	59.50	1.000
1.000	141.3	0.000	0.000	5AL_158_160_L_0							
201 D	3.557	1.7059E-04	69.20	82.34	130.0	88.51	UL-RL	1.1945E+05	-10.00	60.00	1.000
1.000	142.3	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.Nominal_63
Exe Time :21 June 2016 11:57:44

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement_33
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.25996	-0.25996	3.83068E-10	1.29980E-02
2	0.79916	-0.79916	-1.29980E-02	5.29561E-02
3	1.3577	-1.3577	-5.29561E-02	0.12084
4	1.9354	-1.9354	-0.12084	0.21761
5	2.5325	-2.5325	-0.21761	0.34423
6	3.1488	-3.1488	-0.34423	0.50168
7	3.7845	-3.7845	-0.50168	0.69090
8	4.4394	-4.4394	-0.69090	0.91287
9	5.1136	-5.1136	-0.91287	1.1685
10	5.8071	-5.8071	-1.1685	1.4589
11	6.5198	-6.5198	-1.4589	1.7849
12	7.2519	-7.2519	-1.7849	2.1475
13	8.0032	-8.0032	-2.1475	2.5476
14	8.7738	-8.7738	-2.5476	2.9863
15	9.5637	-9.5637	-2.9863	3.4645
16	10.373	-10.373	-3.4645	3.9832
17	11.201	-11.201	-3.9832	4.5432
18	12.049	-12.049	-4.5432	5.1457
19	12.916	-12.916	-5.1457	5.7915
20	13.803	-13.803	-5.7915	6.4816
21	14.708	-14.708	-6.4816	7.2170
22	15.633	-15.633	-7.2170	7.9987
23	16.577	-16.577	-7.9987	8.8276
24	17.541	-17.541	-8.8276	9.7046
25	18.524	-18.524	-9.7046	10.631
26	19.526	-19.526	-10.631	11.607
27	20.547	-20.547	-11.607	12.634
28	21.587	-21.587	-12.634	13.714
29	22.647	-22.647	-13.714	14.846
30	23.727	-23.727	-14.846	16.032
31	24.825	-24.825	-16.032	17.274
32	25.943	-25.943	-17.274	18.571
33	27.080	-27.080	-18.571	19.925

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	80 di 401

34	28.236	-28.236	-19.925	21.337
35	29.412	-29.412	-21.337	22.807
36	30.607	-30.607	-22.807	24.338
37	31.821	-31.821	-24.338	25.929
38	33.054	-33.054	-25.929	27.581
39	34.307	-34.307	-27.581	29.297
40	35.579	-35.579	-29.297	31.076
41	36.870	-36.870	-31.076	32.919
42	38.181	-38.181	-32.919	34.828
43	39.511	-39.511	-34.828	36.804
44	40.860	-40.860	-36.804	38.847
45	42.229	-42.229	-38.847	40.958
46	43.616	-43.616	-40.958	43.139
47	45.023	-45.023	-43.139	45.390
48	46.450	-46.450	-45.390	47.713
49	47.895	-47.895	-47.713	50.107
50	49.360	-49.360	-50.107	52.575
51	50.844	-50.844	-52.575	55.118
52	52.348	-52.348	-55.118	57.735
53	53.870	-53.870	-57.735	60.429
54	55.412	-55.412	-60.429	63.199
55	56.974	-56.974	-63.199	66.048
56	58.554	-58.554	-66.048	68.976
57	60.154	-60.154	-68.976	71.983
58	61.773	-61.773	-71.983	75.072
59	63.412	-63.412	-75.072	78.242
60	65.070	-65.070	-78.242	81.496
61	66.747	-66.747	-81.496	84.833
62	68.443	-68.443	-84.833	88.255
63	70.159	-70.159	-88.255	91.763
64	71.893	-71.893	-91.763	95.358
65	73.648	-73.648	-95.358	99.040
66	73.417	-73.417	-99.040	102.71
67	73.044	-73.044	-102.71	106.36
68	72.529	-72.529	-106.36	109.99
69	71.873	-71.873	-109.99	113.58
70	71.074	-71.074	-113.58	117.14
71	70.133	-70.133	-117.14	120.64
72	69.050	-69.050	-120.64	124.10
73	67.825	-67.825	-124.10	127.49
74	66.458	-66.458	-127.49	130.81
75	64.950	-64.950	-130.81	134.06
76	63.299	-63.299	-134.06	137.22
77	61.506	-61.506	-137.22	140.30
78	59.571	-59.571	-140.30	143.28
79	57.494	-57.494	-143.28	146.15
80	55.275	-55.275	-146.15	148.92
81	52.914	-52.914	-148.92	151.56
82	50.485	-50.485	-151.56	154.09
83	47.990	-47.990	-154.09	156.48
84	45.427	-45.427	-156.48	158.76
85	42.797	-42.797	-158.76	160.90
86	40.099	-40.099	-160.90	162.90
87	37.334	-37.334	-162.90	164.77
88	34.502	-34.502	-164.77	166.49
89	31.603	-31.603	-166.49	168.07
90	28.637	-28.637	-168.07	169.50
91	25.603	-25.603	-169.50	170.78
92	22.502	-22.502	-170.78	171.91
93	19.333	-19.333	-171.91	172.88
94	16.098	-16.098	-172.88	173.68
95	12.795	-12.795	-173.68	174.32
96	9.4246	-9.4246	-174.32	174.79
97	5.9872	-5.9872	-174.79	175.09
98	2.4824	-2.4824	-175.09	175.22
99	-1.0896	1.0896	-175.22	175.16
100	-4.7289	4.7289	-175.16	174.93
101	-8.4354	8.4354	-174.93	174.50
102	-12.209	12.209	-174.50	173.89
103	-16.050	16.050	-173.89	173.09
104	-19.959	19.959	-173.09	172.09
105	-23.934	23.934	-172.09	170.90
106	-27.977	27.977	-170.90	169.50
107	-32.088	32.088	-169.50	167.89
108	-36.265	36.265	-167.89	166.08
109	-40.510	40.510	-166.08	164.05
110	-44.822	44.822	-164.05	161.81
111	-49.201	49.201	-161.81	159.35
112	-53.648	53.648	-159.35	156.67
113	-58.162	58.162	-156.67	153.76
114	-62.743	62.743	-153.76	150.62



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	B1 di 401

RELAZIONE DI CALCOLO

115	-67.391	67.391	-150.62	147.26
116	-71.920	71.920	-147.26	143.66
117	-75.986	75.986	-143.66	139.86
118	-79.619	79.619	-139.86	135.88
119	-82.848	82.848	-135.88	131.74
120	-85.700	85.700	-131.74	127.45
121	-88.201	88.201	-127.45	123.04
122	-90.377	90.377	-123.04	118.52
123	-92.253	92.253	-118.52	113.91
124	-93.854	93.854	-113.91	109.22
125	-95.202	95.202	-109.22	104.46
126	-96.319	96.319	-104.46	99.641
127	-97.198	97.198	-99.641	94.781
128	-97.771	97.771	-94.781	89.893
129	-97.873	97.873	-89.893	84.999
130	-97.413	97.413	-84.999	80.128
131	-96.446	96.446	-80.128	75.306
132	-95.028	95.028	-75.306	70.555
133	-93.209	93.209	-70.555	65.894
134	-91.036	91.036	-65.894	61.342
135	-88.581	88.581	-61.342	56.913
136	-85.894	85.894	-56.913	52.618
137	-83.010	83.010	-52.618	48.468
138	-79.962	79.962	-48.468	44.470
139	-76.780	76.780	-44.470	40.631
140	-73.493	73.493	-40.631	36.956
141	-70.125	70.125	-36.956	33.450
142	-66.701	66.701	-33.450	30.115
143	-63.242	63.242	-30.115	26.953
144	-59.781	59.781	-26.953	23.964
145	-56.335	56.335	-23.964	21.147
146	-52.918	52.918	-21.147	18.501
147	-49.543	49.543	-18.501	16.024
148	-46.221	46.221	-16.024	13.713
149	-42.960	42.960	-13.713	11.565
150	-39.773	39.773	-11.565	9.5760
151	-36.669	36.669	-9.5760	7.7425
152	-33.673	33.673	-7.7425	6.0588
153	-30.789	30.789	-6.0588	4.5194
154	-28.022	28.022	-4.5194	3.1183
155	-25.376	25.376	-3.1183	1.8495
156	-22.853	22.853	-1.8495	0.70678
157	-20.455	20.455	-0.70678	-0.31595
158	-18.181	18.181	0.31595	-1.2250
159	-16.031	16.031	1.2250	-2.0265
160	-14.005	14.005	2.0265	-2.7268
161	-12.101	12.101	2.7268	-3.3318
162	-10.317	10.317	3.3318	-3.8477
163	-8.6511	8.6511	3.8477	-4.2802
164	-7.1001	7.1001	4.2802	-4.6352
165	-5.6609	5.6609	4.6352	-4.9183
166	-4.3301	4.3301	4.9183	-5.1348
167	-3.1044	3.1044	5.1348	-5.2900
168	-1.9798	1.9798	5.2900	-5.3890
169	-0.95265	0.95265	5.3890	-5.4366
170	-1.89827E-02	1.89827E-02	5.4366	-5.4376
171	0.82512	-0.82512	5.4376	-5.3963
172	1.5836	-1.5836	5.3963	-5.3172
173	2.2604	-2.2604	5.3172	-5.2041
174	2.8593	-2.8593	5.2041	-5.0612
175	3.3841	-3.3841	5.0612	-4.8920
176	3.8385	-3.8385	4.8920	-4.7000
177	4.2260	-4.2260	4.7000	-4.4887
178	4.5500	-4.5500	4.4887	-4.2612
179	4.8138	-4.8138	4.2612	-4.0205
180	5.0205	-5.0205	4.0205	-3.7695
181	5.1729	-5.1729	3.7695	-3.5109
182	5.2739	-5.2739	3.5109	-3.2472
183	5.3259	-5.3259	3.2472	-2.9809
184	5.3313	-5.3313	2.9809	-2.7143
185	5.2924	-5.2924	2.7143	-2.4497
186	5.2109	-5.2109	2.4497	-2.1891
187	5.0888	-5.0888	2.1891	-1.9347
188	4.9276	-4.9276	1.9347	-1.6883
189	4.7288	-4.7288	1.6883	-1.4519
190	4.4935	-4.4935	1.4519	-1.2272
191	4.2228	-4.2228	1.2272	-1.0161
192	3.9177	-3.9177	1.0161	-0.82018
193	3.5788	-3.5788	0.82018	-0.64124
194	3.2067	-3.2067	0.64124	-0.48091
195	2.8020	-2.8020	0.48091	-0.34081



LINEA PESCARA - BARI
 RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:
 Lotto 1: Ripalta - Lesina
 PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VIC100 004	A	82 di 401

RELAZIONE DI CALCOLO

196	2.3650	-2.3650	0.34081	-0.22256
197	1.8959	-1.8959	0.22256	-0.12776
198	1.3950	-1.3950	0.12776	-5.80059E-02
199	0.86229	-0.86229	5.80059E-02	-1.48916E-02
200	0.29795	-0.29795	1.48916E-02	-1.42755E-12

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.Nominal_63
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FINAL INCREMENTAL ANALYSIS

SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	2
3	CONVERGENCE :YES	9

END OF PROCESS FOR PROBLEM

paratia_mario
 NONLINEAR SOLUTION CPU TIME 0.06 [sec]
 DATABASE CREATION CPU TIME..... 0.23 [sec]

Design Assumption : SLE (Rara) - File di Paratie - File di output (.out)

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SLERara_896
 Exe Time :21 June 2016 11:57:45

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*****
*
* PARATIE PLUS Non-Linear Spring Engine
*
* AN ELASTOPLASTIC FINITE ELEMENT PROGRAM
* FOR FLEXIBLE EARTH-RETAINING STRUCTURES
*
* Written by Ce.A.S. s.r.l. (ITALY)
* with the scientific supervision of
* Roberto Nova - full professor SOIL MECHANICS
* at Politecnico di Milano (ITALY)
*
*****
*
* RELEASE 2016 *Build date: Feb 29, 2016*
*
*
* Ce.A.S. S.R.L CENTRO DI ANALISI STRUTTURALE
* VIALE GIUSTINIANO 10
* 20129 M I L A N O (ITALIA)
* TEL. +39 02 2020221 (+39 035 23 67 19)
* FAX +39 02 29512533 (+39 035 42285 49)
* email bruno.beccici@ceas.it
* Web Page www.ceas.it
*****

```

JOB : paratia_mario.BaseDesignSection_28.SLERara_896

STARTING
 ACCEPTED <FILE,GENW >
 ACCEPTED <FILE,PLOTTER,BINARY >
 ACCEPTED <SOLVE TOTAL_STRESS >



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100.004	A	83 di 401

RELAZIONE DI CALCOLO

ACCEPTED <PARAM ITEMAX 40 >

```

*****
*
* WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED
* BY THE PROGRAM.
*
*****

```

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SLERara_896
Exe Time :21 June 2016 11:57:45

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

paratia_mario

```

NO. OF NODAL POINTS (NUMNP) ..... 201
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 402
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 3
NO. OF SOLUTION STEPS (NSTE)..... 3
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 47
NO. OF LONG NAMES (LASTNAME) ..... 13
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF . 0

```

IDOFA (01) = 2 Y-DISPL.F
IDOFA (02) = 4 X-ROT. F

RELEVANT ITEMS UNITS

```

STRESSES                kPa
Y-DISPLACEMENTS        m
ROTATIONS                RADIANS
BEAM AND SLAB MOMENTS   kN*m/m
BEAM SHEAR FORCES       kN/m
ANCHOR FORCES           kN/m
AXIAL FORCES IN TRUSSES kN/m
AXIAL FORCES SPRINGS    kN/m
Y-REACTIONS             kN/m
X-MOMENT REACTIONS      kN*m/m
ETC.

```

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SLERara_896
Exe Time :21 June 2016 11:57:45

PREPROCESSOR DATA

NO. OF COMMANDS 47

```

1 : UNIT m kN
2 : TITLE paratia_mario
3 : DELTA 0.05
4 : option param itemax 40
5 : WALL LeftWall_32 0 -10 0 1
6 : SOIL 0_L LeftWall_32 -10 0 1 0
7 : SOIL 0_R LeftWall_32 -10 0 2 180

```



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	84 di 401

RELAZIONE DI CALCOLO

```

8 : LDATA 5AL_158_160_L_0 0 LeftWall_32
9 : ATREST 0.5933 0.5 1
10 : WEIGHT 19 9 10
11 : PERMEABILITY 1E-08
12 : RESISTANCE 10 25
13 : YOUNG 2.5E+05 4E+05
14 : ENDL
15 : MATERIAL S355_114 2.1E+08
16 : MATERIAL C3240_106 3.335E+07
17 : BEAM WallElement_33 LeftWall_32 -10 0 S355_114 0.1381 00 00
18 : STEP Stage1_31
19 : CHANGE 5AL_158_160_L_0 U-FRICT=25 LeftWall_32
20 : CHANGE 5AL_158_160_L_0 D-FRICT=25 LeftWall_32
21 : CHANGE 5AL_158_160_L_0 U-KA=0.406 LeftWall_32
22 : CHANGE 5AL_158_160_L_0 U-KP=3.396 LeftWall_32
23 : CHANGE 5AL_158_160_L_0 D-KA=0.406 LeftWall_32
24 : CHANGE 5AL_158_160_L_0 D-KP=3.396 LeftWall_32
25 : CHANGE 5AL_158_160_L_0 U-COHE=10 LeftWall_32
26 : CHANGE 5AL_158_160_L_0 D-COHE=10 LeftWall_32
27 : SETWALL LeftWall_32
28 : GEOM 0 0
29 : WATER -4 0 -10 0 0
30 : ENDSTEP
31 : STEP Stage2_168
32 : CHANGE 5AL_158_160_L_0 D-FRICT=25 LeftWall_32
33 : CHANGE 5AL_158_160_L_0 D-COHE=10 LeftWall_32
34 : SETWALL LeftWall_32
35 : GEOM 0 0
36 : SURCHARGE 57 0 0 0
37 : WATER -4 0 -10 0 0
38 : ADD WallElement_33
39 : ENDSTEP
40 : STEP Stage3_6035
41 : CHANGE 5AL_158_160_L_0 D-FRICT=25 LeftWall_32
42 : CHANGE 5AL_158_160_L_0 D-COHE=10 LeftWall_32
43 : SETWALL LeftWall_32
44 : GEOM 0 -3.2
45 : SURCHARGE 57 0 0 0
46 : WATER -4 0 -10 0 0
47 : ENDSTEP

```

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SLERara_896
 Exe Time :21 June 2016 11:57:45

N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD /
1	0.0000	0.0000 /	2	0.0000	-5.00000E-02 /	3	0.0000	-0.10000 /
5	0.0000	-0.20000 /	6	0.0000	-0.25000 /	7	0.0000	-0.30000 /
9	0.0000	-0.40000 /	10	0.0000	-0.45000 /	11	0.0000	-0.50000 /
13	0.0000	-0.60000 /	14	0.0000	-0.65000 /	15	0.0000	-0.70000 /
17	0.0000	-0.80000 /	18	0.0000	-0.85000 /	19	0.0000	-0.90000 /
21	0.0000	-1.0000 /	22	0.0000	-1.0500 /	23	0.0000	-1.1000 /
25	0.0000	-1.2000 /	26	0.0000	-1.2500 /	27	0.0000	-1.3000 /
29	0.0000	-1.4000 /	30	0.0000	-1.4500 /	31	0.0000	-1.5000 /
33	0.0000	-1.6000 /	34	0.0000	-1.6500 /	35	0.0000	-1.7000 /
37	0.0000	-1.8000 /	38	0.0000	-1.8500 /	39	0.0000	-1.9000 /
41	0.0000	-2.0000 /	42	0.0000	-2.0500 /	43	0.0000	-2.1000 /
45	0.0000	-2.2000 /	46	0.0000	-2.2500 /	47	0.0000	-2.3000 /
49	0.0000	-2.4000 /	50	0.0000	-2.4500 /	51	0.0000	-2.5000 /
53	0.0000	-2.6000 /	54	0.0000	-2.6500 /	55	0.0000	-2.7000 /
57	0.0000	-2.8000 /	58	0.0000	-2.8500 /	59	0.0000	-2.9000 /
61	0.0000	-3.0000 /	62	0.0000	-3.0500 /	63	0.0000	-3.1000 /
65	0.0000	-3.2000 /	66	0.0000	-3.2500 /	67	0.0000	-3.3000 /
69	0.0000	-3.4000 /	70	0.0000	-3.4500 /	71	0.0000	-3.5000 /
73	0.0000	-3.6000 /	74	0.0000	-3.6500 /	75	0.0000	-3.7000 /
77	0.0000	-3.8000 /	78	0.0000	-3.8500 /	79	0.0000	-3.9000 /
81	0.0000	-4.0000 /	82	0.0000	-4.0500 /	83	0.0000	-4.1000 /
85	0.0000	-4.2000 /	86	0.0000	-4.2500 /	87	0.0000	-4.3000 /
89	0.0000	-4.4000 /	90	0.0000	-4.4500 /	91	0.0000	-4.5000 /
93	0.0000	-4.6000 /	94	0.0000	-4.6500 /	95	0.0000	-4.7000 /
97	0.0000	-4.8000 /	98	0.0000	-4.8500 /	99	0.0000	-4.9000 /
101	0.0000	-5.0000 /	102	0.0000	-5.0500 /	103	0.0000	-5.1000 /
105	0.0000	-5.2000 /	106	0.0000	-5.2500 /	107	0.0000	-5.3000 /
						108	0.0000	-5.3500 /



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	86 di 401

RELAZIONE DI CALCOLO

22	22	1	0.5000E-01	0.000	0.000	0.000	1.000
23	23	1	0.5000E-01	0.000	0.000	0.000	1.000
24	24	1	0.5000E-01	0.000	0.000	0.000	1.000
25	25	1	0.5000E-01	0.000	0.000	0.000	1.000
26	26	1	0.5000E-01	0.000	0.000	0.000	1.000
27	27	1	0.5000E-01	0.000	0.000	0.000	1.000
28	28	1	0.5000E-01	0.000	0.000	0.000	1.000
29	29	1	0.5000E-01	0.000	0.000	0.000	1.000
30	30	1	0.5000E-01	0.000	0.000	0.000	1.000
31	31	1	0.5000E-01	0.000	0.000	0.000	1.000
32	32	1	0.5000E-01	0.000	0.000	0.000	1.000
33	33	1	0.5000E-01	0.000	0.000	0.000	1.000
34	34	1	0.5000E-01	0.000	0.000	0.000	1.000
35	35	1	0.5000E-01	0.000	0.000	0.000	1.000
36	36	1	0.5000E-01	0.000	0.000	0.000	1.000
37	37	1	0.5000E-01	0.000	0.000	0.000	1.000
38	38	1	0.5000E-01	0.000	0.000	0.000	1.000
39	39	1	0.5000E-01	0.000	0.000	0.000	1.000
40	40	1	0.5000E-01	0.000	0.000	0.000	1.000
41	41	1	0.5000E-01	0.000	0.000	0.000	1.000
42	42	1	0.5000E-01	0.000	0.000	0.000	1.000
43	43	1	0.5000E-01	0.000	0.000	0.000	1.000
44	44	1	0.5000E-01	0.000	0.000	0.000	1.000
45	45	1	0.5000E-01	0.000	0.000	0.000	1.000
46	46	1	0.5000E-01	0.000	0.000	0.000	1.000
47	47	1	0.5000E-01	0.000	0.000	0.000	1.000
48	48	1	0.5000E-01	0.000	0.000	0.000	1.000
49	49	1	0.5000E-01	0.000	0.000	0.000	1.000
50	50	1	0.5000E-01	0.000	0.000	0.000	1.000
51	51	1	0.5000E-01	0.000	0.000	0.000	1.000
52	52	1	0.5000E-01	0.000	0.000	0.000	1.000
53	53	1	0.5000E-01	0.000	0.000	0.000	1.000
54	54	1	0.5000E-01	0.000	0.000	0.000	1.000
55	55	1	0.5000E-01	0.000	0.000	0.000	1.000
56	56	1	0.5000E-01	0.000	0.000	0.000	1.000
57	57	1	0.5000E-01	0.000	0.000	0.000	1.000
58	58	1	0.5000E-01	0.000	0.000	0.000	1.000
59	59	1	0.5000E-01	0.000	0.000	0.000	1.000
60	60	1	0.5000E-01	0.000	0.000	0.000	1.000
61	61	1	0.5000E-01	0.000	0.000	0.000	1.000
62	62	1	0.5000E-01	0.000	0.000	0.000	1.000
63	63	1	0.5000E-01	0.000	0.000	0.000	1.000
64	64	1	0.5000E-01	0.000	0.000	0.000	1.000
65	65	1	0.5000E-01	0.000	0.000	0.000	1.000
66	66	1	0.5000E-01	0.000	0.000	0.000	1.000
67	67	1	0.5000E-01	0.000	0.000	0.000	1.000
68	68	1	0.5000E-01	0.000	0.000	0.000	1.000
69	69	1	0.5000E-01	0.000	0.000	0.000	1.000
70	70	1	0.5000E-01	0.000	0.000	0.000	1.000
71	71	1	0.5000E-01	0.000	0.000	0.000	1.000
72	72	1	0.5000E-01	0.000	0.000	0.000	1.000
73	73	1	0.5000E-01	0.000	0.000	0.000	1.000
74	74	1	0.5000E-01	0.000	0.000	0.000	1.000
75	75	1	0.5000E-01	0.000	0.000	0.000	1.000
76	76	1	0.5000E-01	0.000	0.000	0.000	1.000
77	77	1	0.5000E-01	0.000	0.000	0.000	1.000
78	78	1	0.5000E-01	0.000	0.000	0.000	1.000
79	79	1	0.5000E-01	0.000	0.000	0.000	1.000
80	80	1	0.5000E-01	0.000	0.000	0.000	1.000
81	81	1	0.5000E-01	0.000	0.000	0.000	1.000
82	82	1	0.5000E-01	0.000	0.000	0.000	1.000
83	83	1	0.5000E-01	0.000	0.000	0.000	1.000
84	84	1	0.5000E-01	0.000	0.000	0.000	1.000
85	85	1	0.5000E-01	0.000	0.000	0.000	1.000
86	86	1	0.5000E-01	0.000	0.000	0.000	1.000
87	87	1	0.5000E-01	0.000	0.000	0.000	1.000
88	88	1	0.5000E-01	0.000	0.000	0.000	1.000
89	89	1	0.5000E-01	0.000	0.000	0.000	1.000
90	90	1	0.5000E-01	0.000	0.000	0.000	1.000
91	91	1	0.5000E-01	0.000	0.000	0.000	1.000
92	92	1	0.5000E-01	0.000	0.000	0.000	1.000
93	93	1	0.5000E-01	0.000	0.000	0.000	1.000
94	94	1	0.5000E-01	0.000	0.000	0.000	1.000
95	95	1	0.5000E-01	0.000	0.000	0.000	1.000
96	96	1	0.5000E-01	0.000	0.000	0.000	1.000
97	97	1	0.5000E-01	0.000	0.000	0.000	1.000
98	98	1	0.5000E-01	0.000	0.000	0.000	1.000
99	99	1	0.5000E-01	0.000	0.000	0.000	1.000
100	100	1	0.5000E-01	0.000	0.000	0.000	1.000
101	101	1	0.5000E-01	0.000	0.000	0.000	1.000
102	102	1	0.5000E-01	0.000	0.000	0.000	1.000

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	87 di 401

RELAZIONE DI CALCOLO

103	103	1	0.5000E-01	0.000	0.000	0.000	1.000
104	104	1	0.5000E-01	0.000	0.000	0.000	1.000
105	105	1	0.5000E-01	0.000	0.000	0.000	1.000
106	106	1	0.5000E-01	0.000	0.000	0.000	1.000
107	107	1	0.5000E-01	0.000	0.000	0.000	1.000
108	108	1	0.5000E-01	0.000	0.000	0.000	1.000
109	109	1	0.5000E-01	0.000	0.000	0.000	1.000
110	110	1	0.5000E-01	0.000	0.000	0.000	1.000
111	111	1	0.5000E-01	0.000	0.000	0.000	1.000
112	112	1	0.5000E-01	0.000	0.000	0.000	1.000
113	113	1	0.5000E-01	0.000	0.000	0.000	1.000
114	114	1	0.5000E-01	0.000	0.000	0.000	1.000
115	115	1	0.5000E-01	0.000	0.000	0.000	1.000
116	116	1	0.5000E-01	0.000	0.000	0.000	1.000
117	117	1	0.5000E-01	0.000	0.000	0.000	1.000
118	118	1	0.5000E-01	0.000	0.000	0.000	1.000
119	119	1	0.5000E-01	0.000	0.000	0.000	1.000
120	120	1	0.5000E-01	0.000	0.000	0.000	1.000
121	121	1	0.5000E-01	0.000	0.000	0.000	1.000
122	122	1	0.5000E-01	0.000	0.000	0.000	1.000
123	123	1	0.5000E-01	0.000	0.000	0.000	1.000
124	124	1	0.5000E-01	0.000	0.000	0.000	1.000
125	125	1	0.5000E-01	0.000	0.000	0.000	1.000
126	126	1	0.5000E-01	0.000	0.000	0.000	1.000
127	127	1	0.5000E-01	0.000	0.000	0.000	1.000
128	128	1	0.5000E-01	0.000	0.000	0.000	1.000
129	129	1	0.5000E-01	0.000	0.000	0.000	1.000
130	130	1	0.5000E-01	0.000	0.000	0.000	1.000
131	131	1	0.5000E-01	0.000	0.000	0.000	1.000
132	132	1	0.5000E-01	0.000	0.000	0.000	1.000
133	133	1	0.5000E-01	0.000	0.000	0.000	1.000
134	134	1	0.5000E-01	0.000	0.000	0.000	1.000
135	135	1	0.5000E-01	0.000	0.000	0.000	1.000
136	136	1	0.5000E-01	0.000	0.000	0.000	1.000
137	137	1	0.5000E-01	0.000	0.000	0.000	1.000
138	138	1	0.5000E-01	0.000	0.000	0.000	1.000
139	139	1	0.5000E-01	0.000	0.000	0.000	1.000
140	140	1	0.5000E-01	0.000	0.000	0.000	1.000
141	141	1	0.5000E-01	0.000	0.000	0.000	1.000
142	142	1	0.5000E-01	0.000	0.000	0.000	1.000
143	143	1	0.5000E-01	0.000	0.000	0.000	1.000
144	144	1	0.5000E-01	0.000	0.000	0.000	1.000
145	145	1	0.5000E-01	0.000	0.000	0.000	1.000
146	146	1	0.5000E-01	0.000	0.000	0.000	1.000
147	147	1	0.5000E-01	0.000	0.000	0.000	1.000
148	148	1	0.5000E-01	0.000	0.000	0.000	1.000
149	149	1	0.5000E-01	0.000	0.000	0.000	1.000
150	150	1	0.5000E-01	0.000	0.000	0.000	1.000
151	151	1	0.5000E-01	0.000	0.000	0.000	1.000
152	152	1	0.5000E-01	0.000	0.000	0.000	1.000
153	153	1	0.5000E-01	0.000	0.000	0.000	1.000
154	154	1	0.5000E-01	0.000	0.000	0.000	1.000
155	155	1	0.5000E-01	0.000	0.000	0.000	1.000
156	156	1	0.5000E-01	0.000	0.000	0.000	1.000
157	157	1	0.5000E-01	0.000	0.000	0.000	1.000
158	158	1	0.5000E-01	0.000	0.000	0.000	1.000
159	159	1	0.5000E-01	0.000	0.000	0.000	1.000
160	160	1	0.5000E-01	0.000	0.000	0.000	1.000
161	161	1	0.5000E-01	0.000	0.000	0.000	1.000
162	162	1	0.5000E-01	0.000	0.000	0.000	1.000
163	163	1	0.5000E-01	0.000	0.000	0.000	1.000
164	164	1	0.5000E-01	0.000	0.000	0.000	1.000
165	165	1	0.5000E-01	0.000	0.000	0.000	1.000
166	166	1	0.5000E-01	0.000	0.000	0.000	1.000
167	167	1	0.5000E-01	0.000	0.000	0.000	1.000
168	168	1	0.5000E-01	0.000	0.000	0.000	1.000
169	169	1	0.5000E-01	0.000	0.000	0.000	1.000
170	170	1	0.5000E-01	0.000	0.000	0.000	1.000
171	171	1	0.5000E-01	0.000	0.000	0.000	1.000
172	172	1	0.5000E-01	0.000	0.000	0.000	1.000
173	173	1	0.5000E-01	0.000	0.000	0.000	1.000
174	174	1	0.5000E-01	0.000	0.000	0.000	1.000
175	175	1	0.5000E-01	0.000	0.000	0.000	1.000
176	176	1	0.5000E-01	0.000	0.000	0.000	1.000
177	177	1	0.5000E-01	0.000	0.000	0.000	1.000
178	178	1	0.5000E-01	0.000	0.000	0.000	1.000
179	179	1	0.5000E-01	0.000	0.000	0.000	1.000
180	180	1	0.5000E-01	0.000	0.000	0.000	1.000
181	181	1	0.5000E-01	0.000	0.000	0.000	1.000
182	182	1	0.5000E-01	0.000	0.000	0.000	1.000
183	183	1	0.5000E-01	0.000	0.000	0.000	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	89 di 401

RELAZIONE DI CALCOLO

28	28	1	0.5000E-01	0.000	0.000	0.000	2.000
29	29	1	0.5000E-01	0.000	0.000	0.000	2.000
30	30	1	0.5000E-01	0.000	0.000	0.000	2.000
31	31	1	0.5000E-01	0.000	0.000	0.000	2.000
32	32	1	0.5000E-01	0.000	0.000	0.000	2.000
33	33	1	0.5000E-01	0.000	0.000	0.000	2.000
34	34	1	0.5000E-01	0.000	0.000	0.000	2.000
35	35	1	0.5000E-01	0.000	0.000	0.000	2.000
36	36	1	0.5000E-01	0.000	0.000	0.000	2.000
37	37	1	0.5000E-01	0.000	0.000	0.000	2.000
38	38	1	0.5000E-01	0.000	0.000	0.000	2.000
39	39	1	0.5000E-01	0.000	0.000	0.000	2.000
40	40	1	0.5000E-01	0.000	0.000	0.000	2.000
41	41	1	0.5000E-01	0.000	0.000	0.000	2.000
42	42	1	0.5000E-01	0.000	0.000	0.000	2.000
43	43	1	0.5000E-01	0.000	0.000	0.000	2.000
44	44	1	0.5000E-01	0.000	0.000	0.000	2.000
45	45	1	0.5000E-01	0.000	0.000	0.000	2.000
46	46	1	0.5000E-01	0.000	0.000	0.000	2.000
47	47	1	0.5000E-01	0.000	0.000	0.000	2.000
48	48	1	0.5000E-01	0.000	0.000	0.000	2.000
49	49	1	0.5000E-01	0.000	0.000	0.000	2.000
50	50	1	0.5000E-01	0.000	0.000	0.000	2.000
51	51	1	0.5000E-01	0.000	0.000	0.000	2.000
52	52	1	0.5000E-01	0.000	0.000	0.000	2.000
53	53	1	0.5000E-01	0.000	0.000	0.000	2.000
54	54	1	0.5000E-01	0.000	0.000	0.000	2.000
55	55	1	0.5000E-01	0.000	0.000	0.000	2.000
56	56	1	0.5000E-01	0.000	0.000	0.000	2.000
57	57	1	0.5000E-01	0.000	0.000	0.000	2.000
58	58	1	0.5000E-01	0.000	0.000	0.000	2.000
59	59	1	0.5000E-01	0.000	0.000	0.000	2.000
60	60	1	0.5000E-01	0.000	0.000	0.000	2.000
61	61	1	0.5000E-01	0.000	0.000	0.000	2.000
62	62	1	0.5000E-01	0.000	0.000	0.000	2.000
63	63	1	0.5000E-01	0.000	0.000	0.000	2.000
64	64	1	0.5000E-01	0.000	0.000	0.000	2.000
65	65	1	0.5000E-01	0.000	0.000	0.000	2.000
66	66	1	0.5000E-01	0.000	0.000	0.000	2.000
67	67	1	0.5000E-01	0.000	0.000	0.000	2.000
68	68	1	0.5000E-01	0.000	0.000	0.000	2.000
69	69	1	0.5000E-01	0.000	0.000	0.000	2.000
70	70	1	0.5000E-01	0.000	0.000	0.000	2.000
71	71	1	0.5000E-01	0.000	0.000	0.000	2.000
72	72	1	0.5000E-01	0.000	0.000	0.000	2.000
73	73	1	0.5000E-01	0.000	0.000	0.000	2.000
74	74	1	0.5000E-01	0.000	0.000	0.000	2.000
75	75	1	0.5000E-01	0.000	0.000	0.000	2.000
76	76	1	0.5000E-01	0.000	0.000	0.000	2.000
77	77	1	0.5000E-01	0.000	0.000	0.000	2.000
78	78	1	0.5000E-01	0.000	0.000	0.000	2.000
79	79	1	0.5000E-01	0.000	0.000	0.000	2.000
80	80	1	0.5000E-01	0.000	0.000	0.000	2.000
81	81	1	0.5000E-01	0.000	0.000	0.000	2.000
82	82	1	0.5000E-01	0.000	0.000	0.000	2.000
83	83	1	0.5000E-01	0.000	0.000	0.000	2.000
84	84	1	0.5000E-01	0.000	0.000	0.000	2.000
85	85	1	0.5000E-01	0.000	0.000	0.000	2.000
86	86	1	0.5000E-01	0.000	0.000	0.000	2.000
87	87	1	0.5000E-01	0.000	0.000	0.000	2.000
88	88	1	0.5000E-01	0.000	0.000	0.000	2.000
89	89	1	0.5000E-01	0.000	0.000	0.000	2.000
90	90	1	0.5000E-01	0.000	0.000	0.000	2.000
91	91	1	0.5000E-01	0.000	0.000	0.000	2.000
92	92	1	0.5000E-01	0.000	0.000	0.000	2.000
93	93	1	0.5000E-01	0.000	0.000	0.000	2.000
94	94	1	0.5000E-01	0.000	0.000	0.000	2.000
95	95	1	0.5000E-01	0.000	0.000	0.000	2.000
96	96	1	0.5000E-01	0.000	0.000	0.000	2.000
97	97	1	0.5000E-01	0.000	0.000	0.000	2.000
98	98	1	0.5000E-01	0.000	0.000	0.000	2.000
99	99	1	0.5000E-01	0.000	0.000	0.000	2.000
100	100	1	0.5000E-01	0.000	0.000	0.000	2.000
101	101	1	0.5000E-01	0.000	0.000	0.000	2.000
102	102	1	0.5000E-01	0.000	0.000	0.000	2.000
103	103	1	0.5000E-01	0.000	0.000	0.000	2.000
104	104	1	0.5000E-01	0.000	0.000	0.000	2.000
105	105	1	0.5000E-01	0.000	0.000	0.000	2.000
106	106	1	0.5000E-01	0.000	0.000	0.000	2.000
107	107	1	0.5000E-01	0.000	0.000	0.000	2.000
108	108	1	0.5000E-01	0.000	0.000	0.000	2.000



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	90 di 401

109	109	1	0.5000E-01	0.000	0.000	0.000	2.000
110	110	1	0.5000E-01	0.000	0.000	0.000	2.000
111	111	1	0.5000E-01	0.000	0.000	0.000	2.000
112	112	1	0.5000E-01	0.000	0.000	0.000	2.000
113	113	1	0.5000E-01	0.000	0.000	0.000	2.000
114	114	1	0.5000E-01	0.000	0.000	0.000	2.000
115	115	1	0.5000E-01	0.000	0.000	0.000	2.000
116	116	1	0.5000E-01	0.000	0.000	0.000	2.000
117	117	1	0.5000E-01	0.000	0.000	0.000	2.000
118	118	1	0.5000E-01	0.000	0.000	0.000	2.000
119	119	1	0.5000E-01	0.000	0.000	0.000	2.000
120	120	1	0.5000E-01	0.000	0.000	0.000	2.000
121	121	1	0.5000E-01	0.000	0.000	0.000	2.000
122	122	1	0.5000E-01	0.000	0.000	0.000	2.000
123	123	1	0.5000E-01	0.000	0.000	0.000	2.000
124	124	1	0.5000E-01	0.000	0.000	0.000	2.000
125	125	1	0.5000E-01	0.000	0.000	0.000	2.000
126	126	1	0.5000E-01	0.000	0.000	0.000	2.000
127	127	1	0.5000E-01	0.000	0.000	0.000	2.000
128	128	1	0.5000E-01	0.000	0.000	0.000	2.000
129	129	1	0.5000E-01	0.000	0.000	0.000	2.000
130	130	1	0.5000E-01	0.000	0.000	0.000	2.000
131	131	1	0.5000E-01	0.000	0.000	0.000	2.000
132	132	1	0.5000E-01	0.000	0.000	0.000	2.000
133	133	1	0.5000E-01	0.000	0.000	0.000	2.000
134	134	1	0.5000E-01	0.000	0.000	0.000	2.000
135	135	1	0.5000E-01	0.000	0.000	0.000	2.000
136	136	1	0.5000E-01	0.000	0.000	0.000	2.000
137	137	1	0.5000E-01	0.000	0.000	0.000	2.000
138	138	1	0.5000E-01	0.000	0.000	0.000	2.000
139	139	1	0.5000E-01	0.000	0.000	0.000	2.000
140	140	1	0.5000E-01	0.000	0.000	0.000	2.000
141	141	1	0.5000E-01	0.000	0.000	0.000	2.000
142	142	1	0.5000E-01	0.000	0.000	0.000	2.000
143	143	1	0.5000E-01	0.000	0.000	0.000	2.000
144	144	1	0.5000E-01	0.000	0.000	0.000	2.000
145	145	1	0.5000E-01	0.000	0.000	0.000	2.000
146	146	1	0.5000E-01	0.000	0.000	0.000	2.000
147	147	1	0.5000E-01	0.000	0.000	0.000	2.000
148	148	1	0.5000E-01	0.000	0.000	0.000	2.000
149	149	1	0.5000E-01	0.000	0.000	0.000	2.000
150	150	1	0.5000E-01	0.000	0.000	0.000	2.000
151	151	1	0.5000E-01	0.000	0.000	0.000	2.000
152	152	1	0.5000E-01	0.000	0.000	0.000	2.000
153	153	1	0.5000E-01	0.000	0.000	0.000	2.000
154	154	1	0.5000E-01	0.000	0.000	0.000	2.000
155	155	1	0.5000E-01	0.000	0.000	0.000	2.000
156	156	1	0.5000E-01	0.000	0.000	0.000	2.000
157	157	1	0.5000E-01	0.000	0.000	0.000	2.000
158	158	1	0.5000E-01	0.000	0.000	0.000	2.000
159	159	1	0.5000E-01	0.000	0.000	0.000	2.000
160	160	1	0.5000E-01	0.000	0.000	0.000	2.000
161	161	1	0.5000E-01	0.000	0.000	0.000	2.000
162	162	1	0.5000E-01	0.000	0.000	0.000	2.000
163	163	1	0.5000E-01	0.000	0.000	0.000	2.000
164	164	1	0.5000E-01	0.000	0.000	0.000	2.000
165	165	1	0.5000E-01	0.000	0.000	0.000	2.000
166	166	1	0.5000E-01	0.000	0.000	0.000	2.000
167	167	1	0.5000E-01	0.000	0.000	0.000	2.000
168	168	1	0.5000E-01	0.000	0.000	0.000	2.000
169	169	1	0.5000E-01	0.000	0.000	0.000	2.000
170	170	1	0.5000E-01	0.000	0.000	0.000	2.000
171	171	1	0.5000E-01	0.000	0.000	0.000	2.000
172	172	1	0.5000E-01	0.000	0.000	0.000	2.000
173	173	1	0.5000E-01	0.000	0.000	0.000	2.000
174	174	1	0.5000E-01	0.000	0.000	0.000	2.000
175	175	1	0.5000E-01	0.000	0.000	0.000	2.000
176	176	1	0.5000E-01	0.000	0.000	0.000	2.000
177	177	1	0.5000E-01	0.000	0.000	0.000	2.000
178	178	1	0.5000E-01	0.000	0.000	0.000	2.000
179	179	1	0.5000E-01	0.000	0.000	0.000	2.000
180	180	1	0.5000E-01	0.000	0.000	0.000	2.000
181	181	1	0.5000E-01	0.000	0.000	0.000	2.000
182	182	1	0.5000E-01	0.000	0.000	0.000	2.000
183	183	1	0.5000E-01	0.000	0.000	0.000	2.000
184	184	1	0.5000E-01	0.000	0.000	0.000	2.000
185	185	1	0.5000E-01	0.000	0.000	0.000	2.000
186	186	1	0.5000E-01	0.000	0.000	0.000	2.000
187	187	1	0.5000E-01	0.000	0.000	0.000	2.000
188	188	1	0.5000E-01	0.000	0.000	0.000	2.000
189	189	1	0.5000E-01	0.000	0.000	0.000	2.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVISIONALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	91 di 401

RELAZIONE DI CALCOLO

190	190	1	0.5000E-01	0.000	0.000	0.000	2.000
191	191	1	0.5000E-01	0.000	0.000	0.000	2.000
192	192	1	0.5000E-01	0.000	0.000	0.000	2.000
193	193	1	0.5000E-01	0.000	0.000	0.000	2.000
194	194	1	0.5000E-01	0.000	0.000	0.000	2.000
195	195	1	0.5000E-01	0.000	0.000	0.000	2.000
196	196	1	0.5000E-01	0.000	0.000	0.000	2.000
197	197	1	0.5000E-01	0.000	0.000	0.000	2.000
198	198	1	0.5000E-01	0.000	0.000	0.000	2.000
199	199	1	0.5000E-01	0.000	0.000	0.000	2.000
200	200	1	0.4999E-01	0.000	0.000	0.000	2.000
201	201	1	0.2499E-01	0.000	0.000	0.000	2.000

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SLERara_896
Exe Time :21 June 2016 11:57:45

ELEMENT GROUP NO. 3

WallElement_33 :
2 200 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0

.....2D WALL ELEMENT.....

element group behaviour throughout stage analysis

stage status

1 inactive
2 active
3 active

material set no. 1

prop(1) young modulus 0.210000E+09
prop(2) modification time 0.00000
prop(3) new young modulus 0.00000
prop(4) poisson ratio 0.00000
prop(5) future0.168200E-43

no. of step variable items: 1

step inertia multiplier

1 1.000
2 1.000
3 1.000

element data

e1 na nb mat erc1 erc2 thick

1	1	2	1	0.000	0.000	0.1381
2	2	3	1	0.000	0.000	0.1381
3	3	4	1	0.000	0.000	0.1381
4	4	5	1	0.000	0.000	0.1381
5	5	6	1	0.000	0.000	0.1381
6	6	7	1	0.000	0.000	0.1381
7	7	8	1	0.000	0.000	0.1381
8	8	9	1	0.000	0.000	0.1381
9	9	10	1	0.000	0.000	0.1381
10	10	11	1	0.000	0.000	0.1381
11	11	12	1	0.000	0.000	0.1381
12	12	13	1	0.000	0.000	0.1381
13	13	14	1	0.000	0.000	0.1381
14	14	15	1	0.000	0.000	0.1381
15	15	16	1	0.000	0.000	0.1381
16	16	17	1	0.000	0.000	0.1381
17	17	18	1	0.000	0.000	0.1381
18	18	19	1	0.000	0.000	0.1381
19	19	20	1	0.000	0.000	0.1381
20	20	21	1	0.000	0.000	0.1381
21	21	22	1	0.000	0.000	0.1381
22	22	23	1	0.000	0.000	0.1381
23	23	24	1	0.000	0.000	0.1381
24	24	25	1	0.000	0.000	0.1381



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	92 di 401

25	25	26	1	0.000	0.000	0.1381
26	26	27	1	0.000	0.000	0.1381
27	27	28	1	0.000	0.000	0.1381
28	28	29	1	0.000	0.000	0.1381
29	29	30	1	0.000	0.000	0.1381
30	30	31	1	0.000	0.000	0.1381
31	31	32	1	0.000	0.000	0.1381
32	32	33	1	0.000	0.000	0.1381
33	33	34	1	0.000	0.000	0.1381
34	34	35	1	0.000	0.000	0.1381
35	35	36	1	0.000	0.000	0.1381
36	36	37	1	0.000	0.000	0.1381
37	37	38	1	0.000	0.000	0.1381
38	38	39	1	0.000	0.000	0.1381
39	39	40	1	0.000	0.000	0.1381
40	40	41	1	0.000	0.000	0.1381
41	41	42	1	0.000	0.000	0.1381
42	42	43	1	0.000	0.000	0.1381
43	43	44	1	0.000	0.000	0.1381
44	44	45	1	0.000	0.000	0.1381
45	45	46	1	0.000	0.000	0.1381
46	46	47	1	0.000	0.000	0.1381
47	47	48	1	0.000	0.000	0.1381
48	48	49	1	0.000	0.000	0.1381
49	49	50	1	0.000	0.000	0.1381
50	50	51	1	0.000	0.000	0.1381
51	51	52	1	0.000	0.000	0.1381
52	52	53	1	0.000	0.000	0.1381
53	53	54	1	0.000	0.000	0.1381
54	54	55	1	0.000	0.000	0.1381
55	55	56	1	0.000	0.000	0.1381
56	56	57	1	0.000	0.000	0.1381
57	57	58	1	0.000	0.000	0.1381
58	58	59	1	0.000	0.000	0.1381
59	59	60	1	0.000	0.000	0.1381
60	60	61	1	0.000	0.000	0.1381
61	61	62	1	0.000	0.000	0.1381
62	62	63	1	0.000	0.000	0.1381
63	63	64	1	0.000	0.000	0.1381
64	64	65	1	0.000	0.000	0.1381
65	65	66	1	0.000	0.000	0.1381
66	66	67	1	0.000	0.000	0.1381
67	67	68	1	0.000	0.000	0.1381
68	68	69	1	0.000	0.000	0.1381
69	69	70	1	0.000	0.000	0.1381
70	70	71	1	0.000	0.000	0.1381
71	71	72	1	0.000	0.000	0.1381
72	72	73	1	0.000	0.000	0.1381
73	73	74	1	0.000	0.000	0.1381
74	74	75	1	0.000	0.000	0.1381
75	75	76	1	0.000	0.000	0.1381
76	76	77	1	0.000	0.000	0.1381
77	77	78	1	0.000	0.000	0.1381
78	78	79	1	0.000	0.000	0.1381
79	79	80	1	0.000	0.000	0.1381
80	80	81	1	0.000	0.000	0.1381
81	81	82	1	0.000	0.000	0.1381
82	82	83	1	0.000	0.000	0.1381
83	83	84	1	0.000	0.000	0.1381
84	84	85	1	0.000	0.000	0.1381
85	85	86	1	0.000	0.000	0.1381
86	86	87	1	0.000	0.000	0.1381
87	87	88	1	0.000	0.000	0.1381
88	88	89	1	0.000	0.000	0.1381
89	89	90	1	0.000	0.000	0.1381
90	90	91	1	0.000	0.000	0.1381
91	91	92	1	0.000	0.000	0.1381
92	92	93	1	0.000	0.000	0.1381
93	93	94	1	0.000	0.000	0.1381
94	94	95	1	0.000	0.000	0.1381
95	95	96	1	0.000	0.000	0.1381
96	96	97	1	0.000	0.000	0.1381
97	97	98	1	0.000	0.000	0.1381
98	98	99	1	0.000	0.000	0.1381
99	99	100	1	0.000	0.000	0.1381
100	100	101	1	0.000	0.000	0.1381
101	101	102	1	0.000	0.000	0.1381
102	102	103	1	0.000	0.000	0.1381
103	103	104	1	0.000	0.000	0.1381
104	104	105	1	0.000	0.000	0.1381
105	105	106	1	0.000	0.000	0.1381



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	93 di 401

RELAZIONE DI CALCOLO

106	106	107	1	0.000	0.000	0.1381
107	107	108	1	0.000	0.000	0.1381
108	108	109	1	0.000	0.000	0.1381
109	109	110	1	0.000	0.000	0.1381
110	110	111	1	0.000	0.000	0.1381
111	111	112	1	0.000	0.000	0.1381
112	112	113	1	0.000	0.000	0.1381
113	113	114	1	0.000	0.000	0.1381
114	114	115	1	0.000	0.000	0.1381
115	115	116	1	0.000	0.000	0.1381
116	116	117	1	0.000	0.000	0.1381
117	117	118	1	0.000	0.000	0.1381
118	118	119	1	0.000	0.000	0.1381
119	119	120	1	0.000	0.000	0.1381
120	120	121	1	0.000	0.000	0.1381
121	121	122	1	0.000	0.000	0.1381
122	122	123	1	0.000	0.000	0.1381
123	123	124	1	0.000	0.000	0.1381
124	124	125	1	0.000	0.000	0.1381
125	125	126	1	0.000	0.000	0.1381
126	126	127	1	0.000	0.000	0.1381
127	127	128	1	0.000	0.000	0.1381
128	128	129	1	0.000	0.000	0.1381
129	129	130	1	0.000	0.000	0.1381
130	130	131	1	0.000	0.000	0.1381
131	131	132	1	0.000	0.000	0.1381
132	132	133	1	0.000	0.000	0.1381
133	133	134	1	0.000	0.000	0.1381
134	134	135	1	0.000	0.000	0.1381
135	135	136	1	0.000	0.000	0.1381
136	136	137	1	0.000	0.000	0.1381
137	137	138	1	0.000	0.000	0.1381
138	138	139	1	0.000	0.000	0.1381
139	139	140	1	0.000	0.000	0.1381
140	140	141	1	0.000	0.000	0.1381
141	141	142	1	0.000	0.000	0.1381
142	142	143	1	0.000	0.000	0.1381
143	143	144	1	0.000	0.000	0.1381
144	144	145	1	0.000	0.000	0.1381
145	145	146	1	0.000	0.000	0.1381
146	146	147	1	0.000	0.000	0.1381
147	147	148	1	0.000	0.000	0.1381
148	148	149	1	0.000	0.000	0.1381
149	149	150	1	0.000	0.000	0.1381
150	150	151	1	0.000	0.000	0.1381
151	151	152	1	0.000	0.000	0.1381
152	152	153	1	0.000	0.000	0.1381
153	153	154	1	0.000	0.000	0.1381
154	154	155	1	0.000	0.000	0.1381
155	155	156	1	0.000	0.000	0.1381
156	156	157	1	0.000	0.000	0.1381
157	157	158	1	0.000	0.000	0.1381
158	158	159	1	0.000	0.000	0.1381
159	159	160	1	0.000	0.000	0.1381
160	160	161	1	0.000	0.000	0.1381
161	161	162	1	0.000	0.000	0.1381
162	162	163	1	0.000	0.000	0.1381
163	163	164	1	0.000	0.000	0.1381
164	164	165	1	0.000	0.000	0.1381
165	165	166	1	0.000	0.000	0.1381
166	166	167	1	0.000	0.000	0.1381
167	167	168	1	0.000	0.000	0.1381
168	168	169	1	0.000	0.000	0.1381
169	169	170	1	0.000	0.000	0.1381
170	170	171	1	0.000	0.000	0.1381
171	171	172	1	0.000	0.000	0.1381
172	172	173	1	0.000	0.000	0.1381
173	173	174	1	0.000	0.000	0.1381
174	174	175	1	0.000	0.000	0.1381
175	175	176	1	0.000	0.000	0.1381
176	176	177	1	0.000	0.000	0.1381
177	177	178	1	0.000	0.000	0.1381
178	178	179	1	0.000	0.000	0.1381
179	179	180	1	0.000	0.000	0.1381
180	180	181	1	0.000	0.000	0.1381
181	181	182	1	0.000	0.000	0.1381
182	182	183	1	0.000	0.000	0.1381
183	183	184	1	0.000	0.000	0.1381
184	184	185	1	0.000	0.000	0.1381
185	185	186	1	0.000	0.000	0.1381
186	186	187	1	0.000	0.000	0.1381



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	94 di 401

187	187	188	1	0.000	0.000	0.1381
188	188	189	1	0.000	0.000	0.1381
189	189	190	1	0.000	0.000	0.1381
190	190	191	1	0.000	0.000	0.1381
191	191	192	1	0.000	0.000	0.1381
192	192	193	1	0.000	0.000	0.1381
193	193	194	1	0.000	0.000	0.1381
194	194	195	1	0.000	0.000	0.1381
195	195	196	1	0.000	0.000	0.1381
196	196	197	1	0.000	0.000	0.1381
197	197	198	1	0.000	0.000	0.1381
198	198	199	1	0.000	0.000	0.1381
199	199	200	1	0.000	0.000	0.1381
200	200	201	1	0.000	0.000	0.1381

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SLERara_896
Exe Time :21 June 2016 11:57:45

NO. OF NODAL LOADS (NLOAD) 0
NO. OF LOAD CURVES (NLCUR) 6
MAXIMUM POINTS/LCURVE (NPTM)..... 5

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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Exe Time :21 June 2016 11:57:45

LOAD DATA

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
4.00000	0.0000E+00



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	95 di 401

RELAZIONE DI CALCOLO

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
4.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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LOAD BALANCE

STEP 1	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP 1	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP 2	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP 2	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP 3	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP 3	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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NO. OF LAYERS 1
NO. OF DATA PER LAYER..... 100



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	96 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO.	1<NAME	>= 10.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 10.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 25.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.40600	WALL NO.	1
ITEM NO.	11<U-KP	>= 3.3960	WALL NO.	1
ITEM NO.	12<KO-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO.	52<D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 10.000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 25.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.40600	WALL NO.	1
ITEM NO.	61<D-KP	>= 3.3960	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-07	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 2

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 2

ITEM NO.	1<NAME	>= 10.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 10.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 25.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.40600	WALL NO.	1
ITEM NO.	11<U-KP	>= 3.3960	WALL NO.	1
ITEM NO.	12<KO-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO.	52<D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 10.000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 25.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.40600	WALL NO.	1
ITEM NO.	61<D-KP	>= 3.3960	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-07	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 3

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO.	1<NAME	>= 10.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100.004	A	97 di 401

RELAZIONE DI CALCOLO

ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 10.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 25.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.40600	WALL NO.	1
ITEM NO.	11<U-KP	>= 3.3960	WALL NO.	1
ITEM NO.	12<KO-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO.	52<D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 10.000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 25.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.40600	WALL NO.	1
ITEM NO.	61<D-KP	>= 3.3960	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-07	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 3 VALUES

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-4.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-10.00	-10.00
WATER BEHAVIOUR FLAG (LINING OPT)		0.000	0.000
PORE_UPDATE_FLAG		0.000	0.000
PORE_TAB_FLAG (gt.0= use tabs)		0.000	0.000
lateral thrusts reduction elevatio		0.000	0.000
Downhill reduction factor for effe		0.000	0.000
Downhill reduction factor for pore		0.000	0.000
Uphill reduction factor for effect		0.000	0.000
Uphill reduction factor for pore p		0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]		0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]		0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]		0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]		0.000	0.000
UPHILL DELTA/PHI RATIO		0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]		0.000	0.000
DOWNHILL DELTA/PHI RATIO		0.000	0.000
DYN.WATER BEHAVIOUR		0.000	0.000
Excess pore pressure RATIO Ru		0.000	0.000
SEISMIC PRESSURE LOWER VALUE		0.000	0.000
SEISMIC PRESSURE UPPER VALUE		0.000	0.000
SEISMIC PRESSURE LOWER LEVEL		0.000	0.000
SEISMIC PRESSURE UPPER LEVEL		0.000	0.000

====end of step 1

STEP NO.	2	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	98 di 401

RELAZIONE DI CALCOLO

Z-EXCAVATION	0.000	0.000
Z-WATER_TABLE	-4.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	57.00	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-10.00	-10.00
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

-----end of step 2

STEP NO. 3

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-3.200	0.000
Z-WATER_TABLE	-4.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	57.00	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-10.00	-10.00
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

-----end of step 3

LEFT-HAND WALL

LOWER LEVEL -10.00000
UPPER LEVEL 0.00000

RIGHT-HAND WALL

LOWER LEVEL -10.00000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	99 di 401

RELAZIONE DI CALCOLO

UPPER LEVEL 0.00000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT POSITION 3748

NO. OF D.P.W FOR THIS AREA 18840
 MAX NO. OF D.P.W. AVAILABLE 81920
 ** MAX NO OF ITERATIONS SET TO 40

```

ITER 0 RNORM = 0.000    RMNORM= 0.000
      RINORM= 5652.    RIMNOR= 0.000
      RENORM= 0.000    REMNOR= 0.000    RATIO = 0.000    TOLER =0.1000E-03    CONVERGED !
      RFMAX = 6.817    RMMAX = 0.000
      RTSMAL=0.1000E-04 RMSMAL= 0.000
      RDT = 5652.    RDR = 0.000
      RATIO= 0.000    RATIO= 0.000
      MAX UN= 0.000    IEQ= 402 NODE    201 DOF 2 X-ROT. F
      MIN UN= 0.000    IEQ= 1 NODE    1 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
  
```

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ITER 1 RNORM = 0.000    RMNORM= 0.000
      RINORM= 5652.    RIMNOR= 0.000
      RENORM= 0.000    REMNOR= 0.000    RATIO = 0.000    TOLER =0.1000E-03    CONVERGED !
      RFMAX = 6.817    RMMAX = 0.000
      RTSMAL=0.1000E-04 RMSMAL= 0.000
      RDT = 5652.    RDR = 0.000
      RATIO= 0.000    RATIO= 0.000
      MAX UN= 0.000    IEQ= 402 NODE    201 DOF 2 X-ROT. F
      MIN UN= 0.000    IEQ= 1 NODE    1 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
  
```

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ITER 2 RNORM = 0.000    RMNORM= 0.000
      RINORM= 5652.    RIMNOR= 0.000
      RENORM= 0.000    REMNOR= 0.000    RATIO = 0.000    TOLER =0.1000E-03    CONVERGED !
      RFMAX = 6.817    RMMAX = 0.000
      RTSMAL=0.1000E-04 RMSMAL= 0.000
      RDT = 5652.    RDR = 0.000
      RATIO= 0.000    RATIO= 0.000
      MAX UN= 0.000    IEQ= 402 NODE    201 DOF 2 X-ROT. F
      MIN UN= 0.000    IEQ= 1 NODE    1 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
  
```

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+-----+
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+-----+
  
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paratia_mario
 SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

Y-DISPL.F X-ROT. F
 (02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VID100.004	A	100 di 401

RELAZIONE DI CALCOLO

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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paratia_mario

STRESS RESULTS FOR GROUP NO. 1

Q.L.
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.9432E+05	0.000	0.000	1.000
1.000	0.000	0.000	0.000	5AL_158_160_L_0	0.5636	0.9500	V-C	2.9432E+05	-5.0000E-02	0.000	1.000
2 D	2.8182E-02	0.000	0.9500	0.5636	0.9500	0.5636	V-C	2.9432E+05	-0.1000	0.000	1.000
1.000	0.5636	0.000	0.000	5AL_158_160_L_0	1.127	1.900	V-C	2.9432E+05	-0.1500	0.000	1.000
3 D	5.6364E-02	0.000	1.900	1.127	1.900	1.127	V-C	2.9432E+05	-0.2000	0.000	1.000
1.000	1.127	0.000	0.000	5AL_158_160_L_0	1.691	2.850	V-C	2.9432E+05	-0.2500	0.000	1.000
4 D	8.4545E-02	0.000	2.850	1.691	2.850	1.691	V-C	2.9432E+05	-0.3000	0.000	1.000
1.000	1.691	0.000	0.000	5AL_158_160_L_0	2.255	3.800	V-C	2.9432E+05	-0.3500	0.000	1.000
5 D	0.1127	0.000	3.800	2.255	3.800	2.255	V-C	2.9432E+05	-0.4000	0.000	1.000
1.000	2.255	0.000	0.000	5AL_158_160_L_0	2.818	4.750	V-C	2.9432E+05	-0.4500	0.000	1.000
6 D	0.1409	0.000	4.750	2.818	4.750	2.818	V-C	2.9432E+05	-0.5000	0.000	1.000
1.000	2.818	0.000	0.000	5AL_158_160_L_0	3.382	5.700	V-C	2.9432E+05	-0.5500	0.000	1.000
7 D	0.1691	0.000	5.700	3.382	5.700	3.382	V-C	2.9432E+05	-0.6000	0.000	1.000
1.000	3.382	0.000	0.000	5AL_158_160_L_0	3.945	6.650	V-C	2.9432E+05	-0.6500	0.000	1.000
8 D	0.1973	0.000	6.650	3.945	6.650	3.945	V-C	2.9432E+05	-0.7000	0.000	1.000
1.000	3.945	0.000	0.000	5AL_158_160_L_0	4.509	7.600	V-C	2.9432E+05	-0.7500	0.000	1.000
9 D	0.2255	0.000	7.600	4.509	7.600	4.509	V-C	2.9432E+05	-0.8000	0.000	1.000
1.000	4.509	0.000	0.000	5AL_158_160_L_0	5.073	8.550	V-C	2.9432E+05	-0.8500	0.000	1.000
10 D	0.2536	0.000	8.550	5.073	8.550	5.073	V-C	2.9432E+05	-0.9000	0.000	1.000
1.000	5.073	0.000	0.000	5AL_158_160_L_0	5.636	9.500	V-C	2.9432E+05	-0.9500	0.000	1.000
11 D	0.2818	0.000	9.500	5.636	9.500	5.636	V-C	2.9432E+05	-1.0000	0.000	1.000
1.000	5.636	0.000	0.000	5AL_158_160_L_0	6.200	10.45	V-C	2.9432E+05	-1.0500	0.000	1.000
12 D	0.3100	0.000	10.45	6.200	10.45	6.200	V-C	2.9432E+05	-1.1000	0.000	1.000
1.000	6.200	0.000	0.000	5AL_158_160_L_0	6.764	11.40	V-C	2.9432E+05	-1.1500	0.000	1.000
13 D	0.3382	0.000	11.40	6.764	11.40	6.764	V-C	2.9432E+05	-1.2000	0.000	1.000
1.000	6.764	0.000	0.000	5AL_158_160_L_0	7.327	12.35	V-C	2.9432E+05	-1.2500	0.000	1.000
14 D	0.3664	0.000	12.35	7.327	12.35	7.327	V-C	2.9432E+05	-1.3000	0.000	1.000
1.000	7.327	0.000	0.000	5AL_158_160_L_0	7.891	13.30	V-C	2.9432E+05	-1.3500	0.000	1.000
15 D	0.3945	0.000	13.30	7.891	13.30	7.891	V-C	2.9432E+05	-1.4000	0.000	1.000
1.000	7.891	0.000	0.000	5AL_158_160_L_0	8.455	14.25	V-C	2.9432E+05	-1.4500	0.000	1.000
16 D	0.4227	0.000	14.25	8.455	14.25	8.455	V-C	2.9432E+05	-1.5000	0.000	1.000
1.000	8.455	0.000	0.000	5AL_158_160_L_0	9.018	15.20	V-C	2.9432E+05	-1.5500	0.000	1.000
17 D	0.4509	0.000	15.20	9.018	15.20	9.018	V-C	2.9432E+05	-1.6000	0.000	1.000
1.000	9.018	0.000	0.000	5AL_158_160_L_0	9.582	16.15	V-C	2.9432E+05	-1.6500	0.000	1.000
18 D	0.4791	0.000	16.15	9.582	16.15	9.582	V-C	2.9432E+05	-1.7000	0.000	1.000
1.000	9.582	0.000	0.000	5AL_158_160_L_0	10.15	17.10	V-C	2.9432E+05	-1.7500	0.000	1.000
19 D	0.5073	0.000	17.10	10.15	17.10	10.15	V-C	2.9432E+05	-1.8000	0.000	1.000
1.000	10.15	0.000	0.000	5AL_158_160_L_0	10.71	18.05	V-C	2.9432E+05	-1.8500	0.000	1.000
20 D	0.5355	0.000	18.05	10.71	18.05	10.71	V-C	2.9432E+05	-1.9000	0.000	1.000
1.000	10.71	0.000	0.000	5AL_158_160_L_0	11.27	19.00	V-C	2.9432E+05	-1.9500	0.000	1.000
21 D	0.5636	0.000	19.00	11.27	19.00	11.27	V-C	2.9432E+05	-2.0000	0.000	1.000
1.000	11.27	0.000	0.000	5AL_158_160_L_0	11.84	19.95	V-C	2.9432E+05	-2.0500	0.000	1.000
22 D	0.5918	0.000	19.95	11.84	19.95	11.84	V-C	2.9432E+05	-2.1000	0.000	1.000
1.000	11.84	0.000	0.000	5AL_158_160_L_0	12.40	20.90	V-C	2.9432E+05	-2.1500	0.000	1.000
23 D	0.6200	0.000	20.90	12.40	20.90	12.40	V-C	2.9432E+05	-2.2000	0.000	1.000
1.000	12.40	0.000	0.000	5AL_158_160_L_0	12.96	21.85	V-C	2.9432E+05	-2.2500	0.000	1.000
24 D	0.6482	0.000	21.85	12.96	21.85	12.96	V-C	2.9432E+05	-2.3000	0.000	1.000
1.000	12.96	0.000	0.000	5AL_158_160_L_0	13.53	22.80	V-C	2.9432E+05	-2.3500	0.000	1.000
25 D	0.6764	0.000	22.80	13.53	22.80	13.53	V-C	2.9432E+05	-2.4000	0.000	1.000
1.000	13.53	0.000	0.000	5AL_158_160_L_0	14.09	23.75	V-C	2.9432E+05	-2.4500	0.000	1.000
26 D	0.7045	0.000	23.75	14.09	23.75	14.09	V-C	2.9432E+05	-2.5000	0.000	1.000
1.000	14.09	0.000	0.000	5AL_158_160_L_0	14.65	24.70	V-C	2.9432E+05	-2.5500	0.000	1.000
27 D	0.7327	0.000	24.70	14.65	24.70	14.65	V-C	2.9432E+05	-2.6000	0.000	1.000
1.000	14.65	0.000	0.000	5AL_158_160_L_0	15.22	25.65	V-C	2.9432E+05	-2.6500	0.000	1.000
28 D	0.7609	0.000	25.65	15.22	25.65	15.22	V-C	2.9432E+05	-2.7000	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	101 di 401

1.000	15.22	0.000	0.000	5AL_158_160_L_0							
29 D	0.7891	0.000	26.60	15.78	26.60	15.78	V-C	2.9432E+05	-1.400	0.000	1.000
1.000	15.78	0.000	0.000	5AL_158_160_L_0							
30 D	0.8173	0.000	27.55	16.35	27.55	16.35	V-C	2.9432E+05	-1.450	0.000	1.000
1.000	16.35	0.000	0.000	5AL_158_160_L_0							
31 D	0.8455	0.000	28.50	16.91	28.50	16.91	V-C	2.9432E+05	-1.500	0.000	1.000
1.000	16.91	0.000	0.000	5AL_158_160_L_0							
32 D	0.8736	0.000	29.45	17.47	29.45	17.47	V-C	2.9432E+05	-1.550	0.000	1.000
1.000	17.47	0.000	0.000	5AL_158_160_L_0							
33 D	0.9018	0.000	30.40	18.04	30.40	18.04	V-C	2.9432E+05	-1.600	0.000	1.000
1.000	18.04	0.000	0.000	5AL_158_160_L_0							
34 D	0.9300	0.000	31.35	18.60	31.35	18.60	V-C	2.9432E+05	-1.650	0.000	1.000
1.000	18.60	0.000	0.000	5AL_158_160_L_0							
35 D	0.9582	0.000	32.30	19.16	32.30	19.16	V-C	2.9432E+05	-1.700	0.000	1.000
1.000	19.16	0.000	0.000	5AL_158_160_L_0							
36 D	0.9864	0.000	33.25	19.73	33.25	19.73	V-C	2.9432E+05	-1.750	0.000	1.000
1.000	19.73	0.000	0.000	5AL_158_160_L_0							
37 D	1.015	0.000	34.20	20.29	34.20	20.29	V-C	2.9432E+05	-1.800	0.000	1.000
1.000	20.29	0.000	0.000	5AL_158_160_L_0							
38 D	1.043	0.000	35.15	20.85	35.15	20.85	V-C	2.9432E+05	-1.850	0.000	1.000
1.000	20.85	0.000	0.000	5AL_158_160_L_0							
39 D	1.071	0.000	36.10	21.42	36.10	21.42	V-C	2.9432E+05	-1.900	0.000	1.000
1.000	21.42	0.000	0.000	5AL_158_160_L_0							
40 D	1.099	0.000	37.05	21.98	37.05	21.98	V-C	2.9432E+05	-1.950	0.000	1.000
1.000	21.98	0.000	0.000	5AL_158_160_L_0							
41 D	1.127	0.000	38.00	22.55	38.00	22.55	V-C	2.9432E+05	-2.000	0.000	1.000
1.000	22.55	0.000	0.000	5AL_158_160_L_0							
42 D	1.155	0.000	38.95	23.11	38.95	23.11	V-C	2.9432E+05	-2.050	0.000	1.000
1.000	23.11	0.000	0.000	5AL_158_160_L_0							
43 D	1.184	0.000	39.90	23.67	39.90	23.67	V-C	2.9432E+05	-2.100	0.000	1.000
1.000	23.67	0.000	0.000	5AL_158_160_L_0							
44 D	1.212	0.000	40.85	24.24	40.85	24.24	V-C	2.9432E+05	-2.150	0.000	1.000
1.000	24.24	0.000	0.000	5AL_158_160_L_0							
45 D	1.240	0.000	41.80	24.80	41.80	24.80	V-C	2.9432E+05	-2.200	0.000	1.000
1.000	24.80	0.000	0.000	5AL_158_160_L_0							
46 D	1.268	0.000	42.75	25.36	42.75	25.36	V-C	2.9432E+05	-2.250	0.000	1.000
1.000	25.36	0.000	0.000	5AL_158_160_L_0							
47 D	1.296	0.000	43.70	25.93	43.70	25.93	V-C	2.9432E+05	-2.300	0.000	1.000
1.000	25.93	0.000	0.000	5AL_158_160_L_0							
48 D	1.325	0.000	44.65	26.49	44.65	26.49	V-C	2.9432E+05	-2.350	0.000	1.000
1.000	26.49	0.000	0.000	5AL_158_160_L_0							
49 D	1.353	0.000	45.60	27.05	45.60	27.05	V-C	2.9432E+05	-2.400	0.000	1.000
1.000	27.05	0.000	0.000	5AL_158_160_L_0							
50 D	1.381	0.000	46.55	27.62	46.55	27.62	V-C	2.9432E+05	-2.450	0.000	1.000
1.000	27.62	0.000	0.000	5AL_158_160_L_0							
51 D	1.409	0.000	47.50	28.18	47.50	28.18	V-C	2.9432E+05	-2.500	0.000	1.000
1.000	28.18	0.000	0.000	5AL_158_160_L_0							
52 D	1.437	0.000	48.45	28.75	48.45	28.75	V-C	2.9432E+05	-2.550	0.000	1.000
1.000	28.75	0.000	0.000	5AL_158_160_L_0							
53 D	1.465	0.000	49.40	29.31	49.40	29.31	V-C	2.9432E+05	-2.600	0.000	1.000
1.000	29.31	0.000	0.000	5AL_158_160_L_0							
54 D	1.494	0.000	50.35	29.87	50.35	29.87	V-C	2.9432E+05	-2.650	0.000	1.000
1.000	29.87	0.000	0.000	5AL_158_160_L_0							
55 D	1.522	0.000	51.30	30.44	51.30	30.44	V-C	2.9432E+05	-2.700	0.000	1.000
1.000	30.44	0.000	0.000	5AL_158_160_L_0							
56 D	1.550	0.000	52.25	31.00	52.25	31.00	V-C	2.9432E+05	-2.750	0.000	1.000
1.000	31.00	0.000	0.000	5AL_158_160_L_0							
57 D	1.578	0.000	53.20	31.56	53.20	31.56	V-C	2.9432E+05	-2.800	0.000	1.000
1.000	31.56	0.000	0.000	5AL_158_160_L_0							
58 D	1.606	0.000	54.15	32.13	54.15	32.13	V-C	2.9432E+05	-2.850	0.000	1.000
1.000	32.13	0.000	0.000	5AL_158_160_L_0							
59 D	1.635	0.000	55.10	32.69	55.10	32.69	V-C	2.9432E+05	-2.900	0.000	1.000
1.000	32.69	0.000	0.000	5AL_158_160_L_0							
60 D	1.663	0.000	56.05	33.25	56.05	33.25	V-C	2.9432E+05	-2.950	0.000	1.000
1.000	33.25	0.000	0.000	5AL_158_160_L_0							
61 D	1.691	0.000	57.00	33.82	57.00	33.82	V-C	2.9432E+05	-3.000	0.000	1.000
1.000	33.82	0.000	0.000	5AL_158_160_L_0							
62 D	1.719	0.000	57.95	34.38	57.95	34.38	V-C	2.9432E+05	-3.050	0.000	1.000
1.000	34.38	0.000	0.000	5AL_158_160_L_0							
63 D	1.747	0.000	58.90	34.95	58.90	34.95	V-C	2.9432E+05	-3.100	0.000	1.000
1.000	34.95	0.000	0.000	5AL_158_160_L_0							
64 D	1.775	0.000	59.85	35.51	59.85	35.51	V-C	2.9432E+05	-3.150	0.000	1.000
1.000	35.51	0.000	0.000	5AL_158_160_L_0							
65 D	1.804	0.000	60.80	36.07	60.80	36.07	V-C	2.9432E+05	-3.200	0.000	1.000
1.000	36.07	0.000	0.000	5AL_158_160_L_0							
66 D	1.832	0.000	61.75	36.64	61.75	36.64	V-C	2.9432E+05	-3.250	0.000	1.000
1.000	36.64	0.000	0.000	5AL_158_160_L_0							
67 D	1.860	0.000	62.70	37.20	62.70	37.20	V-C	2.9432E+05	-3.300	0.000	1.000
1.000	37.20	0.000	0.000	5AL_158_160_L_0							
68 D	1.888	0.000	63.65	37.76	63.65	37.76	V-C	2.9432E+05	-3.350	0.000	1.000
1.000	37.76	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	102 di 401

RELAZIONE DI CALCOLO

69 D	1.916	0.000	64.60	38.33	64.60	38.33	V-C	2.9432E+05	-3.400	0.000	1.000
1.000	38.33	0.000	0.000	SAL_158_160_L_0							
70 D	1.945	0.000	65.55	38.89	65.55	38.89	V-C	2.9432E+05	-3.450	0.000	1.000
1.000	38.89	0.000	0.000	SAL_158_160_L_0							
71 D	1.973	0.000	66.50	39.45	66.50	39.45	V-C	2.9432E+05	-3.500	0.000	1.000
1.000	39.45	0.000	0.000	SAL_158_160_L_0							
72 D	2.001	0.000	67.45	40.02	67.45	40.02	V-C	2.9432E+05	-3.550	0.000	1.000
1.000	40.02	0.000	0.000	SAL_158_160_L_0							
73 D	2.029	0.000	68.40	40.58	68.40	40.58	V-C	2.9432E+05	-3.600	0.000	1.000
1.000	40.58	0.000	0.000	SAL_158_160_L_0							
74 D	2.057	0.000	69.35	41.15	69.35	41.15	V-C	2.9432E+05	-3.650	0.000	1.000
1.000	41.15	0.000	0.000	SAL_158_160_L_0							
75 D	2.085	0.000	70.30	41.71	70.30	41.71	V-C	2.9432E+05	-3.700	0.000	1.000
1.000	41.71	0.000	0.000	SAL_158_160_L_0							
76 D	2.114	0.000	71.25	42.27	71.25	42.27	V-C	2.9432E+05	-3.750	0.000	1.000
1.000	42.27	0.000	0.000	SAL_158_160_L_0							
77 D	2.142	0.000	72.20	42.84	72.20	42.84	V-C	2.9432E+05	-3.800	0.000	1.000
1.000	42.84	0.000	0.000	SAL_158_160_L_0							
78 D	2.170	0.000	73.15	43.40	73.15	43.40	V-C	2.9432E+05	-3.850	0.000	1.000
1.000	43.40	0.000	0.000	SAL_158_160_L_0							
79 D	2.198	0.000	74.10	43.96	74.10	43.96	V-C	2.9432E+05	-3.900	0.000	1.000
1.000	43.96	0.000	0.000	SAL_158_160_L_0							
80 D	2.226	0.000	75.05	44.53	75.05	44.53	V-C	2.9432E+05	-3.950	0.000	1.000
1.000	44.53	0.000	0.000	SAL_158_160_L_0							
81 D	2.255	0.000	76.00	45.09	76.00	45.09	V-C	2.9432E+05	-4.000	0.000	1.000
1.000	45.09	0.000	0.000	SAL_158_160_L_0							
82 D	2.293	0.000	76.45	45.36	76.45	45.36	V-C	2.9432E+05	-4.050	0.5000	1.000
1.000	45.86	0.000	0.000	SAL_158_160_L_0							
83 D	2.331	0.000	76.90	45.62	76.90	45.62	V-C	2.9432E+05	-4.100	1.000	1.000
1.000	46.62	0.000	0.000	SAL_158_160_L_0							
84 D	2.370	0.000	77.35	45.89	77.35	45.89	V-C	2.9432E+05	-4.150	1.500	1.000
1.000	47.39	0.000	0.000	SAL_158_160_L_0							
85 D	2.408	0.000	77.80	46.16	77.80	46.16	V-C	2.9432E+05	-4.200	2.000	1.000
1.000	48.16	0.000	0.000	SAL_158_160_L_0							
86 D	2.446	0.000	78.25	46.43	78.25	46.43	V-C	2.9432E+05	-4.250	2.500	1.000
1.000	48.93	0.000	0.000	SAL_158_160_L_0							
87 D	2.485	0.000	78.70	46.69	78.70	46.69	V-C	2.9432E+05	-4.300	3.000	1.000
1.000	49.69	0.000	0.000	SAL_158_160_L_0							
88 D	2.523	0.000	79.15	46.96	79.15	46.96	V-C	2.9432E+05	-4.350	3.500	1.000
1.000	50.46	0.000	0.000	SAL_158_160_L_0							
89 D	2.561	0.000	79.60	47.23	79.60	47.23	V-C	2.9432E+05	-4.400	4.000	1.000
1.000	51.23	0.000	0.000	SAL_158_160_L_0							
90 D	2.600	0.000	80.05	47.49	80.05	47.49	V-C	2.9432E+05	-4.450	4.500	1.000
1.000	51.99	0.000	0.000	SAL_158_160_L_0							
91 D	2.638	0.000	80.50	47.76	80.50	47.76	V-C	2.9432E+05	-4.500	5.000	1.000
1.000	52.76	0.000	0.000	SAL_158_160_L_0							
92 D	2.676	0.000	80.95	48.03	80.95	48.03	V-C	2.9432E+05	-4.550	5.500	1.000
1.000	53.53	0.000	0.000	SAL_158_160_L_0							
93 D	2.715	0.000	81.40	48.29	81.40	48.29	V-C	2.9432E+05	-4.600	6.000	1.000
1.000	54.29	0.000	0.000	SAL_158_160_L_0							
94 D	2.753	0.000	81.85	48.56	81.85	48.56	V-C	2.9432E+05	-4.650	6.500	1.000
1.000	55.06	0.000	0.000	SAL_158_160_L_0							
95 D	2.791	0.000	82.30	48.83	82.30	48.83	V-C	2.9432E+05	-4.700	7.000	1.000
1.000	55.83	0.000	0.000	SAL_158_160_L_0							
96 D	2.830	0.000	82.75	49.10	82.75	49.10	V-C	2.9432E+05	-4.750	7.500	1.000
1.000	56.60	0.000	0.000	SAL_158_160_L_0							
97 D	2.868	0.000	83.20	49.36	83.20	49.36	V-C	2.9432E+05	-4.800	8.000	1.000
1.000	57.36	0.000	0.000	SAL_158_160_L_0							
98 D	2.906	0.000	83.65	49.63	83.65	49.63	V-C	2.9432E+05	-4.850	8.500	1.000
1.000	58.13	0.000	0.000	SAL_158_160_L_0							
99 D	2.945	0.000	84.10	49.90	84.10	49.90	V-C	2.9432E+05	-4.900	9.000	1.000
1.000	58.90	0.000	0.000	SAL_158_160_L_0							
100 D	2.983	0.000	84.55	50.16	84.55	50.16	V-C	2.9432E+05	-4.950	9.500	1.000
1.000	59.66	0.000	0.000	SAL_158_160_L_0							
101 D	3.022	0.000	85.00	50.43	85.00	50.43	V-C	2.9432E+05	-5.000	10.00	1.000
1.000	60.43	0.000	0.000	SAL_158_160_L_0							
102 D	3.060	0.000	85.45	50.70	85.45	50.70	V-C	2.9432E+05	-5.050	10.50	1.000
1.000	61.20	0.000	0.000	SAL_158_160_L_0							
103 D	3.098	0.000	85.90	50.96	85.90	50.96	V-C	2.9432E+05	-5.100	11.00	1.000
1.000	61.96	0.000	0.000	SAL_158_160_L_0							
104 D	3.137	0.000	86.35	51.23	86.35	51.23	V-C	2.9432E+05	-5.150	11.50	1.000
1.000	62.73	0.000	0.000	SAL_158_160_L_0							
105 D	3.175	0.000	86.80	51.50	86.80	51.50	V-C	2.9432E+05	-5.200	12.00	1.000
1.000	63.50	0.000	0.000	SAL_158_160_L_0							
106 D	3.213	0.000	87.25	51.77	87.25	51.77	V-C	2.9432E+05	-5.250	12.50	1.000
1.000	64.27	0.000	0.000	SAL_158_160_L_0							
107 D	3.252	0.000	87.70	52.03	87.70	52.03	V-C	2.9432E+05	-5.300	13.00	1.000
1.000	65.03	0.000	0.000	SAL_158_160_L_0							
108 D	3.290	0.000	88.15	52.30	88.15	52.30	V-C	2.9432E+05	-5.350	13.50	1.000
1.000	65.80	0.000	0.000	SAL_158_160_L_0							
109 D	3.328	0.000	88.60	52.57	88.60	52.57	V-C	2.9432E+05	-5.400	14.00	1.000

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	103 di 401

1.000	66.57	0.000	0.000	5AL_158_160_L_0							
110 D	3.367	0.000	89.05	52.83	89.05	52.83	V-C	2.9432E+05	-5.450	14.50	1.000
1.000	67.33	0.000	0.000	5AL_158_160_L_0							
111 D	3.405	0.000	89.50	53.10	89.50	53.10	V-C	2.9432E+05	-5.500	15.00	1.000
1.000	68.10	0.000	0.000	5AL_158_160_L_0							
112 D	3.443	0.000	89.95	53.37	89.95	53.37	V-C	2.9432E+05	-5.550	15.50	1.000
1.000	68.87	0.000	0.000	5AL_158_160_L_0							
113 D	3.482	0.000	90.40	53.63	90.40	53.63	V-C	2.9432E+05	-5.600	16.00	1.000
1.000	69.63	0.000	0.000	5AL_158_160_L_0							
114 D	3.520	0.000	90.85	53.90	90.85	53.90	V-C	2.9432E+05	-5.650	16.50	1.000
1.000	70.40	0.000	0.000	5AL_158_160_L_0							
115 D	3.558	0.000	91.30	54.17	91.30	54.17	V-C	2.9432E+05	-5.700	17.00	1.000
1.000	71.17	0.000	0.000	5AL_158_160_L_0							
116 D	3.597	0.000	91.75	54.44	91.75	54.44	V-C	2.9432E+05	-5.750	17.50	1.000
1.000	71.94	0.000	0.000	5AL_158_160_L_0							
117 D	3.635	0.000	92.20	54.70	92.20	54.70	V-C	2.9432E+05	-5.800	18.00	1.000
1.000	72.70	0.000	0.000	5AL_158_160_L_0							
118 D	3.673	0.000	92.65	54.97	92.65	54.97	V-C	2.9432E+05	-5.850	18.50	1.000
1.000	73.47	0.000	0.000	5AL_158_160_L_0							
119 D	3.712	0.000	93.10	55.24	93.10	55.24	V-C	2.9432E+05	-5.900	19.00	1.000
1.000	74.24	0.000	0.000	5AL_158_160_L_0							
120 D	3.750	0.000	93.55	55.50	93.55	55.50	V-C	2.9432E+05	-5.950	19.50	1.000
1.000	75.00	0.000	0.000	5AL_158_160_L_0							
121 D	3.789	0.000	94.00	55.77	94.00	55.77	V-C	2.9432E+05	-6.000	20.00	1.000
1.000	75.77	0.000	0.000	5AL_158_160_L_0							
122 D	3.827	0.000	94.45	56.04	94.45	56.04	V-C	2.9432E+05	-6.050	20.50	1.000
1.000	76.54	0.000	0.000	5AL_158_160_L_0							
123 D	3.865	0.000	94.90	56.30	94.90	56.30	V-C	2.9432E+05	-6.100	21.00	1.000
1.000	77.30	0.000	0.000	5AL_158_160_L_0							
124 D	3.904	0.000	95.35	56.57	95.35	56.57	V-C	2.9432E+05	-6.150	21.50	1.000
1.000	78.07	0.000	0.000	5AL_158_160_L_0							
125 D	3.942	0.000	95.80	56.84	95.80	56.84	V-C	2.9432E+05	-6.200	22.00	1.000
1.000	78.84	0.000	0.000	5AL_158_160_L_0							
126 D	3.980	0.000	96.25	57.11	96.25	57.11	V-C	2.9432E+05	-6.250	22.50	1.000
1.000	79.61	0.000	0.000	5AL_158_160_L_0							
127 D	4.019	0.000	96.70	57.37	96.70	57.37	V-C	2.9432E+05	-6.300	23.00	1.000
1.000	80.37	0.000	0.000	5AL_158_160_L_0							
128 D	4.057	0.000	97.15	57.64	97.15	57.64	V-C	2.9432E+05	-6.350	23.50	1.000
1.000	81.14	0.000	0.000	5AL_158_160_L_0							
129 D	4.095	0.000	97.60	57.91	97.60	57.91	V-C	2.9432E+05	-6.400	24.00	1.000
1.000	81.91	0.000	0.000	5AL_158_160_L_0							
130 D	4.134	0.000	98.05	58.17	98.05	58.17	V-C	2.9432E+05	-6.450	24.50	1.000
1.000	82.67	0.000	0.000	5AL_158_160_L_0							
131 D	4.172	0.000	98.50	58.44	98.50	58.44	V-C	2.9432E+05	-6.500	25.00	1.000
1.000	83.44	0.000	0.000	5AL_158_160_L_0							
132 D	4.210	0.000	98.95	58.71	98.95	58.71	V-C	2.9432E+05	-6.550	25.50	1.000
1.000	84.21	0.000	0.000	5AL_158_160_L_0							
133 D	4.249	0.000	99.40	58.97	99.40	58.97	V-C	2.9432E+05	-6.600	26.00	1.000
1.000	84.97	0.000	0.000	5AL_158_160_L_0							
134 D	4.287	0.000	99.85	59.24	99.85	59.24	V-C	2.9432E+05	-6.650	26.50	1.000
1.000	85.74	0.000	0.000	5AL_158_160_L_0							
135 D	4.325	0.000	100.3	59.51	100.3	59.51	V-C	2.9432E+05	-6.700	27.00	1.000
1.000	86.51	0.000	0.000	5AL_158_160_L_0							
136 D	4.364	0.000	100.8	59.78	100.8	59.78	V-C	2.9432E+05	-6.750	27.50	1.000
1.000	87.28	0.000	0.000	5AL_158_160_L_0							
137 D	4.402	0.000	101.2	60.04	101.2	60.04	V-C	2.9432E+05	-6.800	28.00	1.000
1.000	88.04	0.000	0.000	5AL_158_160_L_0							
138 D	4.440	0.000	101.7	60.31	101.7	60.31	V-C	2.9432E+05	-6.850	28.50	1.000
1.000	88.81	0.000	0.000	5AL_158_160_L_0							
139 D	4.479	0.000	102.1	60.58	102.1	60.58	V-C	2.9432E+05	-6.900	29.00	1.000
1.000	89.58	0.000	0.000	5AL_158_160_L_0							
140 D	4.517	0.000	102.6	60.84	102.6	60.84	V-C	2.9432E+05	-6.950	29.50	1.000
1.000	90.34	0.000	0.000	5AL_158_160_L_0							
141 D	4.556	0.000	103.0	61.11	103.0	61.11	V-C	2.9432E+05	-7.000	30.00	1.000
1.000	91.11	0.000	0.000	5AL_158_160_L_0							
142 D	4.594	0.000	103.5	61.38	103.5	61.38	V-C	2.9432E+05	-7.050	30.50	1.000
1.000	91.88	0.000	0.000	5AL_158_160_L_0							
143 D	4.632	0.000	103.9	61.64	103.9	61.64	V-C	2.9432E+05	-7.100	31.00	1.000
1.000	92.64	0.000	0.000	5AL_158_160_L_0							
144 D	4.671	0.000	104.4	61.91	104.4	61.91	V-C	2.9432E+05	-7.150	31.50	1.000
1.000	93.41	0.000	0.000	5AL_158_160_L_0							
145 D	4.709	0.000	104.8	62.18	104.8	62.18	V-C	2.9432E+05	-7.200	32.00	1.000
1.000	94.18	0.000	0.000	5AL_158_160_L_0							
146 D	4.747	0.000	105.3	62.44	105.3	62.44	V-C	2.9432E+05	-7.250	32.50	1.000
1.000	94.94	0.000	0.000	5AL_158_160_L_0							
147 D	4.786	0.000	105.7	62.71	105.7	62.71	V-C	2.9432E+05	-7.300	33.00	1.000
1.000	95.71	0.000	0.000	5AL_158_160_L_0							
148 D	4.824	0.000	106.2	62.98	106.2	62.98	V-C	2.9432E+05	-7.350	33.50	1.000
1.000	96.48	0.000	0.000	5AL_158_160_L_0							
149 D	4.862	0.000	106.6	63.25	106.6	63.25	V-C	2.9432E+05	-7.400	34.00	1.000
1.000	97.25	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	104 di 401

RELAZIONE DI CALCOLO

150 D	4.901	0.000	107.1	63.51	107.1	63.51	V-C	2.9432E+05	-7.450	34.50	1.000
1.000	98.01	0.000	0.000	SAL_158_160_L_0							
151 D	4.939	0.000	107.5	63.78	107.5	63.78	V-C	2.9432E+05	-7.500	35.00	1.000
1.000	98.78	0.000	0.000	SAL_158_160_L_0							
152 D	4.977	0.000	108.0	64.05	108.0	64.05	V-C	2.9432E+05	-7.550	35.50	1.000
1.000	99.55	0.000	0.000	SAL_158_160_L_0							
153 D	5.016	0.000	108.4	64.31	108.4	64.31	V-C	2.9432E+05	-7.600	36.00	1.000
1.000	100.3	0.000	0.000	SAL_158_160_L_0							
154 D	5.054	0.000	108.9	64.58	108.9	64.58	V-C	2.9432E+05	-7.650	36.50	1.000
1.000	101.1	0.000	0.000	SAL_158_160_L_0							
155 D	5.092	0.000	109.3	64.85	109.3	64.85	V-C	2.9432E+05	-7.700	37.00	1.000
1.000	101.8	0.000	0.000	SAL_158_160_L_0							
156 D	5.131	0.000	109.8	65.11	109.8	65.11	V-C	2.9432E+05	-7.750	37.50	1.000
1.000	102.6	0.000	0.000	SAL_158_160_L_0							
157 D	5.169	0.000	110.2	65.38	110.2	65.38	V-C	2.9432E+05	-7.800	38.00	1.000
1.000	103.4	0.000	0.000	SAL_158_160_L_0							
158 D	5.207	0.000	110.7	65.65	110.7	65.65	V-C	2.9432E+05	-7.850	38.50	1.000
1.000	104.1	0.000	0.000	SAL_158_160_L_0							
159 D	5.246	0.000	111.1	65.92	111.1	65.92	V-C	2.9432E+05	-7.900	39.00	1.000
1.000	104.9	0.000	0.000	SAL_158_160_L_0							
160 D	5.284	0.000	111.6	66.18	111.6	66.18	V-C	2.9432E+05	-7.950	39.50	1.000
1.000	105.7	0.000	0.000	SAL_158_160_L_0							
161 D	5.322	0.000	112.0	66.45	112.0	66.45	V-C	2.9432E+05	-8.000	40.00	1.000
1.000	106.4	0.000	0.000	SAL_158_160_L_0							
162 D	5.361	0.000	112.5	66.72	112.5	66.72	V-C	2.9432E+05	-8.050	40.50	1.000
1.000	107.2	0.000	0.000	SAL_158_160_L_0							
163 D	5.399	0.000	112.9	66.98	112.9	66.98	V-C	2.9432E+05	-8.100	41.00	1.000
1.000	108.0	0.000	0.000	SAL_158_160_L_0							
164 D	5.438	0.000	113.4	67.25	113.4	67.25	V-C	2.9432E+05	-8.150	41.50	1.000
1.000	108.8	0.000	0.000	SAL_158_160_L_0							
165 D	5.476	0.000	113.8	67.52	113.8	67.52	V-C	2.9432E+05	-8.200	42.00	1.000
1.000	109.5	0.000	0.000	SAL_158_160_L_0							
166 D	5.514	0.000	114.3	67.78	114.3	67.78	V-C	2.9432E+05	-8.250	42.50	1.000
1.000	110.3	0.000	0.000	SAL_158_160_L_0							
167 D	5.553	0.000	114.7	68.05	114.7	68.05	V-C	2.9432E+05	-8.300	43.00	1.000
1.000	111.1	0.000	0.000	SAL_158_160_L_0							
168 D	5.591	0.000	115.2	68.32	115.2	68.32	V-C	2.9432E+05	-8.350	43.50	1.000
1.000	111.8	0.000	0.000	SAL_158_160_L_0							
169 D	5.629	0.000	115.6	68.59	115.6	68.59	V-C	2.9432E+05	-8.400	44.00	1.000
1.000	112.6	0.000	0.000	SAL_158_160_L_0							
170 D	5.668	0.000	116.1	68.85	116.1	68.85	V-C	2.9432E+05	-8.450	44.50	1.000
1.000	113.4	0.000	0.000	SAL_158_160_L_0							
171 D	5.706	0.000	116.5	69.12	116.5	69.12	V-C	2.9432E+05	-8.500	45.00	1.000
1.000	114.1	0.000	0.000	SAL_158_160_L_0							
172 D	5.744	0.000	117.0	69.39	117.0	69.39	V-C	2.9432E+05	-8.550	45.50	1.000
1.000	114.9	0.000	0.000	SAL_158_160_L_0							
173 D	5.783	0.000	117.4	69.65	117.4	69.65	V-C	2.9432E+05	-8.600	46.00	1.000
1.000	115.7	0.000	0.000	SAL_158_160_L_0							
174 D	5.821	0.000	117.9	69.92	117.9	69.92	V-C	2.9432E+05	-8.650	46.50	1.000
1.000	116.4	0.000	0.000	SAL_158_160_L_0							
175 D	5.859	0.000	118.3	70.19	118.3	70.19	V-C	2.9432E+05	-8.700	47.00	1.000
1.000	117.2	0.000	0.000	SAL_158_160_L_0							
176 D	5.898	0.000	118.8	70.45	118.8	70.45	V-C	2.9432E+05	-8.750	47.50	1.000
1.000	118.0	0.000	0.000	SAL_158_160_L_0							
177 D	5.936	0.000	119.2	70.72	119.2	70.72	V-C	2.9432E+05	-8.800	48.00	1.000
1.000	118.7	0.000	0.000	SAL_158_160_L_0							
178 D	5.974	0.000	119.7	70.99	119.7	70.99	V-C	2.9432E+05	-8.850	48.50	1.000
1.000	119.5	0.000	0.000	SAL_158_160_L_0							
179 D	6.013	0.000	120.1	71.26	120.1	71.26	V-C	2.9432E+05	-8.900	49.00	1.000
1.000	120.3	0.000	0.000	SAL_158_160_L_0							
180 D	6.051	0.000	120.6	71.52	120.6	71.52	V-C	2.9432E+05	-8.950	49.50	1.000
1.000	121.0	0.000	0.000	SAL_158_160_L_0							
181 D	6.089	0.000	121.0	71.79	121.0	71.79	V-C	2.9432E+05	-9.000	50.00	1.000
1.000	121.8	0.000	0.000	SAL_158_160_L_0							
182 D	6.128	0.000	121.5	72.06	121.5	72.06	V-C	2.9432E+05	-9.050	50.50	1.000
1.000	122.6	0.000	0.000	SAL_158_160_L_0							
183 D	6.166	0.000	121.9	72.32	121.9	72.32	V-C	2.9432E+05	-9.100	51.00	1.000
1.000	123.3	0.000	0.000	SAL_158_160_L_0							
184 D	6.205	0.000	122.4	72.59	122.4	72.59	V-C	2.9432E+05	-9.150	51.50	1.000
1.000	124.1	0.000	0.000	SAL_158_160_L_0							
185 D	6.243	0.000	122.8	72.86	122.8	72.86	V-C	2.9432E+05	-9.200	52.00	1.000
1.000	124.9	0.000	0.000	SAL_158_160_L_0							
186 D	6.281	0.000	123.3	73.12	123.3	73.12	V-C	2.9432E+05	-9.250	52.50	1.000
1.000	125.6	0.000	0.000	SAL_158_160_L_0							
187 D	6.320	0.000	123.7	73.39	123.7	73.39	V-C	2.9432E+05	-9.300	53.00	1.000
1.000	126.4	0.000	0.000	SAL_158_160_L_0							
188 D	6.358	0.000	124.2	73.66	124.2	73.66	V-C	2.9432E+05	-9.350	53.50	1.000
1.000	127.2	0.000	0.000	SAL_158_160_L_0							
189 D	6.396	0.000	124.6	73.93	124.6	73.93	V-C	2.9432E+05	-9.400	54.00	1.000
1.000	127.9	0.000	0.000	SAL_158_160_L_0							
190 D	6.435	0.000	125.1	74.19	125.1	74.19	V-C	2.9432E+05	-9.450	54.50	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	105 di 401

1.000	128.7	0.000	0.000	SAL_158_160_L_0							
191 D	6.473	0.000	125.5	74.46	125.5	74.46	V-C	2.9432E+05	-9.500	55.00	1.000
1.000	129.5	0.000	0.000	SAL_158_160_L_0							
192 D	6.511	0.000	126.0	74.73	126.0	74.73	V-C	2.9432E+05	-9.550	55.50	1.000
1.000	130.2	0.000	0.000	SAL_158_160_L_0							
193 D	6.550	0.000	126.4	74.99	126.4	74.99	V-C	2.9432E+05	-9.600	56.00	1.000
1.000	131.0	0.000	0.000	SAL_158_160_L_0							
194 D	6.588	0.000	126.9	75.26	126.9	75.26	V-C	2.9432E+05	-9.650	56.50	1.000
1.000	131.8	0.000	0.000	SAL_158_160_L_0							
195 D	6.626	0.000	127.3	75.53	127.3	75.53	V-C	2.9432E+05	-9.700	57.00	1.000
1.000	132.5	0.000	0.000	SAL_158_160_L_0							
196 D	6.665	0.000	127.8	75.79	127.8	75.79	V-C	2.9432E+05	-9.750	57.50	1.000
1.000	133.3	0.000	0.000	SAL_158_160_L_0							
197 D	6.703	0.000	128.2	76.06	128.2	76.06	V-C	2.9432E+05	-9.800	58.00	1.000
1.000	134.1	0.000	0.000	SAL_158_160_L_0							
198 D	6.741	0.000	128.7	76.33	128.7	76.33	V-C	2.9432E+05	-9.850	58.50	1.000
1.000	134.8	0.000	0.000	SAL_158_160_L_0							
199 D	6.780	0.000	129.1	76.60	129.1	76.60	V-C	2.9432E+05	-9.900	59.00	1.000
1.000	135.6	0.000	0.000	SAL_158_160_L_0							
200 D	6.817	0.000	129.6	76.86	129.6	76.86	V-C	2.9432E+05	-9.950	59.50	1.000
1.000	136.4	0.000	0.000	SAL_158_160_L_0							
201 D	3.427	0.000	130.0	77.13	130.0	77.13	V-C	2.9432E+05	-10.00	60.00	1.000
1.000	137.1	0.000	0.000	SAL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SLERara_896
Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

O.R
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
UFACTOR	Peq		Su_a	Su_p	LAYER						
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.3890E+05	0.000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	SAL_158_160_L_0						
2 D	2.8182E-02	0.000	0.9500	0.5636	0.9500	0.5636	V-C	2.3890E+05	-5.0000E-02	0.000	1.000
1.000	0.5636	0.000	0.000	0.000	SAL_158_160_L_0						
3 D	5.6364E-02	0.000	1.900	1.127	1.900	1.127	V-C	2.3890E+05	-0.1000	0.000	1.000
1.000	1.127	0.000	0.000	0.000	SAL_158_160_L_0						
4 D	8.4545E-02	0.000	2.850	1.691	2.850	1.691	V-C	2.3890E+05	-0.1500	0.000	1.000
1.000	1.691	0.000	0.000	0.000	SAL_158_160_L_0						
5 D	0.1127	0.000	3.800	2.255	3.800	2.255	V-C	2.3890E+05	-0.2000	0.000	1.000
1.000	2.255	0.000	0.000	0.000	SAL_158_160_L_0						
6 D	0.1409	0.000	4.750	2.818	4.750	2.818	V-C	2.3890E+05	-0.2500	0.000	1.000
1.000	2.818	0.000	0.000	0.000	SAL_158_160_L_0						
7 D	0.1691	0.000	5.700	3.382	5.700	3.382	V-C	2.3890E+05	-0.3000	0.000	1.000
1.000	3.382	0.000	0.000	0.000	SAL_158_160_L_0						
8 D	0.1973	0.000	6.650	3.945	6.650	3.945	V-C	2.3890E+05	-0.3500	0.000	1.000
1.000	3.945	0.000	0.000	0.000	SAL_158_160_L_0						
9 D	0.2255	0.000	7.600	4.509	7.600	4.509	V-C	2.3890E+05	-0.4000	0.000	1.000
1.000	4.509	0.000	0.000	0.000	SAL_158_160_L_0						
10 D	0.2536	0.000	8.550	5.073	8.550	5.073	V-C	2.3890E+05	-0.4500	0.000	1.000
1.000	5.073	0.000	0.000	0.000	SAL_158_160_L_0						
11 D	0.2818	0.000	9.500	5.636	9.500	5.636	V-C	2.3890E+05	-0.5000	0.000	1.000
1.000	5.636	0.000	0.000	0.000	SAL_158_160_L_0						
12 D	0.3100	0.000	10.45	6.200	10.45	6.200	V-C	2.3890E+05	-0.5500	0.000	1.000
1.000	6.200	0.000	0.000	0.000	SAL_158_160_L_0						
13 D	0.3382	0.000	11.40	6.764	11.40	6.764	V-C	2.3890E+05	-0.6000	0.000	1.000
1.000	6.764	0.000	0.000	0.000	SAL_158_160_L_0						
14 D	0.3664	0.000	12.35	7.327	12.35	7.327	V-C	2.3890E+05	-0.6500	0.000	1.000
1.000	7.327	0.000	0.000	0.000	SAL_158_160_L_0						
15 D	0.3945	0.000	13.30	7.891	13.30	7.891	V-C	2.3890E+05	-0.7000	0.000	1.000
1.000	7.891	0.000	0.000	0.000	SAL_158_160_L_0						
16 D	0.4227	0.000	14.25	8.455	14.25	8.455	V-C	2.3890E+05	-0.7500	0.000	1.000
1.000	8.455	0.000	0.000	0.000	SAL_158_160_L_0						

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	106 di 401

17 D	0.4509	0.000	15.20	9.018	15.20	9.018	V-C	2.3890E+05	-0.8000	0.000	1.000
1.000	9.018	0.000	0.000	SAL_158_160_L_0							
18 D	0.4791	0.000	16.15	9.582	16.15	9.582	V-C	2.3890E+05	-0.8500	0.000	1.000
1.000	9.582	0.000	0.000	SAL_158_160_L_0							
19 D	0.5073	0.000	17.10	10.15	17.10	10.15	V-C	2.3890E+05	-0.9000	0.000	1.000
1.000	10.15	0.000	0.000	SAL_158_160_L_0							
20 D	0.5355	0.000	18.05	10.71	18.05	10.71	V-C	2.3890E+05	-0.9500	0.000	1.000
1.000	10.71	0.000	0.000	SAL_158_160_L_0							
21 D	0.5636	0.000	19.00	11.27	19.00	11.27	V-C	2.3890E+05	-1.000	0.000	1.000
1.000	11.27	0.000	0.000	SAL_158_160_L_0							
22 D	0.5918	0.000	19.95	11.84	19.95	11.84	V-C	2.3890E+05	-1.050	0.000	1.000
1.000	11.84	0.000	0.000	SAL_158_160_L_0							
23 D	0.6200	0.000	20.90	12.40	20.90	12.40	V-C	2.3890E+05	-1.100	0.000	1.000
1.000	12.40	0.000	0.000	SAL_158_160_L_0							
24 D	0.6482	0.000	21.85	12.96	21.85	12.96	V-C	2.3890E+05	-1.150	0.000	1.000
1.000	12.96	0.000	0.000	SAL_158_160_L_0							
25 D	0.6764	0.000	22.80	13.53	22.80	13.53	V-C	2.3890E+05	-1.200	0.000	1.000
1.000	13.53	0.000	0.000	SAL_158_160_L_0							
26 D	0.7045	0.000	23.75	14.09	23.75	14.09	V-C	2.3890E+05	-1.250	0.000	1.000
1.000	14.09	0.000	0.000	SAL_158_160_L_0							
27 D	0.7327	0.000	24.70	14.65	24.70	14.65	V-C	2.3890E+05	-1.300	0.000	1.000
1.000	14.65	0.000	0.000	SAL_158_160_L_0							
28 D	0.7609	0.000	25.65	15.22	25.65	15.22	V-C	2.3890E+05	-1.350	0.000	1.000
1.000	15.22	0.000	0.000	SAL_158_160_L_0							
29 D	0.7891	0.000	26.60	15.78	26.60	15.78	V-C	2.3890E+05	-1.400	0.000	1.000
1.000	15.78	0.000	0.000	SAL_158_160_L_0							
30 D	0.8173	0.000	27.55	16.35	27.55	16.35	V-C	2.3890E+05	-1.450	0.000	1.000
1.000	16.35	0.000	0.000	SAL_158_160_L_0							
31 D	0.8455	0.000	28.50	16.91	28.50	16.91	V-C	2.3890E+05	-1.500	0.000	1.000
1.000	16.91	0.000	0.000	SAL_158_160_L_0							
32 D	0.8736	0.000	29.45	17.47	29.45	17.47	V-C	2.3890E+05	-1.550	0.000	1.000
1.000	17.47	0.000	0.000	SAL_158_160_L_0							
33 D	0.9018	0.000	30.40	18.04	30.40	18.04	V-C	2.3890E+05	-1.600	0.000	1.000
1.000	18.04	0.000	0.000	SAL_158_160_L_0							
34 D	0.9300	0.000	31.35	18.60	31.35	18.60	V-C	2.3890E+05	-1.650	0.000	1.000
1.000	18.60	0.000	0.000	SAL_158_160_L_0							
35 D	0.9582	0.000	32.30	19.16	32.30	19.16	V-C	2.3890E+05	-1.700	0.000	1.000
1.000	19.16	0.000	0.000	SAL_158_160_L_0							
36 D	0.9864	0.000	33.25	19.73	33.25	19.73	V-C	2.3890E+05	-1.750	0.000	1.000
1.000	19.73	0.000	0.000	SAL_158_160_L_0							
37 D	1.015	0.000	34.20	20.29	34.20	20.29	V-C	2.3890E+05	-1.800	0.000	1.000
1.000	20.29	0.000	0.000	SAL_158_160_L_0							
38 D	1.043	0.000	35.15	20.85	35.15	20.85	V-C	2.3890E+05	-1.850	0.000	1.000
1.000	20.85	0.000	0.000	SAL_158_160_L_0							
39 D	1.071	0.000	36.10	21.42	36.10	21.42	V-C	2.3890E+05	-1.900	0.000	1.000
1.000	21.42	0.000	0.000	SAL_158_160_L_0							
40 D	1.099	0.000	37.05	21.98	37.05	21.98	V-C	2.3890E+05	-1.950	0.000	1.000
1.000	21.98	0.000	0.000	SAL_158_160_L_0							
41 D	1.127	0.000	38.00	22.55	38.00	22.55	V-C	2.3890E+05	-2.000	0.000	1.000
1.000	22.55	0.000	0.000	SAL_158_160_L_0							
42 D	1.155	0.000	38.95	23.11	38.95	23.11	V-C	2.3890E+05	-2.050	0.000	1.000
1.000	23.11	0.000	0.000	SAL_158_160_L_0							
43 D	1.184	0.000	39.90	23.67	39.90	23.67	V-C	2.3890E+05	-2.100	0.000	1.000
1.000	23.67	0.000	0.000	SAL_158_160_L_0							
44 D	1.212	0.000	40.85	24.24	40.85	24.24	V-C	2.3890E+05	-2.150	0.000	1.000
1.000	24.24	0.000	0.000	SAL_158_160_L_0							
45 D	1.240	0.000	41.80	24.80	41.80	24.80	V-C	2.3890E+05	-2.200	0.000	1.000
1.000	24.80	0.000	0.000	SAL_158_160_L_0							
46 D	1.268	0.000	42.75	25.36	42.75	25.36	V-C	2.3890E+05	-2.250	0.000	1.000
1.000	25.36	0.000	0.000	SAL_158_160_L_0							
47 D	1.296	0.000	43.70	25.93	43.70	25.93	V-C	2.3890E+05	-2.300	0.000	1.000
1.000	25.93	0.000	0.000	SAL_158_160_L_0							
48 D	1.325	0.000	44.65	26.49	44.65	26.49	V-C	2.3890E+05	-2.350	0.000	1.000
1.000	26.49	0.000	0.000	SAL_158_160_L_0							
49 D	1.353	0.000	45.60	27.05	45.60	27.05	V-C	2.3890E+05	-2.400	0.000	1.000
1.000	27.05	0.000	0.000	SAL_158_160_L_0							
50 D	1.381	0.000	46.55	27.62	46.55	27.62	V-C	2.3890E+05	-2.450	0.000	1.000
1.000	27.62	0.000	0.000	SAL_158_160_L_0							
51 D	1.409	0.000	47.50	28.18	47.50	28.18	V-C	2.3890E+05	-2.500	0.000	1.000
1.000	28.18	0.000	0.000	SAL_158_160_L_0							
52 D	1.437	0.000	48.45	28.75	48.45	28.75	V-C	2.3890E+05	-2.550	0.000	1.000
1.000	28.75	0.000	0.000	SAL_158_160_L_0							
53 D	1.465	0.000	49.40	29.31	49.40	29.31	V-C	2.3890E+05	-2.600	0.000	1.000
1.000	29.31	0.000	0.000	SAL_158_160_L_0							
54 D	1.494	0.000	50.35	29.87	50.35	29.87	V-C	2.3890E+05	-2.650	0.000	1.000
1.000	29.87	0.000	0.000	SAL_158_160_L_0							
55 D	1.522	0.000	51.30	30.44	51.30	30.44	V-C	2.3890E+05	-2.700	0.000	1.000
1.000	30.44	0.000	0.000	SAL_158_160_L_0							
56 D	1.550	0.000	52.25	31.00	52.25	31.00	V-C	2.3890E+05	-2.750	0.000	1.000
1.000	31.00	0.000	0.000	SAL_158_160_L_0							
57 D	1.578	0.000	53.20	31.56	53.20	31.56	V-C	2.3890E+05	-2.800	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	107 di 401

1.000		31.56	0.000	0.000	5AL_158_160_L_0						
58 D	1.606	0.000	54.15	32.13	54.15	32.13	V-C	2.3890E+05	-2.850	0.000	1.000
1.000		32.13	0.000	0.000	5AL_158_160_L_0						
59 D	1.635	0.000	55.10	32.69	55.10	32.69	V-C	2.3890E+05	-2.900	0.000	1.000
1.000		32.69	0.000	0.000	5AL_158_160_L_0						
60 D	1.663	0.000	56.05	33.25	56.05	33.25	V-C	2.3890E+05	-2.950	0.000	1.000
1.000		33.25	0.000	0.000	5AL_158_160_L_0						
61 D	1.691	0.000	57.00	33.82	57.00	33.82	V-C	2.3890E+05	-3.000	0.000	1.000
1.000		33.82	0.000	0.000	5AL_158_160_L_0						
62 D	1.719	0.000	57.95	34.38	57.95	34.38	V-C	2.3890E+05	-3.050	0.000	1.000
1.000		34.38	0.000	0.000	5AL_158_160_L_0						
63 D	1.747	0.000	58.90	34.95	58.90	34.95	V-C	2.3890E+05	-3.100	0.000	1.000
1.000		34.95	0.000	0.000	5AL_158_160_L_0						
64 D	1.775	0.000	59.85	35.51	59.85	35.51	V-C	2.3890E+05	-3.150	0.000	1.000
1.000		35.51	0.000	0.000	5AL_158_160_L_0						
65 D	1.804	0.000	60.80	36.07	60.80	36.07	V-C	2.3890E+05	-3.200	0.000	1.000
1.000		36.07	0.000	0.000	5AL_158_160_L_0						
66 D	1.832	0.000	61.75	36.64	61.75	36.64	V-C	2.3890E+05	-3.250	0.000	1.000
1.000		36.64	0.000	0.000	5AL_158_160_L_0						
67 D	1.860	0.000	62.70	37.20	62.70	37.20	V-C	2.3890E+05	-3.300	0.000	1.000
1.000		37.20	0.000	0.000	5AL_158_160_L_0						
68 D	1.888	0.000	63.65	37.76	63.65	37.76	V-C	2.3890E+05	-3.350	0.000	1.000
1.000		37.76	0.000	0.000	5AL_158_160_L_0						
69 D	1.916	0.000	64.60	38.33	64.60	38.33	V-C	2.3890E+05	-3.400	0.000	1.000
1.000		38.33	0.000	0.000	5AL_158_160_L_0						
70 D	1.945	0.000	65.55	38.89	65.55	38.89	V-C	2.3890E+05	-3.450	0.000	1.000
1.000		38.89	0.000	0.000	5AL_158_160_L_0						
71 D	1.973	0.000	66.50	39.45	66.50	39.45	V-C	2.3890E+05	-3.500	0.000	1.000
1.000		39.45	0.000	0.000	5AL_158_160_L_0						
72 D	2.001	0.000	67.45	40.02	67.45	40.02	V-C	2.3890E+05	-3.550	0.000	1.000
1.000		40.02	0.000	0.000	5AL_158_160_L_0						
73 D	2.029	0.000	68.40	40.58	68.40	40.58	V-C	2.3890E+05	-3.600	0.000	1.000
1.000		40.58	0.000	0.000	5AL_158_160_L_0						
74 D	2.057	0.000	69.35	41.15	69.35	41.15	V-C	2.3890E+05	-3.650	0.000	1.000
1.000		41.15	0.000	0.000	5AL_158_160_L_0						
75 D	2.085	0.000	70.30	41.71	70.30	41.71	V-C	2.3890E+05	-3.700	0.000	1.000
1.000		41.71	0.000	0.000	5AL_158_160_L_0						
76 D	2.114	0.000	71.25	42.27	71.25	42.27	V-C	2.3890E+05	-3.750	0.000	1.000
1.000		42.27	0.000	0.000	5AL_158_160_L_0						
77 D	2.142	0.000	72.20	42.84	72.20	42.84	V-C	2.3890E+05	-3.800	0.000	1.000
1.000		42.84	0.000	0.000	5AL_158_160_L_0						
78 D	2.170	0.000	73.15	43.40	73.15	43.40	V-C	2.3890E+05	-3.850	0.000	1.000
1.000		43.40	0.000	0.000	5AL_158_160_L_0						
79 D	2.198	0.000	74.10	43.96	74.10	43.96	V-C	2.3890E+05	-3.900	0.000	1.000
1.000		43.96	0.000	0.000	5AL_158_160_L_0						
80 D	2.226	0.000	75.05	44.53	75.05	44.53	V-C	2.3890E+05	-3.950	0.000	1.000
1.000		44.53	0.000	0.000	5AL_158_160_L_0						
81 D	2.255	0.000	76.00	45.09	76.00	45.09	V-C	2.3890E+05	-4.000	0.000	1.000
1.000		45.09	0.000	0.000	5AL_158_160_L_0						
82 D	2.293	0.000	76.45	45.36	76.45	45.36	V-C	2.3890E+05	-4.050	0.5000	1.000
1.000		45.36	0.000	0.000	5AL_158_160_L_0						
83 D	2.331	0.000	76.90	45.62	76.90	45.62	V-C	2.3890E+05	-4.100	1.000	1.000
1.000		45.62	0.000	0.000	5AL_158_160_L_0						
84 D	2.370	0.000	77.35	45.89	77.35	45.89	V-C	2.3890E+05	-4.150	1.500	1.000
1.000		45.89	0.000	0.000	5AL_158_160_L_0						
85 D	2.408	0.000	77.80	46.16	77.80	46.16	V-C	2.3890E+05	-4.200	2.000	1.000
1.000		46.16	0.000	0.000	5AL_158_160_L_0						
86 D	2.446	0.000	78.25	46.43	78.25	46.43	V-C	2.3890E+05	-4.250	2.500	1.000
1.000		46.43	0.000	0.000	5AL_158_160_L_0						
87 D	2.485	0.000	78.70	46.69	78.70	46.69	V-C	2.3890E+05	-4.300	3.000	1.000
1.000		46.69	0.000	0.000	5AL_158_160_L_0						
88 D	2.523	0.000	79.15	46.96	79.15	46.96	V-C	2.3890E+05	-4.350	3.500	1.000
1.000		46.96	0.000	0.000	5AL_158_160_L_0						
89 D	2.561	0.000	79.60	47.23	79.60	47.23	V-C	2.3890E+05	-4.400	4.000	1.000
1.000		47.23	0.000	0.000	5AL_158_160_L_0						
90 D	2.600	0.000	80.05	47.49	80.05	47.49	V-C	2.3890E+05	-4.450	4.500	1.000
1.000		47.49	0.000	0.000	5AL_158_160_L_0						
91 D	2.638	0.000	80.50	47.76	80.50	47.76	V-C	2.3890E+05	-4.500	5.000	1.000
1.000		47.76	0.000	0.000	5AL_158_160_L_0						
92 D	2.676	0.000	80.95	48.03	80.95	48.03	V-C	2.3890E+05	-4.550	5.500	1.000
1.000		48.03	0.000	0.000	5AL_158_160_L_0						
93 D	2.715	0.000	81.40	48.29	81.40	48.29	V-C	2.3890E+05	-4.600	6.000	1.000
1.000		48.29	0.000	0.000	5AL_158_160_L_0						
94 D	2.753	0.000	81.85	48.56	81.85	48.56	V-C	2.3890E+05	-4.650	6.500	1.000
1.000		48.56	0.000	0.000	5AL_158_160_L_0						
95 D	2.791	0.000	82.30	48.83	82.30	48.83	V-C	2.3890E+05	-4.700	7.000	1.000
1.000		48.83	0.000	0.000	5AL_158_160_L_0						
96 D	2.830	0.000	82.75	49.10	82.75	49.10	V-C	2.3890E+05	-4.750	7.500	1.000
1.000		49.10	0.000	0.000	5AL_158_160_L_0						
97 D	2.868	0.000	83.20	49.36	83.20	49.36	V-C	2.3890E+05	-4.800	8.000	1.000
1.000		49.36	0.000	0.000	5AL_158_160_L_0						
1.000		57.36	0.000	0.000	5AL_158_160_L_0						

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	108 di 401

98 D	2.906	0.000	83.65	49.63	83.65	49.63	V-C	2.3890E+05	-4.850	8.500	1.000
1.000	58.13	0.000	0.000		SAL_158_160_L_0						
99 D	2.945	0.000	84.10	49.90	84.10	49.90	V-C	2.3890E+05	-4.900	9.000	1.000
1.000	58.90	0.000	0.000		SAL_158_160_L_0						
100 D	2.983	0.000	84.55	50.16	84.55	50.16	V-C	2.3890E+05	-4.950	9.500	1.000
1.000	59.66	0.000	0.000		SAL_158_160_L_0						
101 D	3.022	0.000	85.00	50.43	85.00	50.43	V-C	2.3890E+05	-5.000	10.000	1.000
1.000	60.43	0.000	0.000		SAL_158_160_L_0						
102 D	3.060	0.000	85.45	50.70	85.45	50.70	V-C	2.3890E+05	-5.050	10.500	1.000
1.000	61.20	0.000	0.000		SAL_158_160_L_0						
103 D	3.098	0.000	85.90	50.96	85.90	50.96	V-C	2.3890E+05	-5.100	11.000	1.000
1.000	61.96	0.000	0.000		SAL_158_160_L_0						
104 D	3.137	0.000	86.35	51.23	86.35	51.23	V-C	2.3890E+05	-5.150	11.500	1.000
1.000	62.73	0.000	0.000		SAL_158_160_L_0						
105 D	3.175	0.000	86.80	51.50	86.80	51.50	V-C	2.3890E+05	-5.200	12.000	1.000
1.000	63.50	0.000	0.000		SAL_158_160_L_0						
106 D	3.213	0.000	87.25	51.77	87.25	51.77	V-C	2.3890E+05	-5.250	12.500	1.000
1.000	64.27	0.000	0.000		SAL_158_160_L_0						
107 D	3.252	0.000	87.70	52.03	87.70	52.03	V-C	2.3890E+05	-5.300	13.000	1.000
1.000	65.03	0.000	0.000		SAL_158_160_L_0						
108 D	3.290	0.000	88.15	52.30	88.15	52.30	V-C	2.3890E+05	-5.350	13.500	1.000
1.000	65.80	0.000	0.000		SAL_158_160_L_0						
109 D	3.328	0.000	88.60	52.57	88.60	52.57	V-C	2.3890E+05	-5.400	14.000	1.000
1.000	66.57	0.000	0.000		SAL_158_160_L_0						
110 D	3.367	0.000	89.05	52.83	89.05	52.83	V-C	2.3890E+05	-5.450	14.500	1.000
1.000	67.33	0.000	0.000		SAL_158_160_L_0						
111 D	3.405	0.000	89.50	53.10	89.50	53.10	V-C	2.3890E+05	-5.500	15.000	1.000
1.000	68.10	0.000	0.000		SAL_158_160_L_0						
112 D	3.443	0.000	89.95	53.37	89.95	53.37	V-C	2.3890E+05	-5.550	15.500	1.000
1.000	68.87	0.000	0.000		SAL_158_160_L_0						
113 D	3.482	0.000	90.40	53.63	90.40	53.63	V-C	2.3890E+05	-5.600	16.000	1.000
1.000	69.63	0.000	0.000		SAL_158_160_L_0						
114 D	3.520	0.000	90.85	53.90	90.85	53.90	V-C	2.3890E+05	-5.650	16.500	1.000
1.000	70.40	0.000	0.000		SAL_158_160_L_0						
115 D	3.558	0.000	91.30	54.17	91.30	54.17	V-C	2.3890E+05	-5.700	17.000	1.000
1.000	71.17	0.000	0.000		SAL_158_160_L_0						
116 D	3.597	0.000	91.75	54.44	91.75	54.44	V-C	2.3890E+05	-5.750	17.500	1.000
1.000	71.94	0.000	0.000		SAL_158_160_L_0						
117 D	3.635	0.000	92.20	54.70	92.20	54.70	V-C	2.3890E+05	-5.800	18.000	1.000
1.000	72.70	0.000	0.000		SAL_158_160_L_0						
118 D	3.673	0.000	92.65	54.97	92.65	54.97	V-C	2.3890E+05	-5.850	18.500	1.000
1.000	73.47	0.000	0.000		SAL_158_160_L_0						
119 D	3.712	0.000	93.10	55.24	93.10	55.24	V-C	2.3890E+05	-5.900	19.000	1.000
1.000	74.24	0.000	0.000		SAL_158_160_L_0						
120 D	3.750	0.000	93.55	55.50	93.55	55.50	V-C	2.3890E+05	-5.950	19.500	1.000
1.000	75.00	0.000	0.000		SAL_158_160_L_0						
121 D	3.789	0.000	94.00	55.77	94.00	55.77	V-C	2.3890E+05	-6.000	20.000	1.000
1.000	75.77	0.000	0.000		SAL_158_160_L_0						
122 D	3.827	0.000	94.45	56.04	94.45	56.04	V-C	2.3890E+05	-6.050	20.500	1.000
1.000	76.54	0.000	0.000		SAL_158_160_L_0						
123 D	3.865	0.000	94.90	56.30	94.90	56.30	V-C	2.3890E+05	-6.100	21.000	1.000
1.000	77.30	0.000	0.000		SAL_158_160_L_0						
124 D	3.904	0.000	95.35	56.57	95.35	56.57	V-C	2.3890E+05	-6.150	21.500	1.000
1.000	78.07	0.000	0.000		SAL_158_160_L_0						
125 D	3.942	0.000	95.80	56.84	95.80	56.84	V-C	2.3890E+05	-6.200	22.000	1.000
1.000	78.84	0.000	0.000		SAL_158_160_L_0						
126 D	3.980	0.000	96.25	57.11	96.25	57.11	V-C	2.3890E+05	-6.250	22.500	1.000
1.000	79.61	0.000	0.000		SAL_158_160_L_0						
127 D	4.019	0.000	96.70	57.37	96.70	57.37	V-C	2.3890E+05	-6.300	23.000	1.000
1.000	80.37	0.000	0.000		SAL_158_160_L_0						
128 D	4.057	0.000	97.15	57.64	97.15	57.64	V-C	2.3890E+05	-6.350	23.500	1.000
1.000	81.14	0.000	0.000		SAL_158_160_L_0						
129 D	4.095	0.000	97.60	57.91	97.60	57.91	V-C	2.3890E+05	-6.400	24.000	1.000
1.000	81.91	0.000	0.000		SAL_158_160_L_0						
130 D	4.134	0.000	98.05	58.17	98.05	58.17	V-C	2.3890E+05	-6.450	24.500	1.000
1.000	82.67	0.000	0.000		SAL_158_160_L_0						
131 D	4.172	0.000	98.50	58.44	98.50	58.44	V-C	2.3890E+05	-6.500	25.000	1.000
1.000	83.44	0.000	0.000		SAL_158_160_L_0						
132 D	4.210	0.000	98.95	58.71	98.95	58.71	V-C	2.3890E+05	-6.550	25.500	1.000
1.000	84.21	0.000	0.000		SAL_158_160_L_0						
133 D	4.249	0.000	99.40	58.97	99.40	58.97	V-C	2.3890E+05	-6.600	26.000	1.000
1.000	84.97	0.000	0.000		SAL_158_160_L_0						
134 D	4.287	0.000	99.85	59.24	99.85	59.24	V-C	2.3890E+05	-6.650	26.500	1.000
1.000	85.74	0.000	0.000		SAL_158_160_L_0						
135 D	4.325	0.000	100.3	59.51	100.3	59.51	V-C	2.3890E+05	-6.700	27.000	1.000
1.000	86.51	0.000	0.000		SAL_158_160_L_0						
136 D	4.364	0.000	100.8	59.78	100.8	59.78	V-C	2.3890E+05	-6.750	27.500	1.000
1.000	87.28	0.000	0.000		SAL_158_160_L_0						
137 D	4.402	0.000	101.2	60.04	101.2	60.04	V-C	2.3890E+05	-6.800	28.000	1.000
1.000	88.04	0.000	0.000		SAL_158_160_L_0						
138 D	4.440	0.000	101.7	60.31	101.7	60.31	V-C	2.3890E+05	-6.850	28.500	1.000

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COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	109 di 401

1.000	88.81	0.000	0.000	5AL_158_160_L_0							
139 D	4.479	0.000	102.1	60.58	102.1	60.58	V-C	2.3890E+05	-6.900	29.00	1.000
1.000	89.58	0.000	0.000	5AL_158_160_L_0							
140 D	4.517	0.000	102.6	60.84	102.6	60.84	V-C	2.3890E+05	-6.950	29.50	1.000
1.000	90.34	0.000	0.000	5AL_158_160_L_0							
141 D	4.556	0.000	103.0	61.11	103.0	61.11	V-C	2.3890E+05	-7.000	30.00	1.000
1.000	91.11	0.000	0.000	5AL_158_160_L_0							
142 D	4.594	0.000	103.5	61.38	103.5	61.38	V-C	2.3890E+05	-7.050	30.50	1.000
1.000	91.88	0.000	0.000	5AL_158_160_L_0							
143 D	4.632	0.000	103.9	61.64	103.9	61.64	V-C	2.3890E+05	-7.100	31.00	1.000
1.000	92.64	0.000	0.000	5AL_158_160_L_0							
144 D	4.671	0.000	104.4	61.91	104.4	61.91	V-C	2.3890E+05	-7.150	31.50	1.000
1.000	93.41	0.000	0.000	5AL_158_160_L_0							
145 D	4.709	0.000	104.8	62.18	104.8	62.18	V-C	2.3890E+05	-7.200	32.00	1.000
1.000	94.18	0.000	0.000	5AL_158_160_L_0							
146 D	4.747	0.000	105.3	62.44	105.3	62.44	V-C	2.3890E+05	-7.250	32.50	1.000
1.000	94.94	0.000	0.000	5AL_158_160_L_0							
147 D	4.786	0.000	105.7	62.71	105.7	62.71	V-C	2.3890E+05	-7.300	33.00	1.000
1.000	95.71	0.000	0.000	5AL_158_160_L_0							
148 D	4.824	0.000	106.2	62.98	106.2	62.98	V-C	2.3890E+05	-7.350	33.50	1.000
1.000	96.48	0.000	0.000	5AL_158_160_L_0							
149 D	4.862	0.000	106.6	63.25	106.6	63.25	V-C	2.3890E+05	-7.400	34.00	1.000
1.000	97.25	0.000	0.000	5AL_158_160_L_0							
150 D	4.901	0.000	107.1	63.51	107.1	63.51	V-C	2.3890E+05	-7.450	34.50	1.000
1.000	98.01	0.000	0.000	5AL_158_160_L_0							
151 D	4.939	0.000	107.5	63.78	107.5	63.78	V-C	2.3890E+05	-7.500	35.00	1.000
1.000	98.78	0.000	0.000	5AL_158_160_L_0							
152 D	4.977	0.000	108.0	64.05	108.0	64.05	V-C	2.3890E+05	-7.550	35.50	1.000
1.000	99.55	0.000	0.000	5AL_158_160_L_0							
153 D	5.016	0.000	108.4	64.31	108.4	64.31	V-C	2.3890E+05	-7.600	36.00	1.000
1.000	100.3	0.000	0.000	5AL_158_160_L_0							
154 D	5.054	0.000	108.9	64.58	108.9	64.58	V-C	2.3890E+05	-7.650	36.50	1.000
1.000	101.1	0.000	0.000	5AL_158_160_L_0							
155 D	5.092	0.000	109.3	64.85	109.3	64.85	V-C	2.3890E+05	-7.700	37.00	1.000
1.000	101.8	0.000	0.000	5AL_158_160_L_0							
156 D	5.131	0.000	109.8	65.11	109.8	65.11	V-C	2.3890E+05	-7.750	37.50	1.000
1.000	102.6	0.000	0.000	5AL_158_160_L_0							
157 D	5.169	0.000	110.2	65.38	110.2	65.38	V-C	2.3890E+05	-7.800	38.00	1.000
1.000	103.4	0.000	0.000	5AL_158_160_L_0							
158 D	5.207	0.000	110.7	65.65	110.7	65.65	V-C	2.3890E+05	-7.850	38.50	1.000
1.000	104.1	0.000	0.000	5AL_158_160_L_0							
159 D	5.246	0.000	111.1	65.92	111.1	65.92	V-C	2.3890E+05	-7.900	39.00	1.000
1.000	104.9	0.000	0.000	5AL_158_160_L_0							
160 D	5.284	0.000	111.6	66.18	111.6	66.18	V-C	2.3890E+05	-7.950	39.50	1.000
1.000	105.7	0.000	0.000	5AL_158_160_L_0							
161 D	5.322	0.000	112.0	66.45	112.0	66.45	V-C	2.3890E+05	-8.000	40.00	1.000
1.000	106.4	0.000	0.000	5AL_158_160_L_0							
162 D	5.361	0.000	112.5	66.72	112.5	66.72	V-C	2.3890E+05	-8.050	40.50	1.000
1.000	107.2	0.000	0.000	5AL_158_160_L_0							
163 D	5.399	0.000	112.9	66.98	112.9	66.98	V-C	2.3890E+05	-8.100	41.00	1.000
1.000	108.0	0.000	0.000	5AL_158_160_L_0							
164 D	5.438	0.000	113.4	67.25	113.4	67.25	V-C	2.3890E+05	-8.150	41.50	1.000
1.000	108.8	0.000	0.000	5AL_158_160_L_0							
165 D	5.476	0.000	113.8	67.52	113.8	67.52	V-C	2.3890E+05	-8.200	42.00	1.000
1.000	109.5	0.000	0.000	5AL_158_160_L_0							
166 D	5.514	0.000	114.3	67.78	114.3	67.78	V-C	2.3890E+05	-8.250	42.50	1.000
1.000	110.3	0.000	0.000	5AL_158_160_L_0							
167 D	5.553	0.000	114.7	68.05	114.7	68.05	V-C	2.3890E+05	-8.300	43.00	1.000
1.000	111.1	0.000	0.000	5AL_158_160_L_0							
168 D	5.591	0.000	115.2	68.32	115.2	68.32	V-C	2.3890E+05	-8.350	43.50	1.000
1.000	111.8	0.000	0.000	5AL_158_160_L_0							
169 D	5.629	0.000	115.6	68.59	115.6	68.59	V-C	2.3890E+05	-8.400	44.00	1.000
1.000	112.6	0.000	0.000	5AL_158_160_L_0							
170 D	5.668	0.000	116.1	68.85	116.1	68.85	V-C	2.3890E+05	-8.450	44.50	1.000
1.000	113.4	0.000	0.000	5AL_158_160_L_0							
171 D	5.706	0.000	116.5	69.12	116.5	69.12	V-C	2.3890E+05	-8.500	45.00	1.000
1.000	114.1	0.000	0.000	5AL_158_160_L_0							
172 D	5.744	0.000	117.0	69.39	117.0	69.39	V-C	2.3890E+05	-8.550	45.50	1.000
1.000	114.9	0.000	0.000	5AL_158_160_L_0							
173 D	5.783	0.000	117.4	69.65	117.4	69.65	V-C	2.3890E+05	-8.600	46.00	1.000
1.000	115.7	0.000	0.000	5AL_158_160_L_0							
174 D	5.821	0.000	117.9	69.92	117.9	69.92	V-C	2.3890E+05	-8.650	46.50	1.000
1.000	116.4	0.000	0.000	5AL_158_160_L_0							
175 D	5.859	0.000	118.3	70.19	118.3	70.19	V-C	2.3890E+05	-8.700	47.00	1.000
1.000	117.2	0.000	0.000	5AL_158_160_L_0							
176 D	5.898	0.000	118.8	70.45	118.8	70.45	V-C	2.3890E+05	-8.750	47.50	1.000
1.000	118.0	0.000	0.000	5AL_158_160_L_0							
177 D	5.936	0.000	119.2	70.72	119.2	70.72	V-C	2.3890E+05	-8.800	48.00	1.000
1.000	118.7	0.000	0.000	5AL_158_160_L_0							
178 D	5.974	0.000	119.7	70.99	119.7	70.99	V-C	2.3890E+05	-8.850	48.50	1.000
1.000	119.5	0.000	0.000	5AL_158_160_L_0							



LINEA PESCARA - BARI
 RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:
 Lotto 1: Ripalta - Lesina
 PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
 LI00 01 D 09CL VI0100 004 A 110 di 401

RELAZIONE DI CALCOLO

179 D	6.013	0.000	120.1	71.26	120.1	71.26	V-C	2.3890E+05	-8.900	49.00	1.000
1.000	120.3	0.000	0.000	5AL_158_160_L_0							
180 D	6.051	0.000	120.6	71.52	120.6	71.52	V-C	2.3890E+05	-8.950	49.50	1.000
1.000	121.0	0.000	0.000	5AL_158_160_L_0							
181 D	6.089	0.000	121.0	71.79	121.0	71.79	V-C	2.3890E+05	-9.000	50.00	1.000
1.000	121.8	0.000	0.000	5AL_158_160_L_0							
182 D	6.128	0.000	121.5	72.06	121.5	72.06	V-C	2.3890E+05	-9.050	50.50	1.000
1.000	122.6	0.000	0.000	5AL_158_160_L_0							
183 D	6.166	0.000	121.9	72.32	121.9	72.32	V-C	2.3890E+05	-9.100	51.00	1.000
1.000	123.3	0.000	0.000	5AL_158_160_L_0							
184 D	6.205	0.000	122.4	72.59	122.4	72.59	V-C	2.3890E+05	-9.150	51.50	1.000
1.000	124.1	0.000	0.000	5AL_158_160_L_0							
185 D	6.243	0.000	122.8	72.86	122.8	72.86	V-C	2.3890E+05	-9.200	52.00	1.000
1.000	124.9	0.000	0.000	5AL_158_160_L_0							
186 D	6.281	0.000	123.3	73.12	123.3	73.12	V-C	2.3890E+05	-9.250	52.50	1.000
1.000	125.6	0.000	0.000	5AL_158_160_L_0							
187 D	6.320	0.000	123.7	73.39	123.7	73.39	V-C	2.3890E+05	-9.300	53.00	1.000
1.000	126.4	0.000	0.000	5AL_158_160_L_0							
188 D	6.358	0.000	124.2	73.66	124.2	73.66	V-C	2.3890E+05	-9.350	53.50	1.000
1.000	127.2	0.000	0.000	5AL_158_160_L_0							
189 D	6.396	0.000	124.6	73.93	124.6	73.93	V-C	2.3890E+05	-9.400	54.00	1.000
1.000	127.9	0.000	0.000	5AL_158_160_L_0							
190 D	6.435	0.000	125.1	74.19	125.1	74.19	V-C	2.3890E+05	-9.450	54.50	1.000
1.000	128.7	0.000	0.000	5AL_158_160_L_0							
191 D	6.473	0.000	125.5	74.46	125.5	74.46	V-C	2.3890E+05	-9.500	55.00	1.000
1.000	129.5	0.000	0.000	5AL_158_160_L_0							
192 D	6.511	0.000	126.0	74.73	126.0	74.73	V-C	2.3890E+05	-9.550	55.50	1.000
1.000	130.2	0.000	0.000	5AL_158_160_L_0							
193 D	6.550	0.000	126.4	74.99	126.4	74.99	V-C	2.3890E+05	-9.600	56.00	1.000
1.000	131.0	0.000	0.000	5AL_158_160_L_0							
194 D	6.588	0.000	126.9	75.26	126.9	75.26	V-C	2.3890E+05	-9.650	56.50	1.000
1.000	131.8	0.000	0.000	5AL_158_160_L_0							
195 D	6.626	0.000	127.3	75.53	127.3	75.53	V-C	2.3890E+05	-9.700	57.00	1.000
1.000	132.5	0.000	0.000	5AL_158_160_L_0							
196 D	6.665	0.000	127.8	75.79	127.8	75.79	V-C	2.3890E+05	-9.750	57.50	1.000
1.000	133.3	0.000	0.000	5AL_158_160_L_0							
197 D	6.703	0.000	128.2	76.06	128.2	76.06	V-C	2.3890E+05	-9.800	58.00	1.000
1.000	134.1	0.000	0.000	5AL_158_160_L_0							
198 D	6.741	0.000	128.7	76.33	128.7	76.33	V-C	2.3890E+05	-9.850	58.50	1.000
1.000	134.8	0.000	0.000	5AL_158_160_L_0							
199 D	6.780	0.000	129.1	76.60	129.1	76.60	V-C	2.3890E+05	-9.900	59.00	1.000
1.000	135.6	0.000	0.000	5AL_158_160_L_0							
200 D	6.817	0.000	129.6	76.86	129.6	76.86	V-C	2.3890E+05	-9.950	59.50	1.000
1.000	136.4	0.000	0.000	5AL_158_160_L_0							
201 D	3.427	0.000	130.0	77.13	130.0	77.13	V-C	2.3890E+05	-10.00	60.00	1.000
1.000	137.1	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection 28.SLERara_896
 Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
 CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
----	----	----	----	----

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM= 8370. RIMNOR= 0.000
 RENORM= 570.4 REMNOR= 0.000 RATIO =0.2611 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 8.507 RMMAX = 0.000
 RTSMAL=0.1000E-04 RMSMAL= 0.000
 RDT = 8370. RDR = 0.000
 RATIOT=0.2611 RATIOR= 0.000
 MAX UN= 1.691 IEQ= 371 NODE 186 DOF 1 Y-DISPL.F
 MIN UN= 0.000 IEQ= 2 NODE 1 DOF 2 X-ROT. F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	111 di 401

RELAZIONE DI CALCOLO

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ITER 2 RNORM = 0.000      RMNORM= 0.000
      RINORM= 8370.      RIMNOR= 0.000
      RENORM=0.6102E-18  REMNOR=0.1458E-21  RATIO =0.8539E-11  TOLER =0.1000E-03  CONVERGED !
      RFMAX = 8.507      RMMAX = 0.000
      RTSMAL=0.1000E-04  RMSMAL= 0.000
      RDT = 8370.      RDR = 0.000
      RATIOI=0.8539E-11  RATIOIR= 0.000
      MAX UN=0.9814E-10  IEQ= 169 NODE 85 DOF 1 Y-DISPL.F
      MIN UN=-.1660E-09  IEQ= 281 NODE 141 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
  
```

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SLERara_896
 Exe Time :21 June 2016 11:57:45

paratia_mario
 SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F (02)	X-ROT. F (04)
1	4.7644076E-05	1.2022912E-15
2	4.7644076E-05	1.2017316E-15
3	4.7644076E-05	1.2008242E-15
4	4.7644076E-05	1.1979229E-15
5	4.7644076E-05	1.1932089E-15
6	4.7644076E-05	1.1866834E-15
7	4.7644076E-05	1.1793663E-15
8	4.7644076E-05	1.1708143E-15
9	4.7644076E-05	1.1609455E-15
10	4.7644076E-05	1.1517979E-15
11	4.7644076E-05	1.1421977E-15
12	4.7644076E-05	1.1323382E-15
13	4.7644076E-05	1.1230361E-15
14	4.7644076E-05	1.1155178E-15
15	4.7644076E-05	1.1068383E-15
16	4.7644076E-05	1.0946834E-15
17	4.7644076E-05	1.0781103E-15
18	4.7644076E-05	1.0575952E-15
19	4.7644076E-05	1.0342916E-15
20	4.7644076E-05	1.0084063E-15
21	4.7644076E-05	9.7907522E-16
22	4.7644076E-05	9.4645598E-16
23	4.7644076E-05	9.1251198E-16
24	4.7644076E-05	8.7751427E-16
25	4.7644076E-05	8.3990940E-16
26	4.7644076E-05	8.0023946E-16
27	4.7644076E-05	7.5916175E-16
28	4.7644076E-05	7.1888364E-16
29	4.7644076E-05	6.8158200E-16
30	4.7644076E-05	6.4653008E-16
31	4.7644076E-05	6.1409042E-16
32	4.7644076E-05	5.8558437E-16
33	4.7644076E-05	5.6034956E-16
34	4.7644076E-05	5.3524859E-16
35	4.7644076E-05	5.0742695E-16
36	4.7644076E-05	4.7769101E-16
37	4.7644076E-05	4.4769249E-16
38	4.7644076E-05	4.1735854E-16
39	4.7644076E-05	3.8628768E-16
40	4.7644076E-05	3.5424273E-16
41	4.7644076E-05	3.2194198E-16
42	4.7644076E-05	2.8995632E-16
43	4.7644076E-05	2.5757933E-16
44	4.7644076E-05	2.2458740E-16
45	4.7644076E-05	1.9235949E-16
46	4.7644076E-05	1.6117512E-16
47	4.7644076E-05	1.2956047E-16
48	4.7644076E-05	9.8333749E-17
49	4.7644076E-05	6.8052321E-17
50	4.7644076E-05	4.0891363E-17

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100.004	A	112 di 401

51	4.7644076E-05	1.6805134E-17
52	4.7644076E-05	-5.0652570E-18
53	4.7644076E-05	-2.4535156E-17
54	4.7644076E-05	-4.0467846E-17
55	4.7644076E-05	-5.3246185E-17
56	4.7644076E-05	-6.5228313E-17
57	4.7644076E-05	-7.8237045E-17
58	4.7644076E-05	-9.3536154E-17
59	4.7644076E-05	-1.1290102E-16
60	4.7644076E-05	-1.3580310E-16
61	4.7644076E-05	-1.6272858E-16
62	4.7644076E-05	-1.8996408E-16
63	4.7644076E-05	-2.1827870E-16
64	4.7644076E-05	-2.5072006E-16
65	4.7644076E-05	-2.8748806E-16
66	4.7644076E-05	-3.2767639E-16
67	4.7644076E-05	-3.6960452E-16
68	4.7644076E-05	-4.1330126E-16
69	4.7644076E-05	-4.5864632E-16
70	4.7644076E-05	-5.0311216E-16
71	4.7644076E-05	-5.4532998E-16
72	4.7644076E-05	-5.8272817E-16
73	4.7644076E-05	-6.1566420E-16
74	4.7644076E-05	-6.4681299E-16
75	4.7644076E-05	-6.7476000E-16
76	4.7644076E-05	-6.9779082E-16
77	4.7644076E-05	-7.1317802E-16
78	4.7644076E-05	-7.2269190E-16
79	4.7644076E-05	-7.2923438E-16
80	4.7644076E-05	-7.3226507E-16
81	4.7644076E-05	-7.2860249E-16
82	4.7644076E-05	-7.1545146E-16
83	4.7644076E-05	-6.9414350E-16
84	4.7644076E-05	-6.6602201E-16
85	4.7644076E-05	-6.3318593E-16
86	4.7644076E-05	-5.9950451E-16
87	4.7644076E-05	-5.6677007E-16
88	4.7644076E-05	-5.3395771E-16
89	4.7644076E-05	-5.0026613E-16
90	4.7644076E-05	-4.6257316E-16
91	4.7644076E-05	-4.2081613E-16
92	4.7644076E-05	-3.7756663E-16
93	4.7644076E-05	-3.3417483E-16
94	4.7644076E-05	-2.9192482E-16
95	4.7644076E-05	-2.4841952E-16
96	4.7644076E-05	-2.0362164E-16
97	4.7644076E-05	-1.5760064E-16
98	4.7644076E-05	-1.1323306E-16
99	4.7644076E-05	-7.1044041E-17
100	4.7644076E-05	-2.9580085E-17
101	4.7644076E-05	1.1821192E-17
102	4.7644076E-05	5.1475886E-17
103	4.7644076E-05	8.6182214E-17
104	4.7644076E-05	1.1468318E-16
105	4.7644076E-05	1.4175943E-16
106	4.7644076E-05	1.7009099E-16
107	4.7644076E-05	1.9925772E-16
108	4.7644076E-05	2.2675919E-16
109	4.7644076E-05	2.4918523E-16
110	4.7644076E-05	2.6579724E-16
111	4.7644076E-05	2.7553643E-16
112	4.7644076E-05	2.7887882E-16
113	4.7644076E-05	2.7528401E-16
114	4.7644076E-05	2.6416925E-16
115	4.7644076E-05	2.4544135E-16
116	4.7644076E-05	2.2180405E-16
117	4.7644076E-05	1.9447538E-16
118	4.7644076E-05	1.6316904E-16
119	4.7644076E-05	1.2709391E-16
120	4.7644076E-05	8.8667409E-17
121	4.7644076E-05	5.1159096E-17
122	4.7644076E-05	1.6474791E-17
123	4.7644076E-05	-1.8111258E-17
124	4.7644076E-05	-5.2051869E-17
125	4.7644076E-05	-8.1936885E-17
126	4.7644076E-05	-1.0353792E-16
127	4.7644076E-05	-1.1754446E-16
128	4.7644076E-05	-1.2659246E-16
129	4.7644076E-05	-1.3409548E-16
130	4.7644076E-05	-1.3997558E-16
131	4.7644076E-05	-1.4291648E-16



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	113 di 401

RELAZIONE DI CALCOLO

132	4.7644076E-05	-1.4049735E-16
133	4.7644076E-05	-1.3271820E-16
134	4.7644076E-05	-1.2257753E-16
135	4.7644076E-05	-1.1153899E-16
136	4.7644076E-05	-9.9180782E-17
137	4.7644076E-05	-8.5282665E-17
138	4.7644076E-05	-7.0579867E-17
139	4.7644076E-05	-5.6322609E-17
140	4.7644076E-05	-4.2492255E-17
141	4.7644076E-05	-2.7911430E-17
142	4.7644076E-05	-9.9424727E-18
143	4.7644076E-05	1.0870821E-17
144	4.7644076E-05	3.0830305E-17
145	4.7644076E-05	4.7820092E-17
146	4.7644076E-05	6.4410079E-17
147	4.7644076E-05	8.4306883E-17
148	4.7644076E-05	1.0691250E-16
149	4.7644076E-05	1.2998568E-16
150	4.7644076E-05	1.5204241E-16
151	4.7644076E-05	1.7059413E-16
152	4.7644076E-05	1.8765846E-16
153	4.7644076E-05	2.0502432E-16
154	4.7644076E-05	2.2208696E-16
155	4.7644076E-05	2.3745722E-16
156	4.7644076E-05	2.4809087E-16
157	4.7644076E-05	2.5482139E-16
158	4.7644076E-05	2.6053039E-16
159	4.7644076E-05	2.6775050E-16
160	4.7644076E-05	2.7584475E-16
161	4.7644076E-05	2.8134877E-16
162	4.7644076E-05	2.8413212E-16
163	4.7644076E-05	2.8555683E-16
164	4.7644076E-05	2.8614806E-16
165	4.7644076E-05	2.8350193E-16
166	4.7644076E-05	2.7638685E-16
167	4.7644076E-05	2.6515350E-16
168	4.7644076E-05	2.5132992E-16
169	4.7644076E-05	2.3641537E-16
170	4.7644076E-05	2.2192263E-16
171	4.7644076E-05	2.0822780E-16
172	4.7644076E-05	1.9655230E-16
173	4.7644076E-05	1.8703165E-16
174	4.7644076E-05	1.7702142E-16
175	4.7644076E-05	1.6613874E-16
176	4.7644076E-05	1.5678580E-16
177	4.7644076E-05	1.4925737E-16
178	4.7644076E-05	1.4292834E-16
179	4.7644076E-05	1.3869317E-16
180	4.7644076E-05	1.3437669E-16
181	4.7644076E-05	1.2738528E-16
182	4.7644076E-05	1.1664999E-16
183	4.7644076E-05	1.0192517E-16
184	4.7644076E-05	8.4871007E-17
185	4.7644076E-05	6.6214260E-17
186	4.7644076E-05	4.6730808E-17
187	4.7644076E-05	2.7013575E-17
188	4.7644076E-05	5.2329695E-18
189	4.7644076E-05	-1.8146834E-17
190	4.7644076E-05	-4.2673520E-17
191	4.7644076E-05	-6.6288798E-17
192	4.7644076E-05	-8.9456844E-17
193	4.7644076E-05	-1.1272653E-16
194	4.7644076E-05	-1.3522542E-16
195	4.7644076E-05	-1.5734484E-16
196	4.7644076E-05	-1.7770412E-16
197	4.7644076E-05	-1.9660482E-16
198	4.7644076E-05	-2.1183616E-16
199	4.7644076E-05	-2.2177017E-16
200	4.7644076E-05	-2.2668635E-16
201	4.7644076E-05	-2.2756580E-16

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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Exe Time :21 June 2016 11:57:45

paratia_mario



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	114 di 401

RELAZIONE DI CALCOLO

STRESS RESULTS FOR GROUP NO. 1

Q_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
 CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS 2-LEVEL	PORE	E FACTOR
1 D	0.2846	-4.7644E-05	57.00	11.38	57.00	33.82	UL-RL	4.7091E+05	0.000	1.000
1.000	11.38	0.000	0.000	5AL_158_160_L_0						
2 D	0.5973	-4.7644E-05	57.95	11.95	57.95	34.38	UL-RL	4.7091E+05	-5.0000E-02	1.000
1.000	11.95	0.000	0.000	5AL_158_160_L_0						
3 D	0.6255	-4.7644E-05	58.90	12.51	58.90	34.95	UL-RL	4.7091E+05	-0.1000	1.000
1.000	12.51	0.000	0.000	5AL_158_160_L_0						
4 D	0.6537	-4.7644E-05	59.85	13.07	59.85	35.51	UL-RL	4.7091E+05	-0.1500	1.000
1.000	13.07	0.000	0.000	5AL_158_160_L_0						
5 D	0.6818	-4.7644E-05	60.80	13.64	60.80	36.07	UL-RL	4.7091E+05	-0.2000	1.000
1.000	13.64	0.000	0.000	5AL_158_160_L_0						
6 D	0.7100	-4.7644E-05	61.75	14.20	61.75	36.64	UL-RL	4.7091E+05	-0.2500	1.000
1.000	14.20	0.000	0.000	5AL_158_160_L_0						
7 D	0.7382	-4.7644E-05	62.70	14.76	62.70	37.20	UL-RL	4.7091E+05	-0.3000	1.000
1.000	14.76	0.000	0.000	5AL_158_160_L_0						
8 D	0.7664	-4.7644E-05	63.65	15.33	63.65	37.76	UL-RL	4.7091E+05	-0.3500	1.000
1.000	15.33	0.000	0.000	5AL_158_160_L_0						
9 D	0.7946	-4.7644E-05	64.60	15.89	64.60	38.33	UL-RL	4.7091E+05	-0.4000	1.000
1.000	15.89	0.000	0.000	5AL_158_160_L_0						
10 D	0.8227	-4.7644E-05	65.55	16.45	65.55	38.89	UL-RL	4.7091E+05	-0.4500	1.000
1.000	16.45	0.000	0.000	5AL_158_160_L_0						
11 D	0.8509	-4.7644E-05	66.50	17.02	66.50	39.45	UL-RL	4.7091E+05	-0.5000	1.000
1.000	17.02	0.000	0.000	5AL_158_160_L_0						
12 D	0.8791	-4.7644E-05	67.45	17.58	67.45	40.02	UL-RL	4.7091E+05	-0.5500	1.000
1.000	17.58	0.000	0.000	5AL_158_160_L_0						
13 D	0.9073	-4.7644E-05	68.40	18.15	68.40	40.58	UL-RL	4.7091E+05	-0.6000	1.000
1.000	18.15	0.000	0.000	5AL_158_160_L_0						
14 D	0.9355	-4.7644E-05	69.35	18.71	69.35	41.15	UL-RL	4.7091E+05	-0.6500	1.000
1.000	18.71	0.000	0.000	5AL_158_160_L_0						
15 D	0.9637	-4.7644E-05	70.30	19.27	70.30	41.71	UL-RL	4.7091E+05	-0.7000	1.000
1.000	19.27	0.000	0.000	5AL_158_160_L_0						
16 D	0.9918	-4.7644E-05	71.25	19.84	71.25	42.27	UL-RL	4.7091E+05	-0.7500	1.000
1.000	19.84	0.000	0.000	5AL_158_160_L_0						
17 D	1.020	-4.7644E-05	72.20	20.40	72.20	42.84	UL-RL	4.7091E+05	-0.8000	1.000
1.000	20.40	0.000	0.000	5AL_158_160_L_0						
18 D	1.048	-4.7644E-05	73.15	20.96	73.15	43.40	UL-RL	4.7091E+05	-0.8500	1.000
1.000	20.96	0.000	0.000	5AL_158_160_L_0						
19 D	1.076	-4.7644E-05	74.10	21.53	74.10	43.96	UL-RL	4.7091E+05	-0.9000	1.000
1.000	21.53	0.000	0.000	5AL_158_160_L_0						
20 D	1.105	-4.7644E-05	75.05	22.09	75.05	44.53	UL-RL	4.7091E+05	-0.9500	1.000
1.000	22.09	0.000	0.000	5AL_158_160_L_0						
21 D	1.133	-4.7644E-05	76.00	22.65	76.00	45.09	UL-RL	4.7091E+05	-1.000	1.000
1.000	22.65	0.000	0.000	5AL_158_160_L_0						
22 D	1.161	-4.7644E-05	76.95	23.22	76.95	45.65	UL-RL	4.7091E+05	-1.050	1.000
1.000	23.22	0.000	0.000	5AL_158_160_L_0						
23 D	1.189	-4.7644E-05	77.90	23.78	77.90	46.22	UL-RL	4.7091E+05	-1.100	1.000
1.000	23.78	0.000	0.000	5AL_158_160_L_0						
24 D	1.217	-4.7644E-05	78.85	24.35	78.85	46.78	UL-RL	4.7091E+05	-1.150	1.000
1.000	24.35	0.000	0.000	5AL_158_160_L_0						
25 D	1.245	-4.7644E-05	79.80	24.91	79.80	47.35	UL-RL	4.7091E+05	-1.200	1.000
1.000	24.91	0.000	0.000	5AL_158_160_L_0						
26 D	1.274	-4.7644E-05	80.75	25.47	80.75	47.91	UL-RL	4.7091E+05	-1.250	1.000
1.000	25.47	0.000	0.000	5AL_158_160_L_0						
27 D	1.302	-4.7644E-05	81.70	26.04	81.70	48.47	UL-RL	4.7091E+05	-1.300	1.000
1.000	26.04	0.000	0.000	5AL_158_160_L_0						
28 D	1.330	-4.7644E-05	82.65	26.60	82.65	49.04	UL-RL	4.7091E+05	-1.350	1.000
1.000	26.60	0.000	0.000	5AL_158_160_L_0						
29 D	1.358	-4.7644E-05	83.60	27.16	83.60	49.60	UL-RL	4.7091E+05	-1.400	1.000
1.000	27.16	0.000	0.000	5AL_158_160_L_0						
30 D	1.386	-4.7644E-05	84.55	27.73	84.55	50.16	UL-RL	4.7091E+05	-1.450	1.000
1.000	27.73	0.000	0.000	5AL_158_160_L_0						
31 D	1.415	-4.7644E-05	85.50	28.29	85.50	50.73	UL-RL	4.7091E+05	-1.500	1.000
1.000	28.29	0.000	0.000	5AL_158_160_L_0						
32 D	1.443	-4.7644E-05	86.45	28.85	86.45	51.29	UL-RL	4.7091E+05	-1.550	1.000
1.000	28.85	0.000	0.000	5AL_158_160_L_0						
33 D	1.471	-4.7644E-05	87.40	29.42	87.40	51.85	UL-RL	4.7091E+05	-1.600	1.000
1.000	29.42	0.000	0.000	5AL_158_160_L_0						

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	115 di 401

34 D	1.499	-4.7644E-05	88.35	29.98	88.35	52.42	UL-RL	4.7091E+05	-1.650	0.000	1.000
1.000	29.98	0.000	0.000	5AL_158_160_L_0							
35 D	1.527	-4.7644E-05	89.30	30.55	89.30	52.98	UL-RL	4.7091E+05	-1.700	0.000	1.000
1.000	30.55	0.000	0.000	5AL_158_160_L_0							
36 D	1.555	-4.7644E-05	90.25	31.11	90.25	53.55	UL-RL	4.7091E+05	-1.750	0.000	1.000
1.000	31.11	0.000	0.000	5AL_158_160_L_0							
37 D	1.584	-4.7644E-05	91.20	31.67	91.20	54.11	UL-RL	4.7091E+05	-1.800	0.000	1.000
1.000	31.67	0.000	0.000	5AL_158_160_L_0							
38 D	1.612	-4.7644E-05	92.15	32.24	92.15	54.67	UL-RL	4.7091E+05	-1.850	0.000	1.000
1.000	32.24	0.000	0.000	5AL_158_160_L_0							
39 D	1.640	-4.7644E-05	93.10	32.80	93.10	55.24	UL-RL	4.7091E+05	-1.900	0.000	1.000
1.000	32.80	0.000	0.000	5AL_158_160_L_0							
40 D	1.668	-4.7644E-05	94.05	33.36	94.05	55.80	UL-RL	4.7091E+05	-1.950	0.000	1.000
1.000	33.36	0.000	0.000	5AL_158_160_L_0							
41 D	1.696	-4.7644E-05	95.00	33.93	95.00	56.36	UL-RL	4.7091E+05	-2.000	0.000	1.000
1.000	33.93	0.000	0.000	5AL_158_160_L_0							
42 D	1.725	-4.7644E-05	95.95	34.49	95.95	56.93	UL-RL	4.7091E+05	-2.050	0.000	1.000
1.000	34.49	0.000	0.000	5AL_158_160_L_0							
43 D	1.753	-4.7644E-05	96.90	35.05	96.90	57.49	UL-RL	4.7091E+05	-2.100	0.000	1.000
1.000	35.05	0.000	0.000	5AL_158_160_L_0							
44 D	1.781	-4.7644E-05	97.85	35.62	97.85	58.05	UL-RL	4.7091E+05	-2.150	0.000	1.000
1.000	35.62	0.000	0.000	5AL_158_160_L_0							
45 D	1.809	-4.7644E-05	98.80	36.18	98.80	58.62	UL-RL	4.7091E+05	-2.200	0.000	1.000
1.000	36.18	0.000	0.000	5AL_158_160_L_0							
46 D	1.837	-4.7644E-05	99.75	36.75	99.75	59.18	UL-RL	4.7091E+05	-2.250	0.000	1.000
1.000	36.75	0.000	0.000	5AL_158_160_L_0							
47 D	1.865	-4.7644E-05	100.7	37.31	100.7	59.75	UL-RL	4.7091E+05	-2.300	0.000	1.000
1.000	37.31	0.000	0.000	5AL_158_160_L_0							
48 D	1.894	-4.7644E-05	101.6	37.87	101.6	60.31	UL-RL	4.7091E+05	-2.350	0.000	1.000
1.000	37.87	0.000	0.000	5AL_158_160_L_0							
49 D	1.922	-4.7644E-05	102.6	38.44	102.6	60.87	UL-RL	4.7091E+05	-2.400	0.000	1.000
1.000	38.44	0.000	0.000	5AL_158_160_L_0							
50 D	1.950	-4.7644E-05	103.5	39.00	103.5	61.44	UL-RL	4.7091E+05	-2.450	0.000	1.000
1.000	39.00	0.000	0.000	5AL_158_160_L_0							
51 D	1.978	-4.7644E-05	104.5	39.56	104.5	62.00	UL-RL	4.7091E+05	-2.500	0.000	1.000
1.000	39.56	0.000	0.000	5AL_158_160_L_0							
52 D	2.006	-4.7644E-05	105.4	40.13	105.4	62.56	UL-RL	4.7091E+05	-2.550	0.000	1.000
1.000	40.13	0.000	0.000	5AL_158_160_L_0							
53 D	2.035	-4.7644E-05	106.4	40.69	106.4	63.13	UL-RL	4.7091E+05	-2.600	0.000	1.000
1.000	40.69	0.000	0.000	5AL_158_160_L_0							
54 D	2.063	-4.7644E-05	107.3	41.25	107.3	63.69	UL-RL	4.7091E+05	-2.650	0.000	1.000
1.000	41.25	0.000	0.000	5AL_158_160_L_0							
55 D	2.091	-4.7644E-05	108.3	41.82	108.3	64.25	UL-RL	4.7091E+05	-2.700	0.000	1.000
1.000	41.82	0.000	0.000	5AL_158_160_L_0							
56 D	2.119	-4.7644E-05	109.2	42.38	109.2	64.82	UL-RL	4.7091E+05	-2.750	0.000	1.000
1.000	42.38	0.000	0.000	5AL_158_160_L_0							
57 D	2.147	-4.7644E-05	110.2	42.95	110.2	65.38	UL-RL	4.7091E+05	-2.800	0.000	1.000
1.000	42.95	0.000	0.000	5AL_158_160_L_0							
58 D	2.175	-4.7644E-05	111.1	43.51	111.1	65.95	UL-RL	4.7091E+05	-2.850	0.000	1.000
1.000	43.51	0.000	0.000	5AL_158_160_L_0							
59 D	2.204	-4.7644E-05	112.1	44.07	112.1	66.51	UL-RL	4.7091E+05	-2.900	0.000	1.000
1.000	44.07	0.000	0.000	5AL_158_160_L_0							
60 D	2.232	-4.7644E-05	113.0	44.64	113.0	67.07	UL-RL	4.7091E+05	-2.950	0.000	1.000
1.000	44.64	0.000	0.000	5AL_158_160_L_0							
61 D	2.260	-4.7644E-05	114.0	45.20	114.0	67.64	UL-RL	4.7091E+05	-3.000	0.000	1.000
1.000	45.20	0.000	0.000	5AL_158_160_L_0							
62 D	2.288	-4.7644E-05	114.9	45.76	114.9	68.20	UL-RL	4.7091E+05	-3.050	0.000	1.000
1.000	45.76	0.000	0.000	5AL_158_160_L_0							
63 D	2.316	-4.7644E-05	115.9	46.33	115.9	68.76	UL-RL	4.7091E+05	-3.100	0.000	1.000
1.000	46.33	0.000	0.000	5AL_158_160_L_0							
64 D	2.345	-4.7644E-05	116.8	46.89	116.8	69.33	UL-RL	4.7091E+05	-3.150	0.000	1.000
1.000	46.89	0.000	0.000	5AL_158_160_L_0							
65 D	2.373	-4.7644E-05	117.8	47.45	117.8	69.89	UL-RL	4.7091E+05	-3.200	0.000	1.000
1.000	47.45	0.000	0.000	5AL_158_160_L_0							
66 D	2.401	-4.7644E-05	118.7	48.02	118.7	70.45	UL-RL	4.7091E+05	-3.250	0.000	1.000
1.000	48.02	0.000	0.000	5AL_158_160_L_0							
67 D	2.429	-4.7644E-05	119.7	48.58	119.7	71.02	UL-RL	4.7091E+05	-3.300	0.000	1.000
1.000	48.58	0.000	0.000	5AL_158_160_L_0							
68 D	2.457	-4.7644E-05	120.6	49.15	120.6	71.58	UL-RL	4.7091E+05	-3.350	0.000	1.000
1.000	49.15	0.000	0.000	5AL_158_160_L_0							
69 D	2.485	-4.7644E-05	121.6	49.71	121.6	72.15	UL-RL	4.7091E+05	-3.400	0.000	1.000
1.000	49.71	0.000	0.000	5AL_158_160_L_0							
70 D	2.514	-4.7644E-05	122.5	50.27	122.5	72.71	UL-RL	4.7091E+05	-3.450	0.000	1.000
1.000	50.27	0.000	0.000	5AL_158_160_L_0							
71 D	2.542	-4.7644E-05	123.5	50.84	123.5	73.27	UL-RL	4.7091E+05	-3.500	0.000	1.000
1.000	50.84	0.000	0.000	5AL_158_160_L_0							
72 D	2.570	-4.7644E-05	124.4	51.40	124.4	73.84	UL-RL	4.7091E+05	-3.550	0.000	1.000
1.000	51.40	0.000	0.000	5AL_158_160_L_0							
73 D	2.598	-4.7644E-05	125.4	51.96	125.4	74.40	UL-RL	4.7091E+05	-3.600	0.000	1.000
1.000	51.96	0.000	0.000	5AL_158_160_L_0							
74 D	2.626	-4.7644E-05	126.3	52.53	126.3	74.96	UL-RL	4.7091E+05	-3.650	0.000	1.000

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	116 di 401

1.000	52.53	0.000	0.000	SAL_158_160_L_0							
75 D	2.655	-4.7644E-05	127.3	53.09	127.3	75.53	UL-RL	4.7091E+05	-3.700	0.000	1.000
1.000	53.09	0.000	0.000	SAL_158_160_L_0							
76 D	2.683	-4.7644E-05	128.2	53.65	128.2	76.09	UL-RL	4.7091E+05	-3.750	0.000	1.000
1.000	53.65	0.000	0.000	SAL_158_160_L_0							
77 D	2.711	-4.7644E-05	129.2	54.22	129.2	76.65	UL-RL	4.7091E+05	-3.800	0.000	1.000
1.000	54.22	0.000	0.000	SAL_158_160_L_0							
78 D	2.739	-4.7644E-05	130.1	54.78	130.1	77.22	UL-RL	4.7091E+05	-3.850	0.000	1.000
1.000	54.78	0.000	0.000	SAL_158_160_L_0							
79 D	2.767	-4.7644E-05	131.1	55.35	131.1	77.78	UL-RL	4.7091E+05	-3.900	0.000	1.000
1.000	55.35	0.000	0.000	SAL_158_160_L_0							
80 D	2.795	-4.7644E-05	132.0	55.91	132.0	78.35	UL-RL	4.7091E+05	-3.950	0.000	1.000
1.000	55.91	0.000	0.000	SAL_158_160_L_0							
81 D	2.824	-4.7644E-05	133.0	56.47	133.0	78.91	UL-RL	4.7091E+05	-4.000	0.000	1.000
1.000	56.47	0.000	0.000	SAL_158_160_L_0							
82 D	2.862	-4.7644E-05	133.4	56.74	133.4	79.18	UL-RL	4.7091E+05	-4.050	0.5000	1.000
1.000	57.24	0.000	0.000	SAL_158_160_L_0							
83 D	2.900	-4.7644E-05	133.9	57.01	133.9	79.44	UL-RL	4.7091E+05	-4.100	1.000	1.000
1.000	58.01	0.000	0.000	SAL_158_160_L_0							
84 D	2.939	-4.7644E-05	134.3	57.27	134.3	79.71	UL-RL	4.7091E+05	-4.150	1.500	1.000
1.000	58.77	0.000	0.000	SAL_158_160_L_0							
85 D	2.977	-4.7644E-05	134.8	57.54	134.8	79.98	UL-RL	4.7091E+05	-4.200	2.000	1.000
1.000	59.54	0.000	0.000	SAL_158_160_L_0							
86 D	3.015	-4.7644E-05	135.2	57.81	135.2	80.24	UL-RL	4.7091E+05	-4.250	2.500	1.000
1.000	60.31	0.000	0.000	SAL_158_160_L_0							
87 D	3.054	-4.7644E-05	135.7	58.07	135.7	80.51	UL-RL	4.7091E+05	-4.300	3.000	1.000
1.000	61.07	0.000	0.000	SAL_158_160_L_0							
88 D	3.092	-4.7644E-05	136.1	58.34	136.1	80.78	UL-RL	4.7091E+05	-4.350	3.500	1.000
1.000	61.84	0.000	0.000	SAL_158_160_L_0							
89 D	3.130	-4.7644E-05	136.6	58.61	136.6	81.04	UL-RL	4.7091E+05	-4.400	4.000	1.000
1.000	62.61	0.000	0.000	SAL_158_160_L_0							
90 D	3.169	-4.7644E-05	137.0	58.88	137.0	81.31	UL-RL	4.7091E+05	-4.450	4.500	1.000
1.000	63.38	0.000	0.000	SAL_158_160_L_0							
91 D	3.207	-4.7644E-05	137.5	59.14	137.5	81.58	UL-RL	4.7091E+05	-4.500	5.000	1.000
1.000	64.14	0.000	0.000	SAL_158_160_L_0							
92 D	3.245	-4.7644E-05	137.9	59.41	137.9	81.85	UL-RL	4.7091E+05	-4.550	5.500	1.000
1.000	64.91	0.000	0.000	SAL_158_160_L_0							
93 D	3.284	-4.7644E-05	138.4	59.68	138.4	82.11	UL-RL	4.7091E+05	-4.600	6.000	1.000
1.000	65.68	0.000	0.000	SAL_158_160_L_0							
94 D	3.322	-4.7644E-05	138.9	59.94	138.9	82.38	UL-RL	4.7091E+05	-4.650	6.500	1.000
1.000	66.44	0.000	0.000	SAL_158_160_L_0							
95 D	3.361	-4.7644E-05	139.3	60.21	139.3	82.65	UL-RL	4.7091E+05	-4.700	7.000	1.000
1.000	67.21	0.000	0.000	SAL_158_160_L_0							
96 D	3.399	-4.7644E-05	139.8	60.48	139.8	82.91	UL-RL	4.7091E+05	-4.750	7.500	1.000
1.000	67.98	0.000	0.000	SAL_158_160_L_0							
97 D	3.437	-4.7644E-05	140.2	60.74	140.2	83.18	UL-RL	4.7091E+05	-4.800	8.000	1.000
1.000	68.74	0.000	0.000	SAL_158_160_L_0							
98 D	3.476	-4.7644E-05	140.6	61.01	140.6	83.45	UL-RL	4.7091E+05	-4.850	8.500	1.000
1.000	69.51	0.000	0.000	SAL_158_160_L_0							
99 D	3.514	-4.7644E-05	141.1	61.28	141.1	83.71	UL-RL	4.7091E+05	-4.900	9.000	1.000
1.000	70.28	0.000	0.000	SAL_158_160_L_0							
100 D	3.552	-4.7644E-05	141.6	61.55	141.6	83.98	UL-RL	4.7091E+05	-4.950	9.500	1.000
1.000	71.05	0.000	0.000	SAL_158_160_L_0							
101 D	3.591	-4.7644E-05	142.0	61.81	142.0	84.25	UL-RL	4.7091E+05	-5.000	10.00	1.000
1.000	71.81	0.000	0.000	SAL_158_160_L_0							
102 D	3.629	-4.7644E-05	142.5	62.08	142.5	84.52	UL-RL	4.7091E+05	-5.050	10.50	1.000
1.000	72.58	0.000	0.000	SAL_158_160_L_0							
103 D	3.667	-4.7644E-05	142.9	62.35	142.9	84.78	UL-RL	4.7091E+05	-5.100	11.00	1.000
1.000	73.35	0.000	0.000	SAL_158_160_L_0							
104 D	3.706	-4.7644E-05	143.4	62.61	143.4	85.05	UL-RL	4.7091E+05	-5.150	11.50	1.000
1.000	74.11	0.000	0.000	SAL_158_160_L_0							
105 D	3.744	-4.7644E-05	143.8	62.88	143.8	85.32	UL-RL	4.7091E+05	-5.200	12.00	1.000
1.000	74.88	0.000	0.000	SAL_158_160_L_0							
106 D	3.782	-4.7644E-05	144.3	63.15	144.3	85.58	UL-RL	4.7091E+05	-5.250	12.50	1.000
1.000	75.65	0.000	0.000	SAL_158_160_L_0							
107 D	3.821	-4.7644E-05	144.7	63.41	144.7	85.85	UL-RL	4.7091E+05	-5.300	13.00	1.000
1.000	76.41	0.000	0.000	SAL_158_160_L_0							
108 D	3.859	-4.7644E-05	145.2	63.68	145.2	86.12	UL-RL	4.7091E+05	-5.350	13.50	1.000
1.000	77.18	0.000	0.000	SAL_158_160_L_0							
109 D	3.897	-4.7644E-05	145.6	63.95	145.6	86.38	UL-RL	4.7091E+05	-5.400	14.00	1.000
1.000	77.95	0.000	0.000	SAL_158_160_L_0							
110 D	3.936	-4.7644E-05	146.1	64.22	146.1	86.65	UL-RL	4.7091E+05	-5.450	14.50	1.000
1.000	78.72	0.000	0.000	SAL_158_160_L_0							
111 D	3.974	-4.7644E-05	146.5	64.48	146.5	86.92	UL-RL	4.7091E+05	-5.500	15.00	1.000
1.000	79.48	0.000	0.000	SAL_158_160_L_0							
112 D	4.012	-4.7644E-05	147.0	64.75	147.0	87.19	UL-RL	4.7091E+05	-5.550	15.50	1.000
1.000	80.25	0.000	0.000	SAL_158_160_L_0							
113 D	4.051	-4.7644E-05	147.4	65.02	147.4	87.45	UL-RL	4.7091E+05	-5.600	16.00	1.000
1.000	81.02	0.000	0.000	SAL_158_160_L_0							
114 D	4.089	-4.7644E-05	147.9	65.28	147.9	87.72	UL-RL	4.7091E+05	-5.650	16.50	1.000
1.000	81.78	0.000	0.000	SAL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	117 di 401

115 D	4.128	-4.7644E-05	148.3	65.55	148.3	87.99	UL-RL	4.7091E+05	-5.700	17.00	1.000
1.000	82.55	0.000	0.000	5AL_158_160_L_0							
116 D	4.166	-4.7644E-05	148.8	65.82	148.8	88.25	UL-RL	4.7091E+05	-5.750	17.50	1.000
1.000	83.32	0.000	0.000	5AL_158_160_L_0							
117 D	4.204	-4.7644E-05	149.2	66.08	149.2	88.52	UL-RL	4.7091E+05	-5.800	18.00	1.000
1.000	84.08	0.000	0.000	5AL_158_160_L_0							
118 D	4.243	-4.7644E-05	149.7	66.35	149.7	88.79	UL-RL	4.7091E+05	-5.850	18.50	1.000
1.000	84.85	0.000	0.000	5AL_158_160_L_0							
119 D	4.281	-4.7644E-05	150.1	66.62	150.1	89.05	UL-RL	4.7091E+05	-5.900	19.00	1.000
1.000	85.62	0.000	0.000	5AL_158_160_L_0							
120 D	4.319	-4.7644E-05	150.6	66.89	150.6	89.32	UL-RL	4.7091E+05	-5.950	19.50	1.000
1.000	86.39	0.000	0.000	5AL_158_160_L_0							
121 D	4.358	-4.7644E-05	151.0	67.15	151.0	89.59	UL-RL	4.7091E+05	-6.000	20.00	1.000
1.000	87.15	0.000	0.000	5AL_158_160_L_0							
122 D	4.396	-4.7644E-05	151.5	67.42	151.5	89.86	UL-RL	4.7091E+05	-6.050	20.50	1.000
1.000	87.92	0.000	0.000	5AL_158_160_L_0							
123 D	4.434	-4.7644E-05	151.9	67.69	151.9	90.12	UL-RL	4.7091E+05	-6.100	21.00	1.000
1.000	88.69	0.000	0.000	5AL_158_160_L_0							
124 D	4.473	-4.7644E-05	152.4	67.95	152.4	90.39	UL-RL	4.7091E+05	-6.150	21.50	1.000
1.000	89.45	0.000	0.000	5AL_158_160_L_0							
125 D	4.511	-4.7644E-05	152.8	68.22	152.8	90.66	UL-RL	4.7091E+05	-6.200	22.00	1.000
1.000	90.22	0.000	0.000	5AL_158_160_L_0							
126 D	4.549	-4.7644E-05	153.3	68.49	153.3	90.92	UL-RL	4.7091E+05	-6.250	22.50	1.000
1.000	90.99	0.000	0.000	5AL_158_160_L_0							
127 D	4.588	-4.7644E-05	153.7	68.75	153.7	91.19	UL-RL	4.7091E+05	-6.300	23.00	1.000
1.000	91.75	0.000	0.000	5AL_158_160_L_0							
128 D	4.626	-4.7644E-05	154.2	69.02	154.2	91.46	UL-RL	4.7091E+05	-6.350	23.50	1.000
1.000	92.52	0.000	0.000	5AL_158_160_L_0							
129 D	4.664	-4.7644E-05	154.6	69.29	154.6	91.72	UL-RL	4.7091E+05	-6.400	24.00	1.000
1.000	93.29	0.000	0.000	5AL_158_160_L_0							
130 D	4.703	-4.7644E-05	155.1	69.56	155.1	91.99	UL-RL	4.7091E+05	-6.450	24.50	1.000
1.000	94.06	0.000	0.000	5AL_158_160_L_0							
131 D	4.741	-4.7644E-05	155.5	69.82	155.5	92.26	UL-RL	4.7091E+05	-6.500	25.00	1.000
1.000	94.82	0.000	0.000	5AL_158_160_L_0							
132 D	4.779	-4.7644E-05	156.0	70.09	156.0	92.53	UL-RL	4.7091E+05	-6.550	25.50	1.000
1.000	95.59	0.000	0.000	5AL_158_160_L_0							
133 D	4.818	-4.7644E-05	156.4	70.36	156.4	92.79	UL-RL	4.7091E+05	-6.600	26.00	1.000
1.000	96.36	0.000	0.000	5AL_158_160_L_0							
134 D	4.856	-4.7644E-05	156.9	70.62	156.9	93.06	UL-RL	4.7091E+05	-6.650	26.50	1.000
1.000	97.12	0.000	0.000	5AL_158_160_L_0							
135 D	4.895	-4.7644E-05	157.3	70.89	157.3	93.33	UL-RL	4.7091E+05	-6.700	27.00	1.000
1.000	97.89	0.000	0.000	5AL_158_160_L_0							
136 D	4.933	-4.7644E-05	157.8	71.16	157.8	93.59	UL-RL	4.7091E+05	-6.750	27.50	1.000
1.000	98.66	0.000	0.000	5AL_158_160_L_0							
137 D	4.971	-4.7644E-05	158.2	71.42	158.2	93.86	UL-RL	4.7091E+05	-6.800	28.00	1.000
1.000	99.42	0.000	0.000	5AL_158_160_L_0							
138 D	5.010	-4.7644E-05	158.7	71.69	158.7	94.13	UL-RL	4.7091E+05	-6.850	28.50	1.000
1.000	100.2	0.000	0.000	5AL_158_160_L_0							
139 D	5.048	-4.7644E-05	159.1	71.96	159.1	94.39	UL-RL	4.7091E+05	-6.900	29.00	1.000
1.000	101.0	0.000	0.000	5AL_158_160_L_0							
140 D	5.086	-4.7644E-05	159.6	72.23	159.6	94.66	UL-RL	4.7091E+05	-6.950	29.50	1.000
1.000	101.7	0.000	0.000	5AL_158_160_L_0							
141 D	5.125	-4.7644E-05	160.0	72.49	160.0	94.93	UL-RL	4.7091E+05	-7.000	30.00	1.000
1.000	102.5	0.000	0.000	5AL_158_160_L_0							
142 D	5.163	-4.7644E-05	160.5	72.76	160.5	95.20	UL-RL	4.7091E+05	-7.050	30.50	1.000
1.000	103.3	0.000	0.000	5AL_158_160_L_0							
143 D	5.201	-4.7644E-05	160.9	73.03	160.9	95.46	UL-RL	4.7091E+05	-7.100	31.00	1.000
1.000	104.0	0.000	0.000	5AL_158_160_L_0							
144 D	5.240	-4.7644E-05	161.4	73.29	161.4	95.73	UL-RL	4.7091E+05	-7.150	31.50	1.000
1.000	104.8	0.000	0.000	5AL_158_160_L_0							
145 D	5.278	-4.7644E-05	161.8	73.56	161.8	96.00	UL-RL	4.7091E+05	-7.200	32.00	1.000
1.000	105.6	0.000	0.000	5AL_158_160_L_0							
146 D	5.316	-4.7644E-05	162.3	73.83	162.3	96.26	UL-RL	4.7091E+05	-7.250	32.50	1.000
1.000	106.3	0.000	0.000	5AL_158_160_L_0							
147 D	5.355	-4.7644E-05	162.7	74.09	162.7	96.53	UL-RL	4.7091E+05	-7.300	33.00	1.000
1.000	107.1	0.000	0.000	5AL_158_160_L_0							
148 D	5.393	-4.7644E-05	163.2	74.36	163.2	96.80	UL-RL	4.7091E+05	-7.350	33.50	1.000
1.000	107.9	0.000	0.000	5AL_158_160_L_0							
149 D	5.431	-4.7644E-05	163.6	74.63	163.6	97.06	UL-RL	4.7091E+05	-7.400	34.00	1.000
1.000	108.6	0.000	0.000	5AL_158_160_L_0							
150 D	5.470	-4.7644E-05	164.1	74.90	164.1	97.33	UL-RL	4.7091E+05	-7.450	34.50	1.000
1.000	109.4	0.000	0.000	5AL_158_160_L_0							
151 D	5.508	-4.7644E-05	164.5	75.16	164.5	97.60	UL-RL	4.7091E+05	-7.500	35.00	1.000
1.000	110.2	0.000	0.000	5AL_158_160_L_0							
152 D	5.546	-4.7644E-05	165.0	75.43	165.0	97.86	UL-RL	4.7091E+05	-7.550	35.50	1.000
1.000	110.9	0.000	0.000	5AL_158_160_L_0							
153 D	5.585	-4.7644E-05	165.4	75.70	165.4	98.13	UL-RL	4.7091E+05	-7.600	36.00	1.000
1.000	111.7	0.000	0.000	5AL_158_160_L_0							
154 D	5.623	-4.7644E-05	165.9	75.96	165.9	98.40	UL-RL	4.7091E+05	-7.650	36.50	1.000
1.000	112.5	0.000	0.000	5AL_158_160_L_0							
155 D	5.662	-4.7644E-05	166.3	76.23	166.3	98.67	UL-RL	4.7091E+05	-7.700	37.00	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	118 di 401

1.000	113.2	0.000	0.000	5AL_158_160_L_0							
156 D	5.700	-4.7644E-05	166.8	76.50	166.8	98.93	UL-RL	4.7091E+05	-7.750	37.50	1.000
1.000	114.0	0.000	0.000	5AL_158_160_L_0							
157 D	5.738	-4.7644E-05	167.2	76.76	167.2	99.20	UL-RL	4.7091E+05	-7.800	38.00	1.000
1.000	114.8	0.000	0.000	5AL_158_160_L_0							
158 D	5.777	-4.7644E-05	167.7	77.03	167.7	99.47	UL-RL	4.7091E+05	-7.850	38.50	1.000
1.000	115.5	0.000	0.000	5AL_158_160_L_0							
159 D	5.815	-4.7644E-05	168.1	77.30	168.1	99.73	UL-RL	4.7091E+05	-7.900	39.00	1.000
1.000	116.3	0.000	0.000	5AL_158_160_L_0							
160 D	5.853	-4.7644E-05	168.6	77.56	168.6	100.0	UL-RL	4.7091E+05	-7.950	39.50	1.000
1.000	117.1	0.000	0.000	5AL_158_160_L_0							
161 D	5.892	-4.7644E-05	169.0	77.83	169.0	100.3	UL-RL	4.7091E+05	-8.000	40.00	1.000
1.000	117.8	0.000	0.000	5AL_158_160_L_0							
162 D	5.930	-4.7644E-05	169.5	78.10	169.5	100.5	UL-RL	4.7091E+05	-8.050	40.50	1.000
1.000	118.6	0.000	0.000	5AL_158_160_L_0							
163 D	5.968	-4.7644E-05	169.9	78.37	169.9	100.8	UL-RL	4.7091E+05	-8.100	41.00	1.000
1.000	119.4	0.000	0.000	5AL_158_160_L_0							
164 D	6.007	-4.7644E-05	170.4	78.63	170.4	101.1	UL-RL	4.7091E+05	-8.150	41.50	1.000
1.000	120.1	0.000	0.000	5AL_158_160_L_0							
165 D	6.045	-4.7644E-05	170.8	78.90	170.8	101.3	UL-RL	4.7091E+05	-8.200	42.00	1.000
1.000	120.9	0.000	0.000	5AL_158_160_L_0							
166 D	6.083	-4.7644E-05	171.3	79.17	171.3	101.6	UL-RL	4.7091E+05	-8.250	42.50	1.000
1.000	121.7	0.000	0.000	5AL_158_160_L_0							
167 D	6.122	-4.7644E-05	171.7	79.43	171.7	101.9	UL-RL	4.7091E+05	-8.300	43.00	1.000
1.000	122.4	0.000	0.000	5AL_158_160_L_0							
168 D	6.160	-4.7644E-05	172.2	79.70	172.2	102.1	UL-RL	4.7091E+05	-8.350	43.50	1.000
1.000	123.2	0.000	0.000	5AL_158_160_L_0							
169 D	6.198	-4.7644E-05	172.6	79.97	172.6	102.4	UL-RL	4.7091E+05	-8.400	44.00	1.000
1.000	124.0	0.000	0.000	5AL_158_160_L_0							
170 D	6.237	-4.7644E-05	173.1	80.23	173.1	102.7	UL-RL	4.7091E+05	-8.450	44.50	1.000
1.000	124.7	0.000	0.000	5AL_158_160_L_0							
171 D	6.275	-4.7644E-05	173.5	80.50	173.5	102.9	UL-RL	4.7091E+05	-8.500	45.00	1.000
1.000	125.5	0.000	0.000	5AL_158_160_L_0							
172 D	6.313	-4.7644E-05	174.0	80.77	174.0	103.2	UL-RL	4.7091E+05	-8.550	45.50	1.000
1.000	126.3	0.000	0.000	5AL_158_160_L_0							
173 D	6.352	-4.7644E-05	174.4	81.04	174.4	103.5	UL-RL	4.7091E+05	-8.600	46.00	1.000
1.000	127.0	0.000	0.000	5AL_158_160_L_0							
174 D	6.390	-4.7644E-05	174.9	81.30	174.9	103.7	UL-RL	4.7091E+05	-8.650	46.50	1.000
1.000	127.8	0.000	0.000	5AL_158_160_L_0							
175 D	6.428	-4.7644E-05	175.3	81.57	175.3	104.0	UL-RL	4.7091E+05	-8.700	47.00	1.000
1.000	128.6	0.000	0.000	5AL_158_160_L_0							
176 D	6.467	-4.7644E-05	175.8	81.84	175.8	104.3	UL-RL	4.7091E+05	-8.750	47.50	1.000
1.000	129.3	0.000	0.000	5AL_158_160_L_0							
177 D	6.505	-4.7644E-05	176.2	82.10	176.2	104.5	UL-RL	4.7091E+05	-8.800	48.00	1.000
1.000	130.1	0.000	0.000	5AL_158_160_L_0							
178 D	6.544	-4.7644E-05	176.7	82.37	176.7	104.8	UL-RL	4.7091E+05	-8.850	48.50	1.000
1.000	130.9	0.000	0.000	5AL_158_160_L_0							
179 D	6.582	-4.7644E-05	177.1	82.64	177.1	105.1	UL-RL	4.7091E+05	-8.900	49.00	1.000
1.000	131.6	0.000	0.000	5AL_158_160_L_0							
180 D	6.620	-4.7644E-05	177.6	82.90	177.6	105.3	UL-RL	4.7091E+05	-8.950	49.50	1.000
1.000	132.4	0.000	0.000	5AL_158_160_L_0							
181 D	6.659	-4.7644E-05	178.0	83.17	178.0	105.6	UL-RL	4.7091E+05	-9.000	50.00	1.000
1.000	133.2	0.000	0.000	5AL_158_160_L_0							
182 D	6.697	-4.7644E-05	178.5	83.44	178.5	105.9	UL-RL	4.7091E+05	-9.050	50.50	1.000
1.000	133.9	0.000	0.000	5AL_158_160_L_0							
183 D	6.735	-4.7644E-05	178.9	83.71	178.9	106.1	UL-RL	4.7091E+05	-9.100	51.00	1.000
1.000	134.7	0.000	0.000	5AL_158_160_L_0							
184 D	6.774	-4.7644E-05	179.4	83.97	179.4	106.4	UL-RL	4.7091E+05	-9.150	51.50	1.000
1.000	135.5	0.000	0.000	5AL_158_160_L_0							
185 D	6.812	-4.7644E-05	179.8	84.24	179.8	106.7	UL-RL	4.7091E+05	-9.200	52.00	1.000
1.000	136.2	0.000	0.000	5AL_158_160_L_0							
186 D	6.850	-4.7644E-05	180.3	84.51	180.3	106.9	UL-RL	4.7091E+05	-9.250	52.50	1.000
1.000	137.0	0.000	0.000	5AL_158_160_L_0							
187 D	6.889	-4.7644E-05	180.7	84.77	180.7	107.2	UL-RL	4.7091E+05	-9.300	53.00	1.000
1.000	137.8	0.000	0.000	5AL_158_160_L_0							
188 D	6.927	-4.7644E-05	181.2	85.04	181.2	107.5	UL-RL	4.7091E+05	-9.350	53.50	1.000
1.000	138.5	0.000	0.000	5AL_158_160_L_0							
189 D	6.965	-4.7644E-05	181.6	85.31	181.6	107.7	UL-RL	4.7091E+05	-9.400	54.00	1.000
1.000	139.3	0.000	0.000	5AL_158_160_L_0							
190 D	7.004	-4.7644E-05	182.1	85.57	182.1	108.0	UL-RL	4.7091E+05	-9.450	54.50	1.000
1.000	140.1	0.000	0.000	5AL_158_160_L_0							
191 D	7.042	-4.7644E-05	182.5	85.84	182.5	108.3	UL-RL	4.7091E+05	-9.500	55.00	1.000
1.000	140.8	0.000	0.000	5AL_158_160_L_0							
192 D	7.080	-4.7644E-05	183.0	86.11	183.0	108.5	UL-RL	4.7091E+05	-9.550	55.50	1.000
1.000	141.6	0.000	0.000	5AL_158_160_L_0							
193 D	7.119	-4.7644E-05	183.4	86.38	183.4	108.8	UL-RL	4.7091E+05	-9.600	56.00	1.000
1.000	142.4	0.000	0.000	5AL_158_160_L_0							
194 D	7.157	-4.7644E-05	183.9	86.64	183.9	109.1	UL-RL	4.7091E+05	-9.650	56.50	1.000
1.000	143.1	0.000	0.000	5AL_158_160_L_0							
195 D	7.195	-4.7644E-05	184.3	86.91	184.3	109.3	UL-RL	4.7091E+05	-9.700	57.00	1.000
1.000	143.9	0.000	0.000	5AL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	119 di 401

RELAZIONE DI CALCOLO

196 D	7.234	-4.7644E-05	184.8	87.18	184.8	109.6	UL-RL	4.7091E+05	-9.750	57.50	1.000
1.000	144.7	0.000	0.000	5AL_158_160_L_0							
197 D	7.272	-4.7644E-05	185.2	87.44	185.2	109.9	UL-RL	4.7091E+05	-9.800	58.00	1.000
1.000	145.4	0.000	0.000	5AL_158_160_L_0							
198 D	7.311	-4.7644E-05	185.7	87.71	185.7	110.1	UL-RL	4.7091E+05	-9.850	58.50	1.000
1.000	146.2	0.000	0.000	5AL_158_160_L_0							
199 D	7.349	-4.7644E-05	186.1	87.98	186.1	110.4	UL-RL	4.7091E+05	-9.900	59.00	1.000
1.000	147.0	0.000	0.000	5AL_158_160_L_0							
200 D	7.386	-4.7644E-05	186.6	88.24	186.6	110.7	UL-RL	4.7091E+05	-9.950	59.50	1.000
1.000	147.7	0.000	0.000	5AL_158_160_L_0							
201 D	3.711	-4.7644E-05	187.0	88.51	187.0	110.9	UL-RL	4.7091E+05	-10.00	60.00	1.000
1.000	148.5	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SLERara_896
Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

OR
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS Z-LEVEL	PORE	E FACTOR
1 D	0.2846	4.7644E-05	0.000	11.38	0.000	11.38	V-C	2.3890E+05	0.000	1.000
1.000	11.38	0.000	0.000	5AL_158_160_L_0						
2 D	0.5973	4.7644E-05	0.9500	11.95	0.9500	11.95	V-C	2.3890E+05	-5.0000E-02	1.000
1.000	11.95	0.000	0.000	5AL_158_160_L_0						
3 D	0.6255	4.7644E-05	1.900	12.51	1.900	12.51	V-C	2.3890E+05	-0.1000	1.000
1.000	12.51	0.000	0.000	5AL_158_160_L_0						
4 D	0.6537	4.7644E-05	2.850	13.07	2.850	13.07	V-C	2.3890E+05	-0.1500	1.000
1.000	13.07	0.000	0.000	5AL_158_160_L_0						
5 D	0.6818	4.7644E-05	3.800	13.64	3.800	13.64	V-C	2.3890E+05	-0.2000	1.000
1.000	13.64	0.000	0.000	5AL_158_160_L_0						
6 D	0.7100	4.7644E-05	4.750	14.20	4.750	14.20	V-C	2.3890E+05	-0.2500	1.000
1.000	14.20	0.000	0.000	5AL_158_160_L_0						
7 D	0.7382	4.7644E-05	5.700	14.76	5.700	14.76	V-C	2.3890E+05	-0.3000	1.000
1.000	14.76	0.000	0.000	5AL_158_160_L_0						
8 D	0.7664	4.7644E-05	6.650	15.33	6.650	15.33	V-C	2.3890E+05	-0.3500	1.000
1.000	15.33	0.000	0.000	5AL_158_160_L_0						
9 D	0.7946	4.7644E-05	7.600	15.89	7.600	15.89	V-C	2.3890E+05	-0.4000	1.000
1.000	15.89	0.000	0.000	5AL_158_160_L_0						
10 D	0.8227	4.7644E-05	8.550	16.45	8.550	16.45	V-C	2.3890E+05	-0.4500	1.000
1.000	16.45	0.000	0.000	5AL_158_160_L_0						
11 D	0.8509	4.7644E-05	9.500	17.02	9.500	17.02	V-C	2.3890E+05	-0.5000	1.000
1.000	17.02	0.000	0.000	5AL_158_160_L_0						
12 D	0.8791	4.7644E-05	10.45	17.58	10.45	17.58	V-C	2.3890E+05	-0.5500	1.000
1.000	17.58	0.000	0.000	5AL_158_160_L_0						
13 D	0.9073	4.7644E-05	11.40	18.15	11.40	18.15	V-C	2.3890E+05	-0.6000	1.000
1.000	18.15	0.000	0.000	5AL_158_160_L_0						
14 D	0.9355	4.7644E-05	12.35	18.71	12.35	18.71	V-C	2.3890E+05	-0.6500	1.000
1.000	18.71	0.000	0.000	5AL_158_160_L_0						
15 D	0.9637	4.7644E-05	13.30	19.27	13.30	19.27	V-C	2.3890E+05	-0.7000	1.000
1.000	19.27	0.000	0.000	5AL_158_160_L_0						
16 D	0.9918	4.7644E-05	14.25	19.84	14.25	19.84	V-C	2.3890E+05	-0.7500	1.000
1.000	19.84	0.000	0.000	5AL_158_160_L_0						
17 D	1.020	4.7644E-05	15.20	20.40	15.20	20.40	V-C	2.3890E+05	-0.8000	1.000
1.000	20.40	0.000	0.000	5AL_158_160_L_0						
18 D	1.048	4.7644E-05	16.15	20.96	16.15	20.96	V-C	2.3890E+05	-0.8500	1.000
1.000	20.96	0.000	0.000	5AL_158_160_L_0						
19 D	1.076	4.7644E-05	17.10	21.53	17.10	21.53	V-C	2.3890E+05	-0.9000	1.000
1.000	21.53	0.000	0.000	5AL_158_160_L_0						
20 D	1.105	4.7644E-05	18.05	22.09	18.05	22.09	V-C	2.3890E+05	-0.9500	1.000
1.000	22.09	0.000	0.000	5AL_158_160_L_0						
21 D	1.133	4.7644E-05	19.00	22.65	19.00	22.65	V-C	2.3890E+05	-1.000	1.000
1.000	22.65	0.000	0.000	5AL_158_160_L_0						
22 D	1.161	4.7644E-05	19.95	23.22	19.95	23.22	V-C	2.3890E+05	-1.050	1.000

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	120 di 401

1.000	23.22	0.000	0.000	5AL_158_160_L_0							
23 D	1.189	4.7644E-05	20.90	23.78	20.90	23.78	V-C	2.3890E+05	-1.100	0.000	1.000
1.000	23.78	0.000	0.000	5AL_158_160_L_0							
24 D	1.217	4.7644E-05	21.85	24.35	21.85	24.35	V-C	2.3890E+05	-1.150	0.000	1.000
1.000	24.35	0.000	0.000	5AL_158_160_L_0							
25 D	1.245	4.7644E-05	22.80	24.91	22.80	24.91	V-C	2.3890E+05	-1.200	0.000	1.000
1.000	24.91	0.000	0.000	5AL_158_160_L_0							
26 D	1.274	4.7644E-05	23.75	25.47	23.75	25.47	V-C	2.3890E+05	-1.250	0.000	1.000
1.000	25.47	0.000	0.000	5AL_158_160_L_0							
27 D	1.302	4.7644E-05	24.70	26.04	24.70	26.04	V-C	2.3890E+05	-1.300	0.000	1.000
1.000	26.04	0.000	0.000	5AL_158_160_L_0							
28 D	1.330	4.7644E-05	25.65	26.60	25.65	26.60	V-C	2.3890E+05	-1.350	0.000	1.000
1.000	26.60	0.000	0.000	5AL_158_160_L_0							
29 D	1.358	4.7644E-05	26.60	27.16	26.60	27.16	V-C	2.3890E+05	-1.400	0.000	1.000
1.000	27.16	0.000	0.000	5AL_158_160_L_0							
30 D	1.386	4.7644E-05	27.55	27.73	27.55	27.73	V-C	2.3890E+05	-1.450	0.000	1.000
1.000	27.73	0.000	0.000	5AL_158_160_L_0							
31 D	1.415	4.7644E-05	28.50	28.29	28.50	28.29	V-C	2.3890E+05	-1.500	0.000	1.000
1.000	28.29	0.000	0.000	5AL_158_160_L_0							
32 D	1.443	4.7644E-05	29.45	28.85	29.45	28.85	V-C	2.3890E+05	-1.550	0.000	1.000
1.000	28.85	0.000	0.000	5AL_158_160_L_0							
33 D	1.471	4.7644E-05	30.40	29.42	30.40	29.42	V-C	2.3890E+05	-1.600	0.000	1.000
1.000	29.42	0.000	0.000	5AL_158_160_L_0							
34 D	1.499	4.7644E-05	31.35	29.98	31.35	29.98	V-C	2.3890E+05	-1.650	0.000	1.000
1.000	29.98	0.000	0.000	5AL_158_160_L_0							
35 D	1.527	4.7644E-05	32.30	30.55	32.30	30.55	V-C	2.3890E+05	-1.700	0.000	1.000
1.000	30.55	0.000	0.000	5AL_158_160_L_0							
36 D	1.555	4.7644E-05	33.25	31.11	33.25	31.11	V-C	2.3890E+05	-1.750	0.000	1.000
1.000	31.11	0.000	0.000	5AL_158_160_L_0							
37 D	1.584	4.7644E-05	34.20	31.67	34.20	31.67	V-C	2.3890E+05	-1.800	0.000	1.000
1.000	31.67	0.000	0.000	5AL_158_160_L_0							
38 D	1.612	4.7644E-05	35.15	32.24	35.15	32.24	V-C	2.3890E+05	-1.850	0.000	1.000
1.000	32.24	0.000	0.000	5AL_158_160_L_0							
39 D	1.640	4.7644E-05	36.10	32.80	36.10	32.80	V-C	2.3890E+05	-1.900	0.000	1.000
1.000	32.80	0.000	0.000	5AL_158_160_L_0							
40 D	1.668	4.7644E-05	37.05	33.36	37.05	33.36	V-C	2.3890E+05	-1.950	0.000	1.000
1.000	33.36	0.000	0.000	5AL_158_160_L_0							
41 D	1.696	4.7644E-05	38.00	33.93	38.00	33.93	V-C	2.3890E+05	-2.000	0.000	1.000
1.000	33.93	0.000	0.000	5AL_158_160_L_0							
42 D	1.725	4.7644E-05	38.95	34.49	38.95	34.49	V-C	2.3890E+05	-2.050	0.000	1.000
1.000	34.49	0.000	0.000	5AL_158_160_L_0							
43 D	1.753	4.7644E-05	39.90	35.05	39.90	35.05	V-C	2.3890E+05	-2.100	0.000	1.000
1.000	35.05	0.000	0.000	5AL_158_160_L_0							
44 D	1.781	4.7644E-05	40.85	35.62	40.85	35.62	V-C	2.3890E+05	-2.150	0.000	1.000
1.000	35.62	0.000	0.000	5AL_158_160_L_0							
45 D	1.809	4.7644E-05	41.80	36.18	41.80	36.18	V-C	2.3890E+05	-2.200	0.000	1.000
1.000	36.18	0.000	0.000	5AL_158_160_L_0							
46 D	1.837	4.7644E-05	42.75	36.75	42.75	36.75	V-C	2.3890E+05	-2.250	0.000	1.000
1.000	36.75	0.000	0.000	5AL_158_160_L_0							
47 D	1.865	4.7644E-05	43.70	37.31	43.70	37.31	V-C	2.3890E+05	-2.300	0.000	1.000
1.000	37.31	0.000	0.000	5AL_158_160_L_0							
48 D	1.894	4.7644E-05	44.65	37.87	44.65	37.87	V-C	2.3890E+05	-2.350	0.000	1.000
1.000	37.87	0.000	0.000	5AL_158_160_L_0							
49 D	1.922	4.7644E-05	45.60	38.44	45.60	38.44	V-C	2.3890E+05	-2.400	0.000	1.000
1.000	38.44	0.000	0.000	5AL_158_160_L_0							
50 D	1.950	4.7644E-05	46.55	39.00	46.55	39.00	V-C	2.3890E+05	-2.450	0.000	1.000
1.000	39.00	0.000	0.000	5AL_158_160_L_0							
51 D	1.978	4.7644E-05	47.50	39.56	47.50	39.56	V-C	2.3890E+05	-2.500	0.000	1.000
1.000	39.56	0.000	0.000	5AL_158_160_L_0							
52 D	2.006	4.7644E-05	48.45	40.13	48.45	40.13	V-C	2.3890E+05	-2.550	0.000	1.000
1.000	40.13	0.000	0.000	5AL_158_160_L_0							
53 D	2.035	4.7644E-05	49.40	40.69	49.40	40.69	V-C	2.3890E+05	-2.600	0.000	1.000
1.000	40.69	0.000	0.000	5AL_158_160_L_0							
54 D	2.063	4.7644E-05	50.35	41.25	50.35	41.25	V-C	2.3890E+05	-2.650	0.000	1.000
1.000	41.25	0.000	0.000	5AL_158_160_L_0							
55 D	2.091	4.7644E-05	51.30	41.82	51.30	41.82	V-C	2.3890E+05	-2.700	0.000	1.000
1.000	41.82	0.000	0.000	5AL_158_160_L_0							
56 D	2.119	4.7644E-05	52.25	42.38	52.25	42.38	V-C	2.3890E+05	-2.750	0.000	1.000
1.000	42.38	0.000	0.000	5AL_158_160_L_0							
57 D	2.147	4.7644E-05	53.20	42.95	53.20	42.95	V-C	2.3890E+05	-2.800	0.000	1.000
1.000	42.95	0.000	0.000	5AL_158_160_L_0							
58 D	2.175	4.7644E-05	54.15	43.51	54.15	43.51	V-C	2.3890E+05	-2.850	0.000	1.000
1.000	43.51	0.000	0.000	5AL_158_160_L_0							
59 D	2.204	4.7644E-05	55.10	44.07	55.10	44.07	V-C	2.3890E+05	-2.900	0.000	1.000
1.000	44.07	0.000	0.000	5AL_158_160_L_0							
60 D	2.232	4.7644E-05	56.05	44.64	56.05	44.64	V-C	2.3890E+05	-2.950	0.000	1.000
1.000	44.64	0.000	0.000	5AL_158_160_L_0							
61 D	2.260	4.7644E-05	57.00	45.20	57.00	45.20	V-C	2.3890E+05	-3.000	0.000	1.000
1.000	45.20	0.000	0.000	5AL_158_160_L_0							
62 D	2.288	4.7644E-05	57.95	45.76	57.95	45.76	V-C	2.3890E+05	-3.050	0.000	1.000
1.000	45.76	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	121 di 401

63 D	2.316	4.7644E-05	58.90	46.33	58.90	46.33	V-C	2.3890E+05	-3.100	0.000	1.000
1.000	46.33	0.000	0.000	SAL_158_160_L_0							
64 D	2.345	4.7644E-05	59.85	46.89	59.85	46.89	V-C	2.3890E+05	-3.150	0.000	1.000
1.000	46.89	0.000	0.000	SAL_158_160_L_0							
65 D	2.373	4.7644E-05	60.80	47.45	60.80	47.45	V-C	2.3890E+05	-3.200	0.000	1.000
1.000	47.45	0.000	0.000	SAL_158_160_L_0							
66 D	2.401	4.7644E-05	61.75	48.02	61.75	48.02	V-C	2.3890E+05	-3.250	0.000	1.000
1.000	48.02	0.000	0.000	SAL_158_160_L_0							
67 D	2.429	4.7644E-05	62.70	48.58	62.70	48.58	V-C	2.3890E+05	-3.300	0.000	1.000
1.000	48.58	0.000	0.000	SAL_158_160_L_0							
68 D	2.457	4.7644E-05	63.65	49.15	63.65	49.15	V-C	2.3890E+05	-3.350	0.000	1.000
1.000	49.15	0.000	0.000	SAL_158_160_L_0							
69 D	2.485	4.7644E-05	64.60	49.71	64.60	49.71	V-C	2.3890E+05	-3.400	0.000	1.000
1.000	49.71	0.000	0.000	SAL_158_160_L_0							
70 D	2.514	4.7644E-05	65.55	50.27	65.55	50.27	V-C	2.3890E+05	-3.450	0.000	1.000
1.000	50.27	0.000	0.000	SAL_158_160_L_0							
71 D	2.542	4.7644E-05	66.50	50.84	66.50	50.84	V-C	2.3890E+05	-3.500	0.000	1.000
1.000	50.84	0.000	0.000	SAL_158_160_L_0							
72 D	2.570	4.7644E-05	67.45	51.40	67.45	51.40	V-C	2.3890E+05	-3.550	0.000	1.000
1.000	51.40	0.000	0.000	SAL_158_160_L_0							
73 D	2.598	4.7644E-05	68.40	51.96	68.40	51.96	V-C	2.3890E+05	-3.600	0.000	1.000
1.000	51.96	0.000	0.000	SAL_158_160_L_0							
74 D	2.626	4.7644E-05	69.35	52.53	69.35	52.53	V-C	2.3890E+05	-3.650	0.000	1.000
1.000	52.53	0.000	0.000	SAL_158_160_L_0							
75 D	2.655	4.7644E-05	70.30	53.09	70.30	53.09	V-C	2.3890E+05	-3.700	0.000	1.000
1.000	53.09	0.000	0.000	SAL_158_160_L_0							
76 D	2.683	4.7644E-05	71.25	53.65	71.25	53.65	V-C	2.3890E+05	-3.750	0.000	1.000
1.000	53.65	0.000	0.000	SAL_158_160_L_0							
77 D	2.711	4.7644E-05	72.20	54.22	72.20	54.22	V-C	2.3890E+05	-3.800	0.000	1.000
1.000	54.22	0.000	0.000	SAL_158_160_L_0							
78 D	2.739	4.7644E-05	73.15	54.78	73.15	54.78	V-C	2.3890E+05	-3.850	0.000	1.000
1.000	54.78	0.000	0.000	SAL_158_160_L_0							
79 D	2.767	4.7644E-05	74.10	55.35	74.10	55.35	V-C	2.3890E+05	-3.900	0.000	1.000
1.000	55.35	0.000	0.000	SAL_158_160_L_0							
80 D	2.795	4.7644E-05	75.05	55.91	75.05	55.91	V-C	2.3890E+05	-3.950	0.000	1.000
1.000	55.91	0.000	0.000	SAL_158_160_L_0							
81 D	2.824	4.7644E-05	76.00	56.47	76.00	56.47	V-C	2.3890E+05	-4.000	0.000	1.000
1.000	56.47	0.000	0.000	SAL_158_160_L_0							
82 D	2.862	4.7644E-05	76.45	56.74	76.45	56.74	V-C	2.3890E+05	-4.050	0.5000	1.000
1.000	57.24	0.000	0.000	SAL_158_160_L_0							
83 D	2.900	4.7644E-05	76.90	57.01	76.90	57.01	V-C	2.3890E+05	-4.100	1.000	1.000
1.000	58.01	0.000	0.000	SAL_158_160_L_0							
84 D	2.939	4.7644E-05	77.35	57.27	77.35	57.27	V-C	2.3890E+05	-4.150	1.500	1.000
1.000	58.77	0.000	0.000	SAL_158_160_L_0							
85 D	2.977	4.7644E-05	77.80	57.54	77.80	57.54	V-C	2.3890E+05	-4.200	2.000	1.000
1.000	59.54	0.000	0.000	SAL_158_160_L_0							
86 D	3.015	4.7644E-05	78.25	57.81	78.25	57.81	V-C	2.3890E+05	-4.250	2.500	1.000
1.000	60.31	0.000	0.000	SAL_158_160_L_0							
87 D	3.054	4.7644E-05	78.70	58.07	78.70	58.07	V-C	2.3890E+05	-4.300	3.000	1.000
1.000	61.07	0.000	0.000	SAL_158_160_L_0							
88 D	3.092	4.7644E-05	79.15	58.34	79.15	58.34	V-C	2.3890E+05	-4.350	3.500	1.000
1.000	61.84	0.000	0.000	SAL_158_160_L_0							
89 D	3.130	4.7644E-05	79.60	58.61	79.60	58.61	V-C	2.3890E+05	-4.400	4.000	1.000
1.000	62.61	0.000	0.000	SAL_158_160_L_0							
90 D	3.169	4.7644E-05	80.05	58.88	80.05	58.88	V-C	2.3890E+05	-4.450	4.500	1.000
1.000	63.38	0.000	0.000	SAL_158_160_L_0							
91 D	3.207	4.7644E-05	80.50	59.14	80.50	59.14	V-C	2.3890E+05	-4.500	5.000	1.000
1.000	64.14	0.000	0.000	SAL_158_160_L_0							
92 D	3.245	4.7644E-05	80.95	59.41	80.95	59.41	V-C	2.3890E+05	-4.550	5.500	1.000
1.000	64.91	0.000	0.000	SAL_158_160_L_0							
93 D	3.284	4.7644E-05	81.40	59.68	81.40	59.68	V-C	2.3890E+05	-4.600	6.000	1.000
1.000	65.68	0.000	0.000	SAL_158_160_L_0							
94 D	3.322	4.7644E-05	81.85	59.94	81.85	59.94	V-C	2.3890E+05	-4.650	6.500	1.000
1.000	66.44	0.000	0.000	SAL_158_160_L_0							
95 D	3.361	4.7644E-05	82.30	60.21	82.30	60.21	V-C	2.3890E+05	-4.700	7.000	1.000
1.000	67.21	0.000	0.000	SAL_158_160_L_0							
96 D	3.399	4.7644E-05	82.75	60.48	82.75	60.48	V-C	2.3890E+05	-4.750	7.500	1.000
1.000	67.98	0.000	0.000	SAL_158_160_L_0							
97 D	3.437	4.7644E-05	83.20	60.74	83.20	60.74	V-C	2.3890E+05	-4.800	8.000	1.000
1.000	68.74	0.000	0.000	SAL_158_160_L_0							
98 D	3.476	4.7644E-05	83.65	61.01	83.65	61.01	V-C	2.3890E+05	-4.850	8.500	1.000
1.000	69.51	0.000	0.000	SAL_158_160_L_0							
99 D	3.514	4.7644E-05	84.10	61.28	84.10	61.28	V-C	2.3890E+05	-4.900	9.000	1.000
1.000	70.28	0.000	0.000	SAL_158_160_L_0							
100 D	3.552	4.7644E-05	84.55	61.55	84.55	61.55	V-C	2.3890E+05	-4.950	9.500	1.000
1.000	71.05	0.000	0.000	SAL_158_160_L_0							
101 D	3.591	4.7644E-05	85.00	61.81	85.00	61.81	V-C	2.3890E+05	-5.000	10.00	1.000
1.000	71.81	0.000	0.000	SAL_158_160_L_0							
102 D	3.629	4.7644E-05	85.45	62.08	85.45	62.08	V-C	2.3890E+05	-5.050	10.50	1.000
1.000	72.58	0.000	0.000	SAL_158_160_L_0							
103 D	3.667	4.7644E-05	85.90	62.35	85.90	62.35	V-C	2.3890E+05	-5.100	11.00	1.000

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	122 di 401

RELAZIONE DI CALCOLO

1.000	73.35	0.000	0.000	5AL_158_160_L_0							
104 D	3.706	4.7644E-05	86.35	62.61	86.35	62.61	V-C	2.3890E+05	-5.150	11.50	1.000
1.000	74.11	0.000	0.000	5AL_158_160_L_0							
105 D	3.744	4.7644E-05	86.80	62.88	86.80	62.88	V-C	2.3890E+05	-5.200	12.00	1.000
1.000	74.88	0.000	0.000	5AL_158_160_L_0							
106 D	3.782	4.7644E-05	87.25	63.15	87.25	63.15	V-C	2.3890E+05	-5.250	12.50	1.000
1.000	75.65	0.000	0.000	5AL_158_160_L_0							
107 D	3.821	4.7644E-05	87.70	63.41	87.70	63.41	V-C	2.3890E+05	-5.300	13.00	1.000
1.000	76.41	0.000	0.000	5AL_158_160_L_0							
108 D	3.859	4.7644E-05	88.15	63.68	88.15	63.68	V-C	2.3890E+05	-5.350	13.50	1.000
1.000	77.18	0.000	0.000	5AL_158_160_L_0							
109 D	3.897	4.7644E-05	88.60	63.95	88.60	63.95	V-C	2.3890E+05	-5.400	14.00	1.000
1.000	77.95	0.000	0.000	5AL_158_160_L_0							
110 D	3.936	4.7644E-05	89.05	64.22	89.05	64.22	V-C	2.3890E+05	-5.450	14.50	1.000
1.000	78.72	0.000	0.000	5AL_158_160_L_0							
111 D	3.974	4.7644E-05	89.50	64.48	89.50	64.48	V-C	2.3890E+05	-5.500	15.00	1.000
1.000	79.48	0.000	0.000	5AL_158_160_L_0							
112 D	4.012	4.7644E-05	89.95	64.75	89.95	64.75	V-C	2.3890E+05	-5.550	15.50	1.000
1.000	80.25	0.000	0.000	5AL_158_160_L_0							
113 D	4.051	4.7644E-05	90.40	65.02	90.40	65.02	V-C	2.3890E+05	-5.600	16.00	1.000
1.000	81.02	0.000	0.000	5AL_158_160_L_0							
114 D	4.089	4.7644E-05	90.85	65.28	90.85	65.28	V-C	2.3890E+05	-5.650	16.50	1.000
1.000	81.78	0.000	0.000	5AL_158_160_L_0							
115 D	4.128	4.7644E-05	91.30	65.55	91.30	65.55	V-C	2.3890E+05	-5.700	17.00	1.000
1.000	82.55	0.000	0.000	5AL_158_160_L_0							
116 D	4.166	4.7644E-05	91.75	65.82	91.75	65.82	V-C	2.3890E+05	-5.750	17.50	1.000
1.000	83.32	0.000	0.000	5AL_158_160_L_0							
117 D	4.204	4.7644E-05	92.20	66.08	92.20	66.08	V-C	2.3890E+05	-5.800	18.00	1.000
1.000	84.08	0.000	0.000	5AL_158_160_L_0							
118 D	4.243	4.7644E-05	92.65	66.35	92.65	66.35	V-C	2.3890E+05	-5.850	18.50	1.000
1.000	84.85	0.000	0.000	5AL_158_160_L_0							
119 D	4.281	4.7644E-05	93.10	66.62	93.10	66.62	V-C	2.3890E+05	-5.900	19.00	1.000
1.000	85.62	0.000	0.000	5AL_158_160_L_0							
120 D	4.319	4.7644E-05	93.55	66.89	93.55	66.89	V-C	2.3890E+05	-5.950	19.50	1.000
1.000	86.39	0.000	0.000	5AL_158_160_L_0							
121 D	4.358	4.7644E-05	94.00	67.15	94.00	67.15	V-C	2.3890E+05	-6.000	20.00	1.000
1.000	87.15	0.000	0.000	5AL_158_160_L_0							
122 D	4.396	4.7644E-05	94.45	67.42	94.45	67.42	V-C	2.3890E+05	-6.050	20.50	1.000
1.000	87.92	0.000	0.000	5AL_158_160_L_0							
123 D	4.434	4.7644E-05	94.90	67.69	94.90	67.69	V-C	2.3890E+05	-6.100	21.00	1.000
1.000	88.69	0.000	0.000	5AL_158_160_L_0							
124 D	4.473	4.7644E-05	95.35	67.95	95.35	67.95	V-C	2.3890E+05	-6.150	21.50	1.000
1.000	89.45	0.000	0.000	5AL_158_160_L_0							
125 D	4.511	4.7644E-05	95.80	68.22	95.80	68.22	V-C	2.3890E+05	-6.200	22.00	1.000
1.000	90.22	0.000	0.000	5AL_158_160_L_0							
126 D	4.549	4.7644E-05	96.25	68.49	96.25	68.49	V-C	2.3890E+05	-6.250	22.50	1.000
1.000	90.99	0.000	0.000	5AL_158_160_L_0							
127 D	4.588	4.7644E-05	96.70	68.75	96.70	68.75	V-C	2.3890E+05	-6.300	23.00	1.000
1.000	91.75	0.000	0.000	5AL_158_160_L_0							
128 D	4.626	4.7644E-05	97.15	69.02	97.15	69.02	V-C	2.3890E+05	-6.350	23.50	1.000
1.000	92.52	0.000	0.000	5AL_158_160_L_0							
129 D	4.664	4.7644E-05	97.60	69.29	97.60	69.29	V-C	2.3890E+05	-6.400	24.00	1.000
1.000	93.29	0.000	0.000	5AL_158_160_L_0							
130 D	4.703	4.7644E-05	98.05	69.56	98.05	69.56	V-C	2.3890E+05	-6.450	24.50	1.000
1.000	94.06	0.000	0.000	5AL_158_160_L_0							
131 D	4.741	4.7644E-05	98.50	69.82	98.50	69.82	V-C	2.3890E+05	-6.500	25.00	1.000
1.000	94.82	0.000	0.000	5AL_158_160_L_0							
132 D	4.779	4.7644E-05	98.95	70.09	98.95	70.09	V-C	2.3890E+05	-6.550	25.50	1.000
1.000	95.59	0.000	0.000	5AL_158_160_L_0							
133 D	4.818	4.7644E-05	99.40	70.36	99.40	70.36	V-C	2.3890E+05	-6.600	26.00	1.000
1.000	96.36	0.000	0.000	5AL_158_160_L_0							
134 D	4.856	4.7644E-05	99.85	70.62	99.85	70.62	V-C	2.3890E+05	-6.650	26.50	1.000
1.000	97.12	0.000	0.000	5AL_158_160_L_0							
135 D	4.895	4.7644E-05	100.3	70.89	100.3	70.89	V-C	2.3890E+05	-6.700	27.00	1.000
1.000	97.89	0.000	0.000	5AL_158_160_L_0							
136 D	4.933	4.7644E-05	100.8	71.16	100.8	71.16	V-C	2.3890E+05	-6.750	27.50	1.000
1.000	98.66	0.000	0.000	5AL_158_160_L_0							
137 D	4.971	4.7644E-05	101.2	71.42	101.2	71.42	V-C	2.3890E+05	-6.800	28.00	1.000
1.000	99.42	0.000	0.000	5AL_158_160_L_0							
138 D	5.010	4.7644E-05	101.7	71.69	101.7	71.69	V-C	2.3890E+05	-6.850	28.50	1.000
1.000	100.2	0.000	0.000	5AL_158_160_L_0							
139 D	5.048	4.7644E-05	102.1	71.96	102.1	71.96	V-C	2.3890E+05	-6.900	29.00	1.000
1.000	101.0	0.000	0.000	5AL_158_160_L_0							
140 D	5.086	4.7644E-05	102.6	72.23	102.6	72.23	V-C	2.3890E+05	-6.950	29.50	1.000
1.000	101.7	0.000	0.000	5AL_158_160_L_0							
141 D	5.125	4.7644E-05	103.0	72.49	103.0	72.49	V-C	2.3890E+05	-7.000	30.00	1.000
1.000	102.5	0.000	0.000	5AL_158_160_L_0							
142 D	5.163	4.7644E-05	103.5	72.76	103.5	72.76	V-C	2.3890E+05	-7.050	30.50	1.000
1.000	103.3	0.000	0.000	5AL_158_160_L_0							
143 D	5.201	4.7644E-05	103.9	73.03	103.9	73.03	V-C	2.3890E+05	-7.100	31.00	1.000
1.000	104.0	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI						COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
RELAZIONE DI CALCOLO						LI00	01	D 09CL	VI0100 004	A	123 di 401
144 D	5.240	4.7644E-05	104.4	73.29	104.4	73.29	V-C	2.3890E+05	-7.150	31.50	1.000
1.000	104.8	0.000	0.000	5AL_158_160_L_0							
145 D	5.278	4.7644E-05	104.8	73.56	104.8	73.56	V-C	2.3890E+05	-7.200	32.00	1.000
1.000	105.6	0.000	0.000	5AL_158_160_L_0							
146 D	5.316	4.7644E-05	105.3	73.83	105.3	73.83	V-C	2.3890E+05	-7.250	32.50	1.000
1.000	106.3	0.000	0.000	5AL_158_160_L_0							
147 D	5.355	4.7644E-05	105.7	74.09	105.7	74.09	V-C	2.3890E+05	-7.300	33.00	1.000
1.000	107.1	0.000	0.000	5AL_158_160_L_0							
148 D	5.393	4.7644E-05	106.2	74.36	106.2	74.36	V-C	2.3890E+05	-7.350	33.50	1.000
1.000	107.9	0.000	0.000	5AL_158_160_L_0							
149 D	5.431	4.7644E-05	106.6	74.63	106.6	74.63	V-C	2.3890E+05	-7.400	34.00	1.000
1.000	108.6	0.000	0.000	5AL_158_160_L_0							
150 D	5.470	4.7644E-05	107.1	74.90	107.1	74.90	V-C	2.3890E+05	-7.450	34.50	1.000
1.000	109.4	0.000	0.000	5AL_158_160_L_0							
151 D	5.508	4.7644E-05	107.5	75.16	107.5	75.16	V-C	2.3890E+05	-7.500	35.00	1.000
1.000	110.2	0.000	0.000	5AL_158_160_L_0							
152 D	5.546	4.7644E-05	108.0	75.43	108.0	75.43	V-C	2.3890E+05	-7.550	35.50	1.000
1.000	110.9	0.000	0.000	5AL_158_160_L_0							
153 D	5.585	4.7644E-05	108.4	75.70	108.4	75.70	V-C	2.3890E+05	-7.600	36.00	1.000
1.000	111.7	0.000	0.000	5AL_158_160_L_0							
154 D	5.623	4.7644E-05	108.9	75.96	108.9	75.96	V-C	2.3890E+05	-7.650	36.50	1.000
1.000	112.5	0.000	0.000	5AL_158_160_L_0							
155 D	5.662	4.7644E-05	109.3	76.23	109.3	76.23	V-C	2.3890E+05	-7.700	37.00	1.000
1.000	113.2	0.000	0.000	5AL_158_160_L_0							
156 D	5.700	4.7644E-05	109.8	76.50	109.8	76.50	V-C	2.3890E+05	-7.750	37.50	1.000
1.000	114.0	0.000	0.000	5AL_158_160_L_0							
157 D	5.738	4.7644E-05	110.2	76.76	110.2	76.76	V-C	2.3890E+05	-7.800	38.00	1.000
1.000	114.8	0.000	0.000	5AL_158_160_L_0							
158 D	5.777	4.7644E-05	110.7	77.03	110.7	77.03	V-C	2.3890E+05	-7.850	38.50	1.000
1.000	115.5	0.000	0.000	5AL_158_160_L_0							
159 D	5.815	4.7644E-05	111.1	77.30	111.1	77.30	V-C	2.3890E+05	-7.900	39.00	1.000
1.000	116.3	0.000	0.000	5AL_158_160_L_0							
160 D	5.853	4.7644E-05	111.6	77.56	111.6	77.56	V-C	2.3890E+05	-7.950	39.50	1.000
1.000	117.1	0.000	0.000	5AL_158_160_L_0							
161 D	5.892	4.7644E-05	112.0	77.83	112.0	77.83	V-C	2.3890E+05	-8.000	40.00	1.000
1.000	117.8	0.000	0.000	5AL_158_160_L_0							
162 D	5.930	4.7644E-05	112.5	78.10	112.5	78.10	V-C	2.3890E+05	-8.050	40.50	1.000
1.000	118.6	0.000	0.000	5AL_158_160_L_0							
163 D	5.968	4.7644E-05	112.9	78.37	112.9	78.37	V-C	2.3890E+05	-8.100	41.00	1.000
1.000	119.4	0.000	0.000	5AL_158_160_L_0							
164 D	6.007	4.7644E-05	113.4	78.63	113.4	78.63	V-C	2.3890E+05	-8.150	41.50	1.000
1.000	120.1	0.000	0.000	5AL_158_160_L_0							
165 D	6.045	4.7644E-05	113.8	78.90	113.8	78.90	V-C	2.3890E+05	-8.200	42.00	1.000
1.000	120.9	0.000	0.000	5AL_158_160_L_0							
166 D	6.083	4.7644E-05	114.3	79.17	114.3	79.17	V-C	2.3890E+05	-8.250	42.50	1.000
1.000	121.7	0.000	0.000	5AL_158_160_L_0							
167 D	6.122	4.7644E-05	114.7	79.43	114.7	79.43	V-C	2.3890E+05	-8.300	43.00	1.000
1.000	122.4	0.000	0.000	5AL_158_160_L_0							
168 D	6.160	4.7644E-05	115.2	79.70	115.2	79.70	V-C	2.3890E+05	-8.350	43.50	1.000
1.000	123.2	0.000	0.000	5AL_158_160_L_0							
169 D	6.198	4.7644E-05	115.6	79.97	115.6	79.97	V-C	2.3890E+05	-8.400	44.00	1.000
1.000	124.0	0.000	0.000	5AL_158_160_L_0							
170 D	6.237	4.7644E-05	116.1	80.23	116.1	80.23	V-C	2.3890E+05	-8.450	44.50	1.000
1.000	124.7	0.000	0.000	5AL_158_160_L_0							
171 D	6.275	4.7644E-05	116.5	80.50	116.5	80.50	V-C	2.3890E+05	-8.500	45.00	1.000
1.000	125.5	0.000	0.000	5AL_158_160_L_0							
172 D	6.313	4.7644E-05	117.0	80.77	117.0	80.77	V-C	2.3890E+05	-8.550	45.50	1.000
1.000	126.3	0.000	0.000	5AL_158_160_L_0							
173 D	6.352	4.7644E-05	117.4	81.04	117.4	81.04	V-C	2.3890E+05	-8.600	46.00	1.000
1.000	127.0	0.000	0.000	5AL_158_160_L_0							
174 D	6.390	4.7644E-05	117.9	81.30	117.9	81.30	V-C	2.3890E+05	-8.650	46.50	1.000
1.000	127.8	0.000	0.000	5AL_158_160_L_0							
175 D	6.428	4.7644E-05	118.3	81.57	118.3	81.57	V-C	2.3890E+05	-8.700	47.00	1.000
1.000	128.6	0.000	0.000	5AL_158_160_L_0							
176 D	6.467	4.7644E-05	118.8	81.84	118.8	81.84	V-C	2.3890E+05	-8.750	47.50	1.000
1.000	129.3	0.000	0.000	5AL_158_160_L_0							
177 D	6.505	4.7644E-05	119.2	82.10	119.2	82.10	V-C	2.3890E+05	-8.800	48.00	1.000
1.000	130.1	0.000	0.000	5AL_158_160_L_0							
178 D	6.544	4.7644E-05	119.7	82.37	119.7	82.37	V-C	2.3890E+05	-8.850	48.50	1.000
1.000	130.9	0.000	0.000	5AL_158_160_L_0							
179 D	6.582	4.7644E-05	120.1	82.64	120.1	82.64	V-C	2.3890E+05	-8.900	49.00	1.000
1.000	131.6	0.000	0.000	5AL_158_160_L_0							
180 D	6.620	4.7644E-05	120.6	82.90	120.6	82.90	V-C	2.3890E+05	-8.950	49.50	1.000
1.000	132.4	0.000	0.000	5AL_158_160_L_0							
181 D	6.659	4.7644E-05	121.0	83.17	121.0	83.17	V-C	2.3890E+05	-9.000	50.00	1.000
1.000	133.2	0.000	0.000	5AL_158_160_L_0							
182 D	6.697	4.7644E-05	121.5	83.44	121.5	83.44	V-C	2.3890E+05	-9.050	50.50	1.000
1.000	133.9	0.000	0.000	5AL_158_160_L_0							
183 D	6.735	4.7644E-05	121.9	83.71	121.9	83.71	V-C	2.3890E+05	-9.100	51.00	1.000
1.000	134.7	0.000	0.000	5AL_158_160_L_0							
184 D	6.774	4.7644E-05	122.4	83.97	122.4	83.97	V-C	2.3890E+05	-9.150	51.50	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	124 di 401

RELAZIONE DI CALCOLO

1.000	135.5	0.000	0.000	5AL_158_160_L_0							
185 D	6.812	4.7644E-05	122.8	84.24	122.8	84.24	V-C	2.3890E+05	-9.200	52.00	1.000
1.000	136.2	0.000	0.000	5AL_158_160_L_0							
186 D	6.850	4.7644E-05	123.3	84.51	123.3	84.51	V-C	2.3890E+05	-9.250	52.50	1.000
1.000	137.0	0.000	0.000	5AL_158_160_L_0							
187 D	6.889	4.7644E-05	123.7	84.77	123.7	84.77	V-C	2.3890E+05	-9.300	53.00	1.000
1.000	137.8	0.000	0.000	5AL_158_160_L_0							
188 D	6.927	4.7644E-05	124.2	85.04	124.2	85.04	V-C	2.3890E+05	-9.350	53.50	1.000
1.000	138.5	0.000	0.000	5AL_158_160_L_0							
189 D	6.965	4.7644E-05	124.6	85.31	124.6	85.31	V-C	2.3890E+05	-9.400	54.00	1.000
1.000	139.3	0.000	0.000	5AL_158_160_L_0							
190 D	7.004	4.7644E-05	125.1	85.57	125.1	85.57	V-C	2.3890E+05	-9.450	54.50	1.000
1.000	140.1	0.000	0.000	5AL_158_160_L_0							
191 D	7.042	4.7644E-05	125.5	85.84	125.5	85.84	V-C	2.3890E+05	-9.500	55.00	1.000
1.000	140.8	0.000	0.000	5AL_158_160_L_0							
192 D	7.080	4.7644E-05	126.0	86.11	126.0	86.11	V-C	2.3890E+05	-9.550	55.50	1.000
1.000	141.6	0.000	0.000	5AL_158_160_L_0							
193 D	7.119	4.7644E-05	126.4	86.38	126.4	86.38	V-C	2.3890E+05	-9.600	56.00	1.000
1.000	142.4	0.000	0.000	5AL_158_160_L_0							
194 D	7.157	4.7644E-05	126.9	86.64	126.9	86.64	V-C	2.3890E+05	-9.650	56.50	1.000
1.000	143.1	0.000	0.000	5AL_158_160_L_0							
195 D	7.195	4.7644E-05	127.3	86.91	127.3	86.91	V-C	2.3890E+05	-9.700	57.00	1.000
1.000	143.9	0.000	0.000	5AL_158_160_L_0							
196 D	7.234	4.7644E-05	127.8	87.18	127.8	87.18	V-C	2.3890E+05	-9.750	57.50	1.000
1.000	144.7	0.000	0.000	5AL_158_160_L_0							
197 D	7.272	4.7644E-05	128.2	87.44	128.2	87.44	V-C	2.3890E+05	-9.800	58.00	1.000
1.000	145.4	0.000	0.000	5AL_158_160_L_0							
198 D	7.311	4.7644E-05	128.7	87.71	128.7	87.71	V-C	2.3890E+05	-9.850	58.50	1.000
1.000	146.2	0.000	0.000	5AL_158_160_L_0							
199 D	7.349	4.7644E-05	129.1	87.98	129.1	87.98	V-C	2.3890E+05	-9.900	59.00	1.000
1.000	147.0	0.000	0.000	5AL_158_160_L_0							
200 D	7.386	4.7644E-05	129.6	88.24	129.6	88.24	V-C	2.3890E+05	-9.950	59.50	1.000
1.000	147.7	0.000	0.000	5AL_158_160_L_0							
201 D	3.711	4.7644E-05	130.0	88.51	130.0	88.51	V-C	2.3890E+05	-10.00	60.00	1.000
1.000	148.5	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SLERara_896
Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement_33
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1-1.17673E-11	1.17673E-11	4.64102E-14	8.16674E-13	
2-5.39395E-11	5.39395E-11	7.17094E-13	2.34368E-12	
3-2.56270E-11	2.56270E-11	1.20997E-12	3.94652E-12	
4-2.32230E-11	2.32230E-11	3.43283E-12	5.86727E-12	
5-1.74654E-11	1.74654E-11	5.95411E-12	6.28168E-12	
6-4.10727E-11	4.10727E-11	6.10635E-12	6.88669E-12	
7-2.43499E-12	2.43499E-12	7.61971E-12	7.49796E-12	
8-1.67044E-11	1.67044E-11	9.43399E-12	9.32636E-12	
9-2.34462E-11	2.34462E-11	9.84951E-12	7.58581E-12	
10-8.70478E-12	8.70478E-12	9.42614E-12	8.43257E-12	
11-3.36974E-11	3.36974E-11	8.53332E-12	1.02182E-11	
12-7.23598E-11	7.23598E-11	1.04828E-11	7.22865E-12	
13-2.60465E-12	2.60465E-12	7.53571E-12	5.84695E-12	
14-6.05100E-11	6.05100E-11	6.99505E-12	9.65676E-12	
15-9.54049E-11	9.54049E-11	8.23246E-12	1.35484E-11	
16-9.51599E-11	9.51599E-11	1.31478E-11	1.73601E-11	
17-6.53245E-11	6.53245E-11	1.71618E-11	2.11556E-11	
18-8.24663E-11	8.24663E-11	1.96690E-11	2.34171E-11	
19-6.41423E-11	6.41423E-11	2.19715E-11	2.51786E-11	
20-7.73274E-11	7.73274E-11	2.52006E-11	2.87248E-11	
21-7.76314E-11	7.76314E-11	2.78100E-11	3.16915E-11	
22-4.89897E-11	4.89897E-11	2.98032E-11	3.22526E-11	
23-4.95970E-11	4.95970E-11	3.16727E-11	3.30611E-11	
24-7.66724E-11	7.66724E-11	3.32829E-11	3.62071E-11	



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VIC100 004	A	125 di 401

RELAZIONE DI CALCOLO

25-1.20416E-11 1.20416E-11 3.65429E-11-3.60536E-11
 26 4.23821E-11-4.23821E-11 3.72074E-11-3.83625E-11
 27 3.97377E-11-3.97377E-11 3.93461E-11-3.49946E-11
 28 1.71024E-11-1.71024E-11 3.51490E-11-3.42939E-11
 29 6.87061E-11-6.87061E-11 3.32806E-11-3.07548E-11
 30 3.09249E-11-3.09249E-11 3.16808E-11-2.75879E-11
 31 7.90315E-11-7.90315E-11 2.82382E-11-2.44686E-11
 32 5.24426E-11-5.24426E-11 2.44603E-11-2.20200E-11
 33-4.42851E-11 4.42851E-11 2.27678E-11-2.35860E-11
 34-6.83580E-11 6.83580E-11 2.51148E-11-2.61680E-11
 35-1.07819E-11 1.07819E-11 2.66807E-11-2.75836E-11
 36 1.77479E-11-1.77479E-11 2.86720E-11-2.72389E-11
 37-1.99306E-11 1.99306E-11 2.73165E-11-2.81311E-11
 38-5.18149E-11 5.18149E-11 2.73308E-11-2.99215E-11
 39-1.68290E-11 1.68290E-11 2.91871E-11-2.98467E-11
 40-3.92438E-11 3.92438E-11 2.87529E-11-3.07151E-11
 41 3.14048E-11-3.14048E-11 2.98091E-11-2.86027E-11
 42-2.85466E-11 2.85466E-11 2.92344E-11-3.06617E-11
 43-1.10036E-11 1.10036E-11 3.02544E-11-3.04407E-11
 44 6.19511E-11-6.19511E-11 3.17734E-11-2.83121E-11
 45 1.75113E-11-1.75113E-11 2.88500E-11-2.87020E-11
 46 1.27843E-11-1.27843E-11 2.96807E-11-2.79501E-11
 47-7.23664E-12 7.23664E-12 2.94077E-11-2.75867E-11
 48 4.82056E-11-4.82056E-11 2.99679E-11-2.64662E-11
 49 9.95856E-11-9.95856E-11 2.71862E-11-2.29346E-11
 50-3.67551E-12 3.67551E-12 2.27974E-11-2.17079E-11
 51 5.08660E-11-5.08660E-11 2.15842E-11-1.86771E-11
 52 7.99095E-11-7.99095E-11 1.93398E-11-1.58900E-11
 53 6.36787E-11-6.36787E-11 1.72503E-11-1.27931E-11
 54 1.80297E-11-1.80297E-11 1.27909E-11-1.07980E-11
 55 2.24924E-12-2.24924E-12 1.07089E-11-1.13240E-11
 56-3.97818E-11 3.97818E-11 1.12817E-11-1.29070E-11
 57-4.45480E-11 4.45480E-11 1.21758E-11-1.65756E-11
 58-1.19887E-10 1.19887E-10 1.55854E-11-2.06703E-11
 59-3.39509E-11 3.39509E-11 1.97462E-11-2.23532E-11
 60-4.38344E-11 4.38344E-11 2.28557E-11-2.61388E-11
 61-6.99810E-13 6.99810E-13 2.44841E-11-2.56104E-11
 62-7.69366E-11 7.69366E-11 2.50324E-11-2.72422E-11
 63-8.58014E-11 8.58014E-11 2.79770E-11-3.13575E-11
 64-7.85108E-11 7.85108E-11 3.20396E-11-3.59652E-11
 65-7.12232E-11 7.12232E-11 3.52534E-11-3.86326E-11
 66-2.35608E-11 2.35608E-11 3.79880E-11-3.95298E-11
 67-5.51246E-11 5.51246E-11 3.92809E-11-4.14915E-11
 68-7.09044E-12 7.09044E-12 4.20824E-11-4.13455E-11
 69-7.31679E-12 7.31679E-12 4.10478E-11-4.15956E-11
 70 6.65085E-11-6.65085E-11 3.96104E-11-3.81040E-11
 71 9.13993E-11-9.13993E-11 3.70542E-11-3.13929E-11
 72 2.78148E-11-2.78148E-11 2.99918E-11-3.00563E-11
 73 1.64141E-11-1.64141E-11 2.98625E-11-2.75866E-11
 74 9.72576E-11-9.72576E-11 2.83601E-11-2.33153E-11
 75 1.10744E-10-1.10744E-10 2.40980E-11-1.81970E-11
 76 1.54855E-10-1.54855E-10 1.75573E-11-1.12697E-11
 77 9.19685E-11-9.19685E-11 1.09309E-11-7.24199E-12
 78 3.44060E-11-3.44060E-11 7.02742E-12-5.04455E-12
 79 1.09835E-10-1.09835E-10 6.01425E-12 2.05077E-13
 80 1.65739E-10-1.65739E-10 3.38356E-14 7.34363E-12
 81 1.65304E-10-1.65304E-10-7.55254E-12 1.67272E-11
 82 1.38930E-10-1.38930E-10-1.64457E-11 2.34973E-11
 83 1.32524E-10-1.32524E-10-2.28327E-11 2.89132E-11
 84 6.86370E-11-6.86370E-11-2.86875E-11 3.17555E-11
 85-4.72587E-11 4.72587E-11-3.11648E-11 3.04389E-11
 86-5.97432E-12 5.97432E-12-3.08405E-11 3.01780E-11
 87 1.48264E-11-1.48264E-11-3.03725E-11 3.02044E-11
 88 7.68916E-11-7.68916E-11-2.91747E-11 3.35096E-11
 89 1.11498E-10-1.11498E-10-3.24600E-11 3.69435E-11
 90 7.40125E-11-7.40125E-11-3.64195E-11 3.99383E-11
 91 2.69999E-11-2.69999E-11-3.94465E-11 4.02508E-11
 92-4.27135E-12 4.27135E-12-3.94826E-11 4.10880E-11
 93-1.50368E-11 1.50368E-11-3.88846E-11 3.95556E-11
 94 2.31634E-11-2.31634E-11-3.87222E-11 4.16994E-11
 95 1.91175E-12-1.91175E-12-4.16230E-11 4.04453E-11
 96 2.86486E-11-2.86486E-11-4.22688E-11 4.27917E-11
 97-6.93055E-11 6.93055E-11-4.23249E-11 3.99510E-11
 98-2.95869E-11 2.95869E-11-4.00284E-11 3.72679E-11
 99-1.24949E-11 1.24949E-11-3.81645E-11 3.82673E-11
 100-2.02215E-12 2.02215E-12-3.82325E-11 3.81314E-11
 101-6.83395E-11 6.83395E-11-3.87921E-11 3.42837E-11
 102-9.99644E-11 9.99644E-11-3.48323E-11 2.85608E-11
 103-3.27253E-11 3.27253E-11-2.77654E-11 2.54142E-11
 104 2.34476E-11-2.34476E-11-2.51357E-11 2.43072E-11
 105 4.33507E-11-4.33507E-11-2.56528E-11 2.60014E-11



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	126 di 401

106 1.01209E-11-1.01209E-11-2.55397E-11 2.80466E-11
107-9.09039E-11 9.09039E-11-2.66778E-11 2.39515E-11
108-8.39795E-11 8.39795E-11-2.35307E-11 1.84222E-11
109-1.39298E-10 1.39298E-10-1.83796E-11 1.23536E-11
110-1.08520E-10 1.08520E-10-1.13280E-11 6.44776E-12
111-1.46241E-10 1.46241E-10-6.07532E-12 5.82282E-13
112-1.36442E-10 1.36442E-10 3.00273E-14-7.21590E-12
113-1.43587E-10 1.43587E-10 6.82310E-12-1.36386E-11
114-1.49965E-10 1.49965E-10 1.41231E-11-2.08666E-11
115-2.78572E-11 2.78572E-11 2.14849E-11-2.16044E-11
116-5.32371E-11 5.32371E-11 2.29415E-11-2.68766E-11
117-8.20656E-11 8.20656E-11 2.61596E-11-3.13543E-11
118-5.63377E-11 5.63377E-11 3.24092E-11-3.43166E-11
119-2.91734E-11 2.91734E-11 3.43204E-11-3.59511E-11
120 4.21365E-11-4.21365E-11 3.61119E-11-3.23680E-11
121 4.70937E-11-4.70937E-11 3.21928E-11-3.11114E-11
122 4.71224E-12-4.71224E-12 3.11833E-11-3.31304E-11
123 3.37287E-11-3.37287E-11 3.31827E-11-3.00411E-11
124 1.04280E-10-1.04280E-10 2.99293E-11-2.56339E-11
125 1.88255E-10-1.88255E-10 2.46623E-11-1.52495E-11
126 1.23159E-10-1.23159E-10 1.61195E-11-9.59774E-12
127 2.44954E-11-2.44954E-11 8.53308E-12-7.49020E-12
128 3.85290E-11-3.85290E-11 7.43304E-12-6.96178E-12
129-7.42497E-13 7.42497E-13 5.68713E-12-4.99665E-12
130 8.20238E-11-8.20238E-11 4.81787E-12-1.27819E-12
131 1.16162E-10-1.16162E-10 1.08718E-12 4.90284E-12
132 4.53629E-11-4.53629E-11-6.39864E-12 8.12109E-12
133 6.11706E-11-6.11706E-11-8.62113E-12 1.00426E-11
134 3.07791E-11-3.07791E-11-1.00978E-11 1.07272E-11
135 3.03927E-11-3.03927E-11-1.09567E-11 1.17378E-11
136 5.39526E-11-5.39526E-11-1.08030E-11 1.47739E-11
137-7.65854E-12 7.65854E-12-1.46189E-11 1.25989E-11
138 2.69643E-11-2.69643E-11-1.28899E-11 1.33286E-11
139-4.38443E-11 4.38443E-11-1.37668E-11 1.15746E-11
140-3.15130E-11 3.15130E-11-1.32592E-11 1.34994E-11
141 1.22533E-10-1.22533E-10-1.37830E-11 1.88182E-11
142 3.83678E-11-3.83678E-11-1.81566E-11 2.00751E-11
143-5.29336E-11 5.29336E-11-1.95572E-11 1.72743E-11
144-6.52868E-11 6.52868E-11-1.73378E-11 1.35277E-11
145 5.24726E-11-5.24726E-11-1.40388E-11 1.64877E-11
146 7.09379E-11-7.09379E-11-1.73714E-11 1.98269E-11
147 3.95186E-11-3.95186E-11-1.93502E-11 2.22357E-11
148-5.65946E-11 5.65946E-11-2.22861E-11 2.09115E-11
149-3.23149E-11 3.23149E-11-2.16389E-11 1.85679E-11
150-7.56156E-11 7.56156E-11-1.92683E-11 1.51237E-11
151 6.75783E-12-6.75783E-12-1.41898E-11 1.70951E-11
152-2.13707E-11 2.13707E-11-1.58176E-11 1.56585E-11
153 3.25418E-11-3.25418E-11-1.52828E-11 1.67280E-11
154-7.16506E-11 7.16506E-11-1.60493E-11 1.24667E-11
155-1.17726E-10 1.17726E-10-1.28154E-11 6.20151E-12
156-4.37167E-11 4.37167E-11-7.69201E-12 4.62487E-12
157 6.85918E-12-6.85918E-12-5.34265E-12 5.68561E-12
158 1.97381E-11-1.97381E-11-7.49269E-12 5.93301E-12
159-1.62058E-11 1.62058E-11-7.12162E-12 7.58463E-12
160-7.67438E-11 7.67438E-11-6.97856E-12 3.32327E-12
161-3.20436E-11 3.20436E-11-2.76700E-12 1.74195E-12
162 1.03984E-11-1.03984E-11-1.03935E-12 1.55927E-12
163-6.97195E-11 6.97195E-11-8.58827E-13 1.01334E-13
164-7.13940E-11 7.13940E-11 6.29089E-13-4.19879E-12
165-1.01758E-10 1.01758E-10 3.88226E-12-8.60638E-12
166-3.58828E-11 3.58828E-11 9.53744E-12-1.18479E-11
167-5.04628E-11 5.04628E-11 1.04367E-11-1.55064E-11
168-1.22762E-11 1.22762E-11 1.47717E-11-1.32028E-11
169-4.38433E-11 4.38433E-11 1.26085E-11-1.38912E-11
170 1.28532E-11-1.28532E-11 1.37354E-11-1.16375E-11
171 1.88761E-12-1.88761E-12 1.13092E-11-1.01234E-11
172 2.47355E-11-2.47355E-11 1.01204E-11-7.95347E-12
173-3.40228E-11 3.40228E-11 8.04284E-12-1.02897E-11
174 1.36092E-11-1.36092E-11 1.07163E-11-9.49017E-12
175-2.37082E-12 2.37082E-12 8.93417E-12-8.50701E-12
176 6.70595E-11-6.70595E-11 8.69678E-12-5.34381E-12
177 6.59942E-12-6.59942E-12 6.11793E-12-5.04455E-12
178 3.35066E-11-3.35066E-11 3.77199E-12-3.36995E-12
179-6.56289E-11 6.56289E-11 3.08986E-12-4.73422E-12
180-8.23132E-11 8.23132E-11 3.84255E-12-9.59530E-12
181-7.65854E-11 7.65854E-11 7.69726E-12-1.18903E-11
182-7.60691E-11 7.60691E-11 1.14689E-11-1.61705E-11
183-4.12822E-11 4.12822E-11 1.55010E-11-1.53823E-11
184-9.60001E-12 9.60001E-12 1.65747E-11-1.77823E-11
185-1.11595E-11 1.11595E-11 1.79433E-11-1.77736E-11
186-9.47580E-12 9.47580E-12 1.70618E-11-1.86270E-11



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	127 di 401

RELAZIONE DI CALCOLO

187-3.23311E-12 3.23311E-12 1.96520E-11-2.07226E-11
 188 7.76922E-13-7.76922E-13 2.11132E-11-2.14382E-11
 189-5.68806E-12 5.68806E-12 2.13693E-11-2.36546E-11
 190 3.04584E-11-3.04584E-11 2.33056E-11-2.06913E-11
 191-3.37856E-13 3.37856E-13 2.06096E-11-2.15360E-11
 192-1.27753E-11 1.27753E-11 2.13683E-11-2.09281E-11
 193 2.99511E-11-2.99511E-11 2.17207E-11-2.02232E-11
 194 2.78416E-11-2.78416E-11 2.18675E-11-1.90202E-11
 195 1.67098E-11-1.67098E-11 1.79833E-11-1.95125E-11
 196 5.05108E-11-5.05108E-11 1.86073E-11-1.64456E-11
 197 5.36543E-11-5.36543E-11 1.59919E-11-1.25815E-11
 198 9.07940E-11-9.07940E-11 1.13276E-11-6.44863E-12
 199 9.89620E-11-9.89620E-11 7.71266E-12-1.85507E-12
 200 6.88378E-11-6.88378E-11 2.28538E-12 2.32867E-14

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 336.8 REMNOR=0.1458E-21 RATIO =0.2412 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.2412 RATOR= 0.000
 MAX UN= 2.373 IEQ= 129 NODE 65 DOF 1 Y-DISPL.F
 MIN UN=-.2381E-11 IEQ= 96 NODE 48 DOF 2 X-ROT. F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 67.34 REMNOR=0.2017E-20 RATIO =0.1079 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.1079 RATOR= 0.000
 MAX UN= 1.189 IEQ= 79 NODE 40 DOF 1 Y-DISPL.F
 MIN UN=-.4340E-09 IEQ= 221 NODE 111 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 926.4 REMNOR=0.2545E-17 RATIO =0.4001 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.4001 RATOR= 0.000
 MAX UN= 13.26 IEQ= 131 NODE 66 DOF 1 Y-DISPL.F
 MIN UN=-.2365E-07 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 787.5 REMNOR=0.5857E-17 RATIO =0.3689 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.3689 RATOR= 0.000
 MAX UN= 12.30 IEQ= 181 NODE 91 DOF 1 Y-DISPL.F
 MIN UN=-.1549 IEQ= 235 NODE 118 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 497.8 REMNOR=0.5697E-17 RATIO =0.2933 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.2933 RATOR= 0.000
 MAX UN= 10.64 IEQ= 205 NODE 103 DOF 1 Y-DISPL.F
 MIN UN=-.7762 IEQ= 227 NODE 114 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 132.8 REMNOR=0.7850E-17 RATIO =0.1515 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15



LINEA PESCARA - BARI
 RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:
 Lotto 1: Ripalta - Lesina
 PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VIC100 004	A	128 di 401

RELAZIONE DI CALCOLO

RATIOT=0.1515 RATION= 0.000
 MAX UN= 5.552 IEQ= 229 NODE 115 DOF 1 Y-DISPL.F
 MIN UN=-.6633 IEQ= 247 NODE 124 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 7 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 13.26 REMNOR=0.5816E-17 RATIO =0.4787E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIOT=0.4787E-01 RATION= 0.000
 MAX UN= 2.205 IEQ= 245 NODE 123 DOF 1 Y-DISPL.F
 MIN UN=-.1885 IEQ= 269 NODE 135 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 8 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM=0.1419 REMNOR=0.4612E-17 RATIO =0.4951E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIOT=0.4951E-02 RATION= 0.000
 MAX UN=0.3428 IEQ= 229 NODE 115 DOF 1 Y-DISPL.F
 MIN UN=-.1837E-01 IEQ= 287 NODE 144 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 9 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM=0.2374E-13 REMNOR=0.4924E-17 RATIO =0.2025E-08 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIOT=0.2025E-08 RATION= 0.000
 MAX UN=0.4668E-07 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F
 MIN UN=-.4213E-07 IEQ= 39 NODE 20 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

 PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection 28.SLERara_896
 Exe Time :21 June 2016 11:57:45

paratia_mario
 SOLUTION REACHED USING 9 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F (02)	X-ROT. F (04)
1	5.9423760E-02	-1.2997294E-02
2	5.8773895E-02	-1.2997287E-02
3	5.8124032E-02	-1.2997251E-02
4	5.7474171E-02	-1.2997157E-02
5	5.6824317E-02	-1.2996973E-02
6	5.6174476E-02	-1.2996669E-02
7	5.5524653E-02	-1.2996210E-02
8	5.4874858E-02	-1.2995563E-02
9	5.4225101E-02	-1.2994693E-02
10	5.3575393E-02	-1.2993564E-02
11	5.2925748E-02	-1.2992139E-02
12	5.2276183E-02	-1.2990380E-02
13	5.1626716E-02	-1.2988247E-02
14	5.0977366E-02	-1.2985700E-02
15	5.0328154E-02	-1.2982698E-02
16	4.9679104E-02	-1.2979199E-02
17	4.9030243E-02	-1.2975160E-02
18	4.8381598E-02	-1.2970535E-02
19	4.7733198E-02	-1.2965280E-02
20	4.7085080E-02	-1.2959347E-02
21	4.6437278E-02	-1.2952690E-02
22	4.5789826E-02	-1.2945260E-02



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	129 di 401

RELAZIONE DI CALCOLO

23	4.5142766E-02	-1.2937007E-02
24	4.4496140E-02	-1.2927881E-02
25	4.3849993E-02	-1.2917829E-02
26	4.3204373E-02	-1.2906799E-02
27	4.2559331E-02	-1.2894737E-02
28	4.1914918E-02	-1.2881588E-02
29	4.1271191E-02	-1.2867297E-02
30	4.0628208E-02	-1.2851806E-02
31	3.9986031E-02	-1.2835058E-02
32	3.9344724E-02	-1.2816992E-02
33	3.8704355E-02	-1.2797550E-02
34	3.8065006E-02	-1.2776670E-02
35	3.7426726E-02	-1.2754290E-02
36	3.6789603E-02	-1.2730346E-02
37	3.6153718E-02	-1.2704775E-02
38	3.5519154E-02	-1.2677511E-02
39	3.4885996E-02	-1.2648487E-02
40	3.4254336E-02	-1.2617636E-02
41	3.3624264E-02	-1.2584890E-02
42	3.2995879E-02	-1.2550179E-02
43	3.2369280E-02	-1.2513433E-02
44	3.1744571E-02	-1.2474580E-02
45	3.1121859E-02	-1.2433547E-02
46	3.0501254E-02	-1.2390260E-02
47	2.9882872E-02	-1.2344646E-02
48	2.9266830E-02	-1.2296627E-02
49	2.8653250E-02	-1.2246128E-02
50	2.8042259E-02	-1.2193071E-02
51	2.7433987E-02	-1.2137375E-02
52	2.6828567E-02	-1.2078963E-02
53	2.6226138E-02	-1.2017751E-02
54	2.5626840E-02	-1.1953659E-02
55	2.5030821E-02	-1.1886603E-02
56	2.4438231E-02	-1.1816499E-02
57	2.3849223E-02	-1.1743263E-02
58	2.3263970E-02	-1.1666808E-02
59	2.2682609E-02	-1.1587045E-02
60	2.2105322E-02	-1.1503887E-02
61	2.1532279E-02	-1.1417245E-02
62	2.0963657E-02	-1.1327027E-02
63	2.0399637E-02	-1.1233144E-02
64	1.9840405E-02	-1.1135501E-02
65	1.9286151E-02	-1.1034006E-02
66	1.8737070E-02	-1.0928564E-02
67	1.8193361E-02	-1.0819134E-02
68	1.7655223E-02	-1.0705732E-02
69	1.7122854E-02	-1.0588381E-02
70	1.6596450E-02	-1.0467115E-02
71	1.6076207E-02	-1.0341971E-02
72	1.5562317E-02	-1.0212998E-02
73	1.5054970E-02	-1.0080251E-02
74	1.4554354E-02	-9.9437913E-03
75	1.4060652E-02	-9.8036899E-03
76	1.3574044E-02	-9.6600247E-03
77	1.3094707E-02	-9.5128815E-03
78	1.2622812E-02	-9.3623535E-03
79	1.2158536E-02	-9.2085450E-03
80	1.1702020E-02	-9.0515587E-03
81	1.1253431E-02	-8.8915141E-03
82	1.0812918E-02	-8.7285354E-03
83	1.0380615E-02	-8.5627492E-03
84	9.9566785E-03	-8.3942956E-03
85	9.5412281E-03	-8.2233086E-03
86	9.1343875E-03	-8.0499290E-03
87	8.7362727E-03	-7.8743012E-03
88	8.3469924E-03	-7.6965734E-03
89	7.9666403E-03	-7.5168937E-03
90	7.5953252E-03	-7.3354249E-03
91	7.2331250E-03	-7.1523224E-03
92	6.8801175E-03	-6.9677488E-03
93	6.5363719E-03	-6.7818707E-03
94	6.2019427E-03	-6.5948542E-03
95	5.8768957E-03	-6.4068806E-03
96	5.5612677E-03	-6.2181234E-03
97	5.2550934E-03	-6.0287636E-03
98	4.9583983E-03	-5.8389859E-03
99	4.6711930E-03	-5.6489746E-03
100	4.3934957E-03	-5.4589294E-03
101	4.1252974E-03	-5.2690420E-03
102	3.8665855E-03	-5.0795115E-03
103	3.6173369E-03	-4.8905410E-03



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	130 di 401

RELAZIONE DI CALCOLO

104	3.3775139E-03	-4.7023331E-03
105	3.1470825E-03	-4.5151056E-03
106	2.9259835E-03	-4.3290684E-03
107	2.7141522E-03	-4.1444391E-03
108	2.5115125E-03	-3.9614388E-03
109	2.3179774E-03	-3.7802922E-03
110	2.1334449E-03	-3.6012242E-03
111	1.9578126E-03	-3.4244740E-03
112	1.7909550E-03	-3.2502737E-03
113	1.6327388E-03	-3.0788627E-03
114	1.4830182E-03	-2.9104840E-03
115	1.3416330E-03	-2.7453809E-03
116	1.2084184E-03	-2.5838104E-03
117	1.0831889E-03	-2.4260181E-03
118	9.6574975E-04	-2.2722369E-03
119	8.5589492E-04	-2.1226758E-03
120	7.5340675E-04	-1.9775180E-03
121	6.5806482E-04	-1.8369341E-03
122	5.6963474E-04	-1.7010664E-03
123	4.8787746E-04	-1.5700417E-03
124	4.1254802E-04	-1.4439700E-03
125	3.4339502E-04	-1.3229431E-03
126	2.8016681E-04	-1.2070460E-03
127	2.2260386E-04	-1.0963428E-03
128	1.7044505E-04	-9.9088791E-04
129	1.2342694E-04	-8.9072053E-04
130	8.1284570E-05	-7.9585904E-04
131	4.3752060E-05	-7.0629198E-04
132	1.0566951E-05	-6.2198424E-04
133	-1.8532911E-05	-5.4286930E-04
134	-4.3805062E-05	-4.6885935E-04
135	-6.5502125E-05	-3.9984614E-04
136	-8.3871199E-05	-3.3570292E-04
137	-9.9151680E-05	-2.7629281E-04
138	-1.1157683E-04	-2.2146341E-04
139	-1.2137168E-04	-1.7105382E-04
140	-1.2875305E-04	-1.2489509E-04
141	-1.3392920E-04	-8.2810973E-05
142	-1.3709919E-04	-4.4622675E-05
143	-1.3845331E-04	-1.0145127E-05
144	-1.3817244E-04	2.0808336E-05
145	-1.3642809E-04	4.8425389E-05
146	-1.3338231E-04	7.2893811E-05
147	-1.2918804E-04	9.4398746E-05
148	-1.2398875E-04	1.1312491E-04
149	-1.1791883E-04	1.2925396E-04
150	-1.1110367E-04	1.4296440E-04
151	-1.0365979E-04	1.5443110E-04
152	-9.5694944E-05	1.6382484E-04
153	-8.7308945E-05	1.7131070E-04
154	-7.8593011E-05	1.7704836E-04
155	-6.9630692E-05	1.8119107E-04
156	-6.0498040E-05	1.8388559E-04
157	-5.1263747E-05	1.8527214E-04
158	-4.1990218E-05	1.8548412E-04
159	-3.2732798E-05	1.8464832E-04
160	-2.3540850E-05	1.8288470E-04
161	-1.4457904E-05	1.8030651E-04
162	-5.5218220E-06	1.7702025E-04
163	3.2341676E-06	1.7312607E-04
164	1.1782211E-05	1.6871747E-04
165	2.0098795E-05	1.6388169E-04
166	2.8164612E-05	1.5869983E-04
167	3.5964415E-05	1.5324691E-04
168	4.3486102E-05	1.4759247E-04
169	5.0721365E-05	1.4180015E-04
170	5.7664791E-05	1.3592830E-04
171	6.4313756E-05	1.3003010E-04
172	7.0668166E-05	1.2415376E-04
173	7.6730339E-05	1.1834264E-04
174	8.2504291E-05	1.1263587E-04
175	8.7996241E-05	1.0706796E-04
176	9.3213909E-05	1.0166936E-04
177	9.8166442E-05	9.6466644E-05
178	1.0286431E-04	9.1482537E-05
179	1.0731876E-04	8.6736538E-05
180	1.1154220E-04	8.2244487E-05
181	1.1554765E-04	7.8019142E-05
182	1.1934872E-04	7.4070244E-05
183	1.2295947E-04	7.0404594E-05
184	1.2639404E-04	6.7026488E-05



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	131 di 401

RELAZIONE DI CALCOLO

185	1.2966694E-04	6.3937407E-05
186	1.3279259E-04	6.1136441E-05
187	1.3578533E-04	5.8620325E-05
188	1.3865933E-04	5.6383497E-05
189	1.4142826E-04	5.4418363E-05
190	1.4410553E-04	5.2715111E-05
191	1.4670394E-04	5.1261969E-05
192	1.4923567E-04	5.0045212E-05
193	1.5171219E-04	4.9049209E-05
194	1.5414403E-04	4.8256531E-05
195	1.5654091E-04	4.7647875E-05
196	1.5891153E-04	4.7202177E-05
197	1.6126347E-04	4.6896609E-05
198	1.6360312E-04	4.6706599E-05
199	1.6593566E-04	4.6605839E-05
200	1.6826477E-04	4.6566299E-05
201	1.7059188E-04	4.6558225E-05

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SLERara_896
Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 1

0_L
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
UFACTOR	Peq	Su_a	Su_p	LAYER							
1 D	0.2600	-5.9424E-02	57.00	10.40	57.00	33.82	ACTIVE	0.000	0.000	0.000	1.000
1.000	10.40	0.000	0.000	SAL_158_160_L_0							
2 D	0.5392	-5.8774E-02	57.95	10.78	57.95	34.38	ACTIVE	0.000	-5.0000E-02	0.000	1.000
1.000	10.78	0.000	0.000	SAL_158_160_L_0							
3 D	0.5585	-5.8124E-02	58.90	11.17	58.90	34.95	ACTIVE	0.000	-0.1000	0.000	1.000
1.000	11.17	0.000	0.000	SAL_158_160_L_0							
4 D	0.5778	-5.7474E-02	59.85	11.56	59.85	35.51	ACTIVE	0.000	-0.1500	0.000	1.000
1.000	11.56	0.000	0.000	SAL_158_160_L_0							
5 D	0.5971	-5.6824E-02	60.80	11.94	60.80	36.07	ACTIVE	0.000	-0.2000	0.000	1.000
1.000	11.94	0.000	0.000	SAL_158_160_L_0							
6 D	0.6163	-5.6174E-02	61.75	12.33	61.75	36.64	ACTIVE	0.000	-0.2500	0.000	1.000
1.000	12.33	0.000	0.000	SAL_158_160_L_0							
7 D	0.6356	-5.5525E-02	62.70	12.71	62.70	37.20	ACTIVE	0.000	-0.3000	0.000	1.000
1.000	12.71	0.000	0.000	SAL_158_160_L_0							
8 D	0.6549	-5.4875E-02	63.65	13.10	63.65	37.76	ACTIVE	0.000	-0.3500	0.000	1.000
1.000	13.10	0.000	0.000	SAL_158_160_L_0							
9 D	0.6742	-5.4225E-02	64.60	13.48	64.60	38.33	ACTIVE	0.000	-0.4000	0.000	1.000
1.000	13.48	0.000	0.000	SAL_158_160_L_0							
10 D	0.6935	-5.3575E-02	65.55	13.87	65.55	38.89	ACTIVE	0.000	-0.4500	0.000	1.000
1.000	13.87	0.000	0.000	SAL_158_160_L_0							
11 D	0.7128	-5.2926E-02	66.50	14.26	66.50	39.45	ACTIVE	0.000	-0.5000	0.000	1.000
1.000	14.26	0.000	0.000	SAL_158_160_L_0							
12 D	0.7321	-5.2276E-02	67.45	14.64	67.45	40.02	ACTIVE	0.000	-0.5500	0.000	1.000
1.000	14.64	0.000	0.000	SAL_158_160_L_0							
13 D	0.7513	-5.1627E-02	68.40	15.03	68.40	40.58	ACTIVE	0.000	-0.6000	0.000	1.000
1.000	15.03	0.000	0.000	SAL_158_160_L_0							
14 D	0.7706	-5.0977E-02	69.35	15.41	69.35	41.15	ACTIVE	0.000	-0.6500	0.000	1.000
1.000	15.41	0.000	0.000	SAL_158_160_L_0							
15 D	0.7899	-5.0328E-02	70.30	15.80	70.30	41.71	ACTIVE	0.000	-0.7000	0.000	1.000
1.000	15.80	0.000	0.000	SAL_158_160_L_0							
16 D	0.8092	-4.9679E-02	71.25	16.18	71.25	42.27	ACTIVE	0.000	-0.7500	0.000	1.000
1.000	16.18	0.000	0.000	SAL_158_160_L_0							
17 D	0.8285	-4.9030E-02	72.20	16.57	72.20	42.84	ACTIVE	0.000	-0.8000	0.000	1.000
1.000	16.57	0.000	0.000	SAL_158_160_L_0							
18 D	0.8478	-4.8382E-02	73.15	16.96	73.15	43.40	ACTIVE	0.000	-0.8500	0.000	1.000
1.000	16.96	0.000	0.000	SAL_158_160_L_0							
19 D	0.8670	-4.7733E-02	74.10	17.34	74.10	43.96	ACTIVE	0.000	-0.9000	0.000	1.000
1.000	17.34	0.000	0.000	SAL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	132 di 401

20 D	0.8863	-4.7085E-02	75.05	17.73	75.05	44.53	ACTIVE	0.000	-0.9500	0.000	1.000
1.000	17.73	0.000	0.000	5AL_158_160_L_0							
21 D	0.9056	-4.6437E-02	76.00	18.11	76.00	45.09	ACTIVE	0.000	-1.000	0.000	1.000
1.000	18.11	0.000	0.000	5AL_158_160_L_0							
22 D	0.9249	-4.5790E-02	76.95	18.50	76.95	45.65	ACTIVE	0.000	-1.050	0.000	1.000
1.000	18.50	0.000	0.000	5AL_158_160_L_0							
23 D	0.9442	-4.5143E-02	77.90	18.88	77.90	46.22	ACTIVE	0.000	-1.100	0.000	1.000
1.000	18.88	0.000	0.000	5AL_158_160_L_0							
24 D	0.9635	-4.4496E-02	78.85	19.27	78.85	46.78	ACTIVE	0.000	-1.150	0.000	1.000
1.000	19.27	0.000	0.000	5AL_158_160_L_0							
25 D	0.9828	-4.3850E-02	79.80	19.66	79.80	47.35	ACTIVE	0.000	-1.200	0.000	1.000
1.000	19.66	0.000	0.000	5AL_158_160_L_0							
26 D	1.002	-4.3204E-02	80.75	20.04	80.75	47.91	ACTIVE	0.000	-1.250	0.000	1.000
1.000	20.04	0.000	0.000	5AL_158_160_L_0							
27 D	1.021	-4.2559E-02	81.70	20.43	81.70	48.47	ACTIVE	0.000	-1.300	0.000	1.000
1.000	20.43	0.000	0.000	5AL_158_160_L_0							
28 D	1.041	-4.1915E-02	82.65	20.81	82.65	49.04	ACTIVE	0.000	-1.350	0.000	1.000
1.000	20.81	0.000	0.000	5AL_158_160_L_0							
29 D	1.060	-4.1271E-02	83.60	21.20	83.60	49.60	ACTIVE	0.000	-1.400	0.000	1.000
1.000	21.20	0.000	0.000	5AL_158_160_L_0							
30 D	1.079	-4.0628E-02	84.55	21.58	84.55	50.16	ACTIVE	0.000	-1.450	0.000	1.000
1.000	21.58	0.000	0.000	5AL_158_160_L_0							
31 D	1.098	-3.9986E-02	85.50	21.97	85.50	50.73	ACTIVE	0.000	-1.500	0.000	1.000
1.000	21.97	0.000	0.000	5AL_158_160_L_0							
32 D	1.118	-3.9345E-02	86.45	22.36	86.45	51.29	ACTIVE	0.000	-1.550	0.000	1.000
1.000	22.36	0.000	0.000	5AL_158_160_L_0							
33 D	1.137	-3.8704E-02	87.40	22.74	87.40	51.85	ACTIVE	0.000	-1.600	0.000	1.000
1.000	22.74	0.000	0.000	5AL_158_160_L_0							
34 D	1.156	-3.8065E-02	88.35	23.13	88.35	52.42	ACTIVE	0.000	-1.650	0.000	1.000
1.000	23.13	0.000	0.000	5AL_158_160_L_0							
35 D	1.176	-3.7427E-02	89.30	23.51	89.30	52.98	ACTIVE	0.000	-1.700	0.000	1.000
1.000	23.51	0.000	0.000	5AL_158_160_L_0							
36 D	1.195	-3.6790E-02	90.25	23.90	90.25	53.55	ACTIVE	0.000	-1.750	0.000	1.000
1.000	23.90	0.000	0.000	5AL_158_160_L_0							
37 D	1.214	-3.6154E-02	91.20	24.28	91.20	54.11	ACTIVE	0.000	-1.800	0.000	1.000
1.000	24.28	0.000	0.000	5AL_158_160_L_0							
38 D	1.233	-3.5519E-02	92.15	24.67	92.15	54.67	ACTIVE	0.000	-1.850	0.000	1.000
1.000	24.67	0.000	0.000	5AL_158_160_L_0							
39 D	1.253	-3.4886E-02	93.10	25.05	93.10	55.24	ACTIVE	0.000	-1.900	0.000	1.000
1.000	25.05	0.000	0.000	5AL_158_160_L_0							
40 D	1.272	-3.4254E-02	94.05	25.44	94.05	55.80	ACTIVE	0.000	-1.950	0.000	1.000
1.000	25.44	0.000	0.000	5AL_158_160_L_0							
41 D	1.291	-3.3624E-02	95.00	25.83	95.00	56.36	ACTIVE	0.000	-2.000	0.000	1.000
1.000	25.83	0.000	0.000	5AL_158_160_L_0							
42 D	1.311	-3.2996E-02	95.95	26.21	95.95	56.93	ACTIVE	0.000	-2.050	0.000	1.000
1.000	26.21	0.000	0.000	5AL_158_160_L_0							
43 D	1.330	-3.2369E-02	96.90	26.60	96.90	57.49	ACTIVE	0.000	-2.100	0.000	1.000
1.000	26.60	0.000	0.000	5AL_158_160_L_0							
44 D	1.349	-3.1745E-02	97.85	26.98	97.85	58.05	ACTIVE	0.000	-2.150	0.000	1.000
1.000	26.98	0.000	0.000	5AL_158_160_L_0							
45 D	1.368	-3.1122E-02	98.80	27.37	98.80	58.62	ACTIVE	0.000	-2.200	0.000	1.000
1.000	27.37	0.000	0.000	5AL_158_160_L_0							
46 D	1.388	-3.0501E-02	99.75	27.75	99.75	59.18	ACTIVE	0.000	-2.250	0.000	1.000
1.000	27.75	0.000	0.000	5AL_158_160_L_0							
47 D	1.407	-2.9883E-02	100.7	28.14	100.7	59.75	ACTIVE	0.000	-2.300	0.000	1.000
1.000	28.14	0.000	0.000	5AL_158_160_L_0							
48 D	1.426	-2.9267E-02	101.6	28.53	101.6	60.31	ACTIVE	0.000	-2.350	0.000	1.000
1.000	28.53	0.000	0.000	5AL_158_160_L_0							
49 D	1.446	-2.8653E-02	102.6	28.91	102.6	60.87	ACTIVE	0.000	-2.400	0.000	1.000
1.000	28.91	0.000	0.000	5AL_158_160_L_0							
50 D	1.465	-2.8042E-02	103.5	29.30	103.5	61.44	ACTIVE	0.000	-2.450	0.000	1.000
1.000	29.30	0.000	0.000	5AL_158_160_L_0							
51 D	1.484	-2.7434E-02	104.5	29.68	104.5	62.00	ACTIVE	0.000	-2.500	0.000	1.000
1.000	29.68	0.000	0.000	5AL_158_160_L_0							
52 D	1.503	-2.6829E-02	105.4	30.07	105.4	62.56	ACTIVE	0.000	-2.550	0.000	1.000
1.000	30.07	0.000	0.000	5AL_158_160_L_0							
53 D	1.523	-2.6226E-02	106.4	30.45	106.4	63.13	ACTIVE	0.000	-2.600	0.000	1.000
1.000	30.45	0.000	0.000	5AL_158_160_L_0							
54 D	1.542	-2.5627E-02	107.3	30.84	107.3	63.69	ACTIVE	0.000	-2.650	0.000	1.000
1.000	30.84	0.000	0.000	5AL_158_160_L_0							
55 D	1.561	-2.5031E-02	108.3	31.23	108.3	64.25	ACTIVE	0.000	-2.700	0.000	1.000
1.000	31.23	0.000	0.000	5AL_158_160_L_0							
56 D	1.581	-2.4438E-02	109.2	31.61	109.2	64.82	ACTIVE	0.000	-2.750	0.000	1.000
1.000	31.61	0.000	0.000	5AL_158_160_L_0							
57 D	1.600	-2.3849E-02	110.2	32.00	110.2	65.38	ACTIVE	0.000	-2.800	0.000	1.000
1.000	32.00	0.000	0.000	5AL_158_160_L_0							
58 D	1.619	-2.3264E-02	111.1	32.38	111.1	65.95	ACTIVE	0.000	-2.850	0.000	1.000
1.000	32.38	0.000	0.000	5AL_158_160_L_0							
59 D	1.638	-2.2683E-02	112.1	32.77	112.1	66.51	ACTIVE	0.000	-2.900	0.000	1.000
1.000	32.77	0.000	0.000	5AL_158_160_L_0							
60 D	1.658	-2.2105E-02	113.0	33.15	113.0	67.07	ACTIVE	0.000	-2.950	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	133 di 401

1.000	33.15	0.000	0.000	SAL_158_160_L_0							
61 D	1.677	-2.1532E-02	114.0	33.54	114.0	67.64	ACTIVE	0.000	-3.000	0.000	1.000
1.000	33.54	0.000	0.000	SAL_158_160_L_0							
62 D	1.696	-2.0964E-02	114.9	33.93	114.9	68.20	ACTIVE	0.000	-3.050	0.000	1.000
1.000	33.93	0.000	0.000	SAL_158_160_L_0							
63 D	1.716	-2.0400E-02	115.9	34.31	115.9	68.76	ACTIVE	0.000	-3.100	0.000	1.000
1.000	34.31	0.000	0.000	SAL_158_160_L_0							
64 D	1.735	-1.9840E-02	116.8	34.70	116.8	69.33	ACTIVE	0.000	-3.150	0.000	1.000
1.000	34.70	0.000	0.000	SAL_158_160_L_0							
65 D	1.754	-1.9286E-02	117.8	35.08	117.8	69.89	ACTIVE	0.000	-3.200	0.000	1.000
1.000	35.08	0.000	0.000	SAL_158_160_L_0							
66 D	1.773	-1.8737E-02	118.7	35.47	118.7	70.45	ACTIVE	0.000	-3.250	0.000	1.000
1.000	35.47	0.000	0.000	SAL_158_160_L_0							
67 D	1.793	-1.8193E-02	119.7	35.85	119.7	71.02	ACTIVE	0.000	-3.300	0.000	1.000
1.000	35.85	0.000	0.000	SAL_158_160_L_0							
68 D	1.812	-1.7655E-02	120.6	36.24	120.6	71.58	ACTIVE	0.000	-3.350	0.000	1.000
1.000	36.24	0.000	0.000	SAL_158_160_L_0							
69 D	1.831	-1.7123E-02	121.6	36.63	121.6	72.15	ACTIVE	0.000	-3.400	0.000	1.000
1.000	36.63	0.000	0.000	SAL_158_160_L_0							
70 D	1.851	-1.6596E-02	122.5	37.01	122.5	72.71	ACTIVE	0.000	-3.450	0.000	1.000
1.000	37.01	0.000	0.000	SAL_158_160_L_0							
71 D	1.870	-1.6076E-02	123.5	37.40	123.5	73.27	ACTIVE	0.000	-3.500	0.000	1.000
1.000	37.40	0.000	0.000	SAL_158_160_L_0							
72 D	1.889	-1.5562E-02	124.4	37.78	124.4	73.84	ACTIVE	0.000	-3.550	0.000	1.000
1.000	37.78	0.000	0.000	SAL_158_160_L_0							
73 D	1.908	-1.5055E-02	125.4	38.17	125.4	74.40	ACTIVE	0.000	-3.600	0.000	1.000
1.000	38.17	0.000	0.000	SAL_158_160_L_0							
74 D	1.928	-1.4554E-02	126.3	38.55	126.3	74.96	ACTIVE	0.000	-3.650	0.000	1.000
1.000	38.55	0.000	0.000	SAL_158_160_L_0							
75 D	1.947	-1.4061E-02	127.3	38.94	127.3	75.53	ACTIVE	0.000	-3.700	0.000	1.000
1.000	38.94	0.000	0.000	SAL_158_160_L_0							
76 D	1.966	-1.3574E-02	128.2	39.33	128.2	76.09	ACTIVE	0.000	-3.750	0.000	1.000
1.000	39.33	0.000	0.000	SAL_158_160_L_0							
77 D	1.986	-1.3095E-02	129.2	39.71	129.2	76.65	ACTIVE	0.000	-3.800	0.000	1.000
1.000	39.71	0.000	0.000	SAL_158_160_L_0							
78 D	2.005	-1.2623E-02	130.1	40.10	130.1	77.22	ACTIVE	0.000	-3.850	0.000	1.000
1.000	40.10	0.000	0.000	SAL_158_160_L_0							
79 D	2.024	-1.2159E-02	131.1	40.48	131.1	77.78	ACTIVE	0.000	-3.900	0.000	1.000
1.000	40.48	0.000	0.000	SAL_158_160_L_0							
80 D	2.043	-1.1702E-02	132.0	40.87	132.0	78.35	ACTIVE	0.000	-3.950	0.000	1.000
1.000	40.87	0.000	0.000	SAL_158_160_L_0							
81 D	2.063	-1.1253E-02	133.0	41.25	133.0	78.91	ACTIVE	0.000	-4.000	0.000	1.000
1.000	41.25	0.000	0.000	SAL_158_160_L_0							
82 D	2.097	-1.0813E-02	133.4	41.44	133.4	79.18	ACTIVE	0.000	-4.050	0.5000	1.000
1.000	41.94	0.000	0.000	SAL_158_160_L_0							
83 D	2.131	-1.0381E-02	133.9	41.62	133.9	79.44	ACTIVE	0.000	-4.100	1.000	1.000
1.000	42.62	0.000	0.000	SAL_158_160_L_0							
84 D	2.165	-9.9567E-03	134.3	41.80	134.3	79.71	ACTIVE	0.000	-4.150	1.500	1.000
1.000	43.30	0.000	0.000	SAL_158_160_L_0							
85 D	2.199	-9.5412E-03	134.8	41.99	134.8	79.98	ACTIVE	0.000	-4.200	2.000	1.000
1.000	43.99	0.000	0.000	SAL_158_160_L_0							
86 D	2.233	-9.1344E-03	135.2	42.17	135.2	80.24	ACTIVE	0.000	-4.250	2.500	1.000
1.000	44.67	0.000	0.000	SAL_158_160_L_0							
87 D	2.268	-8.7363E-03	135.7	42.35	135.7	80.51	ACTIVE	0.000	-4.300	3.000	1.000
1.000	45.35	0.000	0.000	SAL_158_160_L_0							
88 D	2.302	-8.3470E-03	136.1	42.53	136.1	80.78	ACTIVE	0.000	-4.350	3.500	1.000
1.000	46.03	0.000	0.000	SAL_158_160_L_0							
89 D	2.336	-7.9666E-03	136.6	42.72	136.6	81.04	ACTIVE	0.000	-4.400	4.000	1.000
1.000	46.72	0.000	0.000	SAL_158_160_L_0							
90 D	2.370	-7.5953E-03	137.0	42.90	137.0	81.31	ACTIVE	0.000	-4.450	4.500	1.000
1.000	47.40	0.000	0.000	SAL_158_160_L_0							
91 D	2.404	-7.2331E-03	137.5	43.08	137.5	81.58	ACTIVE	0.000	-4.500	5.000	1.000
1.000	48.08	0.000	0.000	SAL_158_160_L_0							
92 D	2.438	-6.8801E-03	137.9	43.26	137.9	81.85	ACTIVE	0.000	-4.550	5.500	1.000
1.000	48.76	0.000	0.000	SAL_158_160_L_0							
93 D	2.472	-6.5364E-03	138.4	43.45	138.4	82.11	ACTIVE	0.000	-4.600	6.000	1.000
1.000	49.45	0.000	0.000	SAL_158_160_L_0							
94 D	2.506	-6.2019E-03	138.9	43.63	138.9	82.38	ACTIVE	0.000	-4.650	6.500	1.000
1.000	50.13	0.000	0.000	SAL_158_160_L_0							
95 D	2.541	-5.8769E-03	139.3	43.81	139.3	82.65	ACTIVE	0.000	-4.700	7.000	1.000
1.000	50.81	0.000	0.000	SAL_158_160_L_0							
96 D	2.575	-5.5613E-03	139.8	43.99	139.8	82.91	ACTIVE	0.000	-4.750	7.500	1.000
1.000	51.49	0.000	0.000	SAL_158_160_L_0							
97 D	2.609	-5.2551E-03	140.2	44.18	140.2	83.18	ACTIVE	0.000	-4.800	8.000	1.000
1.000	52.18	0.000	0.000	SAL_158_160_L_0							
98 D	2.643	-4.9584E-03	140.6	44.36	140.6	83.45	ACTIVE	0.000	-4.850	8.500	1.000
1.000	52.86	0.000	0.000	SAL_158_160_L_0							
99 D	2.677	-4.6712E-03	141.1	44.54	141.1	83.71	ACTIVE	0.000	-4.900	9.000	1.000
1.000	53.54	0.000	0.000	SAL_158_160_L_0							
100 D	2.711	-4.3935E-03	141.6	44.73	141.6	83.98	ACTIVE	0.000	-4.950	9.500	1.000
1.000	54.23	0.000	0.000	SAL_158_160_L_0							

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	134 di 401

101 D	2.745	-4.1253E-03	142.0	44.91	142.0	84.25	ACTIVE	0.000	-5.000	10.00	1.000
1.000	54.91	0.000	0.000	SAL_158_160_L_0							
102 D	2.780	-3.8666E-03	142.5	45.09	142.5	84.52	ACTIVE	0.000	-5.050	10.50	1.000
1.000	55.59	0.000	0.000	SAL_158_160_L_0							
103 D	2.814	-3.6173E-03	142.9	45.27	142.9	84.78	ACTIVE	0.000	-5.100	11.00	1.000
1.000	56.27	0.000	0.000	SAL_158_160_L_0							
104 D	2.848	-3.3775E-03	143.4	45.46	143.4	85.05	ACTIVE	0.000	-5.150	11.50	1.000
1.000	56.96	0.000	0.000	SAL_158_160_L_0							
105 D	2.882	-3.1471E-03	143.8	45.64	143.8	85.32	ACTIVE	0.000	-5.200	12.00	1.000
1.000	57.64	0.000	0.000	SAL_158_160_L_0							
106 D	2.916	-2.9260E-03	144.3	45.82	144.3	85.58	ACTIVE	0.000	-5.250	12.50	1.000
1.000	58.32	0.000	0.000	SAL_158_160_L_0							
107 D	2.950	-2.7142E-03	144.7	46.00	144.7	85.85	ACTIVE	0.000	-5.300	13.00	1.000
1.000	59.00	0.000	0.000	SAL_158_160_L_0							
108 D	2.984	-2.5115E-03	145.2	46.19	145.2	86.12	ACTIVE	0.000	-5.350	13.50	1.000
1.000	59.69	0.000	0.000	SAL_158_160_L_0							
109 D	3.019	-2.3180E-03	145.6	46.37	145.6	86.38	ACTIVE	0.000	-5.400	14.00	1.000
1.000	60.37	0.000	0.000	SAL_158_160_L_0							
110 D	3.053	-2.1334E-03	146.1	46.55	146.1	86.65	ACTIVE	0.000	-5.450	14.50	1.000
1.000	61.05	0.000	0.000	SAL_158_160_L_0							
111 D	3.087	-1.9578E-03	146.5	46.74	146.5	87.10	ACTIVE	0.000	-5.500	15.00	1.000
1.000	61.74	0.000	0.000	SAL_158_160_L_0							
112 D	3.121	-1.7910E-03	147.0	46.92	147.0	88.82	ACTIVE	0.000	-5.550	15.50	1.000
1.000	62.42	0.000	0.000	SAL_158_160_L_0							
113 D	3.155	-1.6327E-03	147.4	47.10	147.4	90.26	ACTIVE	0.000	-5.600	16.00	1.000
1.000	63.10	0.000	0.000	SAL_158_160_L_0							
114 D	3.189	-1.4830E-03	147.9	47.28	147.9	91.43	ACTIVE	0.000	-5.650	16.50	1.000
1.000	63.78	0.000	0.000	SAL_158_160_L_0							
115 D	3.223	-1.3416E-03	148.3	47.47	148.3	92.37	ACTIVE	0.000	-5.700	17.00	1.000
1.000	64.47	0.000	0.000	SAL_158_160_L_0							
116 D	3.257	-1.2084E-03	148.8	47.65	148.8	93.09	ACTIVE	0.000	-5.750	17.50	1.000
1.000	65.15	0.000	0.000	SAL_158_160_L_0							
117 D	3.292	-1.0832E-03	149.2	47.83	149.2	93.61	ACTIVE	0.000	-5.800	18.00	1.000
1.000	65.83	0.000	0.000	SAL_158_160_L_0							
118 D	3.326	-9.6575E-04	149.7	48.01	149.7	93.95	ACTIVE	0.000	-5.850	18.50	1.000
1.000	66.51	0.000	0.000	SAL_158_160_L_0							
119 D	3.360	-8.5589E-04	150.1	48.20	150.1	94.13	ACTIVE	0.000	-5.900	19.00	1.000
1.000	67.20	0.000	0.000	SAL_158_160_L_0							
120 D	3.394	-7.5341E-04	150.6	48.38	150.6	94.17	ACTIVE	0.000	-5.950	19.50	1.000
1.000	67.88	0.000	0.000	SAL_158_160_L_0							
121 D	3.428	-6.5806E-04	151.0	48.56	151.0	94.08	ACTIVE	0.000	-6.000	20.00	1.000
1.000	68.56	0.000	0.000	SAL_158_160_L_0							
122 D	3.462	-5.6963E-04	151.5	48.75	151.5	93.88	ACTIVE	0.000	-6.050	20.50	1.000
1.000	69.25	0.000	0.000	SAL_158_160_L_0							
123 D	3.496	-4.8788E-04	151.9	48.93	151.9	93.58	ACTIVE	0.000	-6.100	21.00	1.000
1.000	69.93	0.000	0.000	SAL_158_160_L_0							
124 D	3.531	-4.1255E-04	152.4	49.11	152.4	94.81	ACTIVE	0.000	-6.150	21.50	1.000
1.000	70.61	0.000	0.000	SAL_158_160_L_0							
125 D	3.565	-3.4340E-04	152.8	49.29	152.8	96.05	ACTIVE	0.000	-6.200	22.00	1.000
1.000	71.29	0.000	0.000	SAL_158_160_L_0							
126 D	3.599	-2.8017E-04	153.3	49.48	153.3	97.04	ACTIVE	0.000	-6.250	22.50	1.000
1.000	71.98	0.000	0.000	SAL_158_160_L_0							
127 D	3.633	-2.2260E-04	153.7	49.66	153.7	97.80	ACTIVE	0.000	-6.300	23.00	1.000
1.000	72.66	0.000	0.000	SAL_158_160_L_0							
128 D	3.667	-1.7045E-04	154.2	49.84	154.2	98.35	ACTIVE	0.000	-6.350	23.50	1.000
1.000	73.34	0.000	0.000	SAL_158_160_L_0							
129 D	3.897	-1.2343E-04	154.6	53.95	154.6	98.70	UL-RL	1.4716E+05	-6.400	24.00	1.000
1.000	77.95	0.000	0.000	SAL_158_160_L_0							
130 D	4.248	-8.1285E-05	155.1	60.47	155.1	98.89	UL-RL	1.4716E+05	-6.450	24.50	1.000
1.000	84.97	0.000	0.000	SAL_158_160_L_0							
131 D	4.570	-4.3752E-05	155.5	66.40	155.5	98.92	UL-RL	1.4716E+05	-6.500	25.00	1.000
1.000	91.40	0.000	0.000	SAL_158_160_L_0							
132 D	4.864	-1.0567E-05	156.0	71.77	156.0	98.81	UL-RL	1.4716E+05	-6.550	25.50	1.000
1.000	97.27	0.000	0.000	SAL_158_160_L_0							
133 D	5.131	1.8533E-05	156.4	76.62	156.4	98.59	UL-RL	1.4716E+05	-6.600	26.00	1.000
1.000	102.6	0.000	0.000	SAL_158_160_L_0							
134 D	5.373	4.3805E-05	156.9	80.96	156.9	98.26	UL-RL	1.4716E+05	-6.650	26.50	1.000
1.000	107.5	0.000	0.000	SAL_158_160_L_0							
135 D	5.565	6.5502E-05	157.3	84.31	157.3	98.72	UL-RL	1.4716E+05	-6.700	27.00	1.000
1.000	111.3	0.000	0.000	SAL_158_160_L_0							
136 D	5.728	8.3871E-05	157.8	87.06	157.8	99.35	UL-RL	1.4716E+05	-6.750	27.50	1.000
1.000	114.6	0.000	0.000	SAL_158_160_L_0							
137 D	5.873	9.9152E-05	158.2	89.46	158.2	99.80	UL-RL	1.4716E+05	-6.800	28.00	1.000
1.000	117.5	0.000	0.000	SAL_158_160_L_0							
138 D	6.003	1.1158E-04	158.7	91.56	158.7	100.1	UL-RL	1.4716E+05	-6.850	28.50	1.000
1.000	120.1	0.000	0.000	SAL_158_160_L_0							
139 D	6.118	1.2137E-04	159.1	93.36	159.1	100.2	UL-RL	1.4716E+05	-6.900	29.00	1.000
1.000	122.4	0.000	0.000	SAL_158_160_L_0							
140 D	6.219	1.2875E-04	159.6	94.88	159.6	100.2	UL-RL	1.4716E+05	-6.950	29.50	1.000
1.000	124.4	0.000	0.000	SAL_158_160_L_0							
141 D	6.308	1.3393E-04	160.0	96.16	160.0	100.0	UL-RL	1.4716E+05	-7.000	30.00	1.000

OPERE PROVVISORIALI					COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO	
RELAZIONE DI CALCOLO					LI00	01	D 09CL	VIC100.004	A	135 di 401	
1.000	126.2	0.000	0.000	5AL_158_160_L_0							
142 D	6.385	1.3710E-04	160.5	97.20	160.5	99.77	UL-RL	1.4716E+05	-7.050	30.50	1.000
1.000	127.7	0.000	0.000	5AL_158_160_L_0							
143 D	6.452	1.3845E-04	160.9	98.04	160.9	99.42	UL-RL	1.4716E+05	-7.100	31.00	1.000
1.000	129.0	0.000	0.000	5AL_158_160_L_0							
144 D	6.495	1.3817E-04	161.4	98.40	161.4	99.45	UL-RL	1.4716E+05	-7.150	31.50	1.000
1.000	129.9	0.000	0.000	5AL_158_160_L_0							
145 D	6.530	1.3643E-04	161.8	98.60	161.8	99.40	UL-RL	1.4716E+05	-7.200	32.00	1.000
1.000	130.6	0.000	0.000	5AL_158_160_L_0							
146 D	6.559	1.3338E-04	162.3	98.68	162.3	99.25	UL-RL	1.4716E+05	-7.250	32.50	1.000
1.000	131.2	0.000	0.000	5AL_158_160_L_0							
147 D	6.582	1.2919E-04	162.7	98.64	162.7	99.00	UL-RL	1.4716E+05	-7.300	33.00	1.000
1.000	131.6	0.000	0.000	5AL_158_160_L_0							
148 D	6.600	1.2399E-04	163.2	98.50	163.2	98.67	UL-RL	1.4716E+05	-7.350	33.50	1.000
1.000	132.0	0.000	0.000	5AL_158_160_L_0							
149 D	6.613	1.1792E-04	163.6	98.27	163.6	98.27	UL-RL	1.4716E+05	-7.400	34.00	1.000
1.000	132.3	0.000	0.000	5AL_158_160_L_0							
150 D	6.620	1.1110E-04	164.1	97.91	164.1	97.91	V-C	9.1974E+04	-7.450	34.50	1.000
1.000	132.4	0.000	0.000	5AL_158_160_L_0							
151 D	6.621	1.0366E-04	164.5	97.43	164.5	97.60	UL-RL	1.4716E+05	-7.500	35.00	1.000
1.000	132.4	0.000	0.000	5AL_158_160_L_0							
152 D	6.601	9.5695E-05	165.0	96.52	165.0	97.86	UL-RL	1.4716E+05	-7.550	35.50	1.000
1.000	132.0	0.000	0.000	5AL_158_160_L_0							
153 D	6.578	8.7309E-05	165.4	95.56	165.4	98.13	UL-RL	1.4716E+05	-7.600	36.00	1.000
1.000	131.6	0.000	0.000	5AL_158_160_L_0							
154 D	6.552	7.8593E-05	165.9	94.54	165.9	98.40	UL-RL	1.4716E+05	-7.650	36.50	1.000
1.000	131.0	0.000	0.000	5AL_158_160_L_0							
155 D	6.524	6.9631E-05	166.3	93.49	166.3	98.67	UL-RL	1.4716E+05	-7.700	37.00	1.000
1.000	130.5	0.000	0.000	5AL_158_160_L_0							
156 D	6.496	6.0498E-05	166.8	92.41	166.8	98.93	UL-RL	1.4716E+05	-7.750	37.50	1.000
1.000	129.9	0.000	0.000	5AL_158_160_L_0							
157 D	6.466	5.1264E-05	167.2	91.32	167.2	99.20	UL-RL	1.4716E+05	-7.800	38.00	1.000
1.000	129.3	0.000	0.000	5AL_158_160_L_0							
158 D	6.436	4.1990E-05	167.7	90.22	167.7	99.47	UL-RL	1.4716E+05	-7.850	38.50	1.000
1.000	128.7	0.000	0.000	5AL_158_160_L_0							
159 D	6.406	3.2733E-05	168.1	89.13	168.1	99.73	UL-RL	1.4716E+05	-7.900	39.00	1.000
1.000	128.1	0.000	0.000	5AL_158_160_L_0							
160 D	6.377	2.3541E-05	168.6	88.04	168.6	100.0	UL-RL	1.4716E+05	-7.950	39.50	1.000
1.000	127.5	0.000	0.000	5AL_158_160_L_0							
161 D	6.349	1.4458E-05	169.0	86.97	169.0	100.3	UL-RL	1.4716E+05	-8.000	40.00	1.000
1.000	127.0	0.000	0.000	5AL_158_160_L_0							
162 D	6.321	5.5218E-06	169.5	85.92	169.5	100.5	UL-RL	1.4716E+05	-8.050	40.50	1.000
1.000	126.4	0.000	0.000	5AL_158_160_L_0							
163 D	6.295	-3.2342E-06	169.9	84.90	169.9	100.8	UL-RL	1.4716E+05	-8.100	41.00	1.000
1.000	125.9	0.000	0.000	5AL_158_160_L_0							
164 D	6.271	-1.1782E-05	170.4	83.91	170.4	101.1	UL-RL	1.4716E+05	-8.150	41.50	1.000
1.000	125.4	0.000	0.000	5AL_158_160_L_0							
165 D	6.248	-2.0099E-05	170.8	82.95	170.8	101.3	UL-RL	1.4716E+05	-8.200	42.00	1.000
1.000	125.0	0.000	0.000	5AL_158_160_L_0							
166 D	6.227	-2.8165E-05	171.3	82.03	171.3	101.6	UL-RL	1.4716E+05	-8.250	42.50	1.000
1.000	124.5	0.000	0.000	5AL_158_160_L_0							
167 D	6.208	-3.5964E-05	171.7	81.15	171.7	101.9	UL-RL	1.4716E+05	-8.300	43.00	1.000
1.000	124.2	0.000	0.000	5AL_158_160_L_0							
168 D	6.191	-4.3486E-05	172.2	80.31	172.2	102.1	UL-RL	1.4716E+05	-8.350	43.50	1.000
1.000	123.8	0.000	0.000	5AL_158_160_L_0							
169 D	6.176	-5.0721E-05	172.6	79.51	172.6	102.4	UL-RL	1.4716E+05	-8.400	44.00	1.000
1.000	123.5	0.000	0.000	5AL_158_160_L_0							
170 D	6.163	-5.7665E-05	173.1	78.76	173.1	102.7	UL-RL	1.4716E+05	-8.450	44.50	1.000
1.000	123.3	0.000	0.000	5AL_158_160_L_0							
171 D	6.152	-6.4314E-05	173.5	78.05	173.5	102.9	UL-RL	1.4716E+05	-8.500	45.00	1.000
1.000	123.0	0.000	0.000	5AL_158_160_L_0							
172 D	6.144	-7.0668E-05	174.0	77.38	174.0	103.2	UL-RL	1.4716E+05	-8.550	45.50	1.000
1.000	122.9	0.000	0.000	5AL_158_160_L_0							
173 D	6.138	-7.6730E-05	174.4	76.76	174.4	103.5	UL-RL	1.4716E+05	-8.600	46.00	1.000
1.000	122.8	0.000	0.000	5AL_158_160_L_0							
174 D	6.134	-8.2504E-05	174.9	76.17	174.9	103.7	UL-RL	1.4716E+05	-8.650	46.50	1.000
1.000	122.7	0.000	0.000	5AL_158_160_L_0							
175 D	6.132	-8.7996E-05	175.3	75.63	175.3	104.0	UL-RL	1.4716E+05	-8.700	47.00	1.000
1.000	122.6	0.000	0.000	5AL_158_160_L_0							
176 D	6.132	-9.3214E-05	175.8	75.13	175.8	104.3	UL-RL	1.4716E+05	-8.750	47.50	1.000
1.000	122.6	0.000	0.000	5AL_158_160_L_0							
177 D	6.133	-9.8166E-05	176.2	74.67	176.2	104.5	UL-RL	1.4716E+05	-8.800	48.00	1.000
1.000	122.7	0.000	0.000	5AL_158_160_L_0							
178 D	6.137	-1.0286E-04	176.7	74.24	176.7	104.8	UL-RL	1.4716E+05	-8.850	48.50	1.000
1.000	122.7	0.000	0.000	5AL_158_160_L_0							
179 D	6.143	-1.0732E-04	177.1	73.86	177.1	105.1	UL-RL	1.4716E+05	-8.900	49.00	1.000
1.000	122.9	0.000	0.000	5AL_158_160_L_0							
180 D	6.150	-1.1154E-04	177.6	73.50	177.6	105.3	UL-RL	1.4716E+05	-8.950	49.50	1.000
1.000	123.0	0.000	0.000	5AL_158_160_L_0							
181 D	6.159	-1.1555E-04	178.0	73.18	178.0	105.6	UL-RL	1.4716E+05	-9.000	50.00	1.000
1.000	123.2	0.000	0.000	5AL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	136 di 401

182 D	6.169	-1.1935E-04	178.5	72.89	178.5	105.9	UL-RL	1.4716E+05	-9.050	50.50	1.000
1.000	123.4	0.000	0.000	5AL_158_160_L_0							
183 D	6.181	-1.2296E-04	178.9	72.62	178.9	106.1	UL-RL	1.4716E+05	-9.100	51.00	1.000
1.000	123.6	0.000	0.000	5AL_158_160_L_0							
184 D	6.194	-1.2639E-04	179.4	72.38	179.4	106.4	UL-RL	1.4716E+05	-9.150	51.50	1.000
1.000	123.9	0.000	0.000	5AL_158_160_L_0							
185 D	6.208	-1.2967E-04	179.8	72.17	179.8	106.7	UL-RL	1.4716E+05	-9.200	52.00	1.000
1.000	124.2	0.000	0.000	5AL_158_160_L_0							
186 D	6.224	-1.3279E-04	180.3	71.98	180.3	106.9	UL-RL	1.4716E+05	-9.250	52.50	1.000
1.000	124.5	0.000	0.000	5AL_158_160_L_0							
187 D	6.240	-1.3579E-04	180.7	71.80	180.7	107.2	UL-RL	1.4716E+05	-9.300	53.00	1.000
1.000	124.8	0.000	0.000	5AL_158_160_L_0							
188 D	6.257	-1.3866E-04	181.2	71.65	181.2	107.5	UL-RL	1.4716E+05	-9.350	53.50	1.000
1.000	125.1	0.000	0.000	5AL_158_160_L_0							
189 D	6.275	-1.4143E-04	181.6	71.51	181.6	107.7	UL-RL	1.4716E+05	-9.400	54.00	1.000
1.000	125.5	0.000	0.000	5AL_158_160_L_0							
190 D	6.294	-1.4411E-04	182.1	71.38	182.1	108.0	UL-RL	1.4716E+05	-9.450	54.50	1.000
1.000	125.9	0.000	0.000	5AL_158_160_L_0							
191 D	6.313	-1.4670E-04	182.5	71.26	182.5	108.3	UL-RL	1.4716E+05	-9.500	55.00	1.000
1.000	126.3	0.000	0.000	5AL_158_160_L_0							
192 D	6.333	-1.4924E-04	183.0	71.16	183.0	108.5	UL-RL	1.4716E+05	-9.550	55.50	1.000
1.000	126.7	0.000	0.000	5AL_158_160_L_0							
193 D	6.353	-1.5171E-04	183.4	71.06	183.4	108.8	UL-RL	1.4716E+05	-9.600	56.00	1.000
1.000	127.1	0.000	0.000	5AL_158_160_L_0							
194 D	6.374	-1.5414E-04	183.9	70.97	183.9	109.1	UL-RL	1.4716E+05	-9.650	56.50	1.000
1.000	127.5	0.000	0.000	5AL_158_160_L_0							
195 D	6.394	-1.5654E-04	184.3	70.88	184.3	109.3	UL-RL	1.4716E+05	-9.700	57.00	1.000
1.000	127.9	0.000	0.000	5AL_158_160_L_0							
196 D	6.415	-1.5891E-04	184.8	70.80	184.8	109.6	UL-RL	1.4716E+05	-9.750	57.50	1.000
1.000	128.3	0.000	0.000	5AL_158_160_L_0							
197 D	6.436	-1.6126E-04	185.2	70.72	185.2	109.9	UL-RL	1.4716E+05	-9.800	58.00	1.000
1.000	128.7	0.000	0.000	5AL_158_160_L_0							
198 D	6.457	-1.6360E-04	185.7	70.65	185.7	110.1	UL-RL	1.4716E+05	-9.850	58.50	1.000
1.000	129.1	0.000	0.000	5AL_158_160_L_0							
199 D	6.479	-1.6594E-04	186.1	70.57	186.1	110.4	UL-RL	1.4716E+05	-9.900	59.00	1.000
1.000	129.6	0.000	0.000	5AL_158_160_L_0							
200 D	6.498	-1.6826E-04	186.6	70.49	186.6	110.7	UL-RL	1.4716E+05	-9.950	59.50	1.000
1.000	130.0	0.000	0.000	5AL_158_160_L_0							
201 D	3.259	-1.7059E-04	187.0	70.42	187.0	110.9	UL-RL	1.4716E+05	-10.00	60.00	1.000
1.000	130.4	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SLERara_896
Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

Q_R
ELEMENT TYPE 5 NO.OF ELEMENTS, IN THIS GROUP 201
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS 2-LEVEL	PORE	E FACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-5.0000E-02	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.1000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.1500	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.2000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.2500	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-0.3000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.3500	1.000
5	0.000	--	--	--	--	--	REMOVED	--	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	0.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	0.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	0.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	0.000	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA

LOTTO

CODIFICA

DOCUMENTO

REV.

FOGLIO

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137 di 401

RELAZIONE DI CALCOLO

1.000	0.000	0.000	0.000	not available						
9	0.000	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000
1.000	0.000	0.000	0.000	not available						
10	0.000	--	--	--	--	REMOVED	--	-0.4500	0.000	1.000
1.000	0.000	0.000	0.000	not available						
11	0.000	--	--	--	--	REMOVED	--	-0.5000	0.000	1.000
1.000	0.000	0.000	0.000	not available						
12	0.000	--	--	--	--	REMOVED	--	-0.5500	0.000	1.000
1.000	0.000	0.000	0.000	not available						
13	0.000	--	--	--	--	REMOVED	--	-0.6000	0.000	1.000
1.000	0.000	0.000	0.000	not available						
14	0.000	--	--	--	--	REMOVED	--	-0.6500	0.000	1.000
1.000	0.000	0.000	0.000	not available						
15	0.000	--	--	--	--	REMOVED	--	-0.7000	0.000	1.000
1.000	0.000	0.000	0.000	not available						
16	0.000	--	--	--	--	REMOVED	--	-0.7500	0.000	1.000
1.000	0.000	0.000	0.000	not available						
17	0.000	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000
1.000	0.000	0.000	0.000	not available						
18	0.000	--	--	--	--	REMOVED	--	-0.8500	0.000	1.000
1.000	0.000	0.000	0.000	not available						
19	0.000	--	--	--	--	REMOVED	--	-0.9000	0.000	1.000
1.000	0.000	0.000	0.000	not available						
20	0.000	--	--	--	--	REMOVED	--	-0.9500	0.000	1.000
1.000	0.000	0.000	0.000	not available						
21	0.000	--	--	--	--	REMOVED	--	-1.000	0.000	1.000
1.000	0.000	0.000	0.000	not available						
22	0.000	--	--	--	--	REMOVED	--	-1.050	0.000	1.000
1.000	0.000	0.000	0.000	not available						
23	0.000	--	--	--	--	REMOVED	--	-1.100	0.000	1.000
1.000	0.000	0.000	0.000	not available						
24	0.000	--	--	--	--	REMOVED	--	-1.150	0.000	1.000
1.000	0.000	0.000	0.000	not available						
25	0.000	--	--	--	--	REMOVED	--	-1.200	0.000	1.000
1.000	0.000	0.000	0.000	not available						
26	0.000	--	--	--	--	REMOVED	--	-1.250	0.000	1.000
1.000	0.000	0.000	0.000	not available						
27	0.000	--	--	--	--	REMOVED	--	-1.300	0.000	1.000
1.000	0.000	0.000	0.000	not available						
28	0.000	--	--	--	--	REMOVED	--	-1.350	0.000	1.000
1.000	0.000	0.000	0.000	not available						
29	0.000	--	--	--	--	REMOVED	--	-1.400	0.000	1.000
1.000	0.000	0.000	0.000	not available						
30	0.000	--	--	--	--	REMOVED	--	-1.450	0.000	1.000
1.000	0.000	0.000	0.000	not available						
31	0.000	--	--	--	--	REMOVED	--	-1.500	0.000	1.000
1.000	0.000	0.000	0.000	not available						
32	0.000	--	--	--	--	REMOVED	--	-1.550	0.000	1.000
1.000	0.000	0.000	0.000	not available						
33	0.000	--	--	--	--	REMOVED	--	-1.600	0.000	1.000
1.000	0.000	0.000	0.000	not available						
34	0.000	--	--	--	--	REMOVED	--	-1.650	0.000	1.000
1.000	0.000	0.000	0.000	not available						
35	0.000	--	--	--	--	REMOVED	--	-1.700	0.000	1.000
1.000	0.000	0.000	0.000	not available						
36	0.000	--	--	--	--	REMOVED	--	-1.750	0.000	1.000
1.000	0.000	0.000	0.000	not available						
37	0.000	--	--	--	--	REMOVED	--	-1.800	0.000	1.000
1.000	0.000	0.000	0.000	not available						
38	0.000	--	--	--	--	REMOVED	--	-1.850	0.000	1.000
1.000	0.000	0.000	0.000	not available						
39	0.000	--	--	--	--	REMOVED	--	-1.900	0.000	1.000
1.000	0.000	0.000	0.000	not available						
40	0.000	--	--	--	--	REMOVED	--	-1.950	0.000	1.000
1.000	0.000	0.000	0.000	not available						
41	0.000	--	--	--	--	REMOVED	--	-2.000	0.000	1.000
1.000	0.000	0.000	0.000	not available						
42	0.000	--	--	--	--	REMOVED	--	-2.050	0.000	1.000
1.000	0.000	0.000	0.000	not available						
43	0.000	--	--	--	--	REMOVED	--	-2.100	0.000	1.000
1.000	0.000	0.000	0.000	not available						
44	0.000	--	--	--	--	REMOVED	--	-2.150	0.000	1.000
1.000	0.000	0.000	0.000	not available						
45	0.000	--	--	--	--	REMOVED	--	-2.200	0.000	1.000
1.000	0.000	0.000	0.000	not available						
46	0.000	--	--	--	--	REMOVED	--	-2.250	0.000	1.000
1.000	0.000	0.000	0.000	not available						
47	0.000	--	--	--	--	REMOVED	--	-2.300	0.000	1.000
1.000	0.000	0.000	0.000	not available						
48	0.000	--	--	--	--	REMOVED	--	-2.350	0.000	1.000
1.000	0.000	0.000	0.000	not available						

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
L100 01 D 09CL VI0100 004 A 138 di 401

49	0.000	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.450	0.000	1.000	
50	0.000	--	--	--	--	REMOVED	--	-2.500	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.550	0.000	1.000	
51	0.000	--	--	--	--	REMOVED	--	-2.600	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.650	0.000	1.000	
52	0.000	--	--	--	--	REMOVED	--	-2.700	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.750	0.000	1.000	
53	0.000	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.850	0.000	1.000	
54	0.000	--	--	--	--	REMOVED	--	-2.900	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.950	0.000	1.000	
55	0.000	--	--	--	--	REMOVED	--	-3.000	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.050	0.000	1.000	
56	0.000	--	--	--	--	REMOVED	--	-3.100	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.150	0.000	1.000	
57	0.000	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.250	0.000	1.000	
58	0.000	--	--	--	--	REMOVED	--	-3.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.350	0.000	1.000	
59	0.000	--	--	--	--	REMOVED	--	-3.400	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.450	0.000	1.000	
60	0.000	--	--	--	--	REMOVED	--	-3.500	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.550	0.000	1.000	
61	0.000	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.650	0.000	1.000	
62	0.000	--	--	--	--	REMOVED	--	-3.700	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.750	0.000	1.000	
63	0.000	--	--	--	--	REMOVED	--	-3.800	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.850	0.000	1.000	
64	0.000	--	--	--	--	REMOVED	--	-3.900	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-3.950	0.000	1.000	
65	0.000	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-4.050	0.5000	1.000	
66 D	2.004	1.8737E-02	0.9500	40.08	61.75	48.02	PASSIVE	0.000	-3.250	0.000	1.000
1.000	40.08	0.000	0.000	SAL_158_160_L_0							
67 D	2.165	1.8193E-02	1.900	43.31	62.70	48.58	PASSIVE	0.000	-3.300	0.000	1.000
1.000	43.31	0.000	0.000	SAL_158_160_L_0							
68 D	2.327	1.7655E-02	2.850	46.53	63.65	49.15	PASSIVE	0.000	-3.350	0.000	1.000
1.000	46.53	0.000	0.000	SAL_158_160_L_0							
69 D	2.488	1.7123E-02	3.800	49.76	64.60	49.76	PASSIVE	0.000	-3.400	0.000	1.000
1.000	49.76	0.000	0.000	SAL_158_160_L_0							
70 D	2.649	1.6596E-02	4.750	52.99	65.55	52.99	PASSIVE	0.000	-3.450	0.000	1.000
1.000	52.99	0.000	0.000	SAL_158_160_L_0							
71 D	2.811	1.6076E-02	5.700	56.21	66.50	56.21	PASSIVE	0.000	-3.500	0.000	1.000
1.000	56.21	0.000	0.000	SAL_158_160_L_0							
72 D	2.972	1.5562E-02	6.650	59.44	67.45	59.44	PASSIVE	0.000	-3.550	0.000	1.000
1.000	59.44	0.000	0.000	SAL_158_160_L_0							
73 D	3.133	1.5055E-02	7.600	62.67	68.40	62.67	PASSIVE	0.000	-3.600	0.000	1.000
1.000	62.67	0.000	0.000	SAL_158_160_L_0							
74 D	3.295	1.4554E-02	8.550	65.89	69.35	65.89	PASSIVE	0.000	-3.650	0.000	1.000
1.000	65.89	0.000	0.000	SAL_158_160_L_0							
75 D	3.456	1.4061E-02	9.500	69.12	70.30	69.12	PASSIVE	0.000	-3.700	0.000	1.000
1.000	69.12	0.000	0.000	SAL_158_160_L_0							
76 D	3.617	1.3574E-02	10.45	72.34	71.25	72.34	PASSIVE	0.000	-3.750	0.000	1.000
1.000	72.34	0.000	0.000	SAL_158_160_L_0							
77 D	3.779	1.3095E-02	11.40	75.57	72.20	75.57	PASSIVE	0.000	-3.800	0.000	1.000
1.000	75.57	0.000	0.000	SAL_158_160_L_0							
78 D	3.940	1.2623E-02	12.35	78.80	73.15	78.80	PASSIVE	0.000	-3.850	0.000	1.000
1.000	78.80	0.000	0.000	SAL_158_160_L_0							
79 D	4.101	1.2159E-02	13.30	82.02	74.10	82.02	PASSIVE	0.000	-3.900	0.000	1.000
1.000	82.02	0.000	0.000	SAL_158_160_L_0							
80 D	4.262	1.1702E-02	14.25	85.25	75.05	85.25	PASSIVE	0.000	-3.950	0.000	1.000
1.000	85.25	0.000	0.000	SAL_158_160_L_0							
81 D	4.424	1.1253E-02	15.20	88.48	76.00	88.48	PASSIVE	0.000	-4.000	0.000	1.000
1.000	88.48	0.000	0.000	SAL_158_160_L_0							
82 D	4.525	1.0813E-02	15.65	90.00	76.45	90.00	PASSIVE	0.000	-4.050	0.5000	1.000
1.000	90.50	0.000	0.000	SAL_158_160_L_0							
83 D	4.627	1.0381E-02	16.10	91.53	76.90	91.53	PASSIVE	0.000	-4.100	1.000	1.000
1.000	92.53	0.000	0.000	SAL_158_160_L_0							
84 D	4.728	9.9567E-03	16.55	93.06	77.35	93.06	PASSIVE	0.000	-4.150	1.500	1.000
1.000	94.56	0.000	0.000	SAL_158_160_L_0							
85 D	4.829	9.5412E-03	17.00	94.59	77.80	94.59	PASSIVE	0.000	-4.200	2.000	1.000
1.000	96.59	0.000	0.000	SAL_158_160_L_0							
86 D	4.931	9.1344E-03	17.45	96.12	78.25	96.12	PASSIVE	0.000	-4.250	2.500	1.000
1.000	98.62	0.000	0.000	SAL_158_160_L_0							
87 D	5.032	8.7363E-03	17.90	97.64	78.70	97.64	PASSIVE	0.000	-4.300	3.000	1.000
1.000	100.6	0.000	0.000	SAL_158_160_L_0							
88 D	5.134	8.3470E-03	18.35	99.17	79.15	99.17	PASSIVE	0.000	-4.350	3.500	1.000
1.000	102.7	0.000	0.000	SAL_158_160_L_0							
89 D	5.235	7.9666E-03	18.80	100.7	79.60	100.7	PASSIVE	0.000	-4.400	4.000	1.000

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COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	139 di 401

1.000	104.7	0.000	0.000	5AL_158_160_L_0							
90 D	5.336	7.5953E-03	19.25	102.2	80.05	102.2	PASSIVE	0.000	-4.450	4.500	1.000
1.000	106.7	0.000	0.000	5AL_158_160_L_0							
91 D	5.438	7.2331E-03	19.70	103.8	80.50	103.8	PASSIVE	0.000	-4.500	5.000	1.000
1.000	108.8	0.000	0.000	5AL_158_160_L_0							
92 D	5.539	6.8801E-03	20.15	105.3	80.95	105.3	PASSIVE	0.000	-4.550	5.500	1.000
1.000	110.8	0.000	0.000	5AL_158_160_L_0							
93 D	5.641	6.5364E-03	20.60	106.8	81.40	106.8	PASSIVE	0.000	-4.600	6.000	1.000
1.000	112.8	0.000	0.000	5AL_158_160_L_0							
94 D	5.742	6.2019E-03	21.05	108.3	81.85	108.3	PASSIVE	0.000	-4.650	6.500	1.000
1.000	114.8	0.000	0.000	5AL_158_160_L_0							
95 D	5.844	5.8769E-03	21.50	109.9	82.30	109.9	PASSIVE	0.000	-4.700	7.000	1.000
1.000	116.9	0.000	0.000	5AL_158_160_L_0							
96 D	5.945	5.5613E-03	21.95	111.4	82.75	111.4	PASSIVE	0.000	-4.750	7.500	1.000
1.000	118.9	0.000	0.000	5AL_158_160_L_0							
97 D	6.046	5.2551E-03	22.40	112.9	83.20	112.9	PASSIVE	0.000	-4.800	8.000	1.000
1.000	120.9	0.000	0.000	5AL_158_160_L_0							
98 D	6.148	4.9584E-03	22.85	114.5	83.65	114.5	PASSIVE	0.000	-4.850	8.500	1.000
1.000	123.0	0.000	0.000	5AL_158_160_L_0							
99 D	6.249	4.6712E-03	23.30	116.0	84.10	116.0	PASSIVE	0.000	-4.900	9.000	1.000
1.000	125.0	0.000	0.000	5AL_158_160_L_0							
100 D	6.351	4.3935E-03	23.75	117.5	84.55	117.5	PASSIVE	0.000	-4.950	9.500	1.000
1.000	127.0	0.000	0.000	5AL_158_160_L_0							
101 D	6.452	4.1253E-03	24.20	119.0	85.00	119.0	PASSIVE	0.000	-5.000	10.00	1.000
1.000	129.0	0.000	0.000	5AL_158_160_L_0							
102 D	6.553	3.8666E-03	24.65	120.6	85.45	120.6	PASSIVE	0.000	-5.050	10.50	1.000
1.000	131.1	0.000	0.000	5AL_158_160_L_0							
103 D	6.655	3.6173E-03	25.10	122.1	85.90	122.1	PASSIVE	0.000	-5.100	11.00	1.000
1.000	133.1	0.000	0.000	5AL_158_160_L_0							
104 D	6.756	3.3775E-03	25.55	123.6	86.35	123.6	PASSIVE	0.000	-5.150	11.50	1.000
1.000	135.1	0.000	0.000	5AL_158_160_L_0							
105 D	6.858	3.1471E-03	26.00	125.2	86.80	125.2	PASSIVE	0.000	-5.200	12.00	1.000
1.000	137.2	0.000	0.000	5AL_158_160_L_0							
106 D	6.959	2.9260E-03	26.45	126.7	87.25	126.7	PASSIVE	0.000	-5.250	12.50	1.000
1.000	139.2	0.000	0.000	5AL_158_160_L_0							
107 D	7.060	2.7142E-03	26.90	128.2	87.70	128.2	PASSIVE	0.000	-5.300	13.00	1.000
1.000	141.2	0.000	0.000	5AL_158_160_L_0							
108 D	7.162	2.5115E-03	27.35	129.7	88.15	129.7	PASSIVE	0.000	-5.350	13.50	1.000
1.000	143.2	0.000	0.000	5AL_158_160_L_0							
109 D	7.263	2.3180E-03	27.80	131.3	88.60	131.3	PASSIVE	0.000	-5.400	14.00	1.000
1.000	145.3	0.000	0.000	5AL_158_160_L_0							
110 D	7.365	2.1334E-03	28.25	132.8	89.05	132.8	PASSIVE	0.000	-5.450	14.50	1.000
1.000	147.3	0.000	0.000	5AL_158_160_L_0							
111 D	7.466	1.9578E-03	28.70	134.3	89.50	134.3	PASSIVE	0.000	-5.500	15.00	1.000
1.000	149.3	0.000	0.000	5AL_158_160_L_0							
112 D	7.568	1.7910E-03	29.15	135.8	89.95	135.8	PASSIVE	0.000	-5.550	15.50	1.000
1.000	151.4	0.000	0.000	5AL_158_160_L_0							
113 D	7.669	1.6327E-03	29.60	137.4	90.40	137.4	PASSIVE	0.000	-5.600	16.00	1.000
1.000	153.4	0.000	0.000	5AL_158_160_L_0							
114 D	7.770	1.4830E-03	30.05	138.9	90.85	138.9	PASSIVE	0.000	-5.650	16.50	1.000
1.000	155.4	0.000	0.000	5AL_158_160_L_0							
115 D	7.872	1.3416E-03	30.50	140.4	91.30	140.4	PASSIVE	0.000	-5.700	17.00	1.000
1.000	157.4	0.000	0.000	5AL_158_160_L_0							
116 D	7.976	1.2084E-03	30.95	138.2	91.75	138.2	V-C	7.4657E+04	-5.750	17.50	1.000
1.000	155.7	0.000	0.000	5AL_158_160_L_0							
117 D	7.358	1.0832E-03	31.40	129.2	92.20	129.2	V-C	7.4657E+04	-5.800	18.00	1.000
1.000	147.2	0.000	0.000	5AL_158_160_L_0							
118 D	6.959	9.6575E-04	31.85	120.7	92.65	120.7	V-C	7.4657E+04	-5.850	18.50	1.000
1.000	139.2	0.000	0.000	5AL_158_160_L_0							
119 D	6.589	8.5589E-04	32.30	112.8	93.10	112.8	V-C	7.4657E+04	-5.900	19.00	1.000
1.000	131.8	0.000	0.000	5AL_158_160_L_0							
120 D	6.246	7.5341E-04	32.75	105.4	93.55	105.4	V-C	7.4657E+04	-5.950	19.50	1.000
1.000	124.9	0.000	0.000	5AL_158_160_L_0							
121 D	5.929	6.5806E-04	33.20	98.58	94.00	98.58	V-C	7.4657E+04	-6.000	20.00	1.000
1.000	118.6	0.000	0.000	5AL_158_160_L_0							
122 D	5.639	5.6963E-04	33.65	92.27	94.45	92.27	V-C	7.4657E+04	-6.050	20.50	1.000
1.000	112.8	0.000	0.000	5AL_158_160_L_0							
123 D	5.373	4.8788E-04	34.10	86.46	94.90	86.46	V-C	7.4657E+04	-6.100	21.00	1.000
1.000	107.5	0.000	0.000	5AL_158_160_L_0							
124 D	5.131	4.1255E-04	34.55	81.12	95.35	81.12	V-C	7.4657E+04	-6.150	21.50	1.000
1.000	102.6	0.000	0.000	5AL_158_160_L_0							
125 D	4.912	3.4340E-04	35.00	76.25	95.80	76.25	V-C	7.4657E+04	-6.200	22.00	1.000
1.000	98.25	0.000	0.000	5AL_158_160_L_0							
126 D	4.716	2.8017E-04	35.45	71.82	96.25	71.82	V-C	7.4657E+04	-6.250	22.50	1.000
1.000	94.32	0.000	0.000	5AL_158_160_L_0							
127 D	4.512	2.2260E-04	35.90	67.24	96.70	68.75	UL-RL	1.1945E+05	-6.300	23.00	1.000
1.000	90.24	0.000	0.000	5AL_158_160_L_0							
128 D	4.240	1.7045E-04	36.35	61.31	97.15	69.02	UL-RL	1.1945E+05	-6.350	23.50	1.000
1.000	84.81	0.000	0.000	5AL_158_160_L_0							
129 D	4.000	1.2343E-04	36.80	55.99	97.60	69.29	UL-RL	1.1945E+05	-6.400	24.00	1.000
1.000	79.99	0.000	0.000	5AL_158_160_L_0							

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COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
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130 D	3.788	8.1285E-05	37.25	51.26	98.05	69.56	UL-RL	1.1945E+05	-6.450	24.50	1.000
1.000	75.76	0.000	0.000	5AL_158_160_L_0							
131 D	3.604	4.3752E-05	37.70	47.07	98.50	69.82	UL-RL	1.1945E+05	-6.500	25.00	1.000
1.000	72.07	0.000	0.000	5AL_158_160_L_0							
132 D	3.445	1.0567E-05	38.15	43.41	98.95	70.09	UL-RL	1.1945E+05	-6.550	25.50	1.000
1.000	68.91	0.000	0.000	5AL_158_160_L_0							
133 D	3.311	-1.8533E-05	38.60	40.23	99.40	70.36	UL-RL	1.1945E+05	-6.600	26.00	1.000
1.000	66.23	0.000	0.000	5AL_158_160_L_0							
134 D	3.200	-4.3805E-05	39.05	37.51	99.85	70.62	UL-RL	1.1945E+05	-6.650	26.50	1.000
1.000	64.01	0.000	0.000	5AL_158_160_L_0							
135 D	3.111	-6.5502E-05	39.50	35.21	100.3	70.89	UL-RL	1.1945E+05	-6.700	27.00	1.000
1.000	62.21	0.000	0.000	5AL_158_160_L_0							
136 D	3.041	-8.3871E-05	39.95	33.31	100.8	71.16	UL-RL	1.1945E+05	-6.750	27.50	1.000
1.000	60.81	0.000	0.000	5AL_158_160_L_0							
137 D	2.989	-9.9152E-05	40.40	31.78	101.2	71.42	UL-RL	1.1945E+05	-6.800	28.00	1.000
1.000	59.78	0.000	0.000	5AL_158_160_L_0							
138 D	2.955	-1.1158E-04	40.85	30.59	101.7	71.69	UL-RL	1.1945E+05	-6.850	28.50	1.000
1.000	59.10	0.000	0.000	5AL_158_160_L_0							
139 D	2.936	-1.2137E-04	41.30	29.72	102.1	71.96	UL-RL	1.1945E+05	-6.900	29.00	1.000
1.000	58.72	0.000	0.000	5AL_158_160_L_0							
140 D	2.932	-1.2875E-04	41.75	29.13	102.6	72.23	UL-RL	1.1945E+05	-6.950	29.50	1.000
1.000	58.63	0.000	0.000	5AL_158_160_L_0							
141 D	2.940	-1.3393E-04	42.20	28.81	103.0	72.49	UL-RL	1.1945E+05	-7.000	30.00	1.000
1.000	58.81	0.000	0.000	5AL_158_160_L_0							
142 D	2.961	-1.3710E-04	42.65	28.72	103.5	72.76	UL-RL	1.1945E+05	-7.050	30.50	1.000
1.000	59.22	0.000	0.000	5AL_158_160_L_0							
143 D	2.993	-1.3845E-04	43.10	28.86	103.9	73.03	UL-RL	1.1945E+05	-7.100	31.00	1.000
1.000	59.86	0.000	0.000	5AL_158_160_L_0							
144 D	3.034	-1.3817E-04	43.55	29.18	104.4	73.29	UL-RL	1.1945E+05	-7.150	31.50	1.000
1.000	60.68	0.000	0.000	5AL_158_160_L_0							
145 D	3.084	-1.3643E-04	44.00	29.68	104.8	73.56	UL-RL	1.1945E+05	-7.200	32.00	1.000
1.000	61.68	0.000	0.000	5AL_158_160_L_0							
146 D	3.142	-1.3338E-04	44.45	30.34	105.3	73.83	UL-RL	1.1945E+05	-7.250	32.50	1.000
1.000	62.84	0.000	0.000	5AL_158_160_L_0							
147 D	3.207	-1.2919E-04	44.90	31.13	105.7	74.09	UL-RL	1.1945E+05	-7.300	33.00	1.000
1.000	64.13	0.000	0.000	5AL_158_160_L_0							
148 D	3.277	-1.2399E-04	45.35	32.05	106.2	74.36	UL-RL	1.1945E+05	-7.350	33.50	1.000
1.000	65.55	0.000	0.000	5AL_158_160_L_0							
149 D	3.353	-1.1792E-04	45.80	33.06	106.6	74.63	UL-RL	1.1945E+05	-7.400	34.00	1.000
1.000	67.06	0.000	0.000	5AL_158_160_L_0							
150 D	3.433	-1.1110E-04	46.25	34.17	107.1	74.90	UL-RL	1.1945E+05	-7.450	34.50	1.000
1.000	68.67	0.000	0.000	5AL_158_160_L_0							
151 D	3.517	-1.0366E-04	46.70	35.35	107.5	75.16	UL-RL	1.1945E+05	-7.500	35.00	1.000
1.000	70.35	0.000	0.000	5AL_158_160_L_0							
152 D	3.604	-9.5695E-05	47.15	36.58	108.0	75.43	UL-RL	1.1945E+05	-7.550	35.50	1.000
1.000	72.09	0.000	0.000	5AL_158_160_L_0							
153 D	3.694	-8.7309E-05	47.60	37.88	108.4	75.70	UL-RL	1.1945E+05	-7.600	36.00	1.000
1.000	73.88	0.000	0.000	5AL_158_160_L_0							
154 D	3.786	-7.8593E-05	48.05	39.21	108.9	75.96	UL-RL	1.1945E+05	-7.650	36.50	1.000
1.000	75.71	0.000	0.000	5AL_158_160_L_0							
155 D	3.879	-6.9631E-05	48.50	40.57	109.3	76.23	UL-RL	1.1945E+05	-7.700	37.00	1.000
1.000	77.57	0.000	0.000	5AL_158_160_L_0							
156 D	3.973	-6.0498E-05	48.95	41.95	109.8	76.50	UL-RL	1.1945E+05	-7.750	37.50	1.000
1.000	79.45	0.000	0.000	5AL_158_160_L_0							
157 D	4.067	-5.1264E-05	49.40	43.34	110.2	76.76	UL-RL	1.1945E+05	-7.800	38.00	1.000
1.000	81.34	0.000	0.000	5AL_158_160_L_0							
158 D	4.162	-4.1990E-05	49.85	44.74	110.7	77.03	UL-RL	1.1945E+05	-7.850	38.50	1.000
1.000	83.24	0.000	0.000	5AL_158_160_L_0							
159 D	4.257	-3.2733E-05	50.30	46.13	111.1	77.30	UL-RL	1.1945E+05	-7.900	39.00	1.000
1.000	85.13	0.000	0.000	5AL_158_160_L_0							
160 D	4.351	-2.3541E-05	50.75	47.52	111.6	77.56	UL-RL	1.1945E+05	-7.950	39.50	1.000
1.000	87.02	0.000	0.000	5AL_158_160_L_0							
161 D	4.445	-1.4458E-05	51.20	48.89	112.0	77.83	UL-RL	1.1945E+05	-8.000	40.00	1.000
1.000	88.89	0.000	0.000	5AL_158_160_L_0							
162 D	4.537	-5.5218E-06	51.65	50.25	112.5	78.10	UL-RL	1.1945E+05	-8.050	40.50	1.000
1.000	90.75	0.000	0.000	5AL_158_160_L_0							
163 D	4.629	3.2342E-06	52.10	51.58	112.9	78.37	UL-RL	1.1945E+05	-8.100	41.00	1.000
1.000	92.58	0.000	0.000	5AL_158_160_L_0							
164 D	4.719	1.1782E-05	52.55	52.89	113.4	78.63	UL-RL	1.1945E+05	-8.150	41.50	1.000
1.000	94.39	0.000	0.000	5AL_158_160_L_0							
165 D	4.808	2.0099E-05	53.00	54.17	113.8	78.90	UL-RL	1.1945E+05	-8.200	42.00	1.000
1.000	96.17	0.000	0.000	5AL_158_160_L_0							
166 D	4.896	2.8165E-05	53.45	55.42	114.3	79.17	UL-RL	1.1945E+05	-8.250	42.50	1.000
1.000	97.92	0.000	0.000	5AL_158_160_L_0							
167 D	4.982	3.5964E-05	53.90	56.64	114.7	79.43	UL-RL	1.1945E+05	-8.300	43.00	1.000
1.000	99.64	0.000	0.000	5AL_158_160_L_0							
168 D	5.066	4.3486E-05	54.35	57.82	115.2	79.70	UL-RL	1.1945E+05	-8.350	43.50	1.000
1.000	101.3	0.000	0.000	5AL_158_160_L_0							
169 D	5.149	5.0721E-05	54.80	58.97	115.6	79.97	UL-RL	1.1945E+05	-8.400	44.00	1.000
1.000	103.0	0.000	0.000	5AL_158_160_L_0							
170 D	5.229	5.7665E-05	55.25	60.09	116.1	80.23	UL-RL	1.1945E+05	-8.450	44.50	1.000

OPERE PROVVISORIALI					COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
RELAZIONE DI CALCOLO					L100	01	D 09CL	VI0100 004	A	141 di 401
1.000	104.6	0.000	0.000	5AL_158_160_L_0						
171 D	5.308	6.4314E-05	55.70	61.17 116.5	80.50		UL-RL 1.1945E+05	-8.500	45.00	1.000
1.000	106.2	0.000	0.000	5AL_158_160_L_0						
172 D	5.386	7.0668E-05	56.15	62.21 117.0	80.77		UL-RL 1.1945E+05	-8.550	45.50	1.000
1.000	107.7	0.000	0.000	5AL_158_160_L_0						
173 D	5.461	7.6730E-05	56.60	63.22 117.4	81.04		UL-RL 1.1945E+05	-8.600	46.00	1.000
1.000	109.2	0.000	0.000	5AL_158_160_L_0						
174 D	5.535	8.2504E-05	57.05	64.19 117.9	81.30		UL-RL 1.1945E+05	-8.650	46.50	1.000
1.000	110.7	0.000	0.000	5AL_158_160_L_0						
175 D	5.607	8.7996E-05	57.50	65.14 118.3	81.57		UL-RL 1.1945E+05	-8.700	47.00	1.000
1.000	112.1	0.000	0.000	5AL_158_160_L_0						
176 D	5.677	9.3214E-05	57.95	66.04 118.8	81.84		UL-RL 1.1945E+05	-8.750	47.50	1.000
1.000	113.5	0.000	0.000	5AL_158_160_L_0						
177 D	5.746	9.8166E-05	58.40	66.92 119.2	82.10		UL-RL 1.1945E+05	-8.800	48.00	1.000
1.000	114.9	0.000	0.000	5AL_158_160_L_0						
178 D	5.813	1.0286E-04	58.85	67.76 119.7	82.37		UL-RL 1.1945E+05	-8.850	48.50	1.000
1.000	116.3	0.000	0.000	5AL_158_160_L_0						
179 D	5.879	1.0732E-04	59.30	68.58 120.1	82.64		UL-RL 1.1945E+05	-8.900	49.00	1.000
1.000	117.6	0.000	0.000	5AL_158_160_L_0						
180 D	5.943	1.1154E-04	59.75	69.37 120.6	82.90		UL-RL 1.1945E+05	-8.950	49.50	1.000
1.000	118.9	0.000	0.000	5AL_158_160_L_0						
181 D	6.007	1.1555E-04	60.20	70.13 121.0	83.17		UL-RL 1.1945E+05	-9.000	50.00	1.000
1.000	120.1	0.000	0.000	5AL_158_160_L_0						
182 D	6.068	1.1935E-04	60.65	70.87 121.5	83.44		UL-RL 1.1945E+05	-9.050	50.50	1.000
1.000	121.4	0.000	0.000	5AL_158_160_L_0						
183 D	6.129	1.2296E-04	61.10	71.58 121.9	83.71		UL-RL 1.1945E+05	-9.100	51.00	1.000
1.000	122.6	0.000	0.000	5AL_158_160_L_0						
184 D	6.189	1.2639E-04	61.55	72.28 122.4	83.97		UL-RL 1.1945E+05	-9.150	51.50	1.000
1.000	123.8	0.000	0.000	5AL_158_160_L_0						
185 D	6.247	1.2967E-04	62.00	72.95 122.8	84.24		UL-RL 1.1945E+05	-9.200	52.00	1.000
1.000	124.9	0.000	0.000	5AL_158_160_L_0						
186 D	6.305	1.3279E-04	62.45	73.60 123.3	84.51		UL-RL 1.1945E+05	-9.250	52.50	1.000
1.000	126.1	0.000	0.000	5AL_158_160_L_0						
187 D	6.362	1.3579E-04	62.90	74.24 123.7	84.77		UL-RL 1.1945E+05	-9.300	53.00	1.000
1.000	127.2	0.000	0.000	5AL_158_160_L_0						
188 D	6.419	1.3866E-04	63.35	74.87 124.2	85.04		UL-RL 1.1945E+05	-9.350	53.50	1.000
1.000	128.4	0.000	0.000	5AL_158_160_L_0						
189 D	6.474	1.4143E-04	63.80	75.48 124.6	85.31		UL-RL 1.1945E+05	-9.400	54.00	1.000
1.000	129.5	0.000	0.000	5AL_158_160_L_0						
190 D	6.529	1.4411E-04	64.25	76.09 125.1	85.57		UL-RL 1.1945E+05	-9.450	54.50	1.000
1.000	130.6	0.000	0.000	5AL_158_160_L_0						
191 D	6.584	1.4670E-04	64.70	76.68 125.5	85.84		UL-RL 1.1945E+05	-9.500	55.00	1.000
1.000	131.7	0.000	0.000	5AL_158_160_L_0						
192 D	6.638	1.4924E-04	65.15	77.26 126.0	86.11		UL-RL 1.1945E+05	-9.550	55.50	1.000
1.000	132.8	0.000	0.000	5AL_158_160_L_0						
193 D	6.692	1.5171E-04	65.60	77.84 126.4	86.38		UL-RL 1.1945E+05	-9.600	56.00	1.000
1.000	133.8	0.000	0.000	5AL_158_160_L_0						
194 D	6.746	1.5414E-04	66.05	78.41 126.9	86.64		UL-RL 1.1945E+05	-9.650	56.50	1.000
1.000	134.9	0.000	0.000	5AL_158_160_L_0						
195 D	6.799	1.5654E-04	66.50	78.98 127.3	86.91		UL-RL 1.1945E+05	-9.700	57.00	1.000
1.000	136.0	0.000	0.000	5AL_158_160_L_0						
196 D	6.852	1.5891E-04	66.95	79.54 127.8	87.18		UL-RL 1.1945E+05	-9.750	57.50	1.000
1.000	137.0	0.000	0.000	5AL_158_160_L_0						
197 D	6.905	1.6126E-04	67.40	80.10 128.2	87.44		UL-RL 1.1945E+05	-9.800	58.00	1.000
1.000	138.1	0.000	0.000	5AL_158_160_L_0						
198 D	6.958	1.6360E-04	67.85	80.66 128.7	87.71		UL-RL 1.1945E+05	-9.850	58.50	1.000
1.000	139.2	0.000	0.000	5AL_158_160_L_0						
199 D	7.011	1.6594E-04	68.30	81.22 129.1	87.98		UL-RL 1.1945E+05	-9.900	59.00	1.000
1.000	140.2	0.000	0.000	5AL_158_160_L_0						
200 D	7.063	1.6826E-04	68.75	81.78 129.6	88.24		UL-RL 1.1945E+05	-9.950	59.50	1.000
1.000	141.3	0.000	0.000	5AL_158_160_L_0						
201 D	3.557	1.7059E-04	69.20	82.34 130.0	88.51		UL-RL 1.1945E+05	-10.00	60.00	1.000
1.000	142.3	0.000	0.000	5AL_158_160_L_0						



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	142 di 401

RELAZIONE DI CALCOLO

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SLERara_896
Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.25996	-0.25996	3.83068E-10	1.29980E-02
2	0.79916	-0.79916	-1.29980E-02	5.29561E-02
3	1.3577	-1.3577	-5.29561E-02	0.12084
4	1.9354	-1.9354	-0.12084	0.21761
5	2.5325	-2.5325	-0.21761	0.34423
6	3.1488	-3.1488	-0.34423	0.50168
7	3.7845	-3.7845	-0.50168	0.69090
8	4.4394	-4.4394	-0.69090	0.91287
9	5.1136	-5.1136	-0.91287	1.1685
10	5.8071	-5.8071	-1.1685	1.4589
11	6.5198	-6.5198	-1.4589	1.7849
12	7.2519	-7.2519	-1.7849	2.1475
13	8.0032	-8.0032	-2.1475	2.5476
14	8.7738	-8.7738	-2.5476	2.9863
15	9.5637	-9.5637	-2.9863	3.4645
16	10.373	-10.373	-3.4645	3.9832
17	11.201	-11.201	-3.9832	4.5432
18	12.049	-12.049	-4.5432	5.1457
19	12.916	-12.916	-5.1457	5.7915
20	13.803	-13.803	-5.7915	6.4816
21	14.708	-14.708	-6.4816	7.2170
22	15.633	-15.633	-7.2170	7.9987
23	16.577	-16.577	-7.9987	8.8276
24	17.541	-17.541	-8.8276	9.7046
25	18.524	-18.524	-9.7046	10.631
26	19.526	-19.526	-10.631	11.607
27	20.547	-20.547	-11.607	12.634
28	21.587	-21.587	-12.634	13.714
29	22.647	-22.647	-13.714	14.846
30	23.727	-23.727	-14.846	16.032
31	24.825	-24.825	-16.032	17.274
32	25.943	-25.943	-17.274	18.571
33	27.080	-27.080	-18.571	19.925
34	28.236	-28.236	-19.925	21.337
35	29.412	-29.412	-21.337	22.807
36	30.607	-30.607	-22.807	24.338
37	31.821	-31.821	-24.338	25.929
38	33.054	-33.054	-25.929	27.581
39	34.307	-34.307	-27.581	29.297
40	35.579	-35.579	-29.297	31.076
41	36.870	-36.870	-31.076	32.919
42	38.181	-38.181	-32.919	34.828
43	39.511	-39.511	-34.828	36.804
44	40.860	-40.860	-36.804	38.847
45	42.229	-42.229	-38.847	40.958
46	43.616	-43.616	-40.958	43.139
47	45.023	-45.023	-43.139	45.390
48	46.450	-46.450	-45.390	47.713
49	47.895	-47.895	-47.713	50.107
50	49.360	-49.360	-50.107	52.575
51	50.844	-50.844	-52.575	55.118
52	52.348	-52.348	-55.118	57.735
53	53.870	-53.870	-57.735	60.429
54	55.412	-55.412	-60.429	63.199
55	56.974	-56.974	-63.199	66.048
56	58.554	-58.554	-66.048	68.976
57	60.154	-60.154	-68.976	71.983
58	61.773	-61.773	-71.983	75.072
59	63.412	-63.412	-75.072	78.242

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	143 di 401

RELAZIONE DI CALCOLO

60	65.070	-65.070	-78.242	81.496
61	66.747	-66.747	-81.496	84.833
62	68.443	-68.443	-84.833	88.255
63	70.159	-70.159	-88.255	91.763
64	71.893	-71.893	-91.763	95.358
65	73.648	-73.648	-95.358	99.040
66	73.417	-73.417	-99.040	102.71
67	73.044	-73.044	-102.71	106.36
68	72.529	-72.529	-106.36	109.99
69	71.873	-71.873	-109.99	113.58
70	71.074	-71.074	-113.58	117.14
71	70.133	-70.133	-117.14	120.64
72	69.050	-69.050	-120.64	124.10
73	67.825	-67.825	-124.10	127.49
74	66.458	-66.458	-127.49	130.81
75	64.950	-64.950	-130.81	134.06
76	63.299	-63.299	-134.06	137.22
77	61.506	-61.506	-137.22	140.30
78	59.571	-59.571	-140.30	143.28
79	57.494	-57.494	-143.28	146.15
80	55.275	-55.275	-146.15	148.92
81	52.914	-52.914	-148.92	151.56
82	50.485	-50.485	-151.56	154.09
83	47.990	-47.990	-154.09	156.48
84	45.427	-45.427	-156.48	158.76
85	42.797	-42.797	-158.76	160.90
86	40.099	-40.099	-160.90	162.90
87	37.334	-37.334	-162.90	164.77
88	34.502	-34.502	-164.77	166.49
89	31.603	-31.603	-166.49	168.07
90	28.637	-28.637	-168.07	169.50
91	25.603	-25.603	-169.50	170.78
92	22.502	-22.502	-170.78	171.91
93	19.333	-19.333	-171.91	172.88
94	16.098	-16.098	-172.88	173.68
95	12.795	-12.795	-173.68	174.32
96	9.4246	-9.4246	-174.32	174.79
97	5.9872	-5.9872	-174.79	175.09
98	2.4824	-2.4824	-175.09	175.22
99	-1.0896	1.0896	-175.22	175.16
100	-4.7289	4.7289	-175.16	174.93
101	-8.4354	8.4354	-174.93	174.50
102	-12.209	12.209	-174.50	173.89
103	-16.050	16.050	-173.89	173.09
104	-19.959	19.959	-173.09	172.09
105	-23.934	23.934	-172.09	170.90
106	-27.977	27.977	-170.90	169.50
107	-32.088	32.088	-169.50	167.89
108	-36.265	36.265	-167.89	166.08
109	-40.510	40.510	-166.08	164.05
110	-44.822	44.822	-164.05	161.81
111	-49.201	49.201	-161.81	159.35
112	-53.648	53.648	-159.35	156.67
113	-58.162	58.162	-156.67	153.76
114	-62.743	62.743	-153.76	150.62
115	-67.391	67.391	-150.62	147.26
116	-71.920	71.920	-147.26	143.66
117	-75.986	75.986	-143.66	139.86
118	-79.619	79.619	-139.86	135.88
119	-82.848	82.848	-135.88	131.74
120	-85.700	85.700	-131.74	127.45
121	-88.201	88.201	-127.45	123.04
122	-90.377	90.377	-123.04	118.52
123	-92.253	92.253	-118.52	113.91
124	-93.854	93.854	-113.91	109.22
125	-95.202	95.202	-109.22	104.46
126	-96.319	96.319	-104.46	99.641
127	-97.198	97.198	-99.641	94.781
128	-97.771	97.771	-94.781	89.893
129	-97.873	97.873	-89.893	84.999
130	-97.413	97.413	-84.999	80.128
131	-96.446	96.446	-80.128	75.306
132	-95.028	95.028	-75.306	70.555
133	-93.209	93.209	-70.555	65.894
134	-91.036	91.036	-65.894	61.342
135	-88.581	88.581	-61.342	56.913
136	-85.894	85.894	-56.913	52.618
137	-83.010	83.010	-52.618	48.468
138	-79.962	79.962	-48.468	44.470
139	-76.780	76.780	-44.470	40.631
140	-73.493	73.493	-40.631	36.956



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	144 di 401

141	-70.125	70.125	-36.956	33.450
142	-66.701	66.701	-33.450	30.115
143	-63.242	63.242	-30.115	26.953
144	-59.781	59.781	-26.953	23.964
145	-56.335	56.335	-23.964	21.147
146	-52.918	52.918	-21.147	18.501
147	-49.543	49.543	-18.501	16.024
148	-46.221	46.221	-16.024	13.713
149	-42.960	42.960	-13.713	11.565
150	-39.773	39.773	-11.565	9.5760
151	-36.669	36.669	-9.5760	7.7425
152	-33.673	33.673	-7.7425	6.0588
153	-30.789	30.789	-6.0588	4.5194
154	-28.022	28.022	-4.5194	3.1183
155	-25.376	25.376	-3.1183	1.8495
156	-22.853	22.853	-1.8495	0.70678
157	-20.455	20.455	-0.70678	-0.31595
158	-18.181	18.181	0.31595	-1.2250
159	-16.031	16.031	1.2250	-2.0265
160	-14.005	14.005	2.0265	-2.7268
161	-12.101	12.101	2.7268	-3.3318
162	-10.317	10.317	3.3318	-3.8477
163	-8.6511	8.6511	3.8477	-4.2802
164	-7.1001	7.1001	4.2802	-4.6352
165	-5.6609	5.6609	4.6352	-4.9183
166	-4.3301	4.3301	4.9183	-5.1348
167	-3.1044	3.1044	5.1348	-5.2900
168	-1.9798	1.9798	5.2900	-5.3890
169	-0.95265	0.95265	5.3890	-5.4366
170	-1.89827E-02	1.89827E-02	5.4366	-5.4376
171	0.82512	-0.82512	5.4376	-5.3963
172	1.5836	-1.5836	5.3963	-5.3172
173	2.2604	-2.2604	5.3172	-5.2041
174	2.8593	-2.8593	5.2041	-5.0612
175	3.3841	-3.3841	5.0612	-4.8920
176	3.8385	-3.8385	4.8920	-4.7000
177	4.2260	-4.2260	4.7000	-4.4887
178	4.5500	-4.5500	4.4887	-4.2612
179	4.8138	-4.8138	4.2612	-4.0205
180	5.0205	-5.0205	4.0205	-3.7695
181	5.1729	-5.1729	3.7695	-3.5109
182	5.2739	-5.2739	3.5109	-3.2472
183	5.3259	-5.3259	3.2472	-2.9809
184	5.3313	-5.3313	2.9809	-2.7143
185	5.2924	-5.2924	2.7143	-2.4497
186	5.2109	-5.2109	2.4497	-2.1891
187	5.0888	-5.0888	2.1891	-1.9347
188	4.9276	-4.9276	1.9347	-1.6883
189	4.7288	-4.7288	1.6883	-1.4519
190	4.4935	-4.4935	1.4519	-1.2272
191	4.2228	-4.2228	1.2272	-1.0161
192	3.9177	-3.9177	1.0161	-0.82018
193	3.5788	-3.5788	0.82018	-0.64124
194	3.2067	-3.2067	0.64124	-0.48091
195	2.8020	-2.8020	0.48091	-0.34081
196	2.3650	-2.3650	0.34081	-0.22256
197	1.8959	-1.8959	0.22256	-0.12776
198	1.3950	-1.3950	0.12776	-5.80059E-02
199	0.86229	-0.86229	5.80059E-02	-1.48916E-02
200	0.29795	-0.29795	1.48916E-02	-1.42755E-12



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	145 di 401

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PARATIEPLUS(TM)  NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Feb 29, 2016*
paratia_mario.BaseDesignSection_28.SLERara_896
Exe Time :21 June 2016      11:57:45
-----

```

FINAL INCREMENTAL ANALYSIS

SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	2
3	CONVERGENCE :YES	9

END OF PROCESS FOR PROBLEM

```

paratia_mario
NONLINEAR SOLUTION CPU TIME .... 0.06 [sec]
DATABASE CREATION CPU TIME..... 0.23 [sec]

```

Design Assumption : A1+M1+R1 - File di Paratie - File di output (.out)

```

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PARATIEPLUS(TM)  NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Feb 29, 2016*
paratia_mario.BaseDesignSection_28.A1M1R1_926
Exe Time :21 June 2016      11:57:45
-----

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*****
*
* PARATIE PLUS Non-Linear Spring Engine
*
* AN ELASTOPLASTIC FINITE ELEMENT PROGRAM
* FOR FLEXIBLE EARTH-RETAINING STRUCTURES
*
* Written by Ce.A.S. s.r.l. (ITALY)
* with the scientific supervision of
* Roberto Nova - full professor SOIL MECHANICS
* at Politecnico di Milano (ITALY)
*
*-----
*
* RELEASE  2016  *Build date: Feb 29, 2016*
*
*
* Ce.A.S.      S.R.L  CENTRO DI ANALISI STRUTTURALE
*             VIALE  GIUSTINIANO 10
*             20129  M I L A N O  (ITALIA)
*
* TEL.        +39 02 2020221  (+39 035 23 67 19)
* FAX         +39 02 29512533  (+39 035 42285 49)
* email       bruno.becci@ceas.it
* Web Page    www.ceas.it
*-----

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JOB : paratia_mario.BaseDesignSection_28.A1M1R1_926

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STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL_STRESS >
ACCEPTED <PARAM ITEMAX 40 >

```



LINEA PESCARA - BARI
 RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:
 Lotto 1: Ripalta - Lesina
 PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	146 di 401

RELAZIONE DI CALCOLO

* WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED *
 * BY THE PROGRAM. *

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]

 | PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*
 |

| paratia_mario.BaseDesignSection_28.A1M1R1_926
Exe Time :21 June 2016 11:57:45

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

paratia_mario

NO. OF NODAL POINTS (NUMNP) 201
 NO. OF COORDINATES (NCOORD)..... 2
 NO. OF NODE DOFS (NDOF)..... 2
 NO. OF EQUATIONS (NEQ)..... 402
 NO. OF CONSTRAINTS CARDS (NWINC)..... 0
 NO. OF ELEMENT GROUPS (NEG)..... 3
 NO. OF SOLUTION STEPS (NSTE)..... 3
 NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
 NO. OF RECORD FROM WALGEN 47
 NO. OF LONG NAMES (LASTNAME) 13
 LENGTH UNIT CHOICE 3 (M)
 FORCE UNIT CHOICE 3 (KN)
 MAX PORE PRESSURE TABLE LENGTH..... 1
 NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF . 0

IDOFA (01) = 2 Y-DISPL.F
 IDOFA (02) = 4 X-ROT. F

RELEVANT ITEMS UNITS

STRESSES kPa
 Y-DISPLACEMENTS m
 ROTATIONS RADIANS
 BEAM AND SLAB MOMENTS kN*m/m
 BEAM SHEAR FORCES kN/m
 ANCHOR FORCES kN/m
 AXIAL FORCES IN TRUSSES kN/m
 AXIAL FORCES SPRINGS kN/m
 Y-REACTIONS kN/m
 X-MOMENT REACTIONS kN*m/m
 ETC.

 | PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*
 |

| paratia_mario.BaseDesignSection_28.A1M1R1_926
Exe Time :21 June 2016 11:57:45

P R E P R O C E S S O R D A T A

N O . O F C O M M A N D S 47

1 : UNIT m kN
 2 : TITLE paratia_mario
 3 : DELTA 0.05
 4 : option param itemax 40
 5 : WALL LeftWall_32 0 -10 0 1
 6 : SOIL 0_L LeftWall_32 -10 0 1 0
 7 : SOIL 0_R LeftWall_32 -10 0 2 180
 8 : LDATA 5AL_158_160_L_0 0 LeftWall_32
 9 : ATREST 0.5933 0.5 1
 10 : WEIGHT 19 9 10
 11 : PERMEABILITY 1E-08
 12 : RESISTANCE 10 25



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	147 di 401

RELAZIONE DI CALCOLO

```

13 : YOUNG 2.5E+05 4E+05
14 : ENDL
15 : MATERIAL S355_114 2.1E+08
16 : MATERIAL C3240_106 3.335E+07
17 : BEAM WallElement_33 LeftWall_32 -10 0 S355_114 0.1381 00 00
18 : STEP Stage1_31
19 : CHANGE 5AL_158_160_L_0 U-FRICT=25 LeftWall_32
20 : CHANGE 5AL_158_160_L_0 D-FRICT=25 LeftWall_32
21 : CHANGE 5AL_158_160_L_0 U-KA=0.406 LeftWall_32
22 : CHANGE 5AL_158_160_L_0 U-KP=3.396 LeftWall_32
23 : CHANGE 5AL_158_160_L_0 D-KA=0.406 LeftWall_32
24 : CHANGE 5AL_158_160_L_0 D-KP=3.396 LeftWall_32
25 : CHANGE 5AL_158_160_L_0 U-COHE=10 LeftWall_32
26 : CHANGE 5AL_158_160_L_0 D-COHE=10 LeftWall_32
27 : SETWALL LeftWall_32
28 : GEOM 0 0
29 : WATER -4 0 -10 0 0
30 : ENDSTEP
31 : STEP Stage2_168
32 : CHANGE 5AL_158_160_L_0 D-FRICT=25 LeftWall_32
33 : CHANGE 5AL_158_160_L_0 D-COHE=10 LeftWall_32
34 : SETWALL LeftWall_32
35 : GEOM 0 0
36 : SURCHARGE 57 0 0 0
37 : WATER -4 0 -10 0 0
38 : ADD WallElement_33
39 : ENDSTEP
40 : STEP Stage3_6035
41 : CHANGE 5AL_158_160_L_0 D-FRICT=25 LeftWall_32
42 : CHANGE 5AL_158_160_L_0 D-COHE=10 LeftWall_32
43 : SETWALL LeftWall_32
44 : GEOM 0 -3.2
45 : SURCHARGE 57 0 0 0
46 : WATER -4 0 -10 0 0
47 : ENDSTEP

```

 PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A1M1R1_926
 Exe Time :21 June 2016 11:57:45

N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD /
1	0.0000	0.0000 /	2	0.0000	-5.00000E-02 /	3	0.0000	-0.10000 /
5	0.0000	-0.20000 /	6	0.0000	-0.25000 /	7	0.0000	-0.30000 /
9	0.0000	-0.40000 /	10	0.0000	-0.45000 /	11	0.0000	-0.50000 /
13	0.0000	-0.60000 /	14	0.0000	-0.65000 /	15	0.0000	-0.70000 /
17	0.0000	-0.80000 /	18	0.0000	-0.85000 /	19	0.0000	-0.90000 /
21	0.0000	-1.0000 /	22	0.0000	-1.0500 /	23	0.0000	-1.1000 /
25	0.0000	-1.2000 /	26	0.0000	-1.2500 /	27	0.0000	-1.3000 /
29	0.0000	-1.4000 /	30	0.0000	-1.4500 /	31	0.0000	-1.5000 /
33	0.0000	-1.6000 /	34	0.0000	-1.6500 /	35	0.0000	-1.7000 /
37	0.0000	-1.8000 /	38	0.0000	-1.8500 /	39	0.0000	-1.9000 /
41	0.0000	-2.0000 /	42	0.0000	-2.0500 /	43	0.0000	-2.1000 /
45	0.0000	-2.2000 /	46	0.0000	-2.2500 /	47	0.0000	-2.3000 /
49	0.0000	-2.4000 /	50	0.0000	-2.4500 /	51	0.0000	-2.5000 /
53	0.0000	-2.6000 /	54	0.0000	-2.6500 /	55	0.0000	-2.7000 /
57	0.0000	-2.8000 /	58	0.0000	-2.8500 /	59	0.0000	-2.9000 /
61	0.0000	-3.0000 /	62	0.0000	-3.0500 /	63	0.0000	-3.1000 /
65	0.0000	-3.2000 /	66	0.0000	-3.2500 /	67	0.0000	-3.3000 /
69	0.0000	-3.4000 /	70	0.0000	-3.4500 /	71	0.0000	-3.5000 /
73	0.0000	-3.6000 /	74	0.0000	-3.6500 /	75	0.0000	-3.7000 /
77	0.0000	-3.8000 /	78	0.0000	-3.8500 /	79	0.0000	-3.9000 /
81	0.0000	-4.0000 /	82	0.0000	-4.0500 /	83	0.0000	-4.1000 /
85	0.0000	-4.2000 /	86	0.0000	-4.2500 /	87	0.0000	-4.3000 /
89	0.0000	-4.4000 /	90	0.0000	-4.4500 /	91	0.0000	-4.5000 /
93	0.0000	-4.6000 /	94	0.0000	-4.6500 /	95	0.0000	-4.7000 /
97	0.0000	-4.8000 /	98	0.0000	-4.8500 /	99	0.0000	-4.9000 /
101	0.0000	-5.0000 /	102	0.0000	-5.0500 /	103	0.0000	-5.1000 /
105	0.0000	-5.2000 /	106	0.0000	-5.2500 /	107	0.0000	-5.3000 /
109	0.0000	-5.4000 /	110	0.0000	-5.4500 /	111	0.0000	-5.5000 /
113	0.0000	-5.6000 /	114	0.0000	-5.6500 /	115	0.0000	-5.7000 /
117	0.0000	-5.8000 /	118	0.0000	-5.8500 /	119	0.0000	-5.9000 /
121	0.0000	-6.0000 /	122	0.0000	-6.0500 /	123	0.0000	-6.1000 /
125	0.0000	-6.2000 /	126	0.0000	-6.2500 /	127	0.0000	-6.3000 /
			128	0.0000	-6.3500 /	129	0.0000	-6.4000 /



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	149 di 401

RELAZIONE DI CALCOLO

27	27	1	0.5000E-01	0.000	0.000	0.000	1.000
28	28	1	0.5000E-01	0.000	0.000	0.000	1.000
29	29	1	0.5000E-01	0.000	0.000	0.000	1.000
30	30	1	0.5000E-01	0.000	0.000	0.000	1.000
31	31	1	0.5000E-01	0.000	0.000	0.000	1.000
32	32	1	0.5000E-01	0.000	0.000	0.000	1.000
33	33	1	0.5000E-01	0.000	0.000	0.000	1.000
34	34	1	0.5000E-01	0.000	0.000	0.000	1.000
35	35	1	0.5000E-01	0.000	0.000	0.000	1.000
36	36	1	0.5000E-01	0.000	0.000	0.000	1.000
37	37	1	0.5000E-01	0.000	0.000	0.000	1.000
38	38	1	0.5000E-01	0.000	0.000	0.000	1.000
39	39	1	0.5000E-01	0.000	0.000	0.000	1.000
40	40	1	0.5000E-01	0.000	0.000	0.000	1.000
41	41	1	0.5000E-01	0.000	0.000	0.000	1.000
42	42	1	0.5000E-01	0.000	0.000	0.000	1.000
43	43	1	0.5000E-01	0.000	0.000	0.000	1.000
44	44	1	0.5000E-01	0.000	0.000	0.000	1.000
45	45	1	0.5000E-01	0.000	0.000	0.000	1.000
46	46	1	0.5000E-01	0.000	0.000	0.000	1.000
47	47	1	0.5000E-01	0.000	0.000	0.000	1.000
48	48	1	0.5000E-01	0.000	0.000	0.000	1.000
49	49	1	0.5000E-01	0.000	0.000	0.000	1.000
50	50	1	0.5000E-01	0.000	0.000	0.000	1.000
51	51	1	0.5000E-01	0.000	0.000	0.000	1.000
52	52	1	0.5000E-01	0.000	0.000	0.000	1.000
53	53	1	0.5000E-01	0.000	0.000	0.000	1.000
54	54	1	0.5000E-01	0.000	0.000	0.000	1.000
55	55	1	0.5000E-01	0.000	0.000	0.000	1.000
56	56	1	0.5000E-01	0.000	0.000	0.000	1.000
57	57	1	0.5000E-01	0.000	0.000	0.000	1.000
58	58	1	0.5000E-01	0.000	0.000	0.000	1.000
59	59	1	0.5000E-01	0.000	0.000	0.000	1.000
60	60	1	0.5000E-01	0.000	0.000	0.000	1.000
61	61	1	0.5000E-01	0.000	0.000	0.000	1.000
62	62	1	0.5000E-01	0.000	0.000	0.000	1.000
63	63	1	0.5000E-01	0.000	0.000	0.000	1.000
64	64	1	0.5000E-01	0.000	0.000	0.000	1.000
65	65	1	0.5000E-01	0.000	0.000	0.000	1.000
66	66	1	0.5000E-01	0.000	0.000	0.000	1.000
67	67	1	0.5000E-01	0.000	0.000	0.000	1.000
68	68	1	0.5000E-01	0.000	0.000	0.000	1.000
69	69	1	0.5000E-01	0.000	0.000	0.000	1.000
70	70	1	0.5000E-01	0.000	0.000	0.000	1.000
71	71	1	0.5000E-01	0.000	0.000	0.000	1.000
72	72	1	0.5000E-01	0.000	0.000	0.000	1.000
73	73	1	0.5000E-01	0.000	0.000	0.000	1.000
74	74	1	0.5000E-01	0.000	0.000	0.000	1.000
75	75	1	0.5000E-01	0.000	0.000	0.000	1.000
76	76	1	0.5000E-01	0.000	0.000	0.000	1.000
77	77	1	0.5000E-01	0.000	0.000	0.000	1.000
78	78	1	0.5000E-01	0.000	0.000	0.000	1.000
79	79	1	0.5000E-01	0.000	0.000	0.000	1.000
80	80	1	0.5000E-01	0.000	0.000	0.000	1.000
81	81	1	0.5000E-01	0.000	0.000	0.000	1.000
82	82	1	0.5000E-01	0.000	0.000	0.000	1.000
83	83	1	0.5000E-01	0.000	0.000	0.000	1.000
84	84	1	0.5000E-01	0.000	0.000	0.000	1.000
85	85	1	0.5000E-01	0.000	0.000	0.000	1.000
86	86	1	0.5000E-01	0.000	0.000	0.000	1.000
87	87	1	0.5000E-01	0.000	0.000	0.000	1.000
88	88	1	0.5000E-01	0.000	0.000	0.000	1.000
89	89	1	0.5000E-01	0.000	0.000	0.000	1.000
90	90	1	0.5000E-01	0.000	0.000	0.000	1.000
91	91	1	0.5000E-01	0.000	0.000	0.000	1.000
92	92	1	0.5000E-01	0.000	0.000	0.000	1.000
93	93	1	0.5000E-01	0.000	0.000	0.000	1.000
94	94	1	0.5000E-01	0.000	0.000	0.000	1.000
95	95	1	0.5000E-01	0.000	0.000	0.000	1.000
96	96	1	0.5000E-01	0.000	0.000	0.000	1.000
97	97	1	0.5000E-01	0.000	0.000	0.000	1.000
98	98	1	0.5000E-01	0.000	0.000	0.000	1.000
99	99	1	0.5000E-01	0.000	0.000	0.000	1.000
100	100	1	0.5000E-01	0.000	0.000	0.000	1.000
101	101	1	0.5000E-01	0.000	0.000	0.000	1.000
102	102	1	0.5000E-01	0.000	0.000	0.000	1.000
103	103	1	0.5000E-01	0.000	0.000	0.000	1.000
104	104	1	0.5000E-01	0.000	0.000	0.000	1.000
105	105	1	0.5000E-01	0.000	0.000	0.000	1.000
106	106	1	0.5000E-01	0.000	0.000	0.000	1.000
107	107	1	0.5000E-01	0.000	0.000	0.000	1.000

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	150 di 401

RELAZIONE DI CALCOLO

108	108	1	0.5000E-01	0.000	0.000	0.000	1.000
109	109	1	0.5000E-01	0.000	0.000	0.000	1.000
110	110	1	0.5000E-01	0.000	0.000	0.000	1.000
111	111	1	0.5000E-01	0.000	0.000	0.000	1.000
112	112	1	0.5000E-01	0.000	0.000	0.000	1.000
113	113	1	0.5000E-01	0.000	0.000	0.000	1.000
114	114	1	0.5000E-01	0.000	0.000	0.000	1.000
115	115	1	0.5000E-01	0.000	0.000	0.000	1.000
116	116	1	0.5000E-01	0.000	0.000	0.000	1.000
117	117	1	0.5000E-01	0.000	0.000	0.000	1.000
118	118	1	0.5000E-01	0.000	0.000	0.000	1.000
119	119	1	0.5000E-01	0.000	0.000	0.000	1.000
120	120	1	0.5000E-01	0.000	0.000	0.000	1.000
121	121	1	0.5000E-01	0.000	0.000	0.000	1.000
122	122	1	0.5000E-01	0.000	0.000	0.000	1.000
123	123	1	0.5000E-01	0.000	0.000	0.000	1.000
124	124	1	0.5000E-01	0.000	0.000	0.000	1.000
125	125	1	0.5000E-01	0.000	0.000	0.000	1.000
126	126	1	0.5000E-01	0.000	0.000	0.000	1.000
127	127	1	0.5000E-01	0.000	0.000	0.000	1.000
128	128	1	0.5000E-01	0.000	0.000	0.000	1.000
129	129	1	0.5000E-01	0.000	0.000	0.000	1.000
130	130	1	0.5000E-01	0.000	0.000	0.000	1.000
131	131	1	0.5000E-01	0.000	0.000	0.000	1.000
132	132	1	0.5000E-01	0.000	0.000	0.000	1.000
133	133	1	0.5000E-01	0.000	0.000	0.000	1.000
134	134	1	0.5000E-01	0.000	0.000	0.000	1.000
135	135	1	0.5000E-01	0.000	0.000	0.000	1.000
136	136	1	0.5000E-01	0.000	0.000	0.000	1.000
137	137	1	0.5000E-01	0.000	0.000	0.000	1.000
138	138	1	0.5000E-01	0.000	0.000	0.000	1.000
139	139	1	0.5000E-01	0.000	0.000	0.000	1.000
140	140	1	0.5000E-01	0.000	0.000	0.000	1.000
141	141	1	0.5000E-01	0.000	0.000	0.000	1.000
142	142	1	0.5000E-01	0.000	0.000	0.000	1.000
143	143	1	0.5000E-01	0.000	0.000	0.000	1.000
144	144	1	0.5000E-01	0.000	0.000	0.000	1.000
145	145	1	0.5000E-01	0.000	0.000	0.000	1.000
146	146	1	0.5000E-01	0.000	0.000	0.000	1.000
147	147	1	0.5000E-01	0.000	0.000	0.000	1.000
148	148	1	0.5000E-01	0.000	0.000	0.000	1.000
149	149	1	0.5000E-01	0.000	0.000	0.000	1.000
150	150	1	0.5000E-01	0.000	0.000	0.000	1.000
151	151	1	0.5000E-01	0.000	0.000	0.000	1.000
152	152	1	0.5000E-01	0.000	0.000	0.000	1.000
153	153	1	0.5000E-01	0.000	0.000	0.000	1.000
154	154	1	0.5000E-01	0.000	0.000	0.000	1.000
155	155	1	0.5000E-01	0.000	0.000	0.000	1.000
156	156	1	0.5000E-01	0.000	0.000	0.000	1.000
157	157	1	0.5000E-01	0.000	0.000	0.000	1.000
158	158	1	0.5000E-01	0.000	0.000	0.000	1.000
159	159	1	0.5000E-01	0.000	0.000	0.000	1.000
160	160	1	0.5000E-01	0.000	0.000	0.000	1.000
161	161	1	0.5000E-01	0.000	0.000	0.000	1.000
162	162	1	0.5000E-01	0.000	0.000	0.000	1.000
163	163	1	0.5000E-01	0.000	0.000	0.000	1.000
164	164	1	0.5000E-01	0.000	0.000	0.000	1.000
165	165	1	0.5000E-01	0.000	0.000	0.000	1.000
166	166	1	0.5000E-01	0.000	0.000	0.000	1.000
167	167	1	0.5000E-01	0.000	0.000	0.000	1.000
168	168	1	0.5000E-01	0.000	0.000	0.000	1.000
169	169	1	0.5000E-01	0.000	0.000	0.000	1.000
170	170	1	0.5000E-01	0.000	0.000	0.000	1.000
171	171	1	0.5000E-01	0.000	0.000	0.000	1.000
172	172	1	0.5000E-01	0.000	0.000	0.000	1.000
173	173	1	0.5000E-01	0.000	0.000	0.000	1.000
174	174	1	0.5000E-01	0.000	0.000	0.000	1.000
175	175	1	0.5000E-01	0.000	0.000	0.000	1.000
176	176	1	0.5000E-01	0.000	0.000	0.000	1.000
177	177	1	0.5000E-01	0.000	0.000	0.000	1.000
178	178	1	0.5000E-01	0.000	0.000	0.000	1.000
179	179	1	0.5000E-01	0.000	0.000	0.000	1.000
180	180	1	0.5000E-01	0.000	0.000	0.000	1.000
181	181	1	0.5000E-01	0.000	0.000	0.000	1.000
182	182	1	0.5000E-01	0.000	0.000	0.000	1.000
183	183	1	0.5000E-01	0.000	0.000	0.000	1.000
184	184	1	0.5000E-01	0.000	0.000	0.000	1.000
185	185	1	0.5000E-01	0.000	0.000	0.000	1.000
186	186	1	0.5000E-01	0.000	0.000	0.000	1.000
187	187	1	0.5000E-01	0.000	0.000	0.000	1.000
188	188	1	0.5000E-01	0.000	0.000	0.000	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VID100 004	A	151 di 401

RELAZIONE DI CALCOLO

189	189	1	0.5000E-01	0.000	0.000	0.000	1.000
190	190	1	0.5000E-01	0.000	0.000	0.000	1.000
191	191	1	0.5000E-01	0.000	0.000	0.000	1.000
192	192	1	0.5000E-01	0.000	0.000	0.000	1.000
193	193	1	0.5000E-01	0.000	0.000	0.000	1.000
194	194	1	0.5000E-01	0.000	0.000	0.000	1.000
195	195	1	0.5000E-01	0.000	0.000	0.000	1.000
196	196	1	0.5000E-01	0.000	0.000	0.000	1.000
197	197	1	0.5000E-01	0.000	0.000	0.000	1.000
198	198	1	0.5000E-01	0.000	0.000	0.000	1.000
199	199	1	0.5000E-01	0.000	0.000	0.000	1.000
200	200	1	0.4999E-01	0.000	0.000	0.000	1.000
201	201	1	0.2499E-01	0.000	0.000	0.000	1.000

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A1M1R1_926
Exe Time :21 June 2016 11:57:45

ELEMENT GROUP NO. 2

0_R
5 201 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage status

- 1 active
- 2 active
- 3 active

material set no. 1

prop(1) angle 180.000
prop(2) layer as foreseen 1.00000

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.2500E-01	0.000	0.000	0.000	2.000
2	2	1	0.5000E-01	0.000	0.000	0.000	2.000
3	3	1	0.5000E-01	0.000	0.000	0.000	2.000
4	4	1	0.5000E-01	0.000	0.000	0.000	2.000
5	5	1	0.5000E-01	0.000	0.000	0.000	2.000
6	6	1	0.5000E-01	0.000	0.000	0.000	2.000
7	7	1	0.5000E-01	0.000	0.000	0.000	2.000
8	8	1	0.5000E-01	0.000	0.000	0.000	2.000
9	9	1	0.5000E-01	0.000	0.000	0.000	2.000
10	10	1	0.5000E-01	0.000	0.000	0.000	2.000
11	11	1	0.5000E-01	0.000	0.000	0.000	2.000
12	12	1	0.5000E-01	0.000	0.000	0.000	2.000
13	13	1	0.5000E-01	0.000	0.000	0.000	2.000
14	14	1	0.5000E-01	0.000	0.000	0.000	2.000
15	15	1	0.5000E-01	0.000	0.000	0.000	2.000
16	16	1	0.5000E-01	0.000	0.000	0.000	2.000
17	17	1	0.5000E-01	0.000	0.000	0.000	2.000
18	18	1	0.5000E-01	0.000	0.000	0.000	2.000
19	19	1	0.5000E-01	0.000	0.000	0.000	2.000
20	20	1	0.5000E-01	0.000	0.000	0.000	2.000
21	21	1	0.5000E-01	0.000	0.000	0.000	2.000
22	22	1	0.5000E-01	0.000	0.000	0.000	2.000
23	23	1	0.5000E-01	0.000	0.000	0.000	2.000
24	24	1	0.5000E-01	0.000	0.000	0.000	2.000
25	25	1	0.5000E-01	0.000	0.000	0.000	2.000
26	26	1	0.5000E-01	0.000	0.000	0.000	2.000
27	27	1	0.5000E-01	0.000	0.000	0.000	2.000
28	28	1	0.5000E-01	0.000	0.000	0.000	2.000
29	29	1	0.5000E-01	0.000	0.000	0.000	2.000
30	30	1	0.5000E-01	0.000	0.000	0.000	2.000
31	31	1	0.5000E-01	0.000	0.000	0.000	2.000
32	32	1	0.5000E-01	0.000	0.000	0.000	2.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	152 di 401

33	33	1	0.5000E-01	0.000	0.000	0.000	2.000
34	34	1	0.5000E-01	0.000	0.000	0.000	2.000
35	35	1	0.5000E-01	0.000	0.000	0.000	2.000
36	36	1	0.5000E-01	0.000	0.000	0.000	2.000
37	37	1	0.5000E-01	0.000	0.000	0.000	2.000
38	38	1	0.5000E-01	0.000	0.000	0.000	2.000
39	39	1	0.5000E-01	0.000	0.000	0.000	2.000
40	40	1	0.5000E-01	0.000	0.000	0.000	2.000
41	41	1	0.5000E-01	0.000	0.000	0.000	2.000
42	42	1	0.5000E-01	0.000	0.000	0.000	2.000
43	43	1	0.5000E-01	0.000	0.000	0.000	2.000
44	44	1	0.5000E-01	0.000	0.000	0.000	2.000
45	45	1	0.5000E-01	0.000	0.000	0.000	2.000
46	46	1	0.5000E-01	0.000	0.000	0.000	2.000
47	47	1	0.5000E-01	0.000	0.000	0.000	2.000
48	48	1	0.5000E-01	0.000	0.000	0.000	2.000
49	49	1	0.5000E-01	0.000	0.000	0.000	2.000
50	50	1	0.5000E-01	0.000	0.000	0.000	2.000
51	51	1	0.5000E-01	0.000	0.000	0.000	2.000
52	52	1	0.5000E-01	0.000	0.000	0.000	2.000
53	53	1	0.5000E-01	0.000	0.000	0.000	2.000
54	54	1	0.5000E-01	0.000	0.000	0.000	2.000
55	55	1	0.5000E-01	0.000	0.000	0.000	2.000
56	56	1	0.5000E-01	0.000	0.000	0.000	2.000
57	57	1	0.5000E-01	0.000	0.000	0.000	2.000
58	58	1	0.5000E-01	0.000	0.000	0.000	2.000
59	59	1	0.5000E-01	0.000	0.000	0.000	2.000
60	60	1	0.5000E-01	0.000	0.000	0.000	2.000
61	61	1	0.5000E-01	0.000	0.000	0.000	2.000
62	62	1	0.5000E-01	0.000	0.000	0.000	2.000
63	63	1	0.5000E-01	0.000	0.000	0.000	2.000
64	64	1	0.5000E-01	0.000	0.000	0.000	2.000
65	65	1	0.5000E-01	0.000	0.000	0.000	2.000
66	66	1	0.5000E-01	0.000	0.000	0.000	2.000
67	67	1	0.5000E-01	0.000	0.000	0.000	2.000
68	68	1	0.5000E-01	0.000	0.000	0.000	2.000
69	69	1	0.5000E-01	0.000	0.000	0.000	2.000
70	70	1	0.5000E-01	0.000	0.000	0.000	2.000
71	71	1	0.5000E-01	0.000	0.000	0.000	2.000
72	72	1	0.5000E-01	0.000	0.000	0.000	2.000
73	73	1	0.5000E-01	0.000	0.000	0.000	2.000
74	74	1	0.5000E-01	0.000	0.000	0.000	2.000
75	75	1	0.5000E-01	0.000	0.000	0.000	2.000
76	76	1	0.5000E-01	0.000	0.000	0.000	2.000
77	77	1	0.5000E-01	0.000	0.000	0.000	2.000
78	78	1	0.5000E-01	0.000	0.000	0.000	2.000
79	79	1	0.5000E-01	0.000	0.000	0.000	2.000
80	80	1	0.5000E-01	0.000	0.000	0.000	2.000
81	81	1	0.5000E-01	0.000	0.000	0.000	2.000
82	82	1	0.5000E-01	0.000	0.000	0.000	2.000
83	83	1	0.5000E-01	0.000	0.000	0.000	2.000
84	84	1	0.5000E-01	0.000	0.000	0.000	2.000
85	85	1	0.5000E-01	0.000	0.000	0.000	2.000
86	86	1	0.5000E-01	0.000	0.000	0.000	2.000
87	87	1	0.5000E-01	0.000	0.000	0.000	2.000
88	88	1	0.5000E-01	0.000	0.000	0.000	2.000
89	89	1	0.5000E-01	0.000	0.000	0.000	2.000
90	90	1	0.5000E-01	0.000	0.000	0.000	2.000
91	91	1	0.5000E-01	0.000	0.000	0.000	2.000
92	92	1	0.5000E-01	0.000	0.000	0.000	2.000
93	93	1	0.5000E-01	0.000	0.000	0.000	2.000
94	94	1	0.5000E-01	0.000	0.000	0.000	2.000
95	95	1	0.5000E-01	0.000	0.000	0.000	2.000
96	96	1	0.5000E-01	0.000	0.000	0.000	2.000
97	97	1	0.5000E-01	0.000	0.000	0.000	2.000
98	98	1	0.5000E-01	0.000	0.000	0.000	2.000
99	99	1	0.5000E-01	0.000	0.000	0.000	2.000
100	100	1	0.5000E-01	0.000	0.000	0.000	2.000
101	101	1	0.5000E-01	0.000	0.000	0.000	2.000
102	102	1	0.5000E-01	0.000	0.000	0.000	2.000
103	103	1	0.5000E-01	0.000	0.000	0.000	2.000
104	104	1	0.5000E-01	0.000	0.000	0.000	2.000
105	105	1	0.5000E-01	0.000	0.000	0.000	2.000
106	106	1	0.5000E-01	0.000	0.000	0.000	2.000
107	107	1	0.5000E-01	0.000	0.000	0.000	2.000
108	108	1	0.5000E-01	0.000	0.000	0.000	2.000
109	109	1	0.5000E-01	0.000	0.000	0.000	2.000
110	110	1	0.5000E-01	0.000	0.000	0.000	2.000
111	111	1	0.5000E-01	0.000	0.000	0.000	2.000
112	112	1	0.5000E-01	0.000	0.000	0.000	2.000
113	113	1	0.5000E-01	0.000	0.000	0.000	2.000



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	153 di 401

RELAZIONE DI CALCOLO

114	114	1	0.5000E-01	0.000	0.000	0.000	2.000
115	115	1	0.5000E-01	0.000	0.000	0.000	2.000
116	116	1	0.5000E-01	0.000	0.000	0.000	2.000
117	117	1	0.5000E-01	0.000	0.000	0.000	2.000
118	118	1	0.5000E-01	0.000	0.000	0.000	2.000
119	119	1	0.5000E-01	0.000	0.000	0.000	2.000
120	120	1	0.5000E-01	0.000	0.000	0.000	2.000
121	121	1	0.5000E-01	0.000	0.000	0.000	2.000
122	122	1	0.5000E-01	0.000	0.000	0.000	2.000
123	123	1	0.5000E-01	0.000	0.000	0.000	2.000
124	124	1	0.5000E-01	0.000	0.000	0.000	2.000
125	125	1	0.5000E-01	0.000	0.000	0.000	2.000
126	126	1	0.5000E-01	0.000	0.000	0.000	2.000
127	127	1	0.5000E-01	0.000	0.000	0.000	2.000
128	128	1	0.5000E-01	0.000	0.000	0.000	2.000
129	129	1	0.5000E-01	0.000	0.000	0.000	2.000
130	130	1	0.5000E-01	0.000	0.000	0.000	2.000
131	131	1	0.5000E-01	0.000	0.000	0.000	2.000
132	132	1	0.5000E-01	0.000	0.000	0.000	2.000
133	133	1	0.5000E-01	0.000	0.000	0.000	2.000
134	134	1	0.5000E-01	0.000	0.000	0.000	2.000
135	135	1	0.5000E-01	0.000	0.000	0.000	2.000
136	136	1	0.5000E-01	0.000	0.000	0.000	2.000
137	137	1	0.5000E-01	0.000	0.000	0.000	2.000
138	138	1	0.5000E-01	0.000	0.000	0.000	2.000
139	139	1	0.5000E-01	0.000	0.000	0.000	2.000
140	140	1	0.5000E-01	0.000	0.000	0.000	2.000
141	141	1	0.5000E-01	0.000	0.000	0.000	2.000
142	142	1	0.5000E-01	0.000	0.000	0.000	2.000
143	143	1	0.5000E-01	0.000	0.000	0.000	2.000
144	144	1	0.5000E-01	0.000	0.000	0.000	2.000
145	145	1	0.5000E-01	0.000	0.000	0.000	2.000
146	146	1	0.5000E-01	0.000	0.000	0.000	2.000
147	147	1	0.5000E-01	0.000	0.000	0.000	2.000
148	148	1	0.5000E-01	0.000	0.000	0.000	2.000
149	149	1	0.5000E-01	0.000	0.000	0.000	2.000
150	150	1	0.5000E-01	0.000	0.000	0.000	2.000
151	151	1	0.5000E-01	0.000	0.000	0.000	2.000
152	152	1	0.5000E-01	0.000	0.000	0.000	2.000
153	153	1	0.5000E-01	0.000	0.000	0.000	2.000
154	154	1	0.5000E-01	0.000	0.000	0.000	2.000
155	155	1	0.5000E-01	0.000	0.000	0.000	2.000
156	156	1	0.5000E-01	0.000	0.000	0.000	2.000
157	157	1	0.5000E-01	0.000	0.000	0.000	2.000
158	158	1	0.5000E-01	0.000	0.000	0.000	2.000
159	159	1	0.5000E-01	0.000	0.000	0.000	2.000
160	160	1	0.5000E-01	0.000	0.000	0.000	2.000
161	161	1	0.5000E-01	0.000	0.000	0.000	2.000
162	162	1	0.5000E-01	0.000	0.000	0.000	2.000
163	163	1	0.5000E-01	0.000	0.000	0.000	2.000
164	164	1	0.5000E-01	0.000	0.000	0.000	2.000
165	165	1	0.5000E-01	0.000	0.000	0.000	2.000
166	166	1	0.5000E-01	0.000	0.000	0.000	2.000
167	167	1	0.5000E-01	0.000	0.000	0.000	2.000
168	168	1	0.5000E-01	0.000	0.000	0.000	2.000
169	169	1	0.5000E-01	0.000	0.000	0.000	2.000
170	170	1	0.5000E-01	0.000	0.000	0.000	2.000
171	171	1	0.5000E-01	0.000	0.000	0.000	2.000
172	172	1	0.5000E-01	0.000	0.000	0.000	2.000
173	173	1	0.5000E-01	0.000	0.000	0.000	2.000
174	174	1	0.5000E-01	0.000	0.000	0.000	2.000
175	175	1	0.5000E-01	0.000	0.000	0.000	2.000
176	176	1	0.5000E-01	0.000	0.000	0.000	2.000
177	177	1	0.5000E-01	0.000	0.000	0.000	2.000
178	178	1	0.5000E-01	0.000	0.000	0.000	2.000
179	179	1	0.5000E-01	0.000	0.000	0.000	2.000
180	180	1	0.5000E-01	0.000	0.000	0.000	2.000
181	181	1	0.5000E-01	0.000	0.000	0.000	2.000
182	182	1	0.5000E-01	0.000	0.000	0.000	2.000
183	183	1	0.5000E-01	0.000	0.000	0.000	2.000
184	184	1	0.5000E-01	0.000	0.000	0.000	2.000
185	185	1	0.5000E-01	0.000	0.000	0.000	2.000
186	186	1	0.5000E-01	0.000	0.000	0.000	2.000
187	187	1	0.5000E-01	0.000	0.000	0.000	2.000
188	188	1	0.5000E-01	0.000	0.000	0.000	2.000
189	189	1	0.5000E-01	0.000	0.000	0.000	2.000
190	190	1	0.5000E-01	0.000	0.000	0.000	2.000
191	191	1	0.5000E-01	0.000	0.000	0.000	2.000
192	192	1	0.5000E-01	0.000	0.000	0.000	2.000
193	193	1	0.5000E-01	0.000	0.000	0.000	2.000
194	194	1	0.5000E-01	0.000	0.000	0.000	2.000



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	154 di 401

RELAZIONE DI CALCOLO

195	195	1	0.5000E-01	0.000	0.000	0.000	2.000
196	196	1	0.5000E-01	0.000	0.000	0.000	2.000
197	197	1	0.5000E-01	0.000	0.000	0.000	2.000
198	198	1	0.5000E-01	0.000	0.000	0.000	2.000
199	199	1	0.5000E-01	0.000	0.000	0.000	2.000
200	200	1	0.4999E-01	0.000	0.000	0.000	2.000
201	201	1	0.2499E-01	0.000	0.000	0.000	2.000

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A1M1R1_926
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ELEMENT GROUP NO. 3

WallElement_33 :
2 200 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0

.....2D WALL ELEMENT.....

element group behaviour throughout stage analysis

stage status

1 inactive
2 active
3 active

material set no. 1

prop(1) young modulus 0.210000E+09
prop(2) modification time 0.00000
prop(3) new young modulus 0.00000
prop(4) poisson ratio 0.00000
prop(5) future0.168200E-43

no. of step variable items: 1
step inertia multiplier

1 1.000
2 1.000
3 1.000

element data

el	na	nb	mat	erc1	erc2	thick
1	1	2	1	0.000	0.000	0.1381
2	2	3	1	0.000	0.000	0.1381
3	3	4	1	0.000	0.000	0.1381
4	4	5	1	0.000	0.000	0.1381
5	5	6	1	0.000	0.000	0.1381
6	6	7	1	0.000	0.000	0.1381
7	7	8	1	0.000	0.000	0.1381
8	8	9	1	0.000	0.000	0.1381
9	9	10	1	0.000	0.000	0.1381
10	10	11	1	0.000	0.000	0.1381
11	11	12	1	0.000	0.000	0.1381
12	12	13	1	0.000	0.000	0.1381
13	13	14	1	0.000	0.000	0.1381
14	14	15	1	0.000	0.000	0.1381
15	15	16	1	0.000	0.000	0.1381
16	16	17	1	0.000	0.000	0.1381
17	17	18	1	0.000	0.000	0.1381
18	18	19	1	0.000	0.000	0.1381
19	19	20	1	0.000	0.000	0.1381
20	20	21	1	0.000	0.000	0.1381
21	21	22	1	0.000	0.000	0.1381
22	22	23	1	0.000	0.000	0.1381
23	23	24	1	0.000	0.000	0.1381
24	24	25	1	0.000	0.000	0.1381
25	25	26	1	0.000	0.000	0.1381
26	26	27	1	0.000	0.000	0.1381
27	27	28	1	0.000	0.000	0.1381
28	28	29	1	0.000	0.000	0.1381
29	29	30	1	0.000	0.000	0.1381



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100.004	A	155 di 401

RELAZIONE DI CALCOLO

30	30	31	1	0.000	0.000	0.1381
31	31	32	1	0.000	0.000	0.1381
32	32	33	1	0.000	0.000	0.1381
33	33	34	1	0.000	0.000	0.1381
34	34	35	1	0.000	0.000	0.1381
35	35	36	1	0.000	0.000	0.1381
36	36	37	1	0.000	0.000	0.1381
37	37	38	1	0.000	0.000	0.1381
38	38	39	1	0.000	0.000	0.1381
39	39	40	1	0.000	0.000	0.1381
40	40	41	1	0.000	0.000	0.1381
41	41	42	1	0.000	0.000	0.1381
42	42	43	1	0.000	0.000	0.1381
43	43	44	1	0.000	0.000	0.1381
44	44	45	1	0.000	0.000	0.1381
45	45	46	1	0.000	0.000	0.1381
46	46	47	1	0.000	0.000	0.1381
47	47	48	1	0.000	0.000	0.1381
48	48	49	1	0.000	0.000	0.1381
49	49	50	1	0.000	0.000	0.1381
50	50	51	1	0.000	0.000	0.1381
51	51	52	1	0.000	0.000	0.1381
52	52	53	1	0.000	0.000	0.1381
53	53	54	1	0.000	0.000	0.1381
54	54	55	1	0.000	0.000	0.1381
55	55	56	1	0.000	0.000	0.1381
56	56	57	1	0.000	0.000	0.1381
57	57	58	1	0.000	0.000	0.1381
58	58	59	1	0.000	0.000	0.1381
59	59	60	1	0.000	0.000	0.1381
60	60	61	1	0.000	0.000	0.1381
61	61	62	1	0.000	0.000	0.1381
62	62	63	1	0.000	0.000	0.1381
63	63	64	1	0.000	0.000	0.1381
64	64	65	1	0.000	0.000	0.1381
65	65	66	1	0.000	0.000	0.1381
66	66	67	1	0.000	0.000	0.1381
67	67	68	1	0.000	0.000	0.1381
68	68	69	1	0.000	0.000	0.1381
69	69	70	1	0.000	0.000	0.1381
70	70	71	1	0.000	0.000	0.1381
71	71	72	1	0.000	0.000	0.1381
72	72	73	1	0.000	0.000	0.1381
73	73	74	1	0.000	0.000	0.1381
74	74	75	1	0.000	0.000	0.1381
75	75	76	1	0.000	0.000	0.1381
76	76	77	1	0.000	0.000	0.1381
77	77	78	1	0.000	0.000	0.1381
78	78	79	1	0.000	0.000	0.1381
79	79	80	1	0.000	0.000	0.1381
80	80	81	1	0.000	0.000	0.1381
81	81	82	1	0.000	0.000	0.1381
82	82	83	1	0.000	0.000	0.1381
83	83	84	1	0.000	0.000	0.1381
84	84	85	1	0.000	0.000	0.1381
85	85	86	1	0.000	0.000	0.1381
86	86	87	1	0.000	0.000	0.1381
87	87	88	1	0.000	0.000	0.1381
88	88	89	1	0.000	0.000	0.1381
89	89	90	1	0.000	0.000	0.1381
90	90	91	1	0.000	0.000	0.1381
91	91	92	1	0.000	0.000	0.1381
92	92	93	1	0.000	0.000	0.1381
93	93	94	1	0.000	0.000	0.1381
94	94	95	1	0.000	0.000	0.1381
95	95	96	1	0.000	0.000	0.1381
96	96	97	1	0.000	0.000	0.1381
97	97	98	1	0.000	0.000	0.1381
98	98	99	1	0.000	0.000	0.1381
99	99	100	1	0.000	0.000	0.1381
100	100	101	1	0.000	0.000	0.1381
101	101	102	1	0.000	0.000	0.1381
102	102	103	1	0.000	0.000	0.1381
103	103	104	1	0.000	0.000	0.1381
104	104	105	1	0.000	0.000	0.1381
105	105	106	1	0.000	0.000	0.1381
106	106	107	1	0.000	0.000	0.1381
107	107	108	1	0.000	0.000	0.1381
108	108	109	1	0.000	0.000	0.1381
109	109	110	1	0.000	0.000	0.1381
110	110	111	1	0.000	0.000	0.1381



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	156 di 401

111	111	112	1	0.000	0.000	0.1381
112	112	113	1	0.000	0.000	0.1381
113	113	114	1	0.000	0.000	0.1381
114	114	115	1	0.000	0.000	0.1381
115	115	116	1	0.000	0.000	0.1381
116	116	117	1	0.000	0.000	0.1381
117	117	118	1	0.000	0.000	0.1381
118	118	119	1	0.000	0.000	0.1381
119	119	120	1	0.000	0.000	0.1381
120	120	121	1	0.000	0.000	0.1381
121	121	122	1	0.000	0.000	0.1381
122	122	123	1	0.000	0.000	0.1381
123	123	124	1	0.000	0.000	0.1381
124	124	125	1	0.000	0.000	0.1381
125	125	126	1	0.000	0.000	0.1381
126	126	127	1	0.000	0.000	0.1381
127	127	128	1	0.000	0.000	0.1381
128	128	129	1	0.000	0.000	0.1381
129	129	130	1	0.000	0.000	0.1381
130	130	131	1	0.000	0.000	0.1381
131	131	132	1	0.000	0.000	0.1381
132	132	133	1	0.000	0.000	0.1381
133	133	134	1	0.000	0.000	0.1381
134	134	135	1	0.000	0.000	0.1381
135	135	136	1	0.000	0.000	0.1381
136	136	137	1	0.000	0.000	0.1381
137	137	138	1	0.000	0.000	0.1381
138	138	139	1	0.000	0.000	0.1381
139	139	140	1	0.000	0.000	0.1381
140	140	141	1	0.000	0.000	0.1381
141	141	142	1	0.000	0.000	0.1381
142	142	143	1	0.000	0.000	0.1381
143	143	144	1	0.000	0.000	0.1381
144	144	145	1	0.000	0.000	0.1381
145	145	146	1	0.000	0.000	0.1381
146	146	147	1	0.000	0.000	0.1381
147	147	148	1	0.000	0.000	0.1381
148	148	149	1	0.000	0.000	0.1381
149	149	150	1	0.000	0.000	0.1381
150	150	151	1	0.000	0.000	0.1381
151	151	152	1	0.000	0.000	0.1381
152	152	153	1	0.000	0.000	0.1381
153	153	154	1	0.000	0.000	0.1381
154	154	155	1	0.000	0.000	0.1381
155	155	156	1	0.000	0.000	0.1381
156	156	157	1	0.000	0.000	0.1381
157	157	158	1	0.000	0.000	0.1381
158	158	159	1	0.000	0.000	0.1381
159	159	160	1	0.000	0.000	0.1381
160	160	161	1	0.000	0.000	0.1381
161	161	162	1	0.000	0.000	0.1381
162	162	163	1	0.000	0.000	0.1381
163	163	164	1	0.000	0.000	0.1381
164	164	165	1	0.000	0.000	0.1381
165	165	166	1	0.000	0.000	0.1381
166	166	167	1	0.000	0.000	0.1381
167	167	168	1	0.000	0.000	0.1381
168	168	169	1	0.000	0.000	0.1381
169	169	170	1	0.000	0.000	0.1381
170	170	171	1	0.000	0.000	0.1381
171	171	172	1	0.000	0.000	0.1381
172	172	173	1	0.000	0.000	0.1381
173	173	174	1	0.000	0.000	0.1381
174	174	175	1	0.000	0.000	0.1381
175	175	176	1	0.000	0.000	0.1381
176	176	177	1	0.000	0.000	0.1381
177	177	178	1	0.000	0.000	0.1381
178	178	179	1	0.000	0.000	0.1381
179	179	180	1	0.000	0.000	0.1381
180	180	181	1	0.000	0.000	0.1381
181	181	182	1	0.000	0.000	0.1381
182	182	183	1	0.000	0.000	0.1381
183	183	184	1	0.000	0.000	0.1381
184	184	185	1	0.000	0.000	0.1381
185	185	186	1	0.000	0.000	0.1381
186	186	187	1	0.000	0.000	0.1381
187	187	188	1	0.000	0.000	0.1381
188	188	189	1	0.000	0.000	0.1381
189	189	190	1	0.000	0.000	0.1381
190	190	191	1	0.000	0.000	0.1381
191	191	192	1	0.000	0.000	0.1381



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	157 di 401

RELAZIONE DI CALCOLO

192	192	193	1	0.000	0.000	0.1381
193	193	194	1	0.000	0.000	0.1381
194	194	195	1	0.000	0.000	0.1381
195	195	196	1	0.000	0.000	0.1381
196	196	197	1	0.000	0.000	0.1381
197	197	198	1	0.000	0.000	0.1381
198	198	199	1	0.000	0.000	0.1381
199	199	200	1	0.000	0.000	0.1381
200	200	201	1	0.000	0.000	0.1381

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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NO. OF NODAL LOADS (NLOAD) 0
NO. OF LOAD CURVES (NLCUR) 6
MAXIMUM POINTS/LCURVE (NPTM)..... 5

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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LOAD DATA

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
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LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	158 di 401

0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
4.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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LOAD BALANCE

STEP	1	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	1	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	2	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	2	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	3	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	3	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	159 di 401

RELAZIONE DI CALCOLO

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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NO. OF LAYERS 1
NO. OF DATA PER LAYER..... 100

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO.	1<NAME	>= 10.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 10.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 25.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.40600	WALL NO.	1
ITEM NO.	11<U-KP	>= 3.3960	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO.	52<D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 10.000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 25.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.40600	WALL NO.	1
ITEM NO.	61<D-KP	>= 3.3960	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-07	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 2

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 2

ITEM NO.	1<NAME	>= 10.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 10.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 25.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.40600	WALL NO.	1
ITEM NO.	11<U-KP	>= 3.3960	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO.	52<D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 10.000	(BOTH WALLS)	



LINEA PESCARA - BARI
 RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:
 Lotto 1: Ripalta - Lesina
 PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	160 di 401

RELAZIONE DI CALCOLO

ITEM NO.	59<D-FRICT >=	25.000	(BOTH WALLS)	
ITEM NO.	60<D-KA >=	0.40600	WALL NO.	1
ITEM NO.	61<D-KP >=	3.3960	WALL NO.	1
ITEM NO.	77<D-PERM >=	0.10000E-07	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 3

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO.	1<NAME >=	10.000	(BOTH WALLS)	
ITEM NO.	2<NATURE >=	1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL >=	0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL >=	1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD >=	19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB >=	9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW >=	10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE >=	10.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT >=	25.000	(BOTH WALLS)	
ITEM NO.	10<U-KA >=	0.40600	WALL NO.	1
ITEM NO.	11<U-KP >=	3.3960	WALL NO.	1
ITEM NO.	12<K0-NC >=	0.59330	(BOTH WALLS)	
ITEM NO.	13<NEXP >=	0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR >=	1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL >=	1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC >=	0.25000E+06	(BOTH WALLS)	
ITEM NO.	18<EUR >=	0.40000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM >=	0.10000E-07	(BOTH WALLS)	
ITEM NO.	52<D-NATURE >=	1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL >=	0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE >=	10.000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT >=	25.000	(BOTH WALLS)	
ITEM NO.	60<D-KA >=	0.40600	WALL NO.	1
ITEM NO.	61<D-KP >=	3.3960	WALL NO.	1
ITEM NO.	77<D-PERM >=	0.10000E-07	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 3 VALUES

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection 28.A1M1R1_926
 Exe Time :21 June 2016 11:57:45

PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER TABLE		-4.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-10.00	-10.00
WATER BEHAVIOUR FLAG (LINING OPT)		0.000	0.000
PORE_UPDATE_FLAG		0.000	0.000
PORE_TAB_FLAG (gt.0= use tabs)		0.000	0.000
lateral thrusts reduction elevatio		0.000	0.000
Downhill reduction factor for effe		0.000	0.000
Downhill reduction factor for pore		0.000	0.000
Uphill reduction factor for effect		0.000	0.000
Uphill reduction factor for pore p		0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]		0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]		0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]		0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]		0.000	0.000
UPHILL DELTA/PHI RATIO		0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]		0.000	0.000
DOWNHILL DELTA/PHI RATIO		0.000	0.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	161 di 401

RELAZIONE DI CALCOLO

DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

=====
-----end of step 1

STEP NO. 2

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	0.000	0.000
Z-WATER TABLE	-4.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	57.00	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-10.00	-10.00
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB_FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

=====
-----end of step 2

STEP NO. 3

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-3.200	0.000
Z-WATER TABLE	-4.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	57.00	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-10.00	-10.00
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB_FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	163 di 401

RELAZIONE DI CALCOLO

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.AIMIRI_926
Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 1

0 L
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.9432E+05	0.000	0.000	1.000
1.000	0.000	0.000	0.000	5AL_158_160_L_0							
2 D	2.8182E-02	0.000	0.9500	0.5636	0.9500	0.5636	V-C	2.9432E+05	-5.0000E-02	0.000	1.000
1.000	0.5636	0.000	0.000	5AL_158_160_L_0							
3 D	5.6364E-02	0.000	1.900	1.127	1.900	1.127	V-C	2.9432E+05	-0.1000	0.000	1.000
1.000	1.127	0.000	0.000	5AL_158_160_L_0							
4 D	8.4545E-02	0.000	2.850	1.691	2.850	1.691	V-C	2.9432E+05	-0.1500	0.000	1.000
1.000	1.691	0.000	0.000	5AL_158_160_L_0							
5 D	0.1127	0.000	3.800	2.255	3.800	2.255	V-C	2.9432E+05	-0.2000	0.000	1.000
1.000	2.255	0.000	0.000	5AL_158_160_L_0							
6 D	0.1409	0.000	4.750	2.818	4.750	2.818	V-C	2.9432E+05	-0.2500	0.000	1.000
1.000	2.818	0.000	0.000	5AL_158_160_L_0							
7 D	0.1691	0.000	5.700	3.382	5.700	3.382	V-C	2.9432E+05	-0.3000	0.000	1.000
1.000	3.382	0.000	0.000	5AL_158_160_L_0							
8 D	0.1973	0.000	6.650	3.945	6.650	3.945	V-C	2.9432E+05	-0.3500	0.000	1.000
1.000	3.945	0.000	0.000	5AL_158_160_L_0							
9 D	0.2255	0.000	7.600	4.509	7.600	4.509	V-C	2.9432E+05	-0.4000	0.000	1.000
1.000	4.509	0.000	0.000	5AL_158_160_L_0							
10 D	0.2536	0.000	8.550	5.073	8.550	5.073	V-C	2.9432E+05	-0.4500	0.000	1.000
1.000	5.073	0.000	0.000	5AL_158_160_L_0							
11 D	0.2818	0.000	9.500	5.636	9.500	5.636	V-C	2.9432E+05	-0.5000	0.000	1.000
1.000	5.636	0.000	0.000	5AL_158_160_L_0							
12 D	0.3100	0.000	10.45	6.200	10.45	6.200	V-C	2.9432E+05	-0.5500	0.000	1.000
1.000	6.200	0.000	0.000	5AL_158_160_L_0							
13 D	0.3382	0.000	11.40	6.764	11.40	6.764	V-C	2.9432E+05	-0.6000	0.000	1.000
1.000	6.764	0.000	0.000	5AL_158_160_L_0							
14 D	0.3664	0.000	12.35	7.327	12.35	7.327	V-C	2.9432E+05	-0.6500	0.000	1.000
1.000	7.327	0.000	0.000	5AL_158_160_L_0							
15 D	0.3945	0.000	13.30	7.891	13.30	7.891	V-C	2.9432E+05	-0.7000	0.000	1.000
1.000	7.891	0.000	0.000	5AL_158_160_L_0							
16 D	0.4227	0.000	14.25	8.455	14.25	8.455	V-C	2.9432E+05	-0.7500	0.000	1.000
1.000	8.455	0.000	0.000	5AL_158_160_L_0							
17 D	0.4509	0.000	15.20	9.018	15.20	9.018	V-C	2.9432E+05	-0.8000	0.000	1.000
1.000	9.018	0.000	0.000	5AL_158_160_L_0							
18 D	0.4791	0.000	16.15	9.582	16.15	9.582	V-C	2.9432E+05	-0.8500	0.000	1.000
1.000	9.582	0.000	0.000	5AL_158_160_L_0							
19 D	0.5073	0.000	17.10	10.15	17.10	10.15	V-C	2.9432E+05	-0.9000	0.000	1.000
1.000	10.15	0.000	0.000	5AL_158_160_L_0							
20 D	0.5355	0.000	18.05	10.71	18.05	10.71	V-C	2.9432E+05	-0.9500	0.000	1.000
1.000	10.71	0.000	0.000	5AL_158_160_L_0							
21 D	0.5636	0.000	19.00	11.27	19.00	11.27	V-C	2.9432E+05	-1.000	0.000	1.000
1.000	11.27	0.000	0.000	5AL_158_160_L_0							
22 D	0.5918	0.000	19.95	11.84	19.95	11.84	V-C	2.9432E+05	-1.050	0.000	1.000
1.000	11.84	0.000	0.000	5AL_158_160_L_0							
23 D	0.6200	0.000	20.90	12.40	20.90	12.40	V-C	2.9432E+05	-1.100	0.000	1.000
1.000	12.40	0.000	0.000	5AL_158_160_L_0							
24 D	0.6482	0.000	21.85	12.96	21.85	12.96	V-C	2.9432E+05	-1.150	0.000	1.000
1.000	12.96	0.000	0.000	5AL_158_160_L_0							
25 D	0.6764	0.000	22.80	13.53	22.80	13.53	V-C	2.9432E+05	-1.200	0.000	1.000
1.000	13.53	0.000	0.000	5AL_158_160_L_0							
26 D	0.7045	0.000	23.75	14.09	23.75	14.09	V-C	2.9432E+05	-1.250	0.000	1.000
1.000	14.09	0.000	0.000	5AL_158_160_L_0							
27 D	0.7327	0.000	24.70	14.65	24.70	14.65	V-C	2.9432E+05	-1.300	0.000	1.000
1.000	14.65	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	164 di 401

28 D	0.7609	0.000	25.65	15.22	25.65	15.22	V-C	2.9432E+05	-1.350	0.000	1.000
1.000	15.22	0.000	0.000	5AL_158_160_L_0							
29 D	0.7691	0.000	26.60	15.78	26.60	15.78	V-C	2.9432E+05	-1.400	0.000	1.000
1.000	15.78	0.000	0.000	5AL_158_160_L_0							
30 D	0.8173	0.000	27.55	16.35	27.55	16.35	V-C	2.9432E+05	-1.450	0.000	1.000
1.000	16.35	0.000	0.000	5AL_158_160_L_0							
31 D	0.8455	0.000	28.50	16.91	28.50	16.91	V-C	2.9432E+05	-1.500	0.000	1.000
1.000	16.91	0.000	0.000	5AL_158_160_L_0							
32 D	0.8736	0.000	29.45	17.47	29.45	17.47	V-C	2.9432E+05	-1.550	0.000	1.000
1.000	17.47	0.000	0.000	5AL_158_160_L_0							
33 D	0.9018	0.000	30.40	18.04	30.40	18.04	V-C	2.9432E+05	-1.600	0.000	1.000
1.000	18.04	0.000	0.000	5AL_158_160_L_0							
34 D	0.9300	0.000	31.35	18.60	31.35	18.60	V-C	2.9432E+05	-1.650	0.000	1.000
1.000	18.60	0.000	0.000	5AL_158_160_L_0							
35 D	0.9582	0.000	32.30	19.16	32.30	19.16	V-C	2.9432E+05	-1.700	0.000	1.000
1.000	19.16	0.000	0.000	5AL_158_160_L_0							
36 D	0.9864	0.000	33.25	19.73	33.25	19.73	V-C	2.9432E+05	-1.750	0.000	1.000
1.000	19.73	0.000	0.000	5AL_158_160_L_0							
37 D	1.015	0.000	34.20	20.29	34.20	20.29	V-C	2.9432E+05	-1.800	0.000	1.000
1.000	20.29	0.000	0.000	5AL_158_160_L_0							
38 D	1.043	0.000	35.15	20.85	35.15	20.85	V-C	2.9432E+05	-1.850	0.000	1.000
1.000	20.85	0.000	0.000	5AL_158_160_L_0							
39 D	1.071	0.000	36.10	21.42	36.10	21.42	V-C	2.9432E+05	-1.900	0.000	1.000
1.000	21.42	0.000	0.000	5AL_158_160_L_0							
40 D	1.099	0.000	37.05	21.98	37.05	21.98	V-C	2.9432E+05	-1.950	0.000	1.000
1.000	21.98	0.000	0.000	5AL_158_160_L_0							
41 D	1.127	0.000	38.00	22.55	38.00	22.55	V-C	2.9432E+05	-2.000	0.000	1.000
1.000	22.55	0.000	0.000	5AL_158_160_L_0							
42 D	1.155	0.000	38.95	23.11	38.95	23.11	V-C	2.9432E+05	-2.050	0.000	1.000
1.000	23.11	0.000	0.000	5AL_158_160_L_0							
43 D	1.184	0.000	39.90	23.67	39.90	23.67	V-C	2.9432E+05	-2.100	0.000	1.000
1.000	23.67	0.000	0.000	5AL_158_160_L_0							
44 D	1.212	0.000	40.85	24.24	40.85	24.24	V-C	2.9432E+05	-2.150	0.000	1.000
1.000	24.24	0.000	0.000	5AL_158_160_L_0							
45 D	1.240	0.000	41.80	24.80	41.80	24.80	V-C	2.9432E+05	-2.200	0.000	1.000
1.000	24.80	0.000	0.000	5AL_158_160_L_0							
46 D	1.268	0.000	42.75	25.36	42.75	25.36	V-C	2.9432E+05	-2.250	0.000	1.000
1.000	25.36	0.000	0.000	5AL_158_160_L_0							
47 D	1.296	0.000	43.70	25.93	43.70	25.93	V-C	2.9432E+05	-2.300	0.000	1.000
1.000	25.93	0.000	0.000	5AL_158_160_L_0							
48 D	1.325	0.000	44.65	26.49	44.65	26.49	V-C	2.9432E+05	-2.350	0.000	1.000
1.000	26.49	0.000	0.000	5AL_158_160_L_0							
49 D	1.353	0.000	45.60	27.05	45.60	27.05	V-C	2.9432E+05	-2.400	0.000	1.000
1.000	27.05	0.000	0.000	5AL_158_160_L_0							
50 D	1.381	0.000	46.55	27.62	46.55	27.62	V-C	2.9432E+05	-2.450	0.000	1.000
1.000	27.62	0.000	0.000	5AL_158_160_L_0							
51 D	1.409	0.000	47.50	28.18	47.50	28.18	V-C	2.9432E+05	-2.500	0.000	1.000
1.000	28.18	0.000	0.000	5AL_158_160_L_0							
52 D	1.437	0.000	48.45	28.75	48.45	28.75	V-C	2.9432E+05	-2.550	0.000	1.000
1.000	28.75	0.000	0.000	5AL_158_160_L_0							
53 D	1.465	0.000	49.40	29.31	49.40	29.31	V-C	2.9432E+05	-2.600	0.000	1.000
1.000	29.31	0.000	0.000	5AL_158_160_L_0							
54 D	1.494	0.000	50.35	29.87	50.35	29.87	V-C	2.9432E+05	-2.650	0.000	1.000
1.000	29.87	0.000	0.000	5AL_158_160_L_0							
55 D	1.522	0.000	51.30	30.44	51.30	30.44	V-C	2.9432E+05	-2.700	0.000	1.000
1.000	30.44	0.000	0.000	5AL_158_160_L_0							
56 D	1.550	0.000	52.25	31.00	52.25	31.00	V-C	2.9432E+05	-2.750	0.000	1.000
1.000	31.00	0.000	0.000	5AL_158_160_L_0							
57 D	1.578	0.000	53.20	31.56	53.20	31.56	V-C	2.9432E+05	-2.800	0.000	1.000
1.000	31.56	0.000	0.000	5AL_158_160_L_0							
58 D	1.606	0.000	54.15	32.13	54.15	32.13	V-C	2.9432E+05	-2.850	0.000	1.000
1.000	32.13	0.000	0.000	5AL_158_160_L_0							
59 D	1.635	0.000	55.10	32.69	55.10	32.69	V-C	2.9432E+05	-2.900	0.000	1.000
1.000	32.69	0.000	0.000	5AL_158_160_L_0							
60 D	1.663	0.000	56.05	33.25	56.05	33.25	V-C	2.9432E+05	-2.950	0.000	1.000
1.000	33.25	0.000	0.000	5AL_158_160_L_0							
61 D	1.691	0.000	57.00	33.82	57.00	33.82	V-C	2.9432E+05	-3.000	0.000	1.000
1.000	33.82	0.000	0.000	5AL_158_160_L_0							
62 D	1.719	0.000	57.95	34.38	57.95	34.38	V-C	2.9432E+05	-3.050	0.000	1.000
1.000	34.38	0.000	0.000	5AL_158_160_L_0							
63 D	1.747	0.000	58.90	34.95	58.90	34.95	V-C	2.9432E+05	-3.100	0.000	1.000
1.000	34.95	0.000	0.000	5AL_158_160_L_0							
64 D	1.775	0.000	59.85	35.51	59.85	35.51	V-C	2.9432E+05	-3.150	0.000	1.000
1.000	35.51	0.000	0.000	5AL_158_160_L_0							
65 D	1.804	0.000	60.80	36.07	60.80	36.07	V-C	2.9432E+05	-3.200	0.000	1.000
1.000	36.07	0.000	0.000	5AL_158_160_L_0							
66 D	1.832	0.000	61.75	36.64	61.75	36.64	V-C	2.9432E+05	-3.250	0.000	1.000
1.000	36.64	0.000	0.000	5AL_158_160_L_0							
67 D	1.860	0.000	62.70	37.20	62.70	37.20	V-C	2.9432E+05	-3.300	0.000	1.000
1.000	37.20	0.000	0.000	5AL_158_160_L_0							
68 D	1.888	0.000	63.65	37.76	63.65	37.76	V-C	2.9432E+05	-3.350	0.000	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

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COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
L100 01 D 09CL VI0100 004 A 165 di 401

RELAZIONE DI CALCOLO

1.000		37.76	0.000	0.000	5AL_158_160_L_0						
69 D	1.916	0.000	64.60	38.33	64.60	38.33	V-C	2.9432E+05	-3.400	0.000	1.000
1.000		38.33	0.000	0.000	5AL_158_160_L_0						
70 D	1.945	0.000	65.55	38.89	65.55	38.89	V-C	2.9432E+05	-3.450	0.000	1.000
1.000		38.89	0.000	0.000	5AL_158_160_L_0						
71 D	1.973	0.000	66.50	39.45	66.50	39.45	V-C	2.9432E+05	-3.500	0.000	1.000
1.000		39.45	0.000	0.000	5AL_158_160_L_0						
72 D	2.001	0.000	67.45	40.02	67.45	40.02	V-C	2.9432E+05	-3.550	0.000	1.000
1.000		40.02	0.000	0.000	5AL_158_160_L_0						
73 D	2.029	0.000	68.40	40.58	68.40	40.58	V-C	2.9432E+05	-3.600	0.000	1.000
1.000		40.58	0.000	0.000	5AL_158_160_L_0						
74 D	2.057	0.000	69.35	41.15	69.35	41.15	V-C	2.9432E+05	-3.650	0.000	1.000
1.000		41.15	0.000	0.000	5AL_158_160_L_0						
75 D	2.085	0.000	70.30	41.71	70.30	41.71	V-C	2.9432E+05	-3.700	0.000	1.000
1.000		41.71	0.000	0.000	5AL_158_160_L_0						
76 D	2.114	0.000	71.25	42.27	71.25	42.27	V-C	2.9432E+05	-3.750	0.000	1.000
1.000		42.27	0.000	0.000	5AL_158_160_L_0						
77 D	2.142	0.000	72.20	42.84	72.20	42.84	V-C	2.9432E+05	-3.800	0.000	1.000
1.000		42.84	0.000	0.000	5AL_158_160_L_0						
78 D	2.170	0.000	73.15	43.40	73.15	43.40	V-C	2.9432E+05	-3.850	0.000	1.000
1.000		43.40	0.000	0.000	5AL_158_160_L_0						
79 D	2.198	0.000	74.10	43.96	74.10	43.96	V-C	2.9432E+05	-3.900	0.000	1.000
1.000		43.96	0.000	0.000	5AL_158_160_L_0						
80 D	2.226	0.000	75.05	44.53	75.05	44.53	V-C	2.9432E+05	-3.950	0.000	1.000
1.000		44.53	0.000	0.000	5AL_158_160_L_0						
81 D	2.255	0.000	76.00	45.09	76.00	45.09	V-C	2.9432E+05	-4.000	0.000	1.000
1.000		45.09	0.000	0.000	5AL_158_160_L_0						
82 D	2.293	0.000	76.45	45.36	76.45	45.36	V-C	2.9432E+05	-4.050	0.5000	1.000
1.000		45.36	0.000	0.000	5AL_158_160_L_0						
83 D	2.331	0.000	76.90	45.62	76.90	45.62	V-C	2.9432E+05	-4.100	1.000	1.000
1.000		45.62	0.000	0.000	5AL_158_160_L_0						
84 D	2.370	0.000	77.35	45.89	77.35	45.89	V-C	2.9432E+05	-4.150	1.500	1.000
1.000		45.89	0.000	0.000	5AL_158_160_L_0						
85 D	2.408	0.000	77.80	46.16	77.80	46.16	V-C	2.9432E+05	-4.200	2.000	1.000
1.000		46.16	0.000	0.000	5AL_158_160_L_0						
86 D	2.446	0.000	78.25	46.43	78.25	46.43	V-C	2.9432E+05	-4.250	2.500	1.000
1.000		46.43	0.000	0.000	5AL_158_160_L_0						
87 D	2.485	0.000	78.70	46.69	78.70	46.69	V-C	2.9432E+05	-4.300	3.000	1.000
1.000		46.69	0.000	0.000	5AL_158_160_L_0						
88 D	2.523	0.000	79.15	46.96	79.15	46.96	V-C	2.9432E+05	-4.350	3.500	1.000
1.000		46.96	0.000	0.000	5AL_158_160_L_0						
89 D	2.561	0.000	79.60	47.23	79.60	47.23	V-C	2.9432E+05	-4.400	4.000	1.000
1.000		47.23	0.000	0.000	5AL_158_160_L_0						
90 D	2.600	0.000	80.05	47.49	80.05	47.49	V-C	2.9432E+05	-4.450	4.500	1.000
1.000		47.49	0.000	0.000	5AL_158_160_L_0						
91 D	2.638	0.000	80.50	47.76	80.50	47.76	V-C	2.9432E+05	-4.500	5.000	1.000
1.000		47.76	0.000	0.000	5AL_158_160_L_0						
92 D	2.676	0.000	80.95	48.03	80.95	48.03	V-C	2.9432E+05	-4.550	5.500	1.000
1.000		48.03	0.000	0.000	5AL_158_160_L_0						
93 D	2.715	0.000	81.40	48.29	81.40	48.29	V-C	2.9432E+05	-4.600	6.000	1.000
1.000		48.29	0.000	0.000	5AL_158_160_L_0						
94 D	2.753	0.000	81.85	48.56	81.85	48.56	V-C	2.9432E+05	-4.650	6.500	1.000
1.000		48.56	0.000	0.000	5AL_158_160_L_0						
95 D	2.791	0.000	82.30	48.83	82.30	48.83	V-C	2.9432E+05	-4.700	7.000	1.000
1.000		48.83	0.000	0.000	5AL_158_160_L_0						
96 D	2.830	0.000	82.75	49.10	82.75	49.10	V-C	2.9432E+05	-4.750	7.500	1.000
1.000		49.10	0.000	0.000	5AL_158_160_L_0						
97 D	2.868	0.000	83.20	49.36	83.20	49.36	V-C	2.9432E+05	-4.800	8.000	1.000
1.000		49.36	0.000	0.000	5AL_158_160_L_0						
98 D	2.906	0.000	83.65	49.63	83.65	49.63	V-C	2.9432E+05	-4.850	8.500	1.000
1.000		49.63	0.000	0.000	5AL_158_160_L_0						
99 D	2.945	0.000	84.10	49.90	84.10	49.90	V-C	2.9432E+05	-4.900	9.000	1.000
1.000		49.90	0.000	0.000	5AL_158_160_L_0						
100 D	2.983	0.000	84.55	50.16	84.55	50.16	V-C	2.9432E+05	-4.950	9.500	1.000
1.000		50.16	0.000	0.000	5AL_158_160_L_0						
101 D	3.022	0.000	85.00	50.43	85.00	50.43	V-C	2.9432E+05	-5.000	10.00	1.000
1.000		50.43	0.000	0.000	5AL_158_160_L_0						
102 D	3.060	0.000	85.45	50.70	85.45	50.70	V-C	2.9432E+05	-5.050	10.50	1.000
1.000		50.70	0.000	0.000	5AL_158_160_L_0						
103 D	3.098	0.000	85.90	50.96	85.90	50.96	V-C	2.9432E+05	-5.100	11.00	1.000
1.000		50.96	0.000	0.000	5AL_158_160_L_0						
104 D	3.137	0.000	86.35	51.23	86.35	51.23	V-C	2.9432E+05	-5.150	11.50	1.000
1.000		51.23	0.000	0.000	5AL_158_160_L_0						
105 D	3.175	0.000	86.80	51.50	86.80	51.50	V-C	2.9432E+05	-5.200	12.00	1.000
1.000		51.50	0.000	0.000	5AL_158_160_L_0						
106 D	3.213	0.000	87.25	51.77	87.25	51.77	V-C	2.9432E+05	-5.250	12.50	1.000
1.000		51.77	0.000	0.000	5AL_158_160_L_0						
107 D	3.252	0.000	87.70	52.03	87.70	52.03	V-C	2.9432E+05	-5.300	13.00	1.000
1.000		52.03	0.000	0.000	5AL_158_160_L_0						
108 D	3.290	0.000	88.15	52.30	88.15	52.30	V-C	2.9432E+05	-5.350	13.50	1.000
1.000		52.30	0.000	0.000	5AL_158_160_L_0						
1.000		65.80	0.000	0.000	5AL_158_160_L_0						

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
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109 D	3.328	0.000	88.60	52.57	88.60	52.57	V-C	2.9432E+05	-5.400	14.00	1.000
1.000	66.57	0.000	0.000	5AL_158_160_L_0							
110 D	3.367	0.000	89.05	52.83	89.05	52.83	V-C	2.9432E+05	-5.450	14.50	1.000
1.000	67.33	0.000	0.000	5AL_158_160_L_0							
111 D	3.405	0.000	89.50	53.10	89.50	53.10	V-C	2.9432E+05	-5.500	15.00	1.000
1.000	68.10	0.000	0.000	5AL_158_160_L_0							
112 D	3.443	0.000	89.95	53.37	89.95	53.37	V-C	2.9432E+05	-5.550	15.50	1.000
1.000	68.87	0.000	0.000	5AL_158_160_L_0							
113 D	3.482	0.000	90.40	53.63	90.40	53.63	V-C	2.9432E+05	-5.600	16.00	1.000
1.000	69.63	0.000	0.000	5AL_158_160_L_0							
114 D	3.520	0.000	90.85	53.90	90.85	53.90	V-C	2.9432E+05	-5.650	16.50	1.000
1.000	70.40	0.000	0.000	5AL_158_160_L_0							
115 D	3.558	0.000	91.30	54.17	91.30	54.17	V-C	2.9432E+05	-5.700	17.00	1.000
1.000	71.17	0.000	0.000	5AL_158_160_L_0							
116 D	3.597	0.000	91.75	54.44	91.75	54.44	V-C	2.9432E+05	-5.750	17.50	1.000
1.000	71.94	0.000	0.000	5AL_158_160_L_0							
117 D	3.635	0.000	92.20	54.70	92.20	54.70	V-C	2.9432E+05	-5.800	18.00	1.000
1.000	72.70	0.000	0.000	5AL_158_160_L_0							
118 D	3.673	0.000	92.65	54.97	92.65	54.97	V-C	2.9432E+05	-5.850	18.50	1.000
1.000	73.47	0.000	0.000	5AL_158_160_L_0							
119 D	3.712	0.000	93.10	55.24	93.10	55.24	V-C	2.9432E+05	-5.900	19.00	1.000
1.000	74.24	0.000	0.000	5AL_158_160_L_0							
120 D	3.750	0.000	93.55	55.50	93.55	55.50	V-C	2.9432E+05	-5.950	19.50	1.000
1.000	75.00	0.000	0.000	5AL_158_160_L_0							
121 D	3.789	0.000	94.00	55.77	94.00	55.77	V-C	2.9432E+05	-6.000	20.00	1.000
1.000	75.77	0.000	0.000	5AL_158_160_L_0							
122 D	3.827	0.000	94.45	56.04	94.45	56.04	V-C	2.9432E+05	-6.050	20.50	1.000
1.000	76.54	0.000	0.000	5AL_158_160_L_0							
123 D	3.865	0.000	94.90	56.30	94.90	56.30	V-C	2.9432E+05	-6.100	21.00	1.000
1.000	77.30	0.000	0.000	5AL_158_160_L_0							
124 D	3.904	0.000	95.35	56.57	95.35	56.57	V-C	2.9432E+05	-6.150	21.50	1.000
1.000	78.07	0.000	0.000	5AL_158_160_L_0							
125 D	3.942	0.000	95.80	56.84	95.80	56.84	V-C	2.9432E+05	-6.200	22.00	1.000
1.000	78.84	0.000	0.000	5AL_158_160_L_0							
126 D	3.980	0.000	96.25	57.11	96.25	57.11	V-C	2.9432E+05	-6.250	22.50	1.000
1.000	79.61	0.000	0.000	5AL_158_160_L_0							
127 D	4.019	0.000	96.70	57.37	96.70	57.37	V-C	2.9432E+05	-6.300	23.00	1.000
1.000	80.37	0.000	0.000	5AL_158_160_L_0							
128 D	4.057	0.000	97.15	57.64	97.15	57.64	V-C	2.9432E+05	-6.350	23.50	1.000
1.000	81.14	0.000	0.000	5AL_158_160_L_0							
129 D	4.095	0.000	97.60	57.91	97.60	57.91	V-C	2.9432E+05	-6.400	24.00	1.000
1.000	81.91	0.000	0.000	5AL_158_160_L_0							
130 D	4.134	0.000	98.05	58.17	98.05	58.17	V-C	2.9432E+05	-6.450	24.50	1.000
1.000	82.67	0.000	0.000	5AL_158_160_L_0							
131 D	4.172	0.000	98.50	58.44	98.50	58.44	V-C	2.9432E+05	-6.500	25.00	1.000
1.000	83.44	0.000	0.000	5AL_158_160_L_0							
132 D	4.210	0.000	98.95	58.71	98.95	58.71	V-C	2.9432E+05	-6.550	25.50	1.000
1.000	84.21	0.000	0.000	5AL_158_160_L_0							
133 D	4.249	0.000	99.40	58.97	99.40	58.97	V-C	2.9432E+05	-6.600	26.00	1.000
1.000	84.97	0.000	0.000	5AL_158_160_L_0							
134 D	4.287	0.000	99.85	59.24	99.85	59.24	V-C	2.9432E+05	-6.650	26.50	1.000
1.000	85.74	0.000	0.000	5AL_158_160_L_0							
135 D	4.325	0.000	100.3	59.51	100.3	59.51	V-C	2.9432E+05	-6.700	27.00	1.000
1.000	86.51	0.000	0.000	5AL_158_160_L_0							
136 D	4.364	0.000	100.8	59.78	100.8	59.78	V-C	2.9432E+05	-6.750	27.50	1.000
1.000	87.28	0.000	0.000	5AL_158_160_L_0							
137 D	4.402	0.000	101.2	60.04	101.2	60.04	V-C	2.9432E+05	-6.800	28.00	1.000
1.000	88.04	0.000	0.000	5AL_158_160_L_0							
138 D	4.440	0.000	101.7	60.31	101.7	60.31	V-C	2.9432E+05	-6.850	28.50	1.000
1.000	88.81	0.000	0.000	5AL_158_160_L_0							
139 D	4.479	0.000	102.1	60.58	102.1	60.58	V-C	2.9432E+05	-6.900	29.00	1.000
1.000	89.58	0.000	0.000	5AL_158_160_L_0							
140 D	4.517	0.000	102.6	60.84	102.6	60.84	V-C	2.9432E+05	-6.950	29.50	1.000
1.000	90.34	0.000	0.000	5AL_158_160_L_0							
141 D	4.556	0.000	103.0	61.11	103.0	61.11	V-C	2.9432E+05	-7.000	30.00	1.000
1.000	91.11	0.000	0.000	5AL_158_160_L_0							
142 D	4.594	0.000	103.5	61.38	103.5	61.38	V-C	2.9432E+05	-7.050	30.50	1.000
1.000	91.88	0.000	0.000	5AL_158_160_L_0							
143 D	4.632	0.000	103.9	61.64	103.9	61.64	V-C	2.9432E+05	-7.100	31.00	1.000
1.000	92.64	0.000	0.000	5AL_158_160_L_0							
144 D	4.671	0.000	104.4	61.91	104.4	61.91	V-C	2.9432E+05	-7.150	31.50	1.000
1.000	93.41	0.000	0.000	5AL_158_160_L_0							
145 D	4.709	0.000	104.8	62.18	104.8	62.18	V-C	2.9432E+05	-7.200	32.00	1.000
1.000	94.18	0.000	0.000	5AL_158_160_L_0							
146 D	4.747	0.000	105.3	62.44	105.3	62.44	V-C	2.9432E+05	-7.250	32.50	1.000
1.000	94.94	0.000	0.000	5AL_158_160_L_0							
147 D	4.786	0.000	105.7	62.71	105.7	62.71	V-C	2.9432E+05	-7.300	33.00	1.000
1.000	95.71	0.000	0.000	5AL_158_160_L_0							
148 D	4.824	0.000	106.2	62.98	106.2	62.98	V-C	2.9432E+05	-7.350	33.50	1.000
1.000	96.48	0.000	0.000	5AL_158_160_L_0							
149 D	4.862	0.000	106.6	63.25	106.6	63.25	V-C	2.9432E+05	-7.400	34.00	1.000

OPERE PROVVISORIALI					COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO	
RELAZIONE DI CALCOLO					LI00	01	D 09CL	VI0100 004	A	167 di 401	
1.000		97.25	0.000	0.000			SAL_158_160_L_0				
150 D	4.901	0.000	107.1	63.51	107.1	63.51	V-C	2.9432E+05	-7.450	34.50	1.000
1.000		98.01	0.000	0.000			SAL_158_160_L_0				
151 D	4.939	0.000	107.5	63.78	107.5	63.78	V-C	2.9432E+05	-7.500	35.00	1.000
1.000		98.78	0.000	0.000			SAL_158_160_L_0				
152 D	4.977	0.000	108.0	64.05	108.0	64.05	V-C	2.9432E+05	-7.550	35.50	1.000
1.000		99.55	0.000	0.000			SAL_158_160_L_0				
153 D	5.016	0.000	108.4	64.31	108.4	64.31	V-C	2.9432E+05	-7.600	36.00	1.000
1.000		100.3	0.000	0.000			SAL_158_160_L_0				
154 D	5.054	0.000	108.9	64.58	108.9	64.58	V-C	2.9432E+05	-7.650	36.50	1.000
1.000		101.1	0.000	0.000			SAL_158_160_L_0				
155 D	5.092	0.000	109.3	64.85	109.3	64.85	V-C	2.9432E+05	-7.700	37.00	1.000
1.000		101.8	0.000	0.000			SAL_158_160_L_0				
156 D	5.131	0.000	109.8	65.11	109.8	65.11	V-C	2.9432E+05	-7.750	37.50	1.000
1.000		102.6	0.000	0.000			SAL_158_160_L_0				
157 D	5.169	0.000	110.2	65.38	110.2	65.38	V-C	2.9432E+05	-7.800	38.00	1.000
1.000		103.4	0.000	0.000			SAL_158_160_L_0				
158 D	5.207	0.000	110.7	65.65	110.7	65.65	V-C	2.9432E+05	-7.850	38.50	1.000
1.000		104.1	0.000	0.000			SAL_158_160_L_0				
159 D	5.246	0.000	111.1	65.92	111.1	65.92	V-C	2.9432E+05	-7.900	39.00	1.000
1.000		104.9	0.000	0.000			SAL_158_160_L_0				
160 D	5.284	0.000	111.6	66.18	111.6	66.18	V-C	2.9432E+05	-7.950	39.50	1.000
1.000		105.7	0.000	0.000			SAL_158_160_L_0				
161 D	5.322	0.000	112.0	66.45	112.0	66.45	V-C	2.9432E+05	-8.000	40.00	1.000
1.000		106.4	0.000	0.000			SAL_158_160_L_0				
162 D	5.361	0.000	112.5	66.72	112.5	66.72	V-C	2.9432E+05	-8.050	40.50	1.000
1.000		107.2	0.000	0.000			SAL_158_160_L_0				
163 D	5.399	0.000	112.9	66.98	112.9	66.98	V-C	2.9432E+05	-8.100	41.00	1.000
1.000		108.0	0.000	0.000			SAL_158_160_L_0				
164 D	5.438	0.000	113.4	67.25	113.4	67.25	V-C	2.9432E+05	-8.150	41.50	1.000
1.000		108.8	0.000	0.000			SAL_158_160_L_0				
165 D	5.476	0.000	113.8	67.52	113.8	67.52	V-C	2.9432E+05	-8.200	42.00	1.000
1.000		109.5	0.000	0.000			SAL_158_160_L_0				
166 D	5.514	0.000	114.3	67.78	114.3	67.78	V-C	2.9432E+05	-8.250	42.50	1.000
1.000		110.3	0.000	0.000			SAL_158_160_L_0				
167 D	5.553	0.000	114.7	68.05	114.7	68.05	V-C	2.9432E+05	-8.300	43.00	1.000
1.000		111.1	0.000	0.000			SAL_158_160_L_0				
168 D	5.591	0.000	115.2	68.32	115.2	68.32	V-C	2.9432E+05	-8.350	43.50	1.000
1.000		111.8	0.000	0.000			SAL_158_160_L_0				
169 D	5.629	0.000	115.6	68.59	115.6	68.59	V-C	2.9432E+05	-8.400	44.00	1.000
1.000		112.6	0.000	0.000			SAL_158_160_L_0				
170 D	5.668	0.000	116.1	68.85	116.1	68.85	V-C	2.9432E+05	-8.450	44.50	1.000
1.000		113.4	0.000	0.000			SAL_158_160_L_0				
171 D	5.706	0.000	116.5	69.12	116.5	69.12	V-C	2.9432E+05	-8.500	45.00	1.000
1.000		114.1	0.000	0.000			SAL_158_160_L_0				
172 D	5.744	0.000	117.0	69.39	117.0	69.39	V-C	2.9432E+05	-8.550	45.50	1.000
1.000		114.9	0.000	0.000			SAL_158_160_L_0				
173 D	5.783	0.000	117.4	69.65	117.4	69.65	V-C	2.9432E+05	-8.600	46.00	1.000
1.000		115.7	0.000	0.000			SAL_158_160_L_0				
174 D	5.821	0.000	117.9	69.92	117.9	69.92	V-C	2.9432E+05	-8.650	46.50	1.000
1.000		116.4	0.000	0.000			SAL_158_160_L_0				
175 D	5.859	0.000	118.3	70.19	118.3	70.19	V-C	2.9432E+05	-8.700	47.00	1.000
1.000		117.2	0.000	0.000			SAL_158_160_L_0				
176 D	5.898	0.000	118.8	70.45	118.8	70.45	V-C	2.9432E+05	-8.750	47.50	1.000
1.000		118.0	0.000	0.000			SAL_158_160_L_0				
177 D	5.936	0.000	119.2	70.72	119.2	70.72	V-C	2.9432E+05	-8.800	48.00	1.000
1.000		118.7	0.000	0.000			SAL_158_160_L_0				
178 D	5.974	0.000	119.7	70.99	119.7	70.99	V-C	2.9432E+05	-8.850	48.50	1.000
1.000		119.5	0.000	0.000			SAL_158_160_L_0				
179 D	6.013	0.000	120.1	71.26	120.1	71.26	V-C	2.9432E+05	-8.900	49.00	1.000
1.000		120.3	0.000	0.000			SAL_158_160_L_0				
180 D	6.051	0.000	120.6	71.52	120.6	71.52	V-C	2.9432E+05	-8.950	49.50	1.000
1.000		121.0	0.000	0.000			SAL_158_160_L_0				
181 D	6.089	0.000	121.0	71.79	121.0	71.79	V-C	2.9432E+05	-9.000	50.00	1.000
1.000		121.8	0.000	0.000			SAL_158_160_L_0				
182 D	6.128	0.000	121.5	72.06	121.5	72.06	V-C	2.9432E+05	-9.050	50.50	1.000
1.000		122.6	0.000	0.000			SAL_158_160_L_0				
183 D	6.166	0.000	121.9	72.32	121.9	72.32	V-C	2.9432E+05	-9.100	51.00	1.000
1.000		123.3	0.000	0.000			SAL_158_160_L_0				
184 D	6.205	0.000	122.4	72.59	122.4	72.59	V-C	2.9432E+05	-9.150	51.50	1.000
1.000		124.1	0.000	0.000			SAL_158_160_L_0				
185 D	6.243	0.000	122.8	72.86	122.8	72.86	V-C	2.9432E+05	-9.200	52.00	1.000
1.000		124.9	0.000	0.000			SAL_158_160_L_0				
186 D	6.281	0.000	123.3	73.12	123.3	73.12	V-C	2.9432E+05	-9.250	52.50	1.000
1.000		125.6	0.000	0.000			SAL_158_160_L_0				
187 D	6.320	0.000	123.7	73.39	123.7	73.39	V-C	2.9432E+05	-9.300	53.00	1.000
1.000		126.4	0.000	0.000			SAL_158_160_L_0				
188 D	6.358	0.000	124.2	73.66	124.2	73.66	V-C	2.9432E+05	-9.350	53.50	1.000
1.000		127.2	0.000	0.000			SAL_158_160_L_0				
189 D	6.396	0.000	124.6	73.93	124.6	73.93	V-C	2.9432E+05	-9.400	54.00	1.000
1.000		127.9	0.000	0.000			SAL_158_160_L_0				



LINEA PESCARA - BARI
 RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:
 Lotto 1: Ripalta - Lesina
 PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
 LI00 01 D 09CL VI0100 004 A 168 di 401

RELAZIONE DI CALCOLO

190 D	6.435	0.000	125.1	74.19	125.1	74.19	V-C	2.9432E+05	-9.450	54.50	1.000
1.000	128.7	0.000	0.000	SAL_158_160_L_0							
191 D	6.473	0.000	125.5	74.46	125.5	74.46	V-C	2.9432E+05	-9.500	55.00	1.000
1.000	129.5	0.000	0.000	SAL_158_160_L_0							
192 D	6.511	0.000	126.0	74.73	126.0	74.73	V-C	2.9432E+05	-9.550	55.50	1.000
1.000	130.2	0.000	0.000	SAL_158_160_L_0							
193 D	6.550	0.000	126.4	74.99	126.4	74.99	V-C	2.9432E+05	-9.600	56.00	1.000
1.000	131.0	0.000	0.000	SAL_158_160_L_0							
194 D	6.588	0.000	126.9	75.26	126.9	75.26	V-C	2.9432E+05	-9.650	56.50	1.000
1.000	131.8	0.000	0.000	SAL_158_160_L_0							
195 D	6.626	0.000	127.3	75.53	127.3	75.53	V-C	2.9432E+05	-9.700	57.00	1.000
1.000	132.5	0.000	0.000	SAL_158_160_L_0							
196 D	6.665	0.000	127.8	75.79	127.8	75.79	V-C	2.9432E+05	-9.750	57.50	1.000
1.000	133.3	0.000	0.000	SAL_158_160_L_0							
197 D	6.703	0.000	128.2	76.06	128.2	76.06	V-C	2.9432E+05	-9.800	58.00	1.000
1.000	134.1	0.000	0.000	SAL_158_160_L_0							
198 D	6.741	0.000	128.7	76.33	128.7	76.33	V-C	2.9432E+05	-9.850	58.50	1.000
1.000	134.8	0.000	0.000	SAL_158_160_L_0							
199 D	6.780	0.000	129.1	76.60	129.1	76.60	V-C	2.9432E+05	-9.900	59.00	1.000
1.000	135.6	0.000	0.000	SAL_158_160_L_0							
200 D	6.817	0.000	129.6	76.86	129.6	76.86	V-C	2.9432E+05	-9.950	59.50	1.000
1.000	136.4	0.000	0.000	SAL_158_160_L_0							
201 D	3.427	0.000	130.0	77.13	130.0	77.13	V-C	2.9432E+05	-10.00	60.00	1.000
1.000	137.1	0.000	0.000	SAL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A1M1R1_926
 Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

Q_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
 CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS Z-LEVEL	PORE	E FACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.3890E+05	0.000	1.000
1.000	0.000	0.000	0.000	SAL_158_160_L_0						
2 D	2.8182E-02	0.000	0.9500	0.5636	0.9500	0.5636	V-C	2.3890E+05	-5.0000E-02	1.000
1.000	0.5636	0.000	0.000	SAL_158_160_L_0						
3 D	5.6364E-02	0.000	1.900	1.127	1.900	1.127	V-C	2.3890E+05	-0.1000	1.000
1.000	1.127	0.000	0.000	SAL_158_160_L_0						
4 D	8.4545E-02	0.000	2.850	1.691	2.850	1.691	V-C	2.3890E+05	-0.1500	1.000
1.000	1.691	0.000	0.000	SAL_158_160_L_0						
5 D	0.1127	0.000	3.800	2.255	3.800	2.255	V-C	2.3890E+05	-0.2000	1.000
1.000	2.255	0.000	0.000	SAL_158_160_L_0						
6 D	0.1409	0.000	4.750	2.818	4.750	2.818	V-C	2.3890E+05	-0.2500	1.000
1.000	2.818	0.000	0.000	SAL_158_160_L_0						
7 D	0.1691	0.000	5.700	3.382	5.700	3.382	V-C	2.3890E+05	-0.3000	1.000
1.000	3.382	0.000	0.000	SAL_158_160_L_0						
8 D	0.1973	0.000	6.650	3.945	6.650	3.945	V-C	2.3890E+05	-0.3500	1.000
1.000	3.945	0.000	0.000	SAL_158_160_L_0						
9 D	0.2255	0.000	7.600	4.509	7.600	4.509	V-C	2.3890E+05	-0.4000	1.000
1.000	4.509	0.000	0.000	SAL_158_160_L_0						
10 D	0.2536	0.000	8.550	5.073	8.550	5.073	V-C	2.3890E+05	-0.4500	1.000
1.000	5.073	0.000	0.000	SAL_158_160_L_0						
11 D	0.2818	0.000	9.500	5.636	9.500	5.636	V-C	2.3890E+05	-0.5000	1.000
1.000	5.636	0.000	0.000	SAL_158_160_L_0						
12 D	0.3100	0.000	10.45	6.200	10.45	6.200	V-C	2.3890E+05	-0.5500	1.000
1.000	6.200	0.000	0.000	SAL_158_160_L_0						
13 D	0.3382	0.000	11.40	6.764	11.40	6.764	V-C	2.3890E+05	-0.6000	1.000
1.000	6.764	0.000	0.000	SAL_158_160_L_0						
14 D	0.3664	0.000	12.35	7.327	12.35	7.327	V-C	2.3890E+05	-0.6500	1.000
1.000	7.327	0.000	0.000	SAL_158_160_L_0						
15 D	0.3945	0.000	13.30	7.891	13.30	7.891	V-C	2.3890E+05	-0.7000	1.000
1.000	7.891	0.000	0.000	SAL_158_160_L_0						
16 D	0.4227	0.000	14.25	8.455	14.25	8.455	V-C	2.3890E+05	-0.7500	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	169 di 401

1.000	8.455	0.000	0.000	5AL_158_160_L_0							
17 D	0.4509	0.000	15.20	9.018	15.20	9.018	V-C	2.3890E+05	-0.8000	0.000	1.000
1.000	9.018	0.000	0.000	5AL_158_160_L_0							
18 D	0.4791	0.000	16.15	9.582	16.15	9.582	V-C	2.3890E+05	-0.8500	0.000	1.000
1.000	9.582	0.000	0.000	5AL_158_160_L_0							
19 D	0.5073	0.000	17.10	10.15	17.10	10.15	V-C	2.3890E+05	-0.9000	0.000	1.000
1.000	10.15	0.000	0.000	5AL_158_160_L_0							
20 D	0.5355	0.000	18.05	10.71	18.05	10.71	V-C	2.3890E+05	-0.9500	0.000	1.000
1.000	10.71	0.000	0.000	5AL_158_160_L_0							
21 D	0.5636	0.000	19.00	11.27	19.00	11.27	V-C	2.3890E+05	-1.000	0.000	1.000
1.000	11.27	0.000	0.000	5AL_158_160_L_0							
22 D	0.5918	0.000	19.95	11.84	19.95	11.84	V-C	2.3890E+05	-1.050	0.000	1.000
1.000	11.84	0.000	0.000	5AL_158_160_L_0							
23 D	0.6200	0.000	20.90	12.40	20.90	12.40	V-C	2.3890E+05	-1.100	0.000	1.000
1.000	12.40	0.000	0.000	5AL_158_160_L_0							
24 D	0.6482	0.000	21.85	12.96	21.85	12.96	V-C	2.3890E+05	-1.150	0.000	1.000
1.000	12.96	0.000	0.000	5AL_158_160_L_0							
25 D	0.6764	0.000	22.80	13.53	22.80	13.53	V-C	2.3890E+05	-1.200	0.000	1.000
1.000	13.53	0.000	0.000	5AL_158_160_L_0							
26 D	0.7045	0.000	23.75	14.09	23.75	14.09	V-C	2.3890E+05	-1.250	0.000	1.000
1.000	14.09	0.000	0.000	5AL_158_160_L_0							
27 D	0.7327	0.000	24.70	14.65	24.70	14.65	V-C	2.3890E+05	-1.300	0.000	1.000
1.000	14.65	0.000	0.000	5AL_158_160_L_0							
28 D	0.7609	0.000	25.65	15.22	25.65	15.22	V-C	2.3890E+05	-1.350	0.000	1.000
1.000	15.22	0.000	0.000	5AL_158_160_L_0							
29 D	0.7891	0.000	26.60	15.78	26.60	15.78	V-C	2.3890E+05	-1.400	0.000	1.000
1.000	15.78	0.000	0.000	5AL_158_160_L_0							
30 D	0.8173	0.000	27.55	16.35	27.55	16.35	V-C	2.3890E+05	-1.450	0.000	1.000
1.000	16.35	0.000	0.000	5AL_158_160_L_0							
31 D	0.8455	0.000	28.50	16.91	28.50	16.91	V-C	2.3890E+05	-1.500	0.000	1.000
1.000	16.91	0.000	0.000	5AL_158_160_L_0							
32 D	0.8736	0.000	29.45	17.47	29.45	17.47	V-C	2.3890E+05	-1.550	0.000	1.000
1.000	17.47	0.000	0.000	5AL_158_160_L_0							
33 D	0.9018	0.000	30.40	18.04	30.40	18.04	V-C	2.3890E+05	-1.600	0.000	1.000
1.000	18.04	0.000	0.000	5AL_158_160_L_0							
34 D	0.9300	0.000	31.35	18.60	31.35	18.60	V-C	2.3890E+05	-1.650	0.000	1.000
1.000	18.60	0.000	0.000	5AL_158_160_L_0							
35 D	0.9582	0.000	32.30	19.16	32.30	19.16	V-C	2.3890E+05	-1.700	0.000	1.000
1.000	19.16	0.000	0.000	5AL_158_160_L_0							
36 D	0.9864	0.000	33.25	19.73	33.25	19.73	V-C	2.3890E+05	-1.750	0.000	1.000
1.000	19.73	0.000	0.000	5AL_158_160_L_0							
37 D	1.015	0.000	34.20	20.29	34.20	20.29	V-C	2.3890E+05	-1.800	0.000	1.000
1.000	20.29	0.000	0.000	5AL_158_160_L_0							
38 D	1.043	0.000	35.15	20.85	35.15	20.85	V-C	2.3890E+05	-1.850	0.000	1.000
1.000	20.85	0.000	0.000	5AL_158_160_L_0							
39 D	1.071	0.000	36.10	21.42	36.10	21.42	V-C	2.3890E+05	-1.900	0.000	1.000
1.000	21.42	0.000	0.000	5AL_158_160_L_0							
40 D	1.099	0.000	37.05	21.98	37.05	21.98	V-C	2.3890E+05	-1.950	0.000	1.000
1.000	21.98	0.000	0.000	5AL_158_160_L_0							
41 D	1.127	0.000	38.00	22.55	38.00	22.55	V-C	2.3890E+05	-2.000	0.000	1.000
1.000	22.55	0.000	0.000	5AL_158_160_L_0							
42 D	1.155	0.000	38.95	23.11	38.95	23.11	V-C	2.3890E+05	-2.050	0.000	1.000
1.000	23.11	0.000	0.000	5AL_158_160_L_0							
43 D	1.184	0.000	39.90	23.67	39.90	23.67	V-C	2.3890E+05	-2.100	0.000	1.000
1.000	23.67	0.000	0.000	5AL_158_160_L_0							
44 D	1.212	0.000	40.85	24.24	40.85	24.24	V-C	2.3890E+05	-2.150	0.000	1.000
1.000	24.24	0.000	0.000	5AL_158_160_L_0							
45 D	1.240	0.000	41.80	24.80	41.80	24.80	V-C	2.3890E+05	-2.200	0.000	1.000
1.000	24.80	0.000	0.000	5AL_158_160_L_0							
46 D	1.268	0.000	42.75	25.36	42.75	25.36	V-C	2.3890E+05	-2.250	0.000	1.000
1.000	25.36	0.000	0.000	5AL_158_160_L_0							
47 D	1.296	0.000	43.70	25.93	43.70	25.93	V-C	2.3890E+05	-2.300	0.000	1.000
1.000	25.93	0.000	0.000	5AL_158_160_L_0							
48 D	1.325	0.000	44.65	26.49	44.65	26.49	V-C	2.3890E+05	-2.350	0.000	1.000
1.000	26.49	0.000	0.000	5AL_158_160_L_0							
49 D	1.353	0.000	45.60	27.05	45.60	27.05	V-C	2.3890E+05	-2.400	0.000	1.000
1.000	27.05	0.000	0.000	5AL_158_160_L_0							
50 D	1.381	0.000	46.55	27.62	46.55	27.62	V-C	2.3890E+05	-2.450	0.000	1.000
1.000	27.62	0.000	0.000	5AL_158_160_L_0							
51 D	1.409	0.000	47.50	28.18	47.50	28.18	V-C	2.3890E+05	-2.500	0.000	1.000
1.000	28.18	0.000	0.000	5AL_158_160_L_0							
52 D	1.437	0.000	48.45	28.75	48.45	28.75	V-C	2.3890E+05	-2.550	0.000	1.000
1.000	28.75	0.000	0.000	5AL_158_160_L_0							
53 D	1.465	0.000	49.40	29.31	49.40	29.31	V-C	2.3890E+05	-2.600	0.000	1.000
1.000	29.31	0.000	0.000	5AL_158_160_L_0							
54 D	1.494	0.000	50.35	29.87	50.35	29.87	V-C	2.3890E+05	-2.650	0.000	1.000
1.000	29.87	0.000	0.000	5AL_158_160_L_0							
55 D	1.522	0.000	51.30	30.44	51.30	30.44	V-C	2.3890E+05	-2.700	0.000	1.000
1.000	30.44	0.000	0.000	5AL_158_160_L_0							
56 D	1.550	0.000	52.25	31.00	52.25	31.00	V-C	2.3890E+05	-2.750	0.000	1.000
1.000	31.00	0.000	0.000	5AL_158_160_L_0							

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57 D	1.578	0.000	53.20	31.56	53.20	31.56	V-C	2.3890E+05	-2.800	0.000	1.000
1.000	31.56	0.000	0.000	5AL_158_160_L_0							
58 D	1.606	0.000	54.15	32.13	54.15	32.13	V-C	2.3890E+05	-2.850	0.000	1.000
1.000	32.13	0.000	0.000	5AL_158_160_L_0							
59 D	1.635	0.000	55.10	32.69	55.10	32.69	V-C	2.3890E+05	-2.900	0.000	1.000
1.000	32.69	0.000	0.000	5AL_158_160_L_0							
60 D	1.663	0.000	56.05	33.25	56.05	33.25	V-C	2.3890E+05	-2.950	0.000	1.000
1.000	33.25	0.000	0.000	5AL_158_160_L_0							
61 D	1.691	0.000	57.00	33.82	57.00	33.82	V-C	2.3890E+05	-3.000	0.000	1.000
1.000	33.82	0.000	0.000	5AL_158_160_L_0							
62 D	1.719	0.000	57.95	34.38	57.95	34.38	V-C	2.3890E+05	-3.050	0.000	1.000
1.000	34.38	0.000	0.000	5AL_158_160_L_0							
63 D	1.747	0.000	58.90	34.95	58.90	34.95	V-C	2.3890E+05	-3.100	0.000	1.000
1.000	34.95	0.000	0.000	5AL_158_160_L_0							
64 D	1.775	0.000	59.85	35.51	59.85	35.51	V-C	2.3890E+05	-3.150	0.000	1.000
1.000	35.51	0.000	0.000	5AL_158_160_L_0							
65 D	1.804	0.000	60.80	36.07	60.80	36.07	V-C	2.3890E+05	-3.200	0.000	1.000
1.000	36.07	0.000	0.000	5AL_158_160_L_0							
66 D	1.832	0.000	61.75	36.64	61.75	36.64	V-C	2.3890E+05	-3.250	0.000	1.000
1.000	36.64	0.000	0.000	5AL_158_160_L_0							
67 D	1.860	0.000	62.70	37.20	62.70	37.20	V-C	2.3890E+05	-3.300	0.000	1.000
1.000	37.20	0.000	0.000	5AL_158_160_L_0							
68 D	1.888	0.000	63.65	37.76	63.65	37.76	V-C	2.3890E+05	-3.350	0.000	1.000
1.000	37.76	0.000	0.000	5AL_158_160_L_0							
69 D	1.916	0.000	64.60	38.33	64.60	38.33	V-C	2.3890E+05	-3.400	0.000	1.000
1.000	38.33	0.000	0.000	5AL_158_160_L_0							
70 D	1.945	0.000	65.55	38.89	65.55	38.89	V-C	2.3890E+05	-3.450	0.000	1.000
1.000	38.89	0.000	0.000	5AL_158_160_L_0							
71 D	1.973	0.000	66.50	39.45	66.50	39.45	V-C	2.3890E+05	-3.500	0.000	1.000
1.000	39.45	0.000	0.000	5AL_158_160_L_0							
72 D	2.001	0.000	67.45	40.02	67.45	40.02	V-C	2.3890E+05	-3.550	0.000	1.000
1.000	40.02	0.000	0.000	5AL_158_160_L_0							
73 D	2.029	0.000	68.40	40.58	68.40	40.58	V-C	2.3890E+05	-3.600	0.000	1.000
1.000	40.58	0.000	0.000	5AL_158_160_L_0							
74 D	2.057	0.000	69.35	41.15	69.35	41.15	V-C	2.3890E+05	-3.650	0.000	1.000
1.000	41.15	0.000	0.000	5AL_158_160_L_0							
75 D	2.085	0.000	70.30	41.71	70.30	41.71	V-C	2.3890E+05	-3.700	0.000	1.000
1.000	41.71	0.000	0.000	5AL_158_160_L_0							
76 D	2.114	0.000	71.25	42.27	71.25	42.27	V-C	2.3890E+05	-3.750	0.000	1.000
1.000	42.27	0.000	0.000	5AL_158_160_L_0							
77 D	2.142	0.000	72.20	42.84	72.20	42.84	V-C	2.3890E+05	-3.800	0.000	1.000
1.000	42.84	0.000	0.000	5AL_158_160_L_0							
78 D	2.170	0.000	73.15	43.40	73.15	43.40	V-C	2.3890E+05	-3.850	0.000	1.000
1.000	43.40	0.000	0.000	5AL_158_160_L_0							
79 D	2.198	0.000	74.10	43.96	74.10	43.96	V-C	2.3890E+05	-3.900	0.000	1.000
1.000	43.96	0.000	0.000	5AL_158_160_L_0							
80 D	2.226	0.000	75.05	44.53	75.05	44.53	V-C	2.3890E+05	-3.950	0.000	1.000
1.000	44.53	0.000	0.000	5AL_158_160_L_0							
81 D	2.255	0.000	76.00	45.09	76.00	45.09	V-C	2.3890E+05	-4.000	0.000	1.000
1.000	45.09	0.000	0.000	5AL_158_160_L_0							
82 D	2.293	0.000	76.45	45.36	76.45	45.36	V-C	2.3890E+05	-4.050	0.5000	1.000
1.000	45.36	0.000	0.000	5AL_158_160_L_0							
83 D	2.331	0.000	76.90	45.62	76.90	45.62	V-C	2.3890E+05	-4.100	1.000	1.000
1.000	46.62	0.000	0.000	5AL_158_160_L_0							
84 D	2.370	0.000	77.35	45.89	77.35	45.89	V-C	2.3890E+05	-4.150	1.500	1.000
1.000	47.39	0.000	0.000	5AL_158_160_L_0							
85 D	2.408	0.000	77.80	46.16	77.80	46.16	V-C	2.3890E+05	-4.200	2.000	1.000
1.000	48.16	0.000	0.000	5AL_158_160_L_0							
86 D	2.446	0.000	78.25	46.43	78.25	46.43	V-C	2.3890E+05	-4.250	2.500	1.000
1.000	48.93	0.000	0.000	5AL_158_160_L_0							
87 D	2.485	0.000	78.70	46.69	78.70	46.69	V-C	2.3890E+05	-4.300	3.000	1.000
1.000	49.69	0.000	0.000	5AL_158_160_L_0							
88 D	2.523	0.000	79.15	46.96	79.15	46.96	V-C	2.3890E+05	-4.350	3.500	1.000
1.000	50.46	0.000	0.000	5AL_158_160_L_0							
89 D	2.561	0.000	79.60	47.23	79.60	47.23	V-C	2.3890E+05	-4.400	4.000	1.000
1.000	51.23	0.000	0.000	5AL_158_160_L_0							
90 D	2.600	0.000	80.05	47.49	80.05	47.49	V-C	2.3890E+05	-4.450	4.500	1.000
1.000	51.99	0.000	0.000	5AL_158_160_L_0							
91 D	2.638	0.000	80.50	47.76	80.50	47.76	V-C	2.3890E+05	-4.500	5.000	1.000
1.000	52.76	0.000	0.000	5AL_158_160_L_0							
92 D	2.676	0.000	80.95	48.03	80.95	48.03	V-C	2.3890E+05	-4.550	5.500	1.000
1.000	53.53	0.000	0.000	5AL_158_160_L_0							
93 D	2.715	0.000	81.40	48.29	81.40	48.29	V-C	2.3890E+05	-4.600	6.000	1.000
1.000	54.29	0.000	0.000	5AL_158_160_L_0							
94 D	2.753	0.000	81.85	48.56	81.85	48.56	V-C	2.3890E+05	-4.650	6.500	1.000
1.000	55.06	0.000	0.000	5AL_158_160_L_0							
95 D	2.791	0.000	82.30	48.83	82.30	48.83	V-C	2.3890E+05	-4.700	7.000	1.000
1.000	55.83	0.000	0.000	5AL_158_160_L_0							
96 D	2.830	0.000	82.75	49.10	82.75	49.10	V-C	2.3890E+05	-4.750	7.500	1.000
1.000	56.60	0.000	0.000	5AL_158_160_L_0							
97 D	2.868	0.000	83.20	49.36	83.20	49.36	V-C	2.3890E+05	-4.800	8.000	1.000

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1.000	57.36	0.000	0.000	5AL_158_160_L_0							
98 D	2.906	0.000	83.65	49.63	83.65	49.63	V-C	2.3890E+05	-4.850	8.500	1.000
1.000	58.13	0.000	0.000	5AL_158_160_L_0							
99 D	2.945	0.000	84.10	49.90	84.10	49.90	V-C	2.3890E+05	-4.900	9.000	1.000
1.000	58.90	0.000	0.000	5AL_158_160_L_0							
100 D	2.983	0.000	84.55	50.16	84.55	50.16	V-C	2.3890E+05	-4.950	9.500	1.000
1.000	59.66	0.000	0.000	5AL_158_160_L_0							
101 D	3.022	0.000	85.00	50.43	85.00	50.43	V-C	2.3890E+05	-5.000	10.000	1.000
1.000	60.43	0.000	0.000	5AL_158_160_L_0							
102 D	3.060	0.000	85.45	50.70	85.45	50.70	V-C	2.3890E+05	-5.050	10.500	1.000
1.000	61.20	0.000	0.000	5AL_158_160_L_0							
103 D	3.098	0.000	85.90	50.96	85.90	50.96	V-C	2.3890E+05	-5.100	11.000	1.000
1.000	61.96	0.000	0.000	5AL_158_160_L_0							
104 D	3.137	0.000	86.35	51.23	86.35	51.23	V-C	2.3890E+05	-5.150	11.500	1.000
1.000	62.73	0.000	0.000	5AL_158_160_L_0							
105 D	3.175	0.000	86.80	51.50	86.80	51.50	V-C	2.3890E+05	-5.200	12.000	1.000
1.000	63.50	0.000	0.000	5AL_158_160_L_0							
106 D	3.213	0.000	87.25	51.77	87.25	51.77	V-C	2.3890E+05	-5.250	12.500	1.000
1.000	64.27	0.000	0.000	5AL_158_160_L_0							
107 D	3.252	0.000	87.70	52.03	87.70	52.03	V-C	2.3890E+05	-5.300	13.000	1.000
1.000	65.03	0.000	0.000	5AL_158_160_L_0							
108 D	3.290	0.000	88.15	52.30	88.15	52.30	V-C	2.3890E+05	-5.350	13.500	1.000
1.000	65.80	0.000	0.000	5AL_158_160_L_0							
109 D	3.328	0.000	88.60	52.57	88.60	52.57	V-C	2.3890E+05	-5.400	14.000	1.000
1.000	66.57	0.000	0.000	5AL_158_160_L_0							
110 D	3.367	0.000	89.05	52.83	89.05	52.83	V-C	2.3890E+05	-5.450	14.500	1.000
1.000	67.33	0.000	0.000	5AL_158_160_L_0							
111 D	3.405	0.000	89.50	53.10	89.50	53.10	V-C	2.3890E+05	-5.500	15.000	1.000
1.000	68.10	0.000	0.000	5AL_158_160_L_0							
112 D	3.443	0.000	89.95	53.37	89.95	53.37	V-C	2.3890E+05	-5.550	15.500	1.000
1.000	68.87	0.000	0.000	5AL_158_160_L_0							
113 D	3.482	0.000	90.40	53.63	90.40	53.63	V-C	2.3890E+05	-5.600	16.000	1.000
1.000	69.63	0.000	0.000	5AL_158_160_L_0							
114 D	3.520	0.000	90.85	53.90	90.85	53.90	V-C	2.3890E+05	-5.650	16.500	1.000
1.000	70.40	0.000	0.000	5AL_158_160_L_0							
115 D	3.558	0.000	91.30	54.17	91.30	54.17	V-C	2.3890E+05	-5.700	17.000	1.000
1.000	71.17	0.000	0.000	5AL_158_160_L_0							
116 D	3.597	0.000	91.75	54.44	91.75	54.44	V-C	2.3890E+05	-5.750	17.500	1.000
1.000	71.94	0.000	0.000	5AL_158_160_L_0							
117 D	3.635	0.000	92.20	54.70	92.20	54.70	V-C	2.3890E+05	-5.800	18.000	1.000
1.000	72.70	0.000	0.000	5AL_158_160_L_0							
118 D	3.673	0.000	92.65	54.97	92.65	54.97	V-C	2.3890E+05	-5.850	18.500	1.000
1.000	73.47	0.000	0.000	5AL_158_160_L_0							
119 D	3.712	0.000	93.10	55.24	93.10	55.24	V-C	2.3890E+05	-5.900	19.000	1.000
1.000	74.24	0.000	0.000	5AL_158_160_L_0							
120 D	3.750	0.000	93.55	55.50	93.55	55.50	V-C	2.3890E+05	-5.950	19.500	1.000
1.000	75.00	0.000	0.000	5AL_158_160_L_0							
121 D	3.789	0.000	94.00	55.77	94.00	55.77	V-C	2.3890E+05	-6.000	20.000	1.000
1.000	75.77	0.000	0.000	5AL_158_160_L_0							
122 D	3.827	0.000	94.45	56.04	94.45	56.04	V-C	2.3890E+05	-6.050	20.500	1.000
1.000	76.54	0.000	0.000	5AL_158_160_L_0							
123 D	3.865	0.000	94.90	56.30	94.90	56.30	V-C	2.3890E+05	-6.100	21.000	1.000
1.000	77.30	0.000	0.000	5AL_158_160_L_0							
124 D	3.904	0.000	95.35	56.57	95.35	56.57	V-C	2.3890E+05	-6.150	21.500	1.000
1.000	78.07	0.000	0.000	5AL_158_160_L_0							
125 D	3.942	0.000	95.80	56.84	95.80	56.84	V-C	2.3890E+05	-6.200	22.000	1.000
1.000	78.84	0.000	0.000	5AL_158_160_L_0							
126 D	3.980	0.000	96.25	57.11	96.25	57.11	V-C	2.3890E+05	-6.250	22.500	1.000
1.000	79.61	0.000	0.000	5AL_158_160_L_0							
127 D	4.019	0.000	96.70	57.37	96.70	57.37	V-C	2.3890E+05	-6.300	23.000	1.000
1.000	80.37	0.000	0.000	5AL_158_160_L_0							
128 D	4.057	0.000	97.15	57.64	97.15	57.64	V-C	2.3890E+05	-6.350	23.500	1.000
1.000	81.14	0.000	0.000	5AL_158_160_L_0							
129 D	4.095	0.000	97.60	57.91	97.60	57.91	V-C	2.3890E+05	-6.400	24.000	1.000
1.000	81.91	0.000	0.000	5AL_158_160_L_0							
130 D	4.134	0.000	98.05	58.17	98.05	58.17	V-C	2.3890E+05	-6.450	24.500	1.000
1.000	82.67	0.000	0.000	5AL_158_160_L_0							
131 D	4.172	0.000	98.50	58.44	98.50	58.44	V-C	2.3890E+05	-6.500	25.000	1.000
1.000	83.44	0.000	0.000	5AL_158_160_L_0							
132 D	4.210	0.000	98.95	58.71	98.95	58.71	V-C	2.3890E+05	-6.550	25.500	1.000
1.000	84.21	0.000	0.000	5AL_158_160_L_0							
133 D	4.249	0.000	99.40	58.97	99.40	58.97	V-C	2.3890E+05	-6.600	26.000	1.000
1.000	84.97	0.000	0.000	5AL_158_160_L_0							
134 D	4.287	0.000	99.85	59.24	99.85	59.24	V-C	2.3890E+05	-6.650	26.500	1.000
1.000	85.74	0.000	0.000	5AL_158_160_L_0							
135 D	4.325	0.000	100.3	59.51	100.3	59.51	V-C	2.3890E+05	-6.700	27.000	1.000
1.000	86.51	0.000	0.000	5AL_158_160_L_0							
136 D	4.364	0.000	100.8	59.78	100.8	59.78	V-C	2.3890E+05	-6.750	27.500	1.000
1.000	87.28	0.000	0.000	5AL_158_160_L_0							
137 D	4.402	0.000	101.2	60.04	101.2	60.04	V-C	2.3890E+05	-6.800	28.000	1.000
1.000	88.04	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	172 di 401

138 D	4.440	0.000	101.7	60.31	101.7	60.31	V-C	2.3890E+05	-6.850	28.50	1.000
1.000	88.81	0.000	0.000	SAL_158_160_L_0							
139 D	4.479	0.000	102.1	60.58	102.1	60.58	V-C	2.3890E+05	-6.900	29.00	1.000
1.000	89.58	0.000	0.000	SAL_158_160_L_0							
140 D	4.517	0.000	102.6	60.84	102.6	60.84	V-C	2.3890E+05	-6.950	29.50	1.000
1.000	90.34	0.000	0.000	SAL_158_160_L_0							
141 D	4.556	0.000	103.0	61.11	103.0	61.11	V-C	2.3890E+05	-7.000	30.00	1.000
1.000	91.11	0.000	0.000	SAL_158_160_L_0							
142 D	4.594	0.000	103.5	61.38	103.5	61.38	V-C	2.3890E+05	-7.050	30.50	1.000
1.000	91.88	0.000	0.000	SAL_158_160_L_0							
143 D	4.632	0.000	103.9	61.64	103.9	61.64	V-C	2.3890E+05	-7.100	31.00	1.000
1.000	92.64	0.000	0.000	SAL_158_160_L_0							
144 D	4.671	0.000	104.4	61.91	104.4	61.91	V-C	2.3890E+05	-7.150	31.50	1.000
1.000	93.41	0.000	0.000	SAL_158_160_L_0							
145 D	4.709	0.000	104.8	62.18	104.8	62.18	V-C	2.3890E+05	-7.200	32.00	1.000
1.000	94.18	0.000	0.000	SAL_158_160_L_0							
146 D	4.747	0.000	105.3	62.44	105.3	62.44	V-C	2.3890E+05	-7.250	32.50	1.000
1.000	94.94	0.000	0.000	SAL_158_160_L_0							
147 D	4.786	0.000	105.7	62.71	105.7	62.71	V-C	2.3890E+05	-7.300	33.00	1.000
1.000	95.71	0.000	0.000	SAL_158_160_L_0							
148 D	4.824	0.000	106.2	62.98	106.2	62.98	V-C	2.3890E+05	-7.350	33.50	1.000
1.000	96.48	0.000	0.000	SAL_158_160_L_0							
149 D	4.862	0.000	106.6	63.25	106.6	63.25	V-C	2.3890E+05	-7.400	34.00	1.000
1.000	97.25	0.000	0.000	SAL_158_160_L_0							
150 D	4.901	0.000	107.1	63.51	107.1	63.51	V-C	2.3890E+05	-7.450	34.50	1.000
1.000	98.01	0.000	0.000	SAL_158_160_L_0							
151 D	4.939	0.000	107.5	63.78	107.5	63.78	V-C	2.3890E+05	-7.500	35.00	1.000
1.000	98.78	0.000	0.000	SAL_158_160_L_0							
152 D	4.977	0.000	108.0	64.05	108.0	64.05	V-C	2.3890E+05	-7.550	35.50	1.000
1.000	99.55	0.000	0.000	SAL_158_160_L_0							
153 D	5.016	0.000	108.4	64.31	108.4	64.31	V-C	2.3890E+05	-7.600	36.00	1.000
1.000	100.3	0.000	0.000	SAL_158_160_L_0							
154 D	5.054	0.000	108.9	64.58	108.9	64.58	V-C	2.3890E+05	-7.650	36.50	1.000
1.000	101.1	0.000	0.000	SAL_158_160_L_0							
155 D	5.092	0.000	109.3	64.85	109.3	64.85	V-C	2.3890E+05	-7.700	37.00	1.000
1.000	101.8	0.000	0.000	SAL_158_160_L_0							
156 D	5.131	0.000	109.8	65.11	109.8	65.11	V-C	2.3890E+05	-7.750	37.50	1.000
1.000	102.6	0.000	0.000	SAL_158_160_L_0							
157 D	5.169	0.000	110.2	65.38	110.2	65.38	V-C	2.3890E+05	-7.800	38.00	1.000
1.000	103.4	0.000	0.000	SAL_158_160_L_0							
158 D	5.207	0.000	110.7	65.65	110.7	65.65	V-C	2.3890E+05	-7.850	38.50	1.000
1.000	104.1	0.000	0.000	SAL_158_160_L_0							
159 D	5.246	0.000	111.1	65.92	111.1	65.92	V-C	2.3890E+05	-7.900	39.00	1.000
1.000	104.9	0.000	0.000	SAL_158_160_L_0							
160 D	5.284	0.000	111.6	66.18	111.6	66.18	V-C	2.3890E+05	-7.950	39.50	1.000
1.000	105.7	0.000	0.000	SAL_158_160_L_0							
161 D	5.322	0.000	112.0	66.45	112.0	66.45	V-C	2.3890E+05	-8.000	40.00	1.000
1.000	106.4	0.000	0.000	SAL_158_160_L_0							
162 D	5.361	0.000	112.5	66.72	112.5	66.72	V-C	2.3890E+05	-8.050	40.50	1.000
1.000	107.2	0.000	0.000	SAL_158_160_L_0							
163 D	5.399	0.000	112.9	66.98	112.9	66.98	V-C	2.3890E+05	-8.100	41.00	1.000
1.000	108.0	0.000	0.000	SAL_158_160_L_0							
164 D	5.438	0.000	113.4	67.25	113.4	67.25	V-C	2.3890E+05	-8.150	41.50	1.000
1.000	108.8	0.000	0.000	SAL_158_160_L_0							
165 D	5.476	0.000	113.8	67.52	113.8	67.52	V-C	2.3890E+05	-8.200	42.00	1.000
1.000	109.5	0.000	0.000	SAL_158_160_L_0							
166 D	5.514	0.000	114.3	67.78	114.3	67.78	V-C	2.3890E+05	-8.250	42.50	1.000
1.000	110.3	0.000	0.000	SAL_158_160_L_0							
167 D	5.553	0.000	114.7	68.05	114.7	68.05	V-C	2.3890E+05	-8.300	43.00	1.000
1.000	111.1	0.000	0.000	SAL_158_160_L_0							
168 D	5.591	0.000	115.2	68.32	115.2	68.32	V-C	2.3890E+05	-8.350	43.50	1.000
1.000	111.8	0.000	0.000	SAL_158_160_L_0							
169 D	5.629	0.000	115.6	68.59	115.6	68.59	V-C	2.3890E+05	-8.400	44.00	1.000
1.000	112.6	0.000	0.000	SAL_158_160_L_0							
170 D	5.668	0.000	116.1	68.85	116.1	68.85	V-C	2.3890E+05	-8.450	44.50	1.000
1.000	113.4	0.000	0.000	SAL_158_160_L_0							
171 D	5.706	0.000	116.5	69.12	116.5	69.12	V-C	2.3890E+05	-8.500	45.00	1.000
1.000	114.1	0.000	0.000	SAL_158_160_L_0							
172 D	5.744	0.000	117.0	69.39	117.0	69.39	V-C	2.3890E+05	-8.550	45.50	1.000
1.000	114.9	0.000	0.000	SAL_158_160_L_0							
173 D	5.783	0.000	117.4	69.65	117.4	69.65	V-C	2.3890E+05	-8.600	46.00	1.000
1.000	115.7	0.000	0.000	SAL_158_160_L_0							
174 D	5.821	0.000	117.9	69.92	117.9	69.92	V-C	2.3890E+05	-8.650	46.50	1.000
1.000	116.4	0.000	0.000	SAL_158_160_L_0							
175 D	5.859	0.000	118.3	70.19	118.3	70.19	V-C	2.3890E+05	-8.700	47.00	1.000
1.000	117.2	0.000	0.000	SAL_158_160_L_0							
176 D	5.898	0.000	118.8	70.45	118.8	70.45	V-C	2.3890E+05	-8.750	47.50	1.000
1.000	118.0	0.000	0.000	SAL_158_160_L_0							
177 D	5.936	0.000	119.2	70.72	119.2	70.72	V-C	2.3890E+05	-8.800	48.00	1.000
1.000	118.7	0.000	0.000	SAL_158_160_L_0							
178 D	5.974	0.000	119.7	70.99	119.7	70.99	V-C	2.3890E+05	-8.850	48.50	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	173 di 401

RELAZIONE DI CALCOLO

1.000	119.5	0.000	0.000	5AL_158_160_L_0							
179 D	6.013	0.000	120.1	71.26	120.1	71.26	V-C	2.3890E+05	-8.900	49.00	1.000
1.000	120.3	0.000	0.000	5AL_158_160_L_0							
180 D	6.051	0.000	120.6	71.52	120.6	71.52	V-C	2.3890E+05	-8.950	49.50	1.000
1.000	121.0	0.000	0.000	5AL_158_160_L_0							
181 D	6.089	0.000	121.0	71.79	121.0	71.79	V-C	2.3890E+05	-9.000	50.00	1.000
1.000	121.8	0.000	0.000	5AL_158_160_L_0							
182 D	6.128	0.000	121.5	72.06	121.5	72.06	V-C	2.3890E+05	-9.050	50.50	1.000
1.000	122.6	0.000	0.000	5AL_158_160_L_0							
183 D	6.166	0.000	121.9	72.32	121.9	72.32	V-C	2.3890E+05	-9.100	51.00	1.000
1.000	123.3	0.000	0.000	5AL_158_160_L_0							
184 D	6.205	0.000	122.4	72.59	122.4	72.59	V-C	2.3890E+05	-9.150	51.50	1.000
1.000	124.1	0.000	0.000	5AL_158_160_L_0							
185 D	6.243	0.000	122.8	72.86	122.8	72.86	V-C	2.3890E+05	-9.200	52.00	1.000
1.000	124.9	0.000	0.000	5AL_158_160_L_0							
186 D	6.281	0.000	123.3	73.12	123.3	73.12	V-C	2.3890E+05	-9.250	52.50	1.000
1.000	125.6	0.000	0.000	5AL_158_160_L_0							
187 D	6.320	0.000	123.7	73.39	123.7	73.39	V-C	2.3890E+05	-9.300	53.00	1.000
1.000	126.4	0.000	0.000	5AL_158_160_L_0							
188 D	6.358	0.000	124.2	73.66	124.2	73.66	V-C	2.3890E+05	-9.350	53.50	1.000
1.000	127.2	0.000	0.000	5AL_158_160_L_0							
189 D	6.396	0.000	124.6	73.93	124.6	73.93	V-C	2.3890E+05	-9.400	54.00	1.000
1.000	127.9	0.000	0.000	5AL_158_160_L_0							
190 D	6.435	0.000	125.1	74.19	125.1	74.19	V-C	2.3890E+05	-9.450	54.50	1.000
1.000	128.7	0.000	0.000	5AL_158_160_L_0							
191 D	6.473	0.000	125.5	74.46	125.5	74.46	V-C	2.3890E+05	-9.500	55.00	1.000
1.000	129.5	0.000	0.000	5AL_158_160_L_0							
192 D	6.511	0.000	126.0	74.73	126.0	74.73	V-C	2.3890E+05	-9.550	55.50	1.000
1.000	130.2	0.000	0.000	5AL_158_160_L_0							
193 D	6.550	0.000	126.4	74.99	126.4	74.99	V-C	2.3890E+05	-9.600	56.00	1.000
1.000	131.0	0.000	0.000	5AL_158_160_L_0							
194 D	6.588	0.000	126.9	75.26	126.9	75.26	V-C	2.3890E+05	-9.650	56.50	1.000
1.000	131.8	0.000	0.000	5AL_158_160_L_0							
195 D	6.626	0.000	127.3	75.53	127.3	75.53	V-C	2.3890E+05	-9.700	57.00	1.000
1.000	132.5	0.000	0.000	5AL_158_160_L_0							
196 D	6.665	0.000	127.8	75.79	127.8	75.79	V-C	2.3890E+05	-9.750	57.50	1.000
1.000	133.3	0.000	0.000	5AL_158_160_L_0							
197 D	6.703	0.000	128.2	76.06	128.2	76.06	V-C	2.3890E+05	-9.800	58.00	1.000
1.000	134.1	0.000	0.000	5AL_158_160_L_0							
198 D	6.741	0.000	128.7	76.33	128.7	76.33	V-C	2.3890E+05	-9.850	58.50	1.000
1.000	134.8	0.000	0.000	5AL_158_160_L_0							
199 D	6.780	0.000	129.1	76.60	129.1	76.60	V-C	2.3890E+05	-9.900	59.00	1.000
1.000	135.6	0.000	0.000	5AL_158_160_L_0							
200 D	6.817	0.000	129.6	76.86	129.6	76.86	V-C	2.3890E+05	-9.950	59.50	1.000
1.000	136.4	0.000	0.000	5AL_158_160_L_0							
201 D	3.427	0.000	130.0	77.13	130.0	77.13	V-C	2.3890E+05	-10.00	60.00	1.000
1.000	137.1	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS (TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.AL1R1_926
Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement_33
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
----	----	----	----	----

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER	0	RNORM = 0.000	RMNORM= 0.000				
		RINORM= 8370.	RIMNOR= 0.000				
		RENORM= 570.4	REMNR= 0.000	RATIO =0.2611	TOLER =0.1000E-03	NOT CONVERGED	
		RFXMAX = 8.507	RFXMAX = 0.000				
		RTSMAL=0.1000E-04	RMSMAL= 0.000				
		RDT = 8370.	RDR = 0.000				
		RATIOT=0.2611	RATIOR= 0.000				
		MAX UN= 1.691	IEQ= 371 NODE	186 DOF	1	Y-DISPL.F	
		MIN UN= 0.000	IEQ= 2 NODE	1 DOF	2	X-ROT. F	



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	174 di 401

RELAZIONE DI CALCOLO

NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      2 RNORM = 0.000      RMNORM= 0.000
          RINORM= 8370.      RIMNOR= 0.000
          RENORM=0.6102E-18  REMNOR=0.1458E-21  RATIO =0.8539E-11  TOLER =0.1000E-03      CONVERGED !
          RFMAX = 8.507      RMMAX = 0.000
          RTSMAL=0.1000E-04  RMSMAL= 0.000
          RDT   = 8370.      RDR   = 0.000
          RATIO=0.8539E-11  RATOR= 0.000
          MAX UN=0.9814E-10  IEQ=   169 NODE      85 DOF   1 Y-DISPL.F
          MIN UN=-.1660E-09  IEQ=   281 NODE     141 DOF   1 Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS      0
  
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PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A1M1R1_926
Exe Time :21 June 2016 11:57:45

paratia_mario
SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F (02)	X-ROT. F (04)
1	4.7644076E-05	1.2022912E-15
2	4.7644076E-05	1.2017316E-15
3	4.7644076E-05	1.2008242E-15
4	4.7644076E-05	1.1979229E-15
5	4.7644076E-05	1.1932089E-15
6	4.7644076E-05	1.1866834E-15
7	4.7644076E-05	1.1793663E-15
8	4.7644076E-05	1.1708143E-15
9	4.7644076E-05	1.1609455E-15
10	4.7644076E-05	1.1517979E-15
11	4.7644076E-05	1.1421977E-15
12	4.7644076E-05	1.1323382E-15
13	4.7644076E-05	1.1230361E-15
14	4.7644076E-05	1.1155178E-15
15	4.7644076E-05	1.1068383E-15
16	4.7644076E-05	1.0946834E-15
17	4.7644076E-05	1.0781103E-15
18	4.7644076E-05	1.0575952E-15
19	4.7644076E-05	1.0342916E-15
20	4.7644076E-05	1.0084063E-15
21	4.7644076E-05	9.7907522E-16
22	4.7644076E-05	9.4645598E-16
23	4.7644076E-05	9.1251198E-16
24	4.7644076E-05	8.7751427E-16
25	4.7644076E-05	8.3990940E-16
26	4.7644076E-05	8.0023946E-16
27	4.7644076E-05	7.5916175E-16
28	4.7644076E-05	7.1888364E-16
29	4.7644076E-05	6.8158200E-16
30	4.7644076E-05	6.4653008E-16
31	4.7644076E-05	6.1409042E-16
32	4.7644076E-05	5.8558437E-16
33	4.7644076E-05	5.6034956E-16
34	4.7644076E-05	5.3524859E-16
35	4.7644076E-05	5.0742695E-16
36	4.7644076E-05	4.7769101E-16
37	4.7644076E-05	4.4769249E-16
38	4.7644076E-05	4.1735854E-16
39	4.7644076E-05	3.8628768E-16
40	4.7644076E-05	3.5424273E-16
41	4.7644076E-05	3.2194198E-16
42	4.7644076E-05	2.8995632E-16
43	4.7644076E-05	2.5757933E-16
44	4.7644076E-05	2.2458740E-16
45	4.7644076E-05	1.9235949E-16
46	4.7644076E-05	1.6117512E-16
47	4.7644076E-05	1.2956047E-16
48	4.7644076E-05	9.8333749E-17
49	4.7644076E-05	6.8052321E-17



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	175 di 401

RELAZIONE DI CALCOLO

50	4.7644076E-05	4.0891363E-17
51	4.7644076E-05	1.6805134E-17
52	4.7644076E-05	-5.0652570E-18
53	4.7644076E-05	-2.4535156E-17
54	4.7644076E-05	-4.0467846E-17
55	4.7644076E-05	-5.3246185E-17
56	4.7644076E-05	-6.5228313E-17
57	4.7644076E-05	-7.8237045E-17
58	4.7644076E-05	-9.3536154E-17
59	4.7644076E-05	-1.1290102E-16
60	4.7644076E-05	-1.3580310E-16
61	4.7644076E-05	-1.6272858E-16
62	4.7644076E-05	-1.8996408E-16
63	4.7644076E-05	-2.1827870E-16
64	4.7644076E-05	-2.5072006E-16
65	4.7644076E-05	-2.8748806E-16
66	4.7644076E-05	-3.2767639E-16
67	4.7644076E-05	-3.6960452E-16
68	4.7644076E-05	-4.1330126E-16
69	4.7644076E-05	-4.5864632E-16
70	4.7644076E-05	-5.0311216E-16
71	4.7644076E-05	-5.4532998E-16
72	4.7644076E-05	-5.8272817E-16
73	4.7644076E-05	-6.1566420E-16
74	4.7644076E-05	-6.4681299E-16
75	4.7644076E-05	-6.7476000E-16
76	4.7644076E-05	-6.9779082E-16
77	4.7644076E-05	-7.1317802E-16
78	4.7644076E-05	-7.2269190E-16
79	4.7644076E-05	-7.2923438E-16
80	4.7644076E-05	-7.3226507E-16
81	4.7644076E-05	-7.2860249E-16
82	4.7644076E-05	-7.1545146E-16
83	4.7644076E-05	-6.9414350E-16
84	4.7644076E-05	-6.6602201E-16
85	4.7644076E-05	-6.3318593E-16
86	4.7644076E-05	-5.9950451E-16
87	4.7644076E-05	-5.6677007E-16
88	4.7644076E-05	-5.3395771E-16
89	4.7644076E-05	-5.0026613E-16
90	4.7644076E-05	-4.6257316E-16
91	4.7644076E-05	-4.2081613E-16
92	4.7644076E-05	-3.7756663E-16
93	4.7644076E-05	-3.3417483E-16
94	4.7644076E-05	-2.9192482E-16
95	4.7644076E-05	-2.4841952E-16
96	4.7644076E-05	-2.0362164E-16
97	4.7644076E-05	-1.5760064E-16
98	4.7644076E-05	-1.1323306E-16
99	4.7644076E-05	-7.1044041E-17
100	4.7644076E-05	-2.9580085E-17
101	4.7644076E-05	1.1821192E-17
102	4.7644076E-05	5.1475886E-17
103	4.7644076E-05	8.6182214E-17
104	4.7644076E-05	1.1468318E-16
105	4.7644076E-05	1.4175943E-16
106	4.7644076E-05	1.7009099E-16
107	4.7644076E-05	1.9925772E-16
108	4.7644076E-05	2.2675919E-16
109	4.7644076E-05	2.4918523E-16
110	4.7644076E-05	2.6579724E-16
111	4.7644076E-05	2.7553643E-16
112	4.7644076E-05	2.7887882E-16
113	4.7644076E-05	2.7528401E-16
114	4.7644076E-05	2.6416925E-16
115	4.7644076E-05	2.4544135E-16
116	4.7644076E-05	2.2180405E-16
117	4.7644076E-05	1.9447538E-16
118	4.7644076E-05	1.6316904E-16
119	4.7644076E-05	1.2709391E-16
120	4.7644076E-05	8.8667409E-17
121	4.7644076E-05	5.1159096E-17
122	4.7644076E-05	1.6474791E-17
123	4.7644076E-05	-1.8111258E-17
124	4.7644076E-05	-5.2051869E-17
125	4.7644076E-05	-8.1936885E-17
126	4.7644076E-05	-1.0353792E-16
127	4.7644076E-05	-1.1754446E-16
128	4.7644076E-05	-1.2659246E-16
129	4.7644076E-05	-1.3409548E-16
130	4.7644076E-05	-1.3997558E-16

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	176 di 401

RELAZIONE DI CALCOLO

131	4.7644076E-05	-1.4291648E-16
132	4.7644076E-05	-1.4049735E-16
133	4.7644076E-05	-1.3271820E-16
134	4.7644076E-05	-1.2257753E-16
135	4.7644076E-05	-1.1153899E-16
136	4.7644076E-05	-9.9180782E-17
137	4.7644076E-05	-8.5282665E-17
138	4.7644076E-05	-7.0579867E-17
139	4.7644076E-05	-5.6322609E-17
140	4.7644076E-05	-4.2492255E-17
141	4.7644076E-05	-2.7911430E-17
142	4.7644076E-05	-9.9424727E-18
143	4.7644076E-05	1.0870821E-17
144	4.7644076E-05	3.0830305E-17
145	4.7644076E-05	4.7820092E-17
146	4.7644076E-05	6.4410079E-17
147	4.7644076E-05	8.4306883E-17
148	4.7644076E-05	1.0691250E-16
149	4.7644076E-05	1.2998568E-16
150	4.7644076E-05	1.5204241E-16
151	4.7644076E-05	1.7059413E-16
152	4.7644076E-05	1.8765846E-16
153	4.7644076E-05	2.0502432E-16
154	4.7644076E-05	2.2208696E-16
155	4.7644076E-05	2.3745722E-16
156	4.7644076E-05	2.4809087E-16
157	4.7644076E-05	2.5482139E-16
158	4.7644076E-05	2.6053039E-16
159	4.7644076E-05	2.6775050E-16
160	4.7644076E-05	2.7584475E-16
161	4.7644076E-05	2.8134877E-16
162	4.7644076E-05	2.8413212E-16
163	4.7644076E-05	2.8555683E-16
164	4.7644076E-05	2.8614806E-16
165	4.7644076E-05	2.8350193E-16
166	4.7644076E-05	2.7638685E-16
167	4.7644076E-05	2.6515350E-16
168	4.7644076E-05	2.5132992E-16
169	4.7644076E-05	2.3641537E-16
170	4.7644076E-05	2.2192263E-16
171	4.7644076E-05	2.0822780E-16
172	4.7644076E-05	1.9655230E-16
173	4.7644076E-05	1.8703165E-16
174	4.7644076E-05	1.7702142E-16
175	4.7644076E-05	1.6613874E-16
176	4.7644076E-05	1.5678580E-16
177	4.7644076E-05	1.4925737E-16
178	4.7644076E-05	1.4292834E-16
179	4.7644076E-05	1.3869317E-16
180	4.7644076E-05	1.3437669E-16
181	4.7644076E-05	1.2738528E-16
182	4.7644076E-05	1.1664999E-16
183	4.7644076E-05	1.0192517E-16
184	4.7644076E-05	8.4871007E-17
185	4.7644076E-05	6.6214260E-17
186	4.7644076E-05	4.6730808E-17
187	4.7644076E-05	2.7013575E-17
188	4.7644076E-05	5.2329695E-18
189	4.7644076E-05	-1.8146834E-17
190	4.7644076E-05	-4.2673520E-17
191	4.7644076E-05	-6.6288798E-17
192	4.7644076E-05	-8.9456844E-17
193	4.7644076E-05	-1.1272653E-16
194	4.7644076E-05	-1.3522542E-16
195	4.7644076E-05	-1.5734484E-16
196	4.7644076E-05	-1.7770412E-16
197	4.7644076E-05	-1.9660482E-16
198	4.7644076E-05	-2.1183616E-16
199	4.7644076E-05	-2.2177017E-16
200	4.7644076E-05	-2.2668635E-16
201	4.7644076E-05	-2.2756580E-16



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISIONALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	177 di 401

RELAZIONE DI CALCOLO

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A1M1R1_926
Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 1

0 L ;
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
UFACTOR	Peq	Su_a	Su_p	LAYER							
1 D	0.2846	-4.7644E-05	57.00	11.38	57.00	33.82	UL-RL	4.7091E+05	0.000	0.000	1.000
1.000	11.38	0.000	0.000	5AL_158_160_L_0							
2 D	0.5973	-4.7644E-05	57.95	11.95	57.95	34.38	UL-RL	4.7091E+05	-5.0000E-02	0.000	1.000
1.000	11.95	0.000	0.000	5AL_158_160_L_0							
3 D	0.6255	-4.7644E-05	58.90	12.51	58.90	34.95	UL-RL	4.7091E+05	-0.1000	0.000	1.000
1.000	12.51	0.000	0.000	5AL_158_160_L_0							
4 D	0.6537	-4.7644E-05	59.85	13.07	59.85	35.51	UL-RL	4.7091E+05	-0.1500	0.000	1.000
1.000	13.07	0.000	0.000	5AL_158_160_L_0							
5 D	0.6818	-4.7644E-05	60.80	13.64	60.80	36.07	UL-RL	4.7091E+05	-0.2000	0.000	1.000
1.000	13.64	0.000	0.000	5AL_158_160_L_0							
6 D	0.7100	-4.7644E-05	61.75	14.20	61.75	36.64	UL-RL	4.7091E+05	-0.2500	0.000	1.000
1.000	14.20	0.000	0.000	5AL_158_160_L_0							
7 D	0.7382	-4.7644E-05	62.70	14.76	62.70	37.20	UL-RL	4.7091E+05	-0.3000	0.000	1.000
1.000	14.76	0.000	0.000	5AL_158_160_L_0							
8 D	0.7664	-4.7644E-05	63.65	15.33	63.65	37.76	UL-RL	4.7091E+05	-0.3500	0.000	1.000
1.000	15.33	0.000	0.000	5AL_158_160_L_0							
9 D	0.7946	-4.7644E-05	64.60	15.89	64.60	38.33	UL-RL	4.7091E+05	-0.4000	0.000	1.000
1.000	15.89	0.000	0.000	5AL_158_160_L_0							
10 D	0.8227	-4.7644E-05	65.55	16.45	65.55	38.89	UL-RL	4.7091E+05	-0.4500	0.000	1.000
1.000	16.45	0.000	0.000	5AL_158_160_L_0							
11 D	0.8509	-4.7644E-05	66.50	17.02	66.50	39.45	UL-RL	4.7091E+05	-0.5000	0.000	1.000
1.000	17.02	0.000	0.000	5AL_158_160_L_0							
12 D	0.8791	-4.7644E-05	67.45	17.58	67.45	40.02	UL-RL	4.7091E+05	-0.5500	0.000	1.000
1.000	17.58	0.000	0.000	5AL_158_160_L_0							
13 D	0.9073	-4.7644E-05	68.40	18.15	68.40	40.58	UL-RL	4.7091E+05	-0.6000	0.000	1.000
1.000	18.15	0.000	0.000	5AL_158_160_L_0							
14 D	0.9355	-4.7644E-05	69.35	18.71	69.35	41.15	UL-RL	4.7091E+05	-0.6500	0.000	1.000
1.000	18.71	0.000	0.000	5AL_158_160_L_0							
15 D	0.9637	-4.7644E-05	70.30	19.27	70.30	41.71	UL-RL	4.7091E+05	-0.7000	0.000	1.000
1.000	19.27	0.000	0.000	5AL_158_160_L_0							
16 D	0.9918	-4.7644E-05	71.25	19.84	71.25	42.27	UL-RL	4.7091E+05	-0.7500	0.000	1.000
1.000	19.84	0.000	0.000	5AL_158_160_L_0							
17 D	1.020	-4.7644E-05	72.20	20.40	72.20	42.84	UL-RL	4.7091E+05	-0.8000	0.000	1.000
1.000	20.40	0.000	0.000	5AL_158_160_L_0							
18 D	1.048	-4.7644E-05	73.15	20.96	73.15	43.40	UL-RL	4.7091E+05	-0.8500	0.000	1.000
1.000	20.96	0.000	0.000	5AL_158_160_L_0							
19 D	1.076	-4.7644E-05	74.10	21.53	74.10	43.96	UL-RL	4.7091E+05	-0.9000	0.000	1.000
1.000	21.53	0.000	0.000	5AL_158_160_L_0							
20 D	1.105	-4.7644E-05	75.05	22.09	75.05	44.53	UL-RL	4.7091E+05	-0.9500	0.000	1.000
1.000	22.09	0.000	0.000	5AL_158_160_L_0							
21 D	1.133	-4.7644E-05	76.00	22.65	76.00	45.09	UL-RL	4.7091E+05	-1.000	0.000	1.000
1.000	22.65	0.000	0.000	5AL_158_160_L_0							
22 D	1.161	-4.7644E-05	76.95	23.22	76.95	45.65	UL-RL	4.7091E+05	-1.050	0.000	1.000
1.000	23.22	0.000	0.000	5AL_158_160_L_0							
23 D	1.189	-4.7644E-05	77.90	23.78	77.90	46.22	UL-RL	4.7091E+05	-1.100	0.000	1.000
1.000	23.78	0.000	0.000	5AL_158_160_L_0							
24 D	1.217	-4.7644E-05	78.85	24.35	78.85	46.78	UL-RL	4.7091E+05	-1.150	0.000	1.000
1.000	24.35	0.000	0.000	5AL_158_160_L_0							
25 D	1.245	-4.7644E-05	79.80	24.91	79.80	47.35	UL-RL	4.7091E+05	-1.200	0.000	1.000
1.000	24.91	0.000	0.000	5AL_158_160_L_0							
26 D	1.274	-4.7644E-05	80.75	25.47	80.75	47.91	UL-RL	4.7091E+05	-1.250	0.000	1.000
1.000	25.47	0.000	0.000	5AL_158_160_L_0							
27 D	1.302	-4.7644E-05	81.70	26.04	81.70	48.47	UL-RL	4.7091E+05	-1.300	0.000	1.000
1.000	26.04	0.000	0.000	5AL_158_160_L_0							
28 D	1.330	-4.7644E-05	82.65	26.60	82.65	49.04	UL-RL	4.7091E+05	-1.350	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	178 di 401

1.000	26.60	0.000	0.000	5AL_158_160_L_0							
29 D	1.358	-4.7644E-05	83.60	27.16	83.60	49.60	UL-RL	4.7091E+05	-1.400	0.000	1.000
1.000	27.16	0.000	0.000	5AL_158_160_L_0							
30 D	1.386	-4.7644E-05	84.55	27.73	84.55	50.16	UL-RL	4.7091E+05	-1.450	0.000	1.000
1.000	27.73	0.000	0.000	5AL_158_160_L_0							
31 D	1.415	-4.7644E-05	85.50	28.29	85.50	50.73	UL-RL	4.7091E+05	-1.500	0.000	1.000
1.000	28.29	0.000	0.000	5AL_158_160_L_0							
32 D	1.443	-4.7644E-05	86.45	28.85	86.45	51.29	UL-RL	4.7091E+05	-1.550	0.000	1.000
1.000	28.85	0.000	0.000	5AL_158_160_L_0							
33 D	1.471	-4.7644E-05	87.40	29.42	87.40	51.85	UL-RL	4.7091E+05	-1.600	0.000	1.000
1.000	29.42	0.000	0.000	5AL_158_160_L_0							
34 D	1.499	-4.7644E-05	88.35	29.98	88.35	52.42	UL-RL	4.7091E+05	-1.650	0.000	1.000
1.000	29.98	0.000	0.000	5AL_158_160_L_0							
35 D	1.527	-4.7644E-05	89.30	30.55	89.30	52.98	UL-RL	4.7091E+05	-1.700	0.000	1.000
1.000	30.55	0.000	0.000	5AL_158_160_L_0							
36 D	1.555	-4.7644E-05	90.25	31.11	90.25	53.55	UL-RL	4.7091E+05	-1.750	0.000	1.000
1.000	31.11	0.000	0.000	5AL_158_160_L_0							
37 D	1.584	-4.7644E-05	91.20	31.67	91.20	54.11	UL-RL	4.7091E+05	-1.800	0.000	1.000
1.000	31.67	0.000	0.000	5AL_158_160_L_0							
38 D	1.612	-4.7644E-05	92.15	32.24	92.15	54.67	UL-RL	4.7091E+05	-1.850	0.000	1.000
1.000	32.24	0.000	0.000	5AL_158_160_L_0							
39 D	1.640	-4.7644E-05	93.10	32.80	93.10	55.24	UL-RL	4.7091E+05	-1.900	0.000	1.000
1.000	32.80	0.000	0.000	5AL_158_160_L_0							
40 D	1.668	-4.7644E-05	94.05	33.36	94.05	55.80	UL-RL	4.7091E+05	-1.950	0.000	1.000
1.000	33.36	0.000	0.000	5AL_158_160_L_0							
41 D	1.696	-4.7644E-05	95.00	33.93	95.00	56.36	UL-RL	4.7091E+05	-2.000	0.000	1.000
1.000	33.93	0.000	0.000	5AL_158_160_L_0							
42 D	1.725	-4.7644E-05	95.95	34.49	95.95	56.93	UL-RL	4.7091E+05	-2.050	0.000	1.000
1.000	34.49	0.000	0.000	5AL_158_160_L_0							
43 D	1.753	-4.7644E-05	96.90	35.05	96.90	57.49	UL-RL	4.7091E+05	-2.100	0.000	1.000
1.000	35.05	0.000	0.000	5AL_158_160_L_0							
44 D	1.781	-4.7644E-05	97.85	35.62	97.85	58.05	UL-RL	4.7091E+05	-2.150	0.000	1.000
1.000	35.62	0.000	0.000	5AL_158_160_L_0							
45 D	1.809	-4.7644E-05	98.80	36.18	98.80	58.62	UL-RL	4.7091E+05	-2.200	0.000	1.000
1.000	36.18	0.000	0.000	5AL_158_160_L_0							
46 D	1.837	-4.7644E-05	99.75	36.75	99.75	59.18	UL-RL	4.7091E+05	-2.250	0.000	1.000
1.000	36.75	0.000	0.000	5AL_158_160_L_0							
47 D	1.865	-4.7644E-05	100.7	37.31	100.7	59.75	UL-RL	4.7091E+05	-2.300	0.000	1.000
1.000	37.31	0.000	0.000	5AL_158_160_L_0							
48 D	1.894	-4.7644E-05	101.6	37.87	101.6	60.31	UL-RL	4.7091E+05	-2.350	0.000	1.000
1.000	37.87	0.000	0.000	5AL_158_160_L_0							
49 D	1.922	-4.7644E-05	102.6	38.44	102.6	60.87	UL-RL	4.7091E+05	-2.400	0.000	1.000
1.000	38.44	0.000	0.000	5AL_158_160_L_0							
50 D	1.950	-4.7644E-05	103.5	39.00	103.5	61.44	UL-RL	4.7091E+05	-2.450	0.000	1.000
1.000	39.00	0.000	0.000	5AL_158_160_L_0							
51 D	1.978	-4.7644E-05	104.5	39.56	104.5	62.00	UL-RL	4.7091E+05	-2.500	0.000	1.000
1.000	39.56	0.000	0.000	5AL_158_160_L_0							
52 D	2.006	-4.7644E-05	105.4	40.13	105.4	62.56	UL-RL	4.7091E+05	-2.550	0.000	1.000
1.000	40.13	0.000	0.000	5AL_158_160_L_0							
53 D	2.035	-4.7644E-05	106.4	40.69	106.4	63.13	UL-RL	4.7091E+05	-2.600	0.000	1.000
1.000	40.69	0.000	0.000	5AL_158_160_L_0							
54 D	2.063	-4.7644E-05	107.3	41.25	107.3	63.69	UL-RL	4.7091E+05	-2.650	0.000	1.000
1.000	41.25	0.000	0.000	5AL_158_160_L_0							
55 D	2.091	-4.7644E-05	108.3	41.82	108.3	64.25	UL-RL	4.7091E+05	-2.700	0.000	1.000
1.000	41.82	0.000	0.000	5AL_158_160_L_0							
56 D	2.119	-4.7644E-05	109.2	42.38	109.2	64.82	UL-RL	4.7091E+05	-2.750	0.000	1.000
1.000	42.38	0.000	0.000	5AL_158_160_L_0							
57 D	2.147	-4.7644E-05	110.2	42.95	110.2	65.38	UL-RL	4.7091E+05	-2.800	0.000	1.000
1.000	42.95	0.000	0.000	5AL_158_160_L_0							
58 D	2.175	-4.7644E-05	111.1	43.51	111.1	65.95	UL-RL	4.7091E+05	-2.850	0.000	1.000
1.000	43.51	0.000	0.000	5AL_158_160_L_0							
59 D	2.204	-4.7644E-05	112.1	44.07	112.1	66.51	UL-RL	4.7091E+05	-2.900	0.000	1.000
1.000	44.07	0.000	0.000	5AL_158_160_L_0							
60 D	2.232	-4.7644E-05	113.0	44.64	113.0	67.07	UL-RL	4.7091E+05	-2.950	0.000	1.000
1.000	44.64	0.000	0.000	5AL_158_160_L_0							
61 D	2.260	-4.7644E-05	114.0	45.20	114.0	67.64	UL-RL	4.7091E+05	-3.000	0.000	1.000
1.000	45.20	0.000	0.000	5AL_158_160_L_0							
62 D	2.288	-4.7644E-05	114.9	45.76	114.9	68.20	UL-RL	4.7091E+05	-3.050	0.000	1.000
1.000	45.76	0.000	0.000	5AL_158_160_L_0							
63 D	2.316	-4.7644E-05	115.9	46.33	115.9	68.76	UL-RL	4.7091E+05	-3.100	0.000	1.000
1.000	46.33	0.000	0.000	5AL_158_160_L_0							
64 D	2.345	-4.7644E-05	116.8	46.89	116.8	69.33	UL-RL	4.7091E+05	-3.150	0.000	1.000
1.000	46.89	0.000	0.000	5AL_158_160_L_0							
65 D	2.373	-4.7644E-05	117.8	47.45	117.8	69.89	UL-RL	4.7091E+05	-3.200	0.000	1.000
1.000	47.45	0.000	0.000	5AL_158_160_L_0							
66 D	2.401	-4.7644E-05	118.7	48.02	118.7	70.45	UL-RL	4.7091E+05	-3.250	0.000	1.000
1.000	48.02	0.000	0.000	5AL_158_160_L_0							
67 D	2.429	-4.7644E-05	119.7	48.58	119.7	71.02	UL-RL	4.7091E+05	-3.300	0.000	1.000
1.000	48.58	0.000	0.000	5AL_158_160_L_0							
68 D	2.457	-4.7644E-05	120.6	49.15	120.6	71.58	UL-RL	4.7091E+05	-3.350	0.000	1.000
1.000	49.15	0.000	0.000	5AL_158_160_L_0							

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100.004	A	179 di 401

69 D	2.485	-4.7644E-05	121.6	49.71	121.6	72.15	UL-RL	4.7091E+05	-3.400	0.000	1.000
1.000	49.71	0.000	0.000	SAL_158_160_L_0							
70 D	2.514	-4.7644E-05	122.5	50.27	122.5	72.71	UL-RL	4.7091E+05	-3.450	0.000	1.000
1.000	50.27	0.000	0.000	SAL_158_160_L_0							
71 D	2.542	-4.7644E-05	123.5	50.84	123.5	73.27	UL-RL	4.7091E+05	-3.500	0.000	1.000
1.000	50.84	0.000	0.000	SAL_158_160_L_0							
72 D	2.570	-4.7644E-05	124.4	51.40	124.4	73.84	UL-RL	4.7091E+05	-3.550	0.000	1.000
1.000	51.40	0.000	0.000	SAL_158_160_L_0							
73 D	2.598	-4.7644E-05	125.4	51.96	125.4	74.40	UL-RL	4.7091E+05	-3.600	0.000	1.000
1.000	51.96	0.000	0.000	SAL_158_160_L_0							
74 D	2.626	-4.7644E-05	126.3	52.53	126.3	74.96	UL-RL	4.7091E+05	-3.650	0.000	1.000
1.000	52.53	0.000	0.000	SAL_158_160_L_0							
75 D	2.655	-4.7644E-05	127.3	53.09	127.3	75.53	UL-RL	4.7091E+05	-3.700	0.000	1.000
1.000	53.09	0.000	0.000	SAL_158_160_L_0							
76 D	2.683	-4.7644E-05	128.2	53.65	128.2	76.09	UL-RL	4.7091E+05	-3.750	0.000	1.000
1.000	53.65	0.000	0.000	SAL_158_160_L_0							
77 D	2.711	-4.7644E-05	129.2	54.22	129.2	76.65	UL-RL	4.7091E+05	-3.800	0.000	1.000
1.000	54.22	0.000	0.000	SAL_158_160_L_0							
78 D	2.739	-4.7644E-05	130.1	54.78	130.1	77.22	UL-RL	4.7091E+05	-3.850	0.000	1.000
1.000	54.78	0.000	0.000	SAL_158_160_L_0							
79 D	2.767	-4.7644E-05	131.1	55.35	131.1	77.78	UL-RL	4.7091E+05	-3.900	0.000	1.000
1.000	55.35	0.000	0.000	SAL_158_160_L_0							
80 D	2.795	-4.7644E-05	132.0	55.91	132.0	78.35	UL-RL	4.7091E+05	-3.950	0.000	1.000
1.000	55.91	0.000	0.000	SAL_158_160_L_0							
81 D	2.824	-4.7644E-05	133.0	56.47	133.0	78.91	UL-RL	4.7091E+05	-4.000	0.000	1.000
1.000	56.47	0.000	0.000	SAL_158_160_L_0							
82 D	2.862	-4.7644E-05	133.4	56.74	133.4	79.18	UL-RL	4.7091E+05	-4.050	0.5000	1.000
1.000	57.24	0.000	0.000	SAL_158_160_L_0							
83 D	2.900	-4.7644E-05	133.9	57.01	133.9	79.44	UL-RL	4.7091E+05	-4.100	1.000	1.000
1.000	58.01	0.000	0.000	SAL_158_160_L_0							
84 D	2.939	-4.7644E-05	134.3	57.27	134.3	79.71	UL-RL	4.7091E+05	-4.150	1.500	1.000
1.000	58.77	0.000	0.000	SAL_158_160_L_0							
85 D	2.977	-4.7644E-05	134.8	57.54	134.8	79.98	UL-RL	4.7091E+05	-4.200	2.000	1.000
1.000	59.54	0.000	0.000	SAL_158_160_L_0							
86 D	3.015	-4.7644E-05	135.2	57.81	135.2	80.24	UL-RL	4.7091E+05	-4.250	2.500	1.000
1.000	60.31	0.000	0.000	SAL_158_160_L_0							
87 D	3.054	-4.7644E-05	135.7	58.07	135.7	80.51	UL-RL	4.7091E+05	-4.300	3.000	1.000
1.000	61.07	0.000	0.000	SAL_158_160_L_0							
88 D	3.092	-4.7644E-05	136.1	58.34	136.1	80.78	UL-RL	4.7091E+05	-4.350	3.500	1.000
1.000	61.84	0.000	0.000	SAL_158_160_L_0							
89 D	3.130	-4.7644E-05	136.6	58.61	136.6	81.04	UL-RL	4.7091E+05	-4.400	4.000	1.000
1.000	62.61	0.000	0.000	SAL_158_160_L_0							
90 D	3.169	-4.7644E-05	137.0	58.88	137.0	81.31	UL-RL	4.7091E+05	-4.450	4.500	1.000
1.000	63.38	0.000	0.000	SAL_158_160_L_0							
91 D	3.207	-4.7644E-05	137.5	59.14	137.5	81.58	UL-RL	4.7091E+05	-4.500	5.000	1.000
1.000	64.14	0.000	0.000	SAL_158_160_L_0							
92 D	3.245	-4.7644E-05	137.9	59.41	137.9	81.85	UL-RL	4.7091E+05	-4.550	5.500	1.000
1.000	64.91	0.000	0.000	SAL_158_160_L_0							
93 D	3.284	-4.7644E-05	138.4	59.68	138.4	82.11	UL-RL	4.7091E+05	-4.600	6.000	1.000
1.000	65.68	0.000	0.000	SAL_158_160_L_0							
94 D	3.322	-4.7644E-05	138.9	59.94	138.9	82.38	UL-RL	4.7091E+05	-4.650	6.500	1.000
1.000	66.44	0.000	0.000	SAL_158_160_L_0							
95 D	3.361	-4.7644E-05	139.3	60.21	139.3	82.65	UL-RL	4.7091E+05	-4.700	7.000	1.000
1.000	67.21	0.000	0.000	SAL_158_160_L_0							
96 D	3.399	-4.7644E-05	139.8	60.48	139.8	82.91	UL-RL	4.7091E+05	-4.750	7.500	1.000
1.000	67.98	0.000	0.000	SAL_158_160_L_0							
97 D	3.437	-4.7644E-05	140.2	60.74	140.2	83.18	UL-RL	4.7091E+05	-4.800	8.000	1.000
1.000	68.74	0.000	0.000	SAL_158_160_L_0							
98 D	3.476	-4.7644E-05	140.6	61.01	140.6	83.45	UL-RL	4.7091E+05	-4.850	8.500	1.000
1.000	69.51	0.000	0.000	SAL_158_160_L_0							
99 D	3.514	-4.7644E-05	141.1	61.28	141.1	83.71	UL-RL	4.7091E+05	-4.900	9.000	1.000
1.000	70.28	0.000	0.000	SAL_158_160_L_0							
100 D	3.552	-4.7644E-05	141.6	61.55	141.6	83.98	UL-RL	4.7091E+05	-4.950	9.500	1.000
1.000	71.05	0.000	0.000	SAL_158_160_L_0							
101 D	3.591	-4.7644E-05	142.0	61.81	142.0	84.25	UL-RL	4.7091E+05	-5.000	10.00	1.000
1.000	71.81	0.000	0.000	SAL_158_160_L_0							
102 D	3.629	-4.7644E-05	142.5	62.08	142.5	84.52	UL-RL	4.7091E+05	-5.050	10.50	1.000
1.000	72.58	0.000	0.000	SAL_158_160_L_0							
103 D	3.667	-4.7644E-05	142.9	62.35	142.9	84.78	UL-RL	4.7091E+05	-5.100	11.00	1.000
1.000	73.35	0.000	0.000	SAL_158_160_L_0							
104 D	3.706	-4.7644E-05	143.4	62.61	143.4	85.05	UL-RL	4.7091E+05	-5.150	11.50	1.000
1.000	74.11	0.000	0.000	SAL_158_160_L_0							
105 D	3.744	-4.7644E-05	143.8	62.88	143.8	85.32	UL-RL	4.7091E+05	-5.200	12.00	1.000
1.000	74.88	0.000	0.000	SAL_158_160_L_0							
106 D	3.782	-4.7644E-05	144.3	63.15	144.3	85.58	UL-RL	4.7091E+05	-5.250	12.50	1.000
1.000	75.65	0.000	0.000	SAL_158_160_L_0							
107 D	3.821	-4.7644E-05	144.7	63.41	144.7	85.85	UL-RL	4.7091E+05	-5.300	13.00	1.000
1.000	76.41	0.000	0.000	SAL_158_160_L_0							
108 D	3.859	-4.7644E-05	145.2	63.68	145.2	86.12	UL-RL	4.7091E+05	-5.350	13.50	1.000
1.000	77.18	0.000	0.000	SAL_158_160_L_0							
109 D	3.897	-4.7644E-05	145.6	63.95	145.6	86.38	UL-RL	4.7091E+05	-5.400	14.00	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	180 di 401

1.000	77.95	0.000	0.000	5AL_158_160_L_0							
110 D	3.936	-4.7644E-05	146.1	64.22	146.1	86.65	UL-RL	4.7091E+05	-5.450	14.50	1.000
1.000	78.72	0.000	0.000	5AL_158_160_L_0							
111 D	3.974	-4.7644E-05	146.5	64.48	146.5	86.92	UL-RL	4.7091E+05	-5.500	15.00	1.000
1.000	79.48	0.000	0.000	5AL_158_160_L_0							
112 D	4.012	-4.7644E-05	147.0	64.75	147.0	87.19	UL-RL	4.7091E+05	-5.550	15.50	1.000
1.000	80.25	0.000	0.000	5AL_158_160_L_0							
113 D	4.051	-4.7644E-05	147.4	65.02	147.4	87.45	UL-RL	4.7091E+05	-5.600	16.00	1.000
1.000	81.02	0.000	0.000	5AL_158_160_L_0							
114 D	4.089	-4.7644E-05	147.9	65.28	147.9	87.72	UL-RL	4.7091E+05	-5.650	16.50	1.000
1.000	81.78	0.000	0.000	5AL_158_160_L_0							
115 D	4.128	-4.7644E-05	148.3	65.55	148.3	87.99	UL-RL	4.7091E+05	-5.700	17.00	1.000
1.000	82.55	0.000	0.000	5AL_158_160_L_0							
116 D	4.166	-4.7644E-05	148.8	65.82	148.8	88.25	UL-RL	4.7091E+05	-5.750	17.50	1.000
1.000	83.32	0.000	0.000	5AL_158_160_L_0							
117 D	4.204	-4.7644E-05	149.2	66.08	149.2	88.52	UL-RL	4.7091E+05	-5.800	18.00	1.000
1.000	84.08	0.000	0.000	5AL_158_160_L_0							
118 D	4.243	-4.7644E-05	149.7	66.35	149.7	88.79	UL-RL	4.7091E+05	-5.850	18.50	1.000
1.000	84.85	0.000	0.000	5AL_158_160_L_0							
119 D	4.281	-4.7644E-05	150.1	66.62	150.1	89.05	UL-RL	4.7091E+05	-5.900	19.00	1.000
1.000	85.62	0.000	0.000	5AL_158_160_L_0							
120 D	4.319	-4.7644E-05	150.6	66.89	150.6	89.32	UL-RL	4.7091E+05	-5.950	19.50	1.000
1.000	86.39	0.000	0.000	5AL_158_160_L_0							
121 D	4.358	-4.7644E-05	151.0	67.15	151.0	89.59	UL-RL	4.7091E+05	-6.000	20.00	1.000
1.000	87.15	0.000	0.000	5AL_158_160_L_0							
122 D	4.396	-4.7644E-05	151.5	67.42	151.5	89.86	UL-RL	4.7091E+05	-6.050	20.50	1.000
1.000	87.92	0.000	0.000	5AL_158_160_L_0							
123 D	4.434	-4.7644E-05	151.9	67.69	151.9	90.12	UL-RL	4.7091E+05	-6.100	21.00	1.000
1.000	88.69	0.000	0.000	5AL_158_160_L_0							
124 D	4.473	-4.7644E-05	152.4	67.95	152.4	90.39	UL-RL	4.7091E+05	-6.150	21.50	1.000
1.000	89.45	0.000	0.000	5AL_158_160_L_0							
125 D	4.511	-4.7644E-05	152.8	68.22	152.8	90.66	UL-RL	4.7091E+05	-6.200	22.00	1.000
1.000	90.22	0.000	0.000	5AL_158_160_L_0							
126 D	4.549	-4.7644E-05	153.3	68.49	153.3	90.92	UL-RL	4.7091E+05	-6.250	22.50	1.000
1.000	90.99	0.000	0.000	5AL_158_160_L_0							
127 D	4.588	-4.7644E-05	153.7	68.75	153.7	91.19	UL-RL	4.7091E+05	-6.300	23.00	1.000
1.000	91.75	0.000	0.000	5AL_158_160_L_0							
128 D	4.626	-4.7644E-05	154.2	69.02	154.2	91.46	UL-RL	4.7091E+05	-6.350	23.50	1.000
1.000	92.52	0.000	0.000	5AL_158_160_L_0							
129 D	4.664	-4.7644E-05	154.6	69.29	154.6	91.72	UL-RL	4.7091E+05	-6.400	24.00	1.000
1.000	93.29	0.000	0.000	5AL_158_160_L_0							
130 D	4.703	-4.7644E-05	155.1	69.56	155.1	91.99	UL-RL	4.7091E+05	-6.450	24.50	1.000
1.000	94.06	0.000	0.000	5AL_158_160_L_0							
131 D	4.741	-4.7644E-05	155.5	69.82	155.5	92.26	UL-RL	4.7091E+05	-6.500	25.00	1.000
1.000	94.82	0.000	0.000	5AL_158_160_L_0							
132 D	4.779	-4.7644E-05	156.0	70.09	156.0	92.53	UL-RL	4.7091E+05	-6.550	25.50	1.000
1.000	95.59	0.000	0.000	5AL_158_160_L_0							
133 D	4.818	-4.7644E-05	156.4	70.36	156.4	92.79	UL-RL	4.7091E+05	-6.600	26.00	1.000
1.000	96.36	0.000	0.000	5AL_158_160_L_0							
134 D	4.856	-4.7644E-05	156.9	70.62	156.9	93.06	UL-RL	4.7091E+05	-6.650	26.50	1.000
1.000	97.12	0.000	0.000	5AL_158_160_L_0							
135 D	4.895	-4.7644E-05	157.3	70.89	157.3	93.33	UL-RL	4.7091E+05	-6.700	27.00	1.000
1.000	97.89	0.000	0.000	5AL_158_160_L_0							
136 D	4.933	-4.7644E-05	157.8	71.16	157.8	93.59	UL-RL	4.7091E+05	-6.750	27.50	1.000
1.000	98.66	0.000	0.000	5AL_158_160_L_0							
137 D	4.971	-4.7644E-05	158.2	71.42	158.2	93.86	UL-RL	4.7091E+05	-6.800	28.00	1.000
1.000	99.42	0.000	0.000	5AL_158_160_L_0							
138 D	5.010	-4.7644E-05	158.7	71.69	158.7	94.13	UL-RL	4.7091E+05	-6.850	28.50	1.000
1.000	100.2	0.000	0.000	5AL_158_160_L_0							
139 D	5.048	-4.7644E-05	159.1	71.96	159.1	94.39	UL-RL	4.7091E+05	-6.900	29.00	1.000
1.000	101.0	0.000	0.000	5AL_158_160_L_0							
140 D	5.086	-4.7644E-05	159.6	72.23	159.6	94.66	UL-RL	4.7091E+05	-6.950	29.50	1.000
1.000	101.7	0.000	0.000	5AL_158_160_L_0							
141 D	5.125	-4.7644E-05	160.0	72.49	160.0	94.93	UL-RL	4.7091E+05	-7.000	30.00	1.000
1.000	102.5	0.000	0.000	5AL_158_160_L_0							
142 D	5.163	-4.7644E-05	160.5	72.76	160.5	95.20	UL-RL	4.7091E+05	-7.050	30.50	1.000
1.000	103.3	0.000	0.000	5AL_158_160_L_0							
143 D	5.201	-4.7644E-05	160.9	73.03	160.9	95.46	UL-RL	4.7091E+05	-7.100	31.00	1.000
1.000	104.0	0.000	0.000	5AL_158_160_L_0							
144 D	5.240	-4.7644E-05	161.4	73.29	161.4	95.73	UL-RL	4.7091E+05	-7.150	31.50	1.000
1.000	104.8	0.000	0.000	5AL_158_160_L_0							
145 D	5.278	-4.7644E-05	161.8	73.56	161.8	96.00	UL-RL	4.7091E+05	-7.200	32.00	1.000
1.000	105.6	0.000	0.000	5AL_158_160_L_0							
146 D	5.316	-4.7644E-05	162.3	73.83	162.3	96.26	UL-RL	4.7091E+05	-7.250	32.50	1.000
1.000	106.3	0.000	0.000	5AL_158_160_L_0							
147 D	5.355	-4.7644E-05	162.7	74.09	162.7	96.53	UL-RL	4.7091E+05	-7.300	33.00	1.000
1.000	107.1	0.000	0.000	5AL_158_160_L_0							
148 D	5.393	-4.7644E-05	163.2	74.36	163.2	96.80	UL-RL	4.7091E+05	-7.350	33.50	1.000
1.000	107.9	0.000	0.000	5AL_158_160_L_0							
149 D	5.431	-4.7644E-05	163.6	74.63	163.6	97.06	UL-RL	4.7091E+05	-7.400	34.00	1.000
1.000	108.6	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	181 di 401

150 D	5.470	-4.7644E-05	164.1	74.90	164.1	97.33	UL-RL	4.7091E+05	-7.450	34.50	1.000
1.000	109.4	0.000	0.000	SAL_158_160_L_0							
151 D	5.508	-4.7644E-05	164.5	75.16	164.5	97.60	UL-RL	4.7091E+05	-7.500	35.00	1.000
1.000	110.2	0.000	0.000	SAL_158_160_L_0							
152 D	5.546	-4.7644E-05	165.0	75.43	165.0	97.86	UL-RL	4.7091E+05	-7.550	35.50	1.000
1.000	110.9	0.000	0.000	SAL_158_160_L_0							
153 D	5.585	-4.7644E-05	165.4	75.70	165.4	98.13	UL-RL	4.7091E+05	-7.600	36.00	1.000
1.000	111.7	0.000	0.000	SAL_158_160_L_0							
154 D	5.623	-4.7644E-05	165.9	75.96	165.9	98.40	UL-RL	4.7091E+05	-7.650	36.50	1.000
1.000	112.5	0.000	0.000	SAL_158_160_L_0							
155 D	5.662	-4.7644E-05	166.3	76.23	166.3	98.67	UL-RL	4.7091E+05	-7.700	37.00	1.000
1.000	113.2	0.000	0.000	SAL_158_160_L_0							
156 D	5.700	-4.7644E-05	166.8	76.50	166.8	98.93	UL-RL	4.7091E+05	-7.750	37.50	1.000
1.000	114.0	0.000	0.000	SAL_158_160_L_0							
157 D	5.738	-4.7644E-05	167.2	76.76	167.2	99.20	UL-RL	4.7091E+05	-7.800	38.00	1.000
1.000	114.8	0.000	0.000	SAL_158_160_L_0							
158 D	5.777	-4.7644E-05	167.7	77.03	167.7	99.47	UL-RL	4.7091E+05	-7.850	38.50	1.000
1.000	115.5	0.000	0.000	SAL_158_160_L_0							
159 D	5.815	-4.7644E-05	168.1	77.30	168.1	99.73	UL-RL	4.7091E+05	-7.900	39.00	1.000
1.000	116.3	0.000	0.000	SAL_158_160_L_0							
160 D	5.853	-4.7644E-05	168.6	77.56	168.6	100.0	UL-RL	4.7091E+05	-7.950	39.50	1.000
1.000	117.1	0.000	0.000	SAL_158_160_L_0							
161 D	5.892	-4.7644E-05	169.0	77.83	169.0	100.3	UL-RL	4.7091E+05	-8.000	40.00	1.000
1.000	117.8	0.000	0.000	SAL_158_160_L_0							
162 D	5.930	-4.7644E-05	169.5	78.10	169.5	100.5	UL-RL	4.7091E+05	-8.050	40.50	1.000
1.000	118.6	0.000	0.000	SAL_158_160_L_0							
163 D	5.968	-4.7644E-05	169.9	78.37	169.9	100.8	UL-RL	4.7091E+05	-8.100	41.00	1.000
1.000	119.4	0.000	0.000	SAL_158_160_L_0							
164 D	6.007	-4.7644E-05	170.4	78.63	170.4	101.1	UL-RL	4.7091E+05	-8.150	41.50	1.000
1.000	120.1	0.000	0.000	SAL_158_160_L_0							
165 D	6.045	-4.7644E-05	170.8	78.90	170.8	101.3	UL-RL	4.7091E+05	-8.200	42.00	1.000
1.000	120.9	0.000	0.000	SAL_158_160_L_0							
166 D	6.083	-4.7644E-05	171.3	79.17	171.3	101.6	UL-RL	4.7091E+05	-8.250	42.50	1.000
1.000	121.7	0.000	0.000	SAL_158_160_L_0							
167 D	6.122	-4.7644E-05	171.7	79.43	171.7	101.9	UL-RL	4.7091E+05	-8.300	43.00	1.000
1.000	122.4	0.000	0.000	SAL_158_160_L_0							
168 D	6.160	-4.7644E-05	172.2	79.70	172.2	102.1	UL-RL	4.7091E+05	-8.350	43.50	1.000
1.000	123.2	0.000	0.000	SAL_158_160_L_0							
169 D	6.198	-4.7644E-05	172.6	79.97	172.6	102.4	UL-RL	4.7091E+05	-8.400	44.00	1.000
1.000	124.0	0.000	0.000	SAL_158_160_L_0							
170 D	6.237	-4.7644E-05	173.1	80.23	173.1	102.7	UL-RL	4.7091E+05	-8.450	44.50	1.000
1.000	124.7	0.000	0.000	SAL_158_160_L_0							
171 D	6.275	-4.7644E-05	173.5	80.50	173.5	102.9	UL-RL	4.7091E+05	-8.500	45.00	1.000
1.000	125.5	0.000	0.000	SAL_158_160_L_0							
172 D	6.313	-4.7644E-05	174.0	80.77	174.0	103.2	UL-RL	4.7091E+05	-8.550	45.50	1.000
1.000	126.3	0.000	0.000	SAL_158_160_L_0							
173 D	6.352	-4.7644E-05	174.4	81.04	174.4	103.5	UL-RL	4.7091E+05	-8.600	46.00	1.000
1.000	127.0	0.000	0.000	SAL_158_160_L_0							
174 D	6.390	-4.7644E-05	174.9	81.30	174.9	103.7	UL-RL	4.7091E+05	-8.650	46.50	1.000
1.000	127.8	0.000	0.000	SAL_158_160_L_0							
175 D	6.428	-4.7644E-05	175.3	81.57	175.3	104.0	UL-RL	4.7091E+05	-8.700	47.00	1.000
1.000	128.6	0.000	0.000	SAL_158_160_L_0							
176 D	6.467	-4.7644E-05	175.8	81.84	175.8	104.3	UL-RL	4.7091E+05	-8.750	47.50	1.000
1.000	129.3	0.000	0.000	SAL_158_160_L_0							
177 D	6.505	-4.7644E-05	176.2	82.10	176.2	104.5	UL-RL	4.7091E+05	-8.800	48.00	1.000
1.000	130.1	0.000	0.000	SAL_158_160_L_0							
178 D	6.544	-4.7644E-05	176.7	82.37	176.7	104.8	UL-RL	4.7091E+05	-8.850	48.50	1.000
1.000	130.9	0.000	0.000	SAL_158_160_L_0							
179 D	6.582	-4.7644E-05	177.1	82.64	177.1	105.1	UL-RL	4.7091E+05	-8.900	49.00	1.000
1.000	131.6	0.000	0.000	SAL_158_160_L_0							
180 D	6.620	-4.7644E-05	177.6	82.90	177.6	105.3	UL-RL	4.7091E+05	-8.950	49.50	1.000
1.000	132.4	0.000	0.000	SAL_158_160_L_0							
181 D	6.659	-4.7644E-05	178.0	83.17	178.0	105.6	UL-RL	4.7091E+05	-9.000	50.00	1.000
1.000	133.2	0.000	0.000	SAL_158_160_L_0							
182 D	6.697	-4.7644E-05	178.5	83.44	178.5	105.9	UL-RL	4.7091E+05	-9.050	50.50	1.000
1.000	133.9	0.000	0.000	SAL_158_160_L_0							
183 D	6.735	-4.7644E-05	178.9	83.71	178.9	106.1	UL-RL	4.7091E+05	-9.100	51.00	1.000
1.000	134.7	0.000	0.000	SAL_158_160_L_0							
184 D	6.774	-4.7644E-05	179.4	83.97	179.4	106.4	UL-RL	4.7091E+05	-9.150	51.50	1.000
1.000	135.5	0.000	0.000	SAL_158_160_L_0							
185 D	6.812	-4.7644E-05	179.8	84.24	179.8	106.7	UL-RL	4.7091E+05	-9.200	52.00	1.000
1.000	136.2	0.000	0.000	SAL_158_160_L_0							
186 D	6.850	-4.7644E-05	180.3	84.51	180.3	106.9	UL-RL	4.7091E+05	-9.250	52.50	1.000
1.000	137.0	0.000	0.000	SAL_158_160_L_0							
187 D	6.889	-4.7644E-05	180.7	84.77	180.7	107.2	UL-RL	4.7091E+05	-9.300	53.00	1.000
1.000	137.8	0.000	0.000	SAL_158_160_L_0							
188 D	6.927	-4.7644E-05	181.2	85.04	181.2	107.5	UL-RL	4.7091E+05	-9.350	53.50	1.000
1.000	138.5	0.000	0.000	SAL_158_160_L_0							
189 D	6.965	-4.7644E-05	181.6	85.31	181.6	107.7	UL-RL	4.7091E+05	-9.400	54.00	1.000
1.000	139.3	0.000	0.000	SAL_158_160_L_0							
190 D	7.004	-4.7644E-05	182.1	85.57	182.1	108.0	UL-RL	4.7091E+05	-9.450	54.50	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
LI00 01 D 09CL VI0100 004 A 182 di 401

RELAZIONE DI CALCOLO

1.000	140.1	0.000	0.000	5AL_158_160_L_0							
191 D	7.042	-4.7644E-05	182.5	85.84	182.5	108.3	UL-RL	4.7091E+05	-9.500	55.00	1.000
1.000	140.8	0.000	0.000	5AL_158_160_L_0							
192 D	7.080	-4.7644E-05	183.0	86.11	183.0	108.5	UL-RL	4.7091E+05	-9.550	55.50	1.000
1.000	141.6	0.000	0.000	5AL_158_160_L_0							
193 D	7.119	-4.7644E-05	183.4	86.38	183.4	108.8	UL-RL	4.7091E+05	-9.600	56.00	1.000
1.000	142.4	0.000	0.000	5AL_158_160_L_0							
194 D	7.157	-4.7644E-05	183.9	86.64	183.9	109.1	UL-RL	4.7091E+05	-9.650	56.50	1.000
1.000	143.1	0.000	0.000	5AL_158_160_L_0							
195 D	7.195	-4.7644E-05	184.3	86.91	184.3	109.3	UL-RL	4.7091E+05	-9.700	57.00	1.000
1.000	143.9	0.000	0.000	5AL_158_160_L_0							
196 D	7.234	-4.7644E-05	184.8	87.18	184.8	109.6	UL-RL	4.7091E+05	-9.750	57.50	1.000
1.000	144.7	0.000	0.000	5AL_158_160_L_0							
197 D	7.272	-4.7644E-05	185.2	87.44	185.2	109.9	UL-RL	4.7091E+05	-9.800	58.00	1.000
1.000	145.4	0.000	0.000	5AL_158_160_L_0							
198 D	7.311	-4.7644E-05	185.7	87.71	185.7	110.1	UL-RL	4.7091E+05	-9.850	58.50	1.000
1.000	146.2	0.000	0.000	5AL_158_160_L_0							
199 D	7.349	-4.7644E-05	186.1	87.98	186.1	110.4	UL-RL	4.7091E+05	-9.900	59.00	1.000
1.000	147.0	0.000	0.000	5AL_158_160_L_0							
200 D	7.386	-4.7644E-05	186.6	88.24	186.6	110.7	UL-RL	4.7091E+05	-9.950	59.50	1.000
1.000	147.7	0.000	0.000	5AL_158_160_L_0							
201 D	3.711	-4.7644E-05	187.0	88.51	187.0	110.9	UL-RL	4.7091E+05	-10.00	60.00	1.000
1.000	148.5	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection 28.A1M1R1_926
Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

Q_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
1 D	0.2846	4.7644E-05	0.000	11.38	0.000	11.38	V-C	2.3890E+05	0.000	0.000	1.000
1.000	11.38	0.000	0.000	5AL_158_160_L_0							
2 D	0.5973	4.7644E-05	0.9500	11.95	0.9500	11.95	V-C	2.3890E+05	-5.0000E-02	0.000	1.000
1.000	11.95	0.000	0.000	5AL_158_160_L_0							
3 D	0.6255	4.7644E-05	1.900	12.51	1.900	12.51	V-C	2.3890E+05	-0.1000	0.000	1.000
1.000	12.51	0.000	0.000	5AL_158_160_L_0							
4 D	0.6537	4.7644E-05	2.850	13.07	2.850	13.07	V-C	2.3890E+05	-0.1500	0.000	1.000
1.000	13.07	0.000	0.000	5AL_158_160_L_0							
5 D	0.6818	4.7644E-05	3.800	13.64	3.800	13.64	V-C	2.3890E+05	-0.2000	0.000	1.000
1.000	13.64	0.000	0.000	5AL_158_160_L_0							
6 D	0.7100	4.7644E-05	4.750	14.20	4.750	14.20	V-C	2.3890E+05	-0.2500	0.000	1.000
1.000	14.20	0.000	0.000	5AL_158_160_L_0							
7 D	0.7382	4.7644E-05	5.700	14.76	5.700	14.76	V-C	2.3890E+05	-0.3000	0.000	1.000
1.000	14.76	0.000	0.000	5AL_158_160_L_0							
8 D	0.7664	4.7644E-05	6.650	15.33	6.650	15.33	V-C	2.3890E+05	-0.3500	0.000	1.000
1.000	15.33	0.000	0.000	5AL_158_160_L_0							
9 D	0.7946	4.7644E-05	7.600	15.89	7.600	15.89	V-C	2.3890E+05	-0.4000	0.000	1.000
1.000	15.89	0.000	0.000	5AL_158_160_L_0							
10 D	0.8227	4.7644E-05	8.550	16.45	8.550	16.45	V-C	2.3890E+05	-0.4500	0.000	1.000
1.000	16.45	0.000	0.000	5AL_158_160_L_0							
11 D	0.8509	4.7644E-05	9.500	17.02	9.500	17.02	V-C	2.3890E+05	-0.5000	0.000	1.000
1.000	17.02	0.000	0.000	5AL_158_160_L_0							
12 D	0.8791	4.7644E-05	10.45	17.58	10.45	17.58	V-C	2.3890E+05	-0.5500	0.000	1.000
1.000	17.58	0.000	0.000	5AL_158_160_L_0							
13 D	0.9073	4.7644E-05	11.40	18.15	11.40	18.15	V-C	2.3890E+05	-0.6000	0.000	1.000
1.000	18.15	0.000	0.000	5AL_158_160_L_0							
14 D	0.9355	4.7644E-05	12.35	18.71	12.35	18.71	V-C	2.3890E+05	-0.6500	0.000	1.000
1.000	18.71	0.000	0.000	5AL_158_160_L_0							
15 D	0.9637	4.7644E-05	13.30	19.27	13.30	19.27	V-C	2.3890E+05	-0.7000	0.000	1.000
1.000	19.27	0.000	0.000	5AL_158_160_L_0							
16 D	0.9918	4.7644E-05	14.25	19.84	14.25	19.84	V-C	2.3890E+05	-0.7500	0.000	1.000
1.000	19.84	0.000	0.000	5AL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
LI00 01 D 09CL VI0100 004 A 183 di 401

RELAZIONE DI CALCOLO

17 D	1.020	4.7644E-05	15.20	20.40	15.20	20.40	V-C	2.3890E+05	-0.8000	0.000	1.000
1.000	20.40	0.000	0.000	5AL_158_160_L_0							
18 D	1.048	4.7644E-05	16.15	20.96	16.15	20.96	V-C	2.3890E+05	-0.8500	0.000	1.000
1.000	20.96	0.000	0.000	5AL_158_160_L_0							
19 D	1.076	4.7644E-05	17.10	21.53	17.10	21.53	V-C	2.3890E+05	-0.9000	0.000	1.000
1.000	21.53	0.000	0.000	5AL_158_160_L_0							
20 D	1.105	4.7644E-05	18.05	22.09	18.05	22.09	V-C	2.3890E+05	-0.9500	0.000	1.000
1.000	22.09	0.000	0.000	5AL_158_160_L_0							
21 D	1.133	4.7644E-05	19.00	22.65	19.00	22.65	V-C	2.3890E+05	-1.000	0.000	1.000
1.000	22.65	0.000	0.000	5AL_158_160_L_0							
22 D	1.161	4.7644E-05	19.95	23.22	19.95	23.22	V-C	2.3890E+05	-1.050	0.000	1.000
1.000	23.22	0.000	0.000	5AL_158_160_L_0							
23 D	1.189	4.7644E-05	20.90	23.78	20.90	23.78	V-C	2.3890E+05	-1.100	0.000	1.000
1.000	23.78	0.000	0.000	5AL_158_160_L_0							
24 D	1.217	4.7644E-05	21.85	24.35	21.85	24.35	V-C	2.3890E+05	-1.150	0.000	1.000
1.000	24.35	0.000	0.000	5AL_158_160_L_0							
25 D	1.245	4.7644E-05	22.80	24.91	22.80	24.91	V-C	2.3890E+05	-1.200	0.000	1.000
1.000	24.91	0.000	0.000	5AL_158_160_L_0							
26 D	1.274	4.7644E-05	23.75	25.47	23.75	25.47	V-C	2.3890E+05	-1.250	0.000	1.000
1.000	25.47	0.000	0.000	5AL_158_160_L_0							
27 D	1.302	4.7644E-05	24.70	26.04	24.70	26.04	V-C	2.3890E+05	-1.300	0.000	1.000
1.000	26.04	0.000	0.000	5AL_158_160_L_0							
28 D	1.330	4.7644E-05	25.65	26.60	25.65	26.60	V-C	2.3890E+05	-1.350	0.000	1.000
1.000	26.60	0.000	0.000	5AL_158_160_L_0							
29 D	1.358	4.7644E-05	26.60	27.16	26.60	27.16	V-C	2.3890E+05	-1.400	0.000	1.000
1.000	27.16	0.000	0.000	5AL_158_160_L_0							
30 D	1.386	4.7644E-05	27.55	27.73	27.55	27.73	V-C	2.3890E+05	-1.450	0.000	1.000
1.000	27.73	0.000	0.000	5AL_158_160_L_0							
31 D	1.415	4.7644E-05	28.50	28.29	28.50	28.29	V-C	2.3890E+05	-1.500	0.000	1.000
1.000	28.29	0.000	0.000	5AL_158_160_L_0							
32 D	1.443	4.7644E-05	29.45	28.85	29.45	28.85	V-C	2.3890E+05	-1.550	0.000	1.000
1.000	28.85	0.000	0.000	5AL_158_160_L_0							
33 D	1.471	4.7644E-05	30.40	29.42	30.40	29.42	V-C	2.3890E+05	-1.600	0.000	1.000
1.000	29.42	0.000	0.000	5AL_158_160_L_0							
34 D	1.499	4.7644E-05	31.35	29.98	31.35	29.98	V-C	2.3890E+05	-1.650	0.000	1.000
1.000	29.98	0.000	0.000	5AL_158_160_L_0							
35 D	1.527	4.7644E-05	32.30	30.55	32.30	30.55	V-C	2.3890E+05	-1.700	0.000	1.000
1.000	30.55	0.000	0.000	5AL_158_160_L_0							
36 D	1.555	4.7644E-05	33.25	31.11	33.25	31.11	V-C	2.3890E+05	-1.750	0.000	1.000
1.000	31.11	0.000	0.000	5AL_158_160_L_0							
37 D	1.584	4.7644E-05	34.20	31.67	34.20	31.67	V-C	2.3890E+05	-1.800	0.000	1.000
1.000	31.67	0.000	0.000	5AL_158_160_L_0							
38 D	1.612	4.7644E-05	35.15	32.24	35.15	32.24	V-C	2.3890E+05	-1.850	0.000	1.000
1.000	32.24	0.000	0.000	5AL_158_160_L_0							
39 D	1.640	4.7644E-05	36.10	32.80	36.10	32.80	V-C	2.3890E+05	-1.900	0.000	1.000
1.000	32.80	0.000	0.000	5AL_158_160_L_0							
40 D	1.668	4.7644E-05	37.05	33.36	37.05	33.36	V-C	2.3890E+05	-1.950	0.000	1.000
1.000	33.36	0.000	0.000	5AL_158_160_L_0							
41 D	1.696	4.7644E-05	38.00	33.93	38.00	33.93	V-C	2.3890E+05	-2.000	0.000	1.000
1.000	33.93	0.000	0.000	5AL_158_160_L_0							
42 D	1.725	4.7644E-05	38.95	34.49	38.95	34.49	V-C	2.3890E+05	-2.050	0.000	1.000
1.000	34.49	0.000	0.000	5AL_158_160_L_0							
43 D	1.753	4.7644E-05	39.90	35.05	39.90	35.05	V-C	2.3890E+05	-2.100	0.000	1.000
1.000	35.05	0.000	0.000	5AL_158_160_L_0							
44 D	1.781	4.7644E-05	40.85	35.62	40.85	35.62	V-C	2.3890E+05	-2.150	0.000	1.000
1.000	35.62	0.000	0.000	5AL_158_160_L_0							
45 D	1.809	4.7644E-05	41.80	36.18	41.80	36.18	V-C	2.3890E+05	-2.200	0.000	1.000
1.000	36.18	0.000	0.000	5AL_158_160_L_0							
46 D	1.837	4.7644E-05	42.75	36.75	42.75	36.75	V-C	2.3890E+05	-2.250	0.000	1.000
1.000	36.75	0.000	0.000	5AL_158_160_L_0							
47 D	1.865	4.7644E-05	43.70	37.31	43.70	37.31	V-C	2.3890E+05	-2.300	0.000	1.000
1.000	37.31	0.000	0.000	5AL_158_160_L_0							
48 D	1.894	4.7644E-05	44.65	37.87	44.65	37.87	V-C	2.3890E+05	-2.350	0.000	1.000
1.000	37.87	0.000	0.000	5AL_158_160_L_0							
49 D	1.922	4.7644E-05	45.60	38.44	45.60	38.44	V-C	2.3890E+05	-2.400	0.000	1.000
1.000	38.44	0.000	0.000	5AL_158_160_L_0							
50 D	1.950	4.7644E-05	46.55	39.00	46.55	39.00	V-C	2.3890E+05	-2.450	0.000	1.000
1.000	39.00	0.000	0.000	5AL_158_160_L_0							
51 D	1.978	4.7644E-05	47.50	39.56	47.50	39.56	V-C	2.3890E+05	-2.500	0.000	1.000
1.000	39.56	0.000	0.000	5AL_158_160_L_0							
52 D	2.006	4.7644E-05	48.45	40.13	48.45	40.13	V-C	2.3890E+05	-2.550	0.000	1.000
1.000	40.13	0.000	0.000	5AL_158_160_L_0							
53 D	2.035	4.7644E-05	49.40	40.69	49.40	40.69	V-C	2.3890E+05	-2.600	0.000	1.000
1.000	40.69	0.000	0.000	5AL_158_160_L_0							
54 D	2.063	4.7644E-05	50.35	41.25	50.35	41.25	V-C	2.3890E+05	-2.650	0.000	1.000
1.000	41.25	0.000	0.000	5AL_158_160_L_0							
55 D	2.091	4.7644E-05	51.30	41.82	51.30	41.82	V-C	2.3890E+05	-2.700	0.000	1.000
1.000	41.82	0.000	0.000	5AL_158_160_L_0							
56 D	2.119	4.7644E-05	52.25	42.38	52.25	42.38	V-C	2.3890E+05	-2.750	0.000	1.000
1.000	42.38	0.000	0.000	5AL_158_160_L_0							
57 D	2.147	4.7644E-05	53.20	42.95	53.20	42.95	V-C	2.3890E+05	-2.800	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	184 di 401

1.000	42.95	0.000	0.000	5AL_158_160_L_0							
58 D	2.175	4.7644E-05	54.15	43.51	54.15	43.51	V-C	2.3890E+05	-2.850	0.000	1.000
1.000	43.51	0.000	0.000	5AL_158_160_L_0							
59 D	2.204	4.7644E-05	55.10	44.07	55.10	44.07	V-C	2.3890E+05	-2.900	0.000	1.000
1.000	44.07	0.000	0.000	5AL_158_160_L_0							
60 D	2.232	4.7644E-05	56.05	44.64	56.05	44.64	V-C	2.3890E+05	-2.950	0.000	1.000
1.000	44.64	0.000	0.000	5AL_158_160_L_0							
61 D	2.260	4.7644E-05	57.00	45.20	57.00	45.20	V-C	2.3890E+05	-3.000	0.000	1.000
1.000	45.20	0.000	0.000	5AL_158_160_L_0							
62 D	2.288	4.7644E-05	57.95	45.76	57.95	45.76	V-C	2.3890E+05	-3.050	0.000	1.000
1.000	45.76	0.000	0.000	5AL_158_160_L_0							
63 D	2.316	4.7644E-05	58.90	46.33	58.90	46.33	V-C	2.3890E+05	-3.100	0.000	1.000
1.000	46.33	0.000	0.000	5AL_158_160_L_0							
64 D	2.345	4.7644E-05	59.85	46.89	59.85	46.89	V-C	2.3890E+05	-3.150	0.000	1.000
1.000	46.89	0.000	0.000	5AL_158_160_L_0							
65 D	2.373	4.7644E-05	60.80	47.45	60.80	47.45	V-C	2.3890E+05	-3.200	0.000	1.000
1.000	47.45	0.000	0.000	5AL_158_160_L_0							
66 D	2.401	4.7644E-05	61.75	48.02	61.75	48.02	V-C	2.3890E+05	-3.250	0.000	1.000
1.000	48.02	0.000	0.000	5AL_158_160_L_0							
67 D	2.429	4.7644E-05	62.70	48.58	62.70	48.58	V-C	2.3890E+05	-3.300	0.000	1.000
1.000	48.58	0.000	0.000	5AL_158_160_L_0							
68 D	2.457	4.7644E-05	63.65	49.15	63.65	49.15	V-C	2.3890E+05	-3.350	0.000	1.000
1.000	49.15	0.000	0.000	5AL_158_160_L_0							
69 D	2.485	4.7644E-05	64.60	49.71	64.60	49.71	V-C	2.3890E+05	-3.400	0.000	1.000
1.000	49.71	0.000	0.000	5AL_158_160_L_0							
70 D	2.514	4.7644E-05	65.55	50.27	65.55	50.27	V-C	2.3890E+05	-3.450	0.000	1.000
1.000	50.27	0.000	0.000	5AL_158_160_L_0							
71 D	2.542	4.7644E-05	66.50	50.84	66.50	50.84	V-C	2.3890E+05	-3.500	0.000	1.000
1.000	50.84	0.000	0.000	5AL_158_160_L_0							
72 D	2.570	4.7644E-05	67.45	51.40	67.45	51.40	V-C	2.3890E+05	-3.550	0.000	1.000
1.000	51.40	0.000	0.000	5AL_158_160_L_0							
73 D	2.598	4.7644E-05	68.40	51.96	68.40	51.96	V-C	2.3890E+05	-3.600	0.000	1.000
1.000	51.96	0.000	0.000	5AL_158_160_L_0							
74 D	2.626	4.7644E-05	69.35	52.53	69.35	52.53	V-C	2.3890E+05	-3.650	0.000	1.000
1.000	52.53	0.000	0.000	5AL_158_160_L_0							
75 D	2.655	4.7644E-05	70.30	53.09	70.30	53.09	V-C	2.3890E+05	-3.700	0.000	1.000
1.000	53.09	0.000	0.000	5AL_158_160_L_0							
76 D	2.683	4.7644E-05	71.25	53.65	71.25	53.65	V-C	2.3890E+05	-3.750	0.000	1.000
1.000	53.65	0.000	0.000	5AL_158_160_L_0							
77 D	2.711	4.7644E-05	72.20	54.22	72.20	54.22	V-C	2.3890E+05	-3.800	0.000	1.000
1.000	54.22	0.000	0.000	5AL_158_160_L_0							
78 D	2.739	4.7644E-05	73.15	54.78	73.15	54.78	V-C	2.3890E+05	-3.850	0.000	1.000
1.000	54.78	0.000	0.000	5AL_158_160_L_0							
79 D	2.767	4.7644E-05	74.10	55.35	74.10	55.35	V-C	2.3890E+05	-3.900	0.000	1.000
1.000	55.35	0.000	0.000	5AL_158_160_L_0							
80 D	2.795	4.7644E-05	75.05	55.91	75.05	55.91	V-C	2.3890E+05	-3.950	0.000	1.000
1.000	55.91	0.000	0.000	5AL_158_160_L_0							
81 D	2.824	4.7644E-05	76.00	56.47	76.00	56.47	V-C	2.3890E+05	-4.000	0.000	1.000
1.000	56.47	0.000	0.000	5AL_158_160_L_0							
82 D	2.862	4.7644E-05	76.45	56.74	76.45	56.74	V-C	2.3890E+05	-4.050	0.5000	1.000
1.000	57.24	0.000	0.000	5AL_158_160_L_0							
83 D	2.900	4.7644E-05	76.90	57.01	76.90	57.01	V-C	2.3890E+05	-4.100	1.000	1.000
1.000	58.01	0.000	0.000	5AL_158_160_L_0							
84 D	2.939	4.7644E-05	77.35	57.27	77.35	57.27	V-C	2.3890E+05	-4.150	1.500	1.000
1.000	58.77	0.000	0.000	5AL_158_160_L_0							
85 D	2.977	4.7644E-05	77.80	57.54	77.80	57.54	V-C	2.3890E+05	-4.200	2.000	1.000
1.000	59.54	0.000	0.000	5AL_158_160_L_0							
86 D	3.015	4.7644E-05	78.25	57.81	78.25	57.81	V-C	2.3890E+05	-4.250	2.500	1.000
1.000	60.31	0.000	0.000	5AL_158_160_L_0							
87 D	3.054	4.7644E-05	78.70	58.07	78.70	58.07	V-C	2.3890E+05	-4.300	3.000	1.000
1.000	61.07	0.000	0.000	5AL_158_160_L_0							
88 D	3.092	4.7644E-05	79.15	58.34	79.15	58.34	V-C	2.3890E+05	-4.350	3.500	1.000
1.000	61.84	0.000	0.000	5AL_158_160_L_0							
89 D	3.130	4.7644E-05	79.60	58.61	79.60	58.61	V-C	2.3890E+05	-4.400	4.000	1.000
1.000	62.61	0.000	0.000	5AL_158_160_L_0							
90 D	3.169	4.7644E-05	80.05	58.88	80.05	58.88	V-C	2.3890E+05	-4.450	4.500	1.000
1.000	63.38	0.000	0.000	5AL_158_160_L_0							
91 D	3.207	4.7644E-05	80.50	59.14	80.50	59.14	V-C	2.3890E+05	-4.500	5.000	1.000
1.000	64.14	0.000	0.000	5AL_158_160_L_0							
92 D	3.245	4.7644E-05	80.95	59.41	80.95	59.41	V-C	2.3890E+05	-4.550	5.500	1.000
1.000	64.91	0.000	0.000	5AL_158_160_L_0							
93 D	3.284	4.7644E-05	81.40	59.68	81.40	59.68	V-C	2.3890E+05	-4.600	6.000	1.000
1.000	65.68	0.000	0.000	5AL_158_160_L_0							
94 D	3.322	4.7644E-05	81.85	59.94	81.85	59.94	V-C	2.3890E+05	-4.650	6.500	1.000
1.000	66.44	0.000	0.000	5AL_158_160_L_0							
95 D	3.361	4.7644E-05	82.30	60.21	82.30	60.21	V-C	2.3890E+05	-4.700	7.000	1.000
1.000	67.21	0.000	0.000	5AL_158_160_L_0							
96 D	3.399	4.7644E-05	82.75	60.48	82.75	60.48	V-C	2.3890E+05	-4.750	7.500	1.000
1.000	67.98	0.000	0.000	5AL_158_160_L_0							
97 D	3.437	4.7644E-05	83.20	60.74	83.20	60.74	V-C	2.3890E+05	-4.800	8.000	1.000
1.000	68.74	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	185 di 401

98 D	3.476	4.7644E-05	83.65	61.01	83.65	61.01	V-C	2.3890E+05	-4.850	8.500	1.000
1.000	69.51	0.000	0.000	5AL_158_160_L_0							
99 D	3.514	4.7644E-05	84.10	61.28	84.10	61.28	V-C	2.3890E+05	-4.900	9.000	1.000
1.000	70.28	0.000	0.000	5AL_158_160_L_0							
100 D	3.552	4.7644E-05	84.55	61.55	84.55	61.55	V-C	2.3890E+05	-4.950	9.500	1.000
1.000	71.05	0.000	0.000	5AL_158_160_L_0							
101 D	3.591	4.7644E-05	85.00	61.81	85.00	61.81	V-C	2.3890E+05	-5.000	10.00	1.000
1.000	71.81	0.000	0.000	5AL_158_160_L_0							
102 D	3.629	4.7644E-05	85.45	62.08	85.45	62.08	V-C	2.3890E+05	-5.050	10.50	1.000
1.000	72.58	0.000	0.000	5AL_158_160_L_0							
103 D	3.667	4.7644E-05	85.90	62.35	85.90	62.35	V-C	2.3890E+05	-5.100	11.00	1.000
1.000	73.35	0.000	0.000	5AL_158_160_L_0							
104 D	3.706	4.7644E-05	86.35	62.61	86.35	62.61	V-C	2.3890E+05	-5.150	11.50	1.000
1.000	74.11	0.000	0.000	5AL_158_160_L_0							
105 D	3.744	4.7644E-05	86.80	62.88	86.80	62.88	V-C	2.3890E+05	-5.200	12.00	1.000
1.000	74.88	0.000	0.000	5AL_158_160_L_0							
106 D	3.782	4.7644E-05	87.25	63.15	87.25	63.15	V-C	2.3890E+05	-5.250	12.50	1.000
1.000	75.65	0.000	0.000	5AL_158_160_L_0							
107 D	3.821	4.7644E-05	87.70	63.41	87.70	63.41	V-C	2.3890E+05	-5.300	13.00	1.000
1.000	76.41	0.000	0.000	5AL_158_160_L_0							
108 D	3.859	4.7644E-05	88.15	63.68	88.15	63.68	V-C	2.3890E+05	-5.350	13.50	1.000
1.000	77.18	0.000	0.000	5AL_158_160_L_0							
109 D	3.897	4.7644E-05	88.60	63.95	88.60	63.95	V-C	2.3890E+05	-5.400	14.00	1.000
1.000	77.95	0.000	0.000	5AL_158_160_L_0							
110 D	3.936	4.7644E-05	89.05	64.22	89.05	64.22	V-C	2.3890E+05	-5.450	14.50	1.000
1.000	78.72	0.000	0.000	5AL_158_160_L_0							
111 D	3.974	4.7644E-05	89.50	64.48	89.50	64.48	V-C	2.3890E+05	-5.500	15.00	1.000
1.000	79.48	0.000	0.000	5AL_158_160_L_0							
112 D	4.012	4.7644E-05	89.95	64.75	89.95	64.75	V-C	2.3890E+05	-5.550	15.50	1.000
1.000	80.25	0.000	0.000	5AL_158_160_L_0							
113 D	4.051	4.7644E-05	90.40	65.02	90.40	65.02	V-C	2.3890E+05	-5.600	16.00	1.000
1.000	81.02	0.000	0.000	5AL_158_160_L_0							
114 D	4.089	4.7644E-05	90.85	65.28	90.85	65.28	V-C	2.3890E+05	-5.650	16.50	1.000
1.000	81.78	0.000	0.000	5AL_158_160_L_0							
115 D	4.128	4.7644E-05	91.30	65.55	91.30	65.55	V-C	2.3890E+05	-5.700	17.00	1.000
1.000	82.55	0.000	0.000	5AL_158_160_L_0							
116 D	4.166	4.7644E-05	91.75	65.82	91.75	65.82	V-C	2.3890E+05	-5.750	17.50	1.000
1.000	83.32	0.000	0.000	5AL_158_160_L_0							
117 D	4.204	4.7644E-05	92.20	66.08	92.20	66.08	V-C	2.3890E+05	-5.800	18.00	1.000
1.000	84.08	0.000	0.000	5AL_158_160_L_0							
118 D	4.243	4.7644E-05	92.65	66.35	92.65	66.35	V-C	2.3890E+05	-5.850	18.50	1.000
1.000	84.85	0.000	0.000	5AL_158_160_L_0							
119 D	4.281	4.7644E-05	93.10	66.62	93.10	66.62	V-C	2.3890E+05	-5.900	19.00	1.000
1.000	85.62	0.000	0.000	5AL_158_160_L_0							
120 D	4.319	4.7644E-05	93.55	66.89	93.55	66.89	V-C	2.3890E+05	-5.950	19.50	1.000
1.000	86.39	0.000	0.000	5AL_158_160_L_0							
121 D	4.358	4.7644E-05	94.00	67.15	94.00	67.15	V-C	2.3890E+05	-6.000	20.00	1.000
1.000	87.15	0.000	0.000	5AL_158_160_L_0							
122 D	4.396	4.7644E-05	94.45	67.42	94.45	67.42	V-C	2.3890E+05	-6.050	20.50	1.000
1.000	87.92	0.000	0.000	5AL_158_160_L_0							
123 D	4.434	4.7644E-05	94.90	67.69	94.90	67.69	V-C	2.3890E+05	-6.100	21.00	1.000
1.000	88.69	0.000	0.000	5AL_158_160_L_0							
124 D	4.473	4.7644E-05	95.35	67.95	95.35	67.95	V-C	2.3890E+05	-6.150	21.50	1.000
1.000	89.45	0.000	0.000	5AL_158_160_L_0							
125 D	4.511	4.7644E-05	95.80	68.22	95.80	68.22	V-C	2.3890E+05	-6.200	22.00	1.000
1.000	90.22	0.000	0.000	5AL_158_160_L_0							
126 D	4.549	4.7644E-05	96.25	68.49	96.25	68.49	V-C	2.3890E+05	-6.250	22.50	1.000
1.000	90.99	0.000	0.000	5AL_158_160_L_0							
127 D	4.588	4.7644E-05	96.70	68.75	96.70	68.75	V-C	2.3890E+05	-6.300	23.00	1.000
1.000	91.75	0.000	0.000	5AL_158_160_L_0							
128 D	4.626	4.7644E-05	97.15	69.02	97.15	69.02	V-C	2.3890E+05	-6.350	23.50	1.000
1.000	92.52	0.000	0.000	5AL_158_160_L_0							
129 D	4.664	4.7644E-05	97.60	69.29	97.60	69.29	V-C	2.3890E+05	-6.400	24.00	1.000
1.000	93.29	0.000	0.000	5AL_158_160_L_0							
130 D	4.703	4.7644E-05	98.05	69.56	98.05	69.56	V-C	2.3890E+05	-6.450	24.50	1.000
1.000	94.06	0.000	0.000	5AL_158_160_L_0							
131 D	4.741	4.7644E-05	98.50	69.82	98.50	69.82	V-C	2.3890E+05	-6.500	25.00	1.000
1.000	94.82	0.000	0.000	5AL_158_160_L_0							
132 D	4.779	4.7644E-05	98.95	70.09	98.95	70.09	V-C	2.3890E+05	-6.550	25.50	1.000
1.000	95.59	0.000	0.000	5AL_158_160_L_0							
133 D	4.818	4.7644E-05	99.40	70.36	99.40	70.36	V-C	2.3890E+05	-6.600	26.00	1.000
1.000	96.36	0.000	0.000	5AL_158_160_L_0							
134 D	4.856	4.7644E-05	99.85	70.62	99.85	70.62	V-C	2.3890E+05	-6.650	26.50	1.000
1.000	97.12	0.000	0.000	5AL_158_160_L_0							
135 D	4.895	4.7644E-05	100.3	70.89	100.3	70.89	V-C	2.3890E+05	-6.700	27.00	1.000
1.000	97.89	0.000	0.000	5AL_158_160_L_0							
136 D	4.933	4.7644E-05	100.8	71.16	100.8	71.16	V-C	2.3890E+05	-6.750	27.50	1.000
1.000	98.66	0.000	0.000	5AL_158_160_L_0							
137 D	4.971	4.7644E-05	101.2	71.42	101.2	71.42	V-C	2.3890E+05	-6.800	28.00	1.000
1.000	99.42	0.000	0.000	5AL_158_160_L_0							
138 D	5.010	4.7644E-05	101.7	71.69	101.7	71.69	V-C	2.3890E+05	-6.850	28.50	1.000

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	186 di 401

RELAZIONE DI CALCOLO

1.000	100.2	0.000	0.000	5AL_158_160_L_0							
139 D	5.048	4.7644E-05	102.1	71.96	102.1	71.96	V-C	2.3890E+05	-6.900	29.00	1.000
1.000	101.0	0.000	0.000	5AL_158_160_L_0							
140 D	5.086	4.7644E-05	102.6	72.23	102.6	72.23	V-C	2.3890E+05	-6.950	29.50	1.000
1.000	101.7	0.000	0.000	5AL_158_160_L_0							
141 D	5.125	4.7644E-05	103.0	72.49	103.0	72.49	V-C	2.3890E+05	-7.000	30.00	1.000
1.000	102.5	0.000	0.000	5AL_158_160_L_0							
142 D	5.163	4.7644E-05	103.5	72.76	103.5	72.76	V-C	2.3890E+05	-7.050	30.50	1.000
1.000	103.3	0.000	0.000	5AL_158_160_L_0							
143 D	5.201	4.7644E-05	103.9	73.03	103.9	73.03	V-C	2.3890E+05	-7.100	31.00	1.000
1.000	104.0	0.000	0.000	5AL_158_160_L_0							
144 D	5.240	4.7644E-05	104.4	73.29	104.4	73.29	V-C	2.3890E+05	-7.150	31.50	1.000
1.000	104.8	0.000	0.000	5AL_158_160_L_0							
145 D	5.278	4.7644E-05	104.8	73.56	104.8	73.56	V-C	2.3890E+05	-7.200	32.00	1.000
1.000	105.6	0.000	0.000	5AL_158_160_L_0							
146 D	5.316	4.7644E-05	105.3	73.83	105.3	73.83	V-C	2.3890E+05	-7.250	32.50	1.000
1.000	106.3	0.000	0.000	5AL_158_160_L_0							
147 D	5.355	4.7644E-05	105.7	74.09	105.7	74.09	V-C	2.3890E+05	-7.300	33.00	1.000
1.000	107.1	0.000	0.000	5AL_158_160_L_0							
148 D	5.393	4.7644E-05	106.2	74.36	106.2	74.36	V-C	2.3890E+05	-7.350	33.50	1.000
1.000	107.9	0.000	0.000	5AL_158_160_L_0							
149 D	5.431	4.7644E-05	106.6	74.63	106.6	74.63	V-C	2.3890E+05	-7.400	34.00	1.000
1.000	108.6	0.000	0.000	5AL_158_160_L_0							
150 D	5.470	4.7644E-05	107.1	74.90	107.1	74.90	V-C	2.3890E+05	-7.450	34.50	1.000
1.000	109.4	0.000	0.000	5AL_158_160_L_0							
151 D	5.508	4.7644E-05	107.5	75.16	107.5	75.16	V-C	2.3890E+05	-7.500	35.00	1.000
1.000	110.2	0.000	0.000	5AL_158_160_L_0							
152 D	5.546	4.7644E-05	108.0	75.43	108.0	75.43	V-C	2.3890E+05	-7.550	35.50	1.000
1.000	110.9	0.000	0.000	5AL_158_160_L_0							
153 D	5.585	4.7644E-05	108.4	75.70	108.4	75.70	V-C	2.3890E+05	-7.600	36.00	1.000
1.000	111.7	0.000	0.000	5AL_158_160_L_0							
154 D	5.623	4.7644E-05	108.9	75.96	108.9	75.96	V-C	2.3890E+05	-7.650	36.50	1.000
1.000	112.5	0.000	0.000	5AL_158_160_L_0							
155 D	5.662	4.7644E-05	109.3	76.23	109.3	76.23	V-C	2.3890E+05	-7.700	37.00	1.000
1.000	113.2	0.000	0.000	5AL_158_160_L_0							
156 D	5.700	4.7644E-05	109.8	76.50	109.8	76.50	V-C	2.3890E+05	-7.750	37.50	1.000
1.000	114.0	0.000	0.000	5AL_158_160_L_0							
157 D	5.738	4.7644E-05	110.2	76.76	110.2	76.76	V-C	2.3890E+05	-7.800	38.00	1.000
1.000	114.8	0.000	0.000	5AL_158_160_L_0							
158 D	5.777	4.7644E-05	110.7	77.03	110.7	77.03	V-C	2.3890E+05	-7.850	38.50	1.000
1.000	115.5	0.000	0.000	5AL_158_160_L_0							
159 D	5.815	4.7644E-05	111.1	77.30	111.1	77.30	V-C	2.3890E+05	-7.900	39.00	1.000
1.000	116.3	0.000	0.000	5AL_158_160_L_0							
160 D	5.853	4.7644E-05	111.6	77.56	111.6	77.56	V-C	2.3890E+05	-7.950	39.50	1.000
1.000	117.1	0.000	0.000	5AL_158_160_L_0							
161 D	5.892	4.7644E-05	112.0	77.83	112.0	77.83	V-C	2.3890E+05	-8.000	40.00	1.000
1.000	117.8	0.000	0.000	5AL_158_160_L_0							
162 D	5.930	4.7644E-05	112.5	78.10	112.5	78.10	V-C	2.3890E+05	-8.050	40.50	1.000
1.000	118.6	0.000	0.000	5AL_158_160_L_0							
163 D	5.968	4.7644E-05	112.9	78.37	112.9	78.37	V-C	2.3890E+05	-8.100	41.00	1.000
1.000	119.4	0.000	0.000	5AL_158_160_L_0							
164 D	6.007	4.7644E-05	113.4	78.63	113.4	78.63	V-C	2.3890E+05	-8.150	41.50	1.000
1.000	120.1	0.000	0.000	5AL_158_160_L_0							
165 D	6.045	4.7644E-05	113.8	78.90	113.8	78.90	V-C	2.3890E+05	-8.200	42.00	1.000
1.000	120.9	0.000	0.000	5AL_158_160_L_0							
166 D	6.083	4.7644E-05	114.3	79.17	114.3	79.17	V-C	2.3890E+05	-8.250	42.50	1.000
1.000	121.7	0.000	0.000	5AL_158_160_L_0							
167 D	6.122	4.7644E-05	114.7	79.43	114.7	79.43	V-C	2.3890E+05	-8.300	43.00	1.000
1.000	122.4	0.000	0.000	5AL_158_160_L_0							
168 D	6.160	4.7644E-05	115.2	79.70	115.2	79.70	V-C	2.3890E+05	-8.350	43.50	1.000
1.000	123.2	0.000	0.000	5AL_158_160_L_0							
169 D	6.198	4.7644E-05	115.6	79.97	115.6	79.97	V-C	2.3890E+05	-8.400	44.00	1.000
1.000	124.0	0.000	0.000	5AL_158_160_L_0							
170 D	6.237	4.7644E-05	116.1	80.23	116.1	80.23	V-C	2.3890E+05	-8.450	44.50	1.000
1.000	124.7	0.000	0.000	5AL_158_160_L_0							
171 D	6.275	4.7644E-05	116.5	80.50	116.5	80.50	V-C	2.3890E+05	-8.500	45.00	1.000
1.000	125.5	0.000	0.000	5AL_158_160_L_0							
172 D	6.313	4.7644E-05	117.0	80.77	117.0	80.77	V-C	2.3890E+05	-8.550	45.50	1.000
1.000	126.3	0.000	0.000	5AL_158_160_L_0							
173 D	6.352	4.7644E-05	117.4	81.04	117.4	81.04	V-C	2.3890E+05	-8.600	46.00	1.000
1.000	127.0	0.000	0.000	5AL_158_160_L_0							
174 D	6.390	4.7644E-05	117.9	81.30	117.9	81.30	V-C	2.3890E+05	-8.650	46.50	1.000
1.000	127.8	0.000	0.000	5AL_158_160_L_0							
175 D	6.428	4.7644E-05	118.3	81.57	118.3	81.57	V-C	2.3890E+05	-8.700	47.00	1.000
1.000	128.6	0.000	0.000	5AL_158_160_L_0							
176 D	6.467	4.7644E-05	118.8	81.84	118.8	81.84	V-C	2.3890E+05	-8.750	47.50	1.000
1.000	129.3	0.000	0.000	5AL_158_160_L_0							
177 D	6.505	4.7644E-05	119.2	82.10	119.2	82.10	V-C	2.3890E+05	-8.800	48.00	1.000
1.000	130.1	0.000	0.000	5AL_158_160_L_0							
178 D	6.544	4.7644E-05	119.7	82.37	119.7	82.37	V-C	2.3890E+05	-8.850	48.50	1.000
1.000	130.9	0.000	0.000	5AL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	187 di 401

RELAZIONE DI CALCOLO

179 D	6.582	4.7644E-05	120.1	82.64	120.1	82.64	V-C	2.3890E+05	-8.900	49.00	1.000
1.000	131.6	0.000	0.000	5AL_158_160_L_0							
180 D	6.620	4.7644E-05	120.6	82.90	120.6	82.90	V-C	2.3890E+05	-8.950	49.50	1.000
1.000	132.4	0.000	0.000	5AL_158_160_L_0							
181 D	6.659	4.7644E-05	121.0	83.17	121.0	83.17	V-C	2.3890E+05	-9.000	50.00	1.000
1.000	133.2	0.000	0.000	5AL_158_160_L_0							
182 D	6.697	4.7644E-05	121.5	83.44	121.5	83.44	V-C	2.3890E+05	-9.050	50.50	1.000
1.000	133.9	0.000	0.000	5AL_158_160_L_0							
183 D	6.735	4.7644E-05	121.9	83.71	121.9	83.71	V-C	2.3890E+05	-9.100	51.00	1.000
1.000	134.7	0.000	0.000	5AL_158_160_L_0							
184 D	6.774	4.7644E-05	122.4	83.97	122.4	83.97	V-C	2.3890E+05	-9.150	51.50	1.000
1.000	135.5	0.000	0.000	5AL_158_160_L_0							
185 D	6.812	4.7644E-05	122.8	84.24	122.8	84.24	V-C	2.3890E+05	-9.200	52.00	1.000
1.000	136.2	0.000	0.000	5AL_158_160_L_0							
186 D	6.850	4.7644E-05	123.3	84.51	123.3	84.51	V-C	2.3890E+05	-9.250	52.50	1.000
1.000	137.0	0.000	0.000	5AL_158_160_L_0							
187 D	6.889	4.7644E-05	123.7	84.77	123.7	84.77	V-C	2.3890E+05	-9.300	53.00	1.000
1.000	137.8	0.000	0.000	5AL_158_160_L_0							
188 D	6.927	4.7644E-05	124.2	85.04	124.2	85.04	V-C	2.3890E+05	-9.350	53.50	1.000
1.000	138.5	0.000	0.000	5AL_158_160_L_0							
189 D	6.965	4.7644E-05	124.6	85.31	124.6	85.31	V-C	2.3890E+05	-9.400	54.00	1.000
1.000	139.3	0.000	0.000	5AL_158_160_L_0							
190 D	7.004	4.7644E-05	125.1	85.57	125.1	85.57	V-C	2.3890E+05	-9.450	54.50	1.000
1.000	140.1	0.000	0.000	5AL_158_160_L_0							
191 D	7.042	4.7644E-05	125.5	85.84	125.5	85.84	V-C	2.3890E+05	-9.500	55.00	1.000
1.000	140.8	0.000	0.000	5AL_158_160_L_0							
192 D	7.080	4.7644E-05	126.0	86.11	126.0	86.11	V-C	2.3890E+05	-9.550	55.50	1.000
1.000	141.6	0.000	0.000	5AL_158_160_L_0							
193 D	7.119	4.7644E-05	126.4	86.38	126.4	86.38	V-C	2.3890E+05	-9.600	56.00	1.000
1.000	142.4	0.000	0.000	5AL_158_160_L_0							
194 D	7.157	4.7644E-05	126.9	86.64	126.9	86.64	V-C	2.3890E+05	-9.650	56.50	1.000
1.000	143.1	0.000	0.000	5AL_158_160_L_0							
195 D	7.195	4.7644E-05	127.3	86.91	127.3	86.91	V-C	2.3890E+05	-9.700	57.00	1.000
1.000	143.9	0.000	0.000	5AL_158_160_L_0							
196 D	7.234	4.7644E-05	127.8	87.18	127.8	87.18	V-C	2.3890E+05	-9.750	57.50	1.000
1.000	144.7	0.000	0.000	5AL_158_160_L_0							
197 D	7.272	4.7644E-05	128.2	87.44	128.2	87.44	V-C	2.3890E+05	-9.800	58.00	1.000
1.000	145.4	0.000	0.000	5AL_158_160_L_0							
198 D	7.311	4.7644E-05	128.7	87.71	128.7	87.71	V-C	2.3890E+05	-9.850	58.50	1.000
1.000	146.2	0.000	0.000	5AL_158_160_L_0							
199 D	7.349	4.7644E-05	129.1	87.98	129.1	87.98	V-C	2.3890E+05	-9.900	59.00	1.000
1.000	147.0	0.000	0.000	5AL_158_160_L_0							
200 D	7.386	4.7644E-05	129.6	88.24	129.6	88.24	V-C	2.3890E+05	-9.950	59.50	1.000
1.000	147.7	0.000	0.000	5AL_158_160_L_0							
201 D	3.711	4.7644E-05	130.0	88.51	130.0	88.51	V-C	2.3890E+05	-10.00	60.00	1.000
1.000	148.5	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.AIM1R1_926
Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1-1.17673E-11	1.17673E-11	4.64102E-14	-8.16674E-13	
2-5.39395E-11	5.39395E-11	-7.17094E-13	-2.34368E-12	
3-2.56270E-11	2.56270E-11	1.20997E-12	-3.94652E-12	
4-2.32230E-11	2.32230E-11	3.43283E-12	-5.86727E-12	
5-1.74654E-11	1.74654E-11	5.95411E-12	-6.28168E-12	
6-4.10727E-11	4.10727E-11	6.10635E-12	-6.88669E-12	
7 2.43499E-12	-2.43499E-12	7.61971E-12	-7.49796E-12	
8 1.67044E-11	-1.67044E-11	9.43399E-12	-9.32636E-12	
9 2.34462E-11	-2.34462E-11	9.84951E-12	-7.58581E-12	
10 8.70478E-12	-8.70478E-12	9.42614E-12	-8.43257E-12	
11-3.36974E-11	3.36974E-11	8.53332E-12	-1.02182E-11	
12 7.23598E-11	-7.23598E-11	1.04828E-11	-7.22865E-12	
13-2.60465E-12	2.60465E-12	7.53571E-12	-5.84695E-12	

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	188 di 401

RELAZIONE DI CALCOLO

14-6.05100E-11 6.05100E-11 6.99505E-12-9.65676E-12
 15-9.54049E-11 9.54049E-11 8.23246E-12-1.35484E-11
 16-9.51599E-11 9.51599E-11 1.31478E-11-1.73601E-11
 17-6.53245E-11 6.53245E-11 1.71618E-11-2.11556E-11
 18-8.24663E-11 8.24663E-11 1.96690E-11-2.34171E-11
 19-6.41423E-11 6.41423E-11 2.19715E-11-2.51786E-11
 20-7.73274E-11 7.73274E-11 2.52006E-11-2.87248E-11
 21-7.76314E-11 7.76314E-11 2.78100E-11-3.16915E-11
 22-4.89897E-11 4.89897E-11 2.98032E-11-3.22526E-11
 23-4.95970E-11 4.95970E-11 3.16727E-11-3.30611E-11
 24-7.66724E-11 7.66724E-11 3.32829E-11-3.62071E-11
 25-1.20416E-11 1.20416E-11 3.65429E-11-3.60536E-11
 26 4.23821E-11-4.23821E-11 3.72074E-11-3.83625E-11
 27 3.97377E-11-3.97377E-11 3.93461E-11-3.49946E-11
 28 1.71024E-11-1.71024E-11 3.51490E-11-3.42939E-11
 29 6.87061E-11-6.87061E-11 3.32806E-11-3.07548E-11
 30 3.09249E-11-3.09249E-11 3.16808E-11-2.75879E-11
 31 7.90315E-11-7.90315E-11 2.82382E-11-2.44686E-11
 32 5.24426E-11-5.24426E-11 2.44603E-11-2.20200E-11
 33-4.42851E-11 4.42851E-11 2.27678E-11-2.35860E-11
 34-6.83580E-11 6.83580E-11 2.51148E-11-2.61680E-11
 35-1.07819E-11 1.07819E-11 2.66807E-11-2.75836E-11
 36 1.77479E-11-1.77479E-11 2.86720E-11-2.72389E-11
 37-1.99306E-11 1.99306E-11 2.73165E-11-2.81311E-11
 38-5.18149E-11 5.18149E-11 2.73308E-11-2.99215E-11
 39-1.68290E-11 1.68290E-11 2.91871E-11-2.98467E-11
 40-3.92438E-11 3.92438E-11 2.87529E-11-3.07151E-11
 41 3.14048E-11-3.14048E-11 2.98091E-11-2.86027E-11
 42-2.85466E-11 2.85466E-11 2.92344E-11-3.06617E-11
 43-1.10036E-11 1.10036E-11 3.02544E-11-3.04407E-11
 44 6.19511E-11-6.19511E-11 3.17734E-11-2.83121E-11
 45 1.75113E-11-1.75113E-11 2.88500E-11-2.87020E-11
 46 1.27843E-11-1.27843E-11 2.96807E-11-2.79501E-11
 47-7.23664E-12 7.23664E-12 2.94077E-11-2.75867E-11
 48 4.82056E-11-4.82056E-11 2.99679E-11-2.64662E-11
 49 9.95856E-11-9.95856E-11 2.71862E-11-2.29346E-11
 50-3.67551E-12 3.67551E-12 2.27974E-11-2.17079E-11
 51 5.08660E-11-5.08660E-11 2.15842E-11-1.86771E-11
 52 7.99095E-11-7.99095E-11 1.93398E-11-1.58900E-11
 53 6.36787E-11-6.36787E-11 1.72503E-11-1.27931E-11
 54 1.80297E-11-1.80297E-11 1.27909E-11-1.07980E-11
 55 2.24924E-12-2.24924E-12 1.07089E-11-1.13240E-11
 56-3.97818E-11 3.97818E-11 1.12817E-11-1.29070E-11
 57-4.45480E-11 4.45480E-11 1.21758E-11-1.65756E-11
 58-1.19887E-10 1.19887E-10 1.55854E-11-2.06703E-11
 59-3.39509E-11 3.39509E-11 1.97462E-11-2.23532E-11
 60-4.38344E-11 4.38344E-11 2.28557E-11-2.61388E-11
 61-6.99810E-13 6.99810E-13 2.44841E-11-2.56104E-11
 62-7.69366E-11 7.69366E-11 2.50324E-11-2.72422E-11
 63-8.58014E-11 8.58014E-11 2.79770E-11-3.13575E-11
 64-7.85108E-11 7.85108E-11 3.20396E-11-3.59652E-11
 65-7.12232E-11 7.12232E-11 3.52534E-11-3.86326E-11
 66-2.35608E-11 2.35608E-11 3.79808E-11-3.95298E-11
 67-5.51246E-11 5.51246E-11 3.92809E-11-4.14915E-11
 68-7.09044E-12 7.09044E-12 4.20824E-11-4.13455E-11
 69-7.31679E-12 7.31679E-12 4.10478E-11-4.15956E-11
 70 6.65085E-11-6.65085E-11 3.96104E-11-3.81040E-11
 71 9.13993E-11-9.13993E-11 3.70542E-11-3.13929E-11
 72 2.78148E-11-2.78148E-11 2.99918E-11-3.00563E-11
 73 1.64141E-11-1.64141E-11 2.98625E-11-2.75866E-11
 74 9.72576E-11-9.72576E-11 2.83601E-11-2.33153E-11
 75 1.10744E-10-1.10744E-10 2.40980E-11-1.81970E-11
 76 1.54855E-10-1.54855E-10 1.75573E-11-1.12697E-11
 77 9.19685E-11-9.19685E-11 1.09309E-11-7.24199E-12
 78 3.44060E-11-3.44060E-11 7.02742E-12-5.04455E-12
 79 1.09835E-10-1.09835E-10 6.01425E-12 2.05077E-13
 80 1.65739E-10-1.65739E-10 3.38356E-14 7.34363E-12
 81 1.65304E-10-1.65304E-10-7.55254E-12 1.67272E-11
 82 1.38930E-10-1.38930E-10-1.64457E-11 2.34973E-11
 83 1.32524E-10-1.32524E-10-2.28327E-11 2.89132E-11
 84 6.86370E-11-6.86370E-11-2.86875E-11 3.17555E-11
 85-4.72587E-11 4.72587E-11-3.11648E-11 3.04389E-11
 86-5.97432E-12 5.97432E-12-3.08405E-11 3.01780E-11
 87 1.48264E-11-1.48264E-11-3.03725E-11 3.02044E-11
 88 7.68916E-11-7.68916E-11-2.91747E-11 3.35096E-11
 89 1.11498E-10-1.11498E-10-3.24600E-11 3.69435E-11
 90 7.40125E-11-7.40125E-11-3.64195E-11 3.99383E-11
 91 2.69999E-11-2.69999E-11-3.94465E-11 4.02508E-11
 92-4.27135E-12 4.27135E-12-3.94826E-11 4.10980E-11
 93-1.50368E-11 1.50368E-11-3.88846E-11 3.95556E-11
 94 2.31634E-11-2.31634E-11-3.87222E-11 4.16994E-11



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D.09CL	VI0100.004	A	189 di 401

RELAZIONE DI CALCOLO

95 1.91175E-12-1.91175E-12-4.16230E-11 4.04453E-11
96 2.86486E-11-2.86486E-11-4.22688E-11 4.27917E-11
97-6.93055E-11 6.93055E-11-4.23249E-11 3.99510E-11
98-2.95869E-11 2.95869E-11-4.00284E-11 3.72679E-11
99-1.24949E-11 1.24949E-11-3.81645E-11 3.82673E-11
100-2.02215E-12 2.02215E-12-3.82325E-11 3.81314E-11
101-6.83395E-11 6.83395E-11-3.87921E-11 3.42837E-11
102-9.99644E-11 9.99644E-11-3.48323E-11 2.85608E-11
103-3.27253E-11 3.27253E-11-2.77654E-11 2.54142E-11
104 2.34476E-11-2.34476E-11-2.51357E-11 2.43072E-11
105 4.33507E-11-4.33507E-11-2.56528E-11 2.60014E-11
106 1.01209E-11-1.01209E-11-2.55397E-11 2.80466E-11
107-9.09039E-11 9.09039E-11-2.66778E-11 2.39515E-11
108-8.39795E-11 8.39795E-11-2.35307E-11 1.84222E-11
109-1.39298E-10 1.39298E-10-1.83796E-11 1.23536E-11
110-1.08520E-10 1.08520E-10-1.13280E-11 6.44776E-12
111-1.46241E-10 1.46241E-10-6.07532E-12 5.82282E-13
112-1.36442E-10 1.36442E-10 3.00273E-14-7.21590E-12
113-1.43587E-10 1.43587E-10 6.82310E-12-1.36386E-11
114-1.49965E-10 1.49965E-10 1.41231E-11-2.08666E-11
115-2.78572E-11 2.78572E-11 2.14849E-11-2.16044E-11
116-5.32371E-11 5.32371E-11 2.29415E-11-2.68766E-11
117-8.20656E-11 8.20656E-11 2.61596E-11-3.13543E-11
118-5.63377E-11 5.63377E-11 3.24092E-11-3.43166E-11
119-2.91734E-11 2.91734E-11 3.43204E-11-3.59511E-11
120 4.21365E-11-4.21365E-11 3.61119E-11-3.23680E-11
121 4.70937E-11-4.70937E-11 3.21928E-11-3.11114E-11
122 4.71224E-12-4.71224E-12 3.11833E-11-3.31304E-11
123 3.37287E-11-3.37287E-11 3.31827E-11-3.00411E-11
124 1.04280E-10-1.04280E-10 2.99293E-11-2.56339E-11
125 1.88255E-10-1.88255E-10 2.46623E-11-1.52495E-11
126 1.23159E-10-1.23159E-10 1.61195E-11-9.59774E-12
127 2.44954E-11-2.44954E-11 8.53308E-12-7.49020E-12
128 3.85290E-11-3.85290E-11 7.43304E-12-6.96178E-12
129-7.42497E-13 7.42497E-13 5.68713E-12-4.99665E-12
130 8.20238E-11-8.20238E-11 4.81787E-12-1.27819E-12
131 1.16162E-10-1.16162E-10 1.08718E-12 4.90284E-12
132 4.53629E-11-4.53629E-11-6.39864E-12 8.12109E-12
133 6.11706E-11-6.11706E-11-8.62113E-12 1.00426E-11
134 3.07791E-11-3.07791E-11-1.00978E-11 1.07272E-11
135 3.03927E-11-3.03927E-11-1.09567E-11 1.17378E-11
136 5.39526E-11-5.39526E-11-1.08030E-11 1.47739E-11
137-7.65854E-12 7.65854E-12-1.46189E-11 1.25989E-11
138 2.69643E-11-2.69643E-11-1.28899E-11 1.33286E-11
139-4.38443E-11 4.38443E-11-1.37668E-11 1.15746E-11
140-3.15130E-11 3.15130E-11-1.32592E-11 1.34994E-11
141 1.22533E-10-1.22533E-10-1.37830E-11 1.88182E-11
142 3.83678E-11-3.83678E-11-1.81568E-11 2.00751E-11
143-5.29336E-11 5.29336E-11-1.95572E-11 1.72743E-11
144-6.52868E-11 6.52868E-11-1.73378E-11 1.35277E-11
145 5.24726E-11-5.24726E-11-1.40388E-11 1.64877E-11
146 7.09379E-11-7.09379E-11-1.73714E-11 1.98269E-11
147 3.95186E-11-3.95186E-11-1.93502E-11 2.22357E-11
148-5.65946E-11 5.65946E-11-2.22861E-11 2.09115E-11
149-3.23149E-11 3.23149E-11-2.16389E-11 1.85679E-11
150-7.56156E-11 7.56156E-11-1.92683E-11 1.51237E-11
151 6.75783E-12-6.75783E-12-1.41898E-11 1.70951E-11
152-2.13707E-11 2.13707E-11-1.58176E-11 1.56585E-11
153 3.25418E-11-3.25418E-11-1.52828E-11 1.67280E-11
154-7.16506E-11 7.16506E-11-1.60493E-11 1.24667E-11
155-1.17726E-10 1.17726E-10-1.28154E-11 6.20151E-12
156-4.37167E-11 4.37167E-11-7.69201E-12 4.62487E-12
157 6.85918E-12-6.85918E-12-5.34265E-12 5.68561E-12
158 1.97381E-11-1.97381E-11-7.49269E-12 5.93301E-12
159-1.62058E-11 1.62058E-11-7.12162E-12 7.58463E-12
160-7.67438E-11 7.67438E-11-6.97856E-12 3.32327E-12
161-3.20436E-11 3.20436E-11-2.76700E-12 1.74195E-12
162 1.03984E-11-1.03984E-11-1.03935E-12 1.55927E-12
163-6.97195E-11 6.97195E-11-8.58827E-13 1.01334E-13
164-7.13940E-11 7.13940E-11 6.29089E-13-4.19879E-12
165-1.01758E-10 1.01758E-10 3.88226E-12-8.60638E-12
166-3.58828E-11 3.58828E-11 9.53744E-12-1.18479E-11
167-5.04628E-11 5.04628E-11 1.04367E-11-1.55064E-11
168-1.22762E-11 1.22762E-11 1.47717E-11-1.32028E-11
169-4.38433E-11 4.38433E-11 1.26085E-11-1.38912E-11
170 1.28532E-11-1.28532E-11 1.37354E-11-1.16375E-11
171 1.88761E-12-1.88761E-12 1.13092E-11-1.01234E-11
172 2.47355E-11-2.47355E-11 1.01204E-11-7.95347E-12
173-3.40228E-11 3.40228E-11 8.04284E-12-1.02897E-11
174 1.36092E-11-1.36092E-11 1.07163E-11-9.49017E-12
175-2.37082E-12 2.37082E-12 8.93417E-12-8.50701E-12



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	190 di 401

RELAZIONE DI CALCOLO

176 6.70595E-11-6.70595E-11 8.69678E-12-5.34381E-12
 177 6.59942E-12-6.59942E-12 6.11793E-12-5.04455E-12
 178 3.35066E-11-3.35066E-11 3.77199E-12-3.36995E-12
 179-6.56289E-11 6.56289E-11 3.08986E-12-4.73422E-12
 180-8.23132E-11 8.23132E-11 3.84255E-12-9.59530E-12
 181-7.65854E-11 7.65854E-11 7.69726E-12-1.18903E-11
 182-7.60691E-11 7.60691E-11 1.14689E-11-1.61705E-11
 183-4.12822E-11 4.12822E-11 1.55010E-11-1.53823E-11
 184-9.60001E-12 9.60001E-12 1.65747E-11-1.77823E-11
 185-1.11595E-11 1.11595E-11 1.79433E-11-1.77736E-11
 186-9.47580E-12 9.47580E-12 1.70618E-11-1.86270E-11
 187-3.23311E-12 3.23311E-12 1.96520E-11-2.07226E-11
 188 7.76922E-13-7.76922E-13 2.11132E-11-2.14382E-11
 189-5.68806E-12 5.68806E-12 2.13693E-11-2.36546E-11
 190 3.04584E-11-3.04584E-11 2.33056E-11-2.06913E-11
 191-3.37856E-13 3.37856E-13 2.06096E-11-2.15360E-11
 192-1.27753E-11 1.27753E-11 2.13683E-11-2.09281E-11
 193 2.99511E-11-2.99511E-11 2.17207E-11-2.02232E-11
 194 2.78416E-11-2.78416E-11 2.18675E-11-1.90202E-11
 195 1.67098E-11-1.67098E-11 1.79833E-11-1.95125E-11
 196 5.05108E-11-5.05108E-11 1.86073E-11-1.64456E-11
 197 5.36543E-11-5.36543E-11 1.59919E-11-1.25815E-11
 198 9.07940E-11-9.07940E-11 1.13276E-11-6.44863E-12
 199 9.89620E-11-9.89620E-11 7.71266E-12-1.85507E-12
 200 6.88378E-11-6.88378E-11 2.28538E-12 2.32867E-14

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 336.8 REMNOR=0.1458E-21 RATIO =0.2412 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIOT=0.2412 RATOR= 0.000
 MAX UN= 2.373 IEQ= 129 NODE 65 DOF 1 Y-DISPL.F
 MIN UN=-.2381E-11 IEQ= 96 NODE 48 DOF 2 X-ROT. F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 67.34 REMNOR=0.2017E-20 RATIO =0.1079 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIOT=0.1079 RATOR= 0.000
 MAX UN= 1.189 IEQ= 79 NODE 40 DOF 1 Y-DISPL.F
 MIN UN=-.4340E-09 IEQ= 221 NODE 111 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 926.4 REMNOR=0.2545E-17 RATIO =0.4001 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIOT=0.4001 RATOR= 0.000
 MAX UN= 13.26 IEQ= 131 NODE 66 DOF 1 Y-DISPL.F
 MIN UN=-.2365E-07 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 787.5 REMNOR=0.5857E-17 RATIO =0.3689 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIOT=0.3689 RATOR= 0.000
 MAX UN= 12.30 IEQ= 181 NODE 91 DOF 1 Y-DISPL.F
 MIN UN=-.1549 IEQ= 235 NODE 118 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 497.8 REMNOR=0.5697E-17 RATIO =0.2933 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIOT=0.2933 RATOR= 0.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	191 di 401

RELAZIONE DI CALCOLO

MAX UN= 10.64 IEQ= 205 NODE 103 DOF 1 Y-DISPL.F
 MIN UN=-.7762 IEQ= 227 NODE 114 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 132.8 REMNOR=0.7850E-17 RATIO =0.1515 TOLER =0.1000E-03 NOT CONVERGED
 RFXMAX = 7.386 RMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.1515 RATOR= 0.000
 MAX UN= 5.552 IEQ= 229 NODE 115 DOF 1 Y-DISPL.F
 MIN UN=-.6633 IEQ= 247 NODE 124 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 7 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 13.26 REMNOR=0.5816E-17 RATIO =0.4787E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFXMAX = 7.386 RMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.4787E-01 RATOR= 0.000
 MAX UN= 2.205 IEQ= 245 NODE 123 DOF 1 Y-DISPL.F
 MIN UN=-.1885 IEQ= 269 NODE 135 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 8 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM=0.1419 REMNOR=0.4612E-17 RATIO =0.4951E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFXMAX = 7.386 RMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.4951E-02 RATOR= 0.000
 MAX UN=0.3428 IEQ= 229 NODE 115 DOF 1 Y-DISPL.F
 MIN UN=-.1837E-01 IEQ= 287 NODE 144 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 9 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM=0.2374E-13 REMNOR=0.4924E-17 RATIO =0.2025E-08 TOLER =0.1000E-03 CONVERGED !
 RFXMAX = 7.386 RMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.2025E-08 RATOR= 0.000
 MAX UN=0.4668E-07 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F
 MIN UN=-.4213E-07 IEQ= 39 NODE 20 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A1M1R1_926
 Exe Time :21 June 2016 11:57:45

paratia_mario
 SOLUTION REACHED USING 9 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F (02)	X-ROT. F (04)
1	5.9423760E-02	-1.2997294E-02
2	5.8773895E-02	-1.2997287E-02
3	5.8124032E-02	-1.2997251E-02
4	5.7474171E-02	-1.2997157E-02
5	5.6824317E-02	-1.2996973E-02
6	5.6174476E-02	-1.2996669E-02
7	5.5524653E-02	-1.2996210E-02
8	5.4874858E-02	-1.2995563E-02
9	5.4225101E-02	-1.2994693E-02
10	5.3575393E-02	-1.2993564E-02
11	5.2925748E-02	-1.2992139E-02

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	192 di 401

RELAZIONE DI CALCOLO

12	5.2276183E-02	-1.2990380E-02
13	5.1626716E-02	-1.2988247E-02
14	5.0977366E-02	-1.2985700E-02
15	5.0328154E-02	-1.2982698E-02
16	4.9679104E-02	-1.2979199E-02
17	4.9030243E-02	-1.2975160E-02
18	4.8381598E-02	-1.2970535E-02
19	4.7733198E-02	-1.2965280E-02
20	4.7085080E-02	-1.2959347E-02
21	4.6437278E-02	-1.2952690E-02
22	4.5789826E-02	-1.2945260E-02
23	4.5142766E-02	-1.2937007E-02
24	4.4496140E-02	-1.2927881E-02
25	4.3849993E-02	-1.2917829E-02
26	4.3204373E-02	-1.2906799E-02
27	4.2559331E-02	-1.2894737E-02
28	4.1914918E-02	-1.2881588E-02
29	4.1271191E-02	-1.2867297E-02
30	4.0628208E-02	-1.2851806E-02
31	3.9986031E-02	-1.2835058E-02
32	3.9344724E-02	-1.2816992E-02
33	3.8704355E-02	-1.2797550E-02
34	3.8065006E-02	-1.2776670E-02
35	3.7426726E-02	-1.2754290E-02
36	3.6789603E-02	-1.2730346E-02
37	3.6153718E-02	-1.2704775E-02
38	3.5519154E-02	-1.2677511E-02
39	3.4885996E-02	-1.2648487E-02
40	3.4254336E-02	-1.2617636E-02
41	3.3624264E-02	-1.2584890E-02
42	3.2995879E-02	-1.2550179E-02
43	3.2369280E-02	-1.2513433E-02
44	3.1744571E-02	-1.2474580E-02
45	3.1121859E-02	-1.2433547E-02
46	3.0501254E-02	-1.2390260E-02
47	2.9882872E-02	-1.2344646E-02
48	2.9266830E-02	-1.2296627E-02
49	2.8653250E-02	-1.2246128E-02
50	2.8042259E-02	-1.2193071E-02
51	2.7433987E-02	-1.2137375E-02
52	2.6828567E-02	-1.2078963E-02
53	2.6226138E-02	-1.2017751E-02
54	2.5626840E-02	-1.1953659E-02
55	2.5030821E-02	-1.1886603E-02
56	2.4438231E-02	-1.1816499E-02
57	2.3849223E-02	-1.1743263E-02
58	2.3263970E-02	-1.1666808E-02
59	2.2682609E-02	-1.1587045E-02
60	2.2105322E-02	-1.1503887E-02
61	2.1532279E-02	-1.1417245E-02
62	2.0963657E-02	-1.1327027E-02
63	2.0399637E-02	-1.1233144E-02
64	1.9840405E-02	-1.1135501E-02
65	1.9286151E-02	-1.1034006E-02
66	1.8737070E-02	-1.0928564E-02
67	1.8193361E-02	-1.0819134E-02
68	1.7655223E-02	-1.0705732E-02
69	1.7122854E-02	-1.0588381E-02
70	1.6596450E-02	-1.0467115E-02
71	1.6076207E-02	-1.0341971E-02
72	1.5562317E-02	-1.0212998E-02
73	1.5054970E-02	-1.0080251E-02
74	1.4554354E-02	-9.9437913E-03
75	1.4060652E-02	-9.8036899E-03
76	1.3574044E-02	-9.6600247E-03
77	1.3094707E-02	-9.5128815E-03
78	1.2622812E-02	-9.3623535E-03
79	1.2158536E-02	-9.2085450E-03
80	1.1702020E-02	-9.0515587E-03
81	1.1253431E-02	-8.8915141E-03
82	1.0812918E-02	-8.7285354E-03
83	1.0380615E-02	-8.5627492E-03
84	9.9566785E-03	-8.3942956E-03
85	9.5412281E-03	-8.2233086E-03
86	9.1343875E-03	-8.0499290E-03
87	8.7362727E-03	-7.8743012E-03
88	8.3469924E-03	-7.6965734E-03
89	7.9666403E-03	-7.5168937E-03
90	7.5953252E-03	-7.3354249E-03
91	7.2331250E-03	-7.1523224E-03
92	6.8801175E-03	-6.9677488E-03



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	193 di 401

RELAZIONE DI CALCOLO

93	6.5363719E-03	-6.7818707E-03
94	6.2019427E-03	-6.5948542E-03
95	5.8768957E-03	-6.4068806E-03
96	5.5612677E-03	-6.2181234E-03
97	5.2550934E-03	-6.0287636E-03
98	4.9583983E-03	-5.8389859E-03
99	4.6711930E-03	-5.6489746E-03
100	4.3934957E-03	-5.4589294E-03
101	4.1252974E-03	-5.2690420E-03
102	3.8665855E-03	-5.0795115E-03
103	3.6173369E-03	-4.8905410E-03
104	3.3775139E-03	-4.7023331E-03
105	3.1470825E-03	-4.5151056E-03
106	2.9259835E-03	-4.3290684E-03
107	2.7141522E-03	-4.1444391E-03
108	2.5115125E-03	-3.9614388E-03
109	2.3179774E-03	-3.7802922E-03
110	2.1334449E-03	-3.6012242E-03
111	1.9578126E-03	-3.4244740E-03
112	1.7909550E-03	-3.2502737E-03
113	1.6327388E-03	-3.0788627E-03
114	1.4830182E-03	-2.9104840E-03
115	1.3416330E-03	-2.7453809E-03
116	1.2084184E-03	-2.5838104E-03
117	1.0831889E-03	-2.4260181E-03
118	9.6574975E-04	-2.2722369E-03
119	8.5589492E-04	-2.1226758E-03
120	7.5340675E-04	-1.9775180E-03
121	6.5806482E-04	-1.8369341E-03
122	5.6963474E-04	-1.7010664E-03
123	4.8787746E-04	-1.5700417E-03
124	4.1254802E-04	-1.4439700E-03
125	3.4339502E-04	-1.3229431E-03
126	2.8016681E-04	-1.2070460E-03
127	2.2260386E-04	-1.0963428E-03
128	1.7044505E-04	-9.9088791E-04
129	1.2342694E-04	-8.9072053E-04
130	8.1284570E-05	-7.9585904E-04
131	4.3752060E-05	-7.0629198E-04
132	1.0566951E-05	-6.2198424E-04
133	-1.8532911E-05	-5.4286930E-04
134	-4.3805062E-05	-4.6885935E-04
135	-6.5502125E-05	-3.9984614E-04
136	-8.3871199E-05	-3.3570292E-04
137	-9.9151680E-05	-2.7629281E-04
138	-1.1157683E-04	-2.2146341E-04
139	-1.2137168E-04	-1.7105382E-04
140	-1.2875305E-04	-1.2489509E-04
141	-1.3392920E-04	-8.2810973E-05
142	-1.3709919E-04	-4.4622675E-05
143	-1.3845331E-04	-1.0145127E-05
144	-1.3817244E-04	2.0808336E-05
145	-1.3642809E-04	4.8425389E-05
146	-1.3338231E-04	7.2893811E-05
147	-1.2918804E-04	9.4398746E-05
148	-1.2398875E-04	1.1312491E-04
149	-1.1791883E-04	1.2925396E-04
150	-1.1110367E-04	1.4296440E-04
151	-1.0365979E-04	1.5443110E-04
152	-9.5694944E-05	1.6382484E-04
153	-8.7308945E-05	1.7131070E-04
154	-7.8593011E-05	1.7704836E-04
155	-6.9630692E-05	1.8119107E-04
156	-6.0499040E-05	1.8388559E-04
157	-5.1263747E-05	1.8527214E-04
158	-4.1990218E-05	1.8548412E-04
159	-3.2732798E-05	1.8464832E-04
160	-2.3540850E-05	1.8288470E-04
161	-1.4457904E-05	1.8030651E-04
162	-5.5218220E-06	1.7702025E-04
163	3.2341676E-06	1.7312607E-04
164	1.1782211E-05	1.6871747E-04
165	2.0098795E-05	1.6388169E-04
166	2.8164612E-05	1.5869983E-04
167	3.5964415E-05	1.5324691E-04
168	4.3486102E-05	1.4759247E-04
169	5.0721365E-05	1.4180015E-04
170	5.7664791E-05	1.3592830E-04
171	6.4313756E-05	1.3003010E-04
172	7.0668166E-05	1.2415376E-04
173	7.6730339E-05	1.1834264E-04



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	194 di 401

RELAZIONE DI CALCOLO

174	8.2504291E-05	1.1263587E-04
175	8.7996241E-05	1.0706796E-04
176	9.3213909E-05	1.0166936E-04
177	9.8166442E-05	9.6466644E-05
178	1.0286431E-04	9.1482537E-05
179	1.0731876E-04	8.6736538E-05
180	1.1154220E-04	8.2244487E-05
181	1.1554765E-04	7.8019142E-05
182	1.1934872E-04	7.4070244E-05
183	1.2295947E-04	7.0404594E-05
184	1.2639404E-04	6.7026488E-05
185	1.2966694E-04	6.3937407E-05
186	1.3279259E-04	6.1136441E-05
187	1.3578533E-04	5.8620325E-05
188	1.3865933E-04	5.6383497E-05
189	1.4142826E-04	5.4418363E-05
190	1.4410553E-04	5.2715111E-05
191	1.4670394E-04	5.1261969E-05
192	1.4923567E-04	5.0045212E-05
193	1.5171219E-04	4.9049209E-05
194	1.5414403E-04	4.8256531E-05
195	1.5654091E-04	4.7647875E-05
196	1.5891153E-04	4.7202177E-05
197	1.6126347E-04	4.6896609E-05
198	1.6360312E-04	4.6706599E-05
199	1.6593566E-04	4.6605839E-05
200	1.6826477E-04	4.6566299E-05
201	1.7059188E-04	4.6558225E-05

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.ALMI1R1_926
Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 1

0 L
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL + UFACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
1 D	0.2600	-5.9424E-02	57.00	10.40	57.00	33.82	ACTIVE	0.000	0.000	0.000	1.000
1.000	10.40	0.000	0.000	5AL_158_160_L_0							
2 D	0.5392	-5.8774E-02	57.95	10.78	57.95	34.38	ACTIVE	0.000	-5.0000E-02	0.000	1.000
1.000	10.78	0.000	0.000	5AL_158_160_L_0							
3 D	0.5585	-5.8124E-02	58.90	11.17	58.90	34.95	ACTIVE	0.000	-0.1000	0.000	1.000
1.000	11.17	0.000	0.000	5AL_158_160_L_0							
4 D	0.5778	-5.7474E-02	59.85	11.56	59.85	35.51	ACTIVE	0.000	-0.1500	0.000	1.000
1.000	11.56	0.000	0.000	5AL_158_160_L_0							
5 D	0.5971	-5.6824E-02	60.80	11.94	60.80	36.07	ACTIVE	0.000	-0.2000	0.000	1.000
1.000	11.94	0.000	0.000	5AL_158_160_L_0							
6 D	0.6163	-5.6174E-02	61.75	12.33	61.75	36.64	ACTIVE	0.000	-0.2500	0.000	1.000
1.000	12.33	0.000	0.000	5AL_158_160_L_0							
7 D	0.6356	-5.5525E-02	62.70	12.71	62.70	37.20	ACTIVE	0.000	-0.3000	0.000	1.000
1.000	12.71	0.000	0.000	5AL_158_160_L_0							
8 D	0.6549	-5.4875E-02	63.65	13.10	63.65	37.76	ACTIVE	0.000	-0.3500	0.000	1.000
1.000	13.10	0.000	0.000	5AL_158_160_L_0							
9 D	0.6742	-5.4225E-02	64.60	13.48	64.60	38.33	ACTIVE	0.000	-0.4000	0.000	1.000
1.000	13.48	0.000	0.000	5AL_158_160_L_0							
10 D	0.6935	-5.3575E-02	65.55	13.87	65.55	38.89	ACTIVE	0.000	-0.4500	0.000	1.000
1.000	13.87	0.000	0.000	5AL_158_160_L_0							
11 D	0.7128	-5.2926E-02	66.50	14.26	66.50	39.45	ACTIVE	0.000	-0.5000	0.000	1.000
1.000	14.26	0.000	0.000	5AL_158_160_L_0							
12 D	0.7321	-5.2276E-02	67.45	14.64	67.45	40.02	ACTIVE	0.000	-0.5500	0.000	1.000
1.000	14.64	0.000	0.000	5AL_158_160_L_0							
13 D	0.7513	-5.1627E-02	68.40	15.03	68.40	40.58	ACTIVE	0.000	-0.6000	0.000	1.000
1.000	15.03	0.000	0.000	5AL_158_160_L_0							
14 D	0.7706	-5.0977E-02	69.35	15.41	69.35	41.15	ACTIVE	0.000	-0.6500	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	195 di 401

1.000	15.41	0.000	0.000	5AL_158_160_L_0							
15 D	0.7899	-5.0328E-02	70.30	15.80	70.30	41.71	ACTIVE	0.000	-0.7000	0.000	1.000
1.000	15.80	0.000	0.000	5AL_158_160_L_0							
16 D	0.8092	-4.9679E-02	71.25	16.18	71.25	42.27	ACTIVE	0.000	-0.7500	0.000	1.000
1.000	16.18	0.000	0.000	5AL_158_160_L_0							
17 D	0.8285	-4.9030E-02	72.20	16.57	72.20	42.84	ACTIVE	0.000	-0.8000	0.000	1.000
1.000	16.57	0.000	0.000	5AL_158_160_L_0							
18 D	0.8478	-4.8382E-02	73.15	16.96	73.15	43.40	ACTIVE	0.000	-0.8500	0.000	1.000
1.000	16.96	0.000	0.000	5AL_158_160_L_0							
19 D	0.8670	-4.7733E-02	74.10	17.34	74.10	43.96	ACTIVE	0.000	-0.9000	0.000	1.000
1.000	17.34	0.000	0.000	5AL_158_160_L_0							
20 D	0.8863	-4.7085E-02	75.05	17.73	75.05	44.53	ACTIVE	0.000	-0.9500	0.000	1.000
1.000	17.73	0.000	0.000	5AL_158_160_L_0							
21 D	0.9056	-4.6437E-02	76.00	18.11	76.00	45.09	ACTIVE	0.000	-1.0000	0.000	1.000
1.000	18.11	0.000	0.000	5AL_158_160_L_0							
22 D	0.9249	-4.5790E-02	76.95	18.50	76.95	45.65	ACTIVE	0.000	-1.0500	0.000	1.000
1.000	18.50	0.000	0.000	5AL_158_160_L_0							
23 D	0.9442	-4.5143E-02	77.90	18.88	77.90	46.22	ACTIVE	0.000	-1.1000	0.000	1.000
1.000	18.88	0.000	0.000	5AL_158_160_L_0							
24 D	0.9635	-4.4496E-02	78.85	19.27	78.85	46.78	ACTIVE	0.000	-1.1500	0.000	1.000
1.000	19.27	0.000	0.000	5AL_158_160_L_0							
25 D	0.9828	-4.3850E-02	79.80	19.66	79.80	47.35	ACTIVE	0.000	-1.2000	0.000	1.000
1.000	19.66	0.000	0.000	5AL_158_160_L_0							
26 D	1.002	-4.3204E-02	80.75	20.04	80.75	47.91	ACTIVE	0.000	-1.2500	0.000	1.000
1.000	20.04	0.000	0.000	5AL_158_160_L_0							
27 D	1.021	-4.2559E-02	81.70	20.43	81.70	48.47	ACTIVE	0.000	-1.3000	0.000	1.000
1.000	20.43	0.000	0.000	5AL_158_160_L_0							
28 D	1.041	-4.1915E-02	82.65	20.81	82.65	49.04	ACTIVE	0.000	-1.3500	0.000	1.000
1.000	20.81	0.000	0.000	5AL_158_160_L_0							
29 D	1.060	-4.1271E-02	83.60	21.20	83.60	49.60	ACTIVE	0.000	-1.4000	0.000	1.000
1.000	21.20	0.000	0.000	5AL_158_160_L_0							
30 D	1.079	-4.0628E-02	84.55	21.58	84.55	50.16	ACTIVE	0.000	-1.4500	0.000	1.000
1.000	21.58	0.000	0.000	5AL_158_160_L_0							
31 D	1.098	-3.9986E-02	85.50	21.97	85.50	50.73	ACTIVE	0.000	-1.5000	0.000	1.000
1.000	21.97	0.000	0.000	5AL_158_160_L_0							
32 D	1.118	-3.9345E-02	86.45	22.36	86.45	51.29	ACTIVE	0.000	-1.5500	0.000	1.000
1.000	22.36	0.000	0.000	5AL_158_160_L_0							
33 D	1.137	-3.8704E-02	87.40	22.74	87.40	51.85	ACTIVE	0.000	-1.6000	0.000	1.000
1.000	22.74	0.000	0.000	5AL_158_160_L_0							
34 D	1.156	-3.8065E-02	88.35	23.13	88.35	52.42	ACTIVE	0.000	-1.6500	0.000	1.000
1.000	23.13	0.000	0.000	5AL_158_160_L_0							
35 D	1.176	-3.7427E-02	89.30	23.51	89.30	52.98	ACTIVE	0.000	-1.7000	0.000	1.000
1.000	23.51	0.000	0.000	5AL_158_160_L_0							
36 D	1.195	-3.6790E-02	90.25	23.90	90.25	53.55	ACTIVE	0.000	-1.7500	0.000	1.000
1.000	23.90	0.000	0.000	5AL_158_160_L_0							
37 D	1.214	-3.6154E-02	91.20	24.28	91.20	54.11	ACTIVE	0.000	-1.8000	0.000	1.000
1.000	24.28	0.000	0.000	5AL_158_160_L_0							
38 D	1.233	-3.5519E-02	92.15	24.67	92.15	54.67	ACTIVE	0.000	-1.8500	0.000	1.000
1.000	24.67	0.000	0.000	5AL_158_160_L_0							
39 D	1.253	-3.4886E-02	93.10	25.05	93.10	55.24	ACTIVE	0.000	-1.9000	0.000	1.000
1.000	25.05	0.000	0.000	5AL_158_160_L_0							
40 D	1.272	-3.4254E-02	94.05	25.44	94.05	55.80	ACTIVE	0.000	-1.9500	0.000	1.000
1.000	25.44	0.000	0.000	5AL_158_160_L_0							
41 D	1.291	-3.3624E-02	95.00	25.83	95.00	56.36	ACTIVE	0.000	-2.0000	0.000	1.000
1.000	25.83	0.000	0.000	5AL_158_160_L_0							
42 D	1.311	-3.2996E-02	95.95	26.21	95.95	56.93	ACTIVE	0.000	-2.0500	0.000	1.000
1.000	26.21	0.000	0.000	5AL_158_160_L_0							
43 D	1.330	-3.2369E-02	96.90	26.60	96.90	57.49	ACTIVE	0.000	-2.1000	0.000	1.000
1.000	26.60	0.000	0.000	5AL_158_160_L_0							
44 D	1.349	-3.1745E-02	97.85	26.98	97.85	58.05	ACTIVE	0.000	-2.1500	0.000	1.000
1.000	26.98	0.000	0.000	5AL_158_160_L_0							
45 D	1.368	-3.1122E-02	98.80	27.37	98.80	58.62	ACTIVE	0.000	-2.2000	0.000	1.000
1.000	27.37	0.000	0.000	5AL_158_160_L_0							
46 D	1.388	-3.0501E-02	99.75	27.75	99.75	59.18	ACTIVE	0.000	-2.2500	0.000	1.000
1.000	27.75	0.000	0.000	5AL_158_160_L_0							
47 D	1.407	-2.9883E-02	100.7	28.14	100.7	59.75	ACTIVE	0.000	-2.3000	0.000	1.000
1.000	28.14	0.000	0.000	5AL_158_160_L_0							
48 D	1.426	-2.9267E-02	101.6	28.53	101.6	60.31	ACTIVE	0.000	-2.3500	0.000	1.000
1.000	28.53	0.000	0.000	5AL_158_160_L_0							
49 D	1.446	-2.8653E-02	102.6	28.91	102.6	60.87	ACTIVE	0.000	-2.4000	0.000	1.000
1.000	28.91	0.000	0.000	5AL_158_160_L_0							
50 D	1.465	-2.8042E-02	103.5	29.30	103.5	61.44	ACTIVE	0.000	-2.4500	0.000	1.000
1.000	29.30	0.000	0.000	5AL_158_160_L_0							
51 D	1.484	-2.7434E-02	104.5	29.68	104.5	62.00	ACTIVE	0.000	-2.5000	0.000	1.000
1.000	29.68	0.000	0.000	5AL_158_160_L_0							
52 D	1.503	-2.6829E-02	105.4	30.07	105.4	62.56	ACTIVE	0.000	-2.5500	0.000	1.000
1.000	30.07	0.000	0.000	5AL_158_160_L_0							
53 D	1.523	-2.6226E-02	106.4	30.45	106.4	63.13	ACTIVE	0.000	-2.6000	0.000	1.000
1.000	30.45	0.000	0.000	5AL_158_160_L_0							
54 D	1.542	-2.5627E-02	107.3	30.84	107.3	63.69	ACTIVE	0.000	-2.6500	0.000	1.000
1.000	30.84	0.000	0.000	5AL_158_160_L_0							

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	196 di 401

55 D	1.561	-2.5031E-02	108.3	31.23	108.3	64.25	ACTIVE	0.000	-2.700	0.000	1.000
1.000	31.23	0.000	0.000	SAL_158_160_L_0							
56 D	1.581	-2.4438E-02	109.2	31.61	109.2	64.82	ACTIVE	0.000	-2.750	0.000	1.000
1.000	31.61	0.000	0.000	SAL_158_160_L_0							
57 D	1.600	-2.3849E-02	110.2	32.00	110.2	65.38	ACTIVE	0.000	-2.800	0.000	1.000
1.000	32.00	0.000	0.000	SAL_158_160_L_0							
58 D	1.619	-2.3264E-02	111.1	32.38	111.1	65.95	ACTIVE	0.000	-2.850	0.000	1.000
1.000	32.38	0.000	0.000	SAL_158_160_L_0							
59 D	1.638	-2.2683E-02	112.1	32.77	112.1	66.51	ACTIVE	0.000	-2.900	0.000	1.000
1.000	32.77	0.000	0.000	SAL_158_160_L_0							
60 D	1.658	-2.2105E-02	113.0	33.15	113.0	67.07	ACTIVE	0.000	-2.950	0.000	1.000
1.000	33.15	0.000	0.000	SAL_158_160_L_0							
61 D	1.677	-2.1532E-02	114.0	33.54	114.0	67.64	ACTIVE	0.000	-3.000	0.000	1.000
1.000	33.54	0.000	0.000	SAL_158_160_L_0							
62 D	1.696	-2.0964E-02	114.9	33.93	114.9	68.20	ACTIVE	0.000	-3.050	0.000	1.000
1.000	33.93	0.000	0.000	SAL_158_160_L_0							
63 D	1.716	-2.0400E-02	115.9	34.31	115.9	68.76	ACTIVE	0.000	-3.100	0.000	1.000
1.000	34.31	0.000	0.000	SAL_158_160_L_0							
64 D	1.735	-1.9840E-02	116.8	34.70	116.8	69.33	ACTIVE	0.000	-3.150	0.000	1.000
1.000	34.70	0.000	0.000	SAL_158_160_L_0							
65 D	1.754	-1.9286E-02	117.8	35.08	117.8	69.89	ACTIVE	0.000	-3.200	0.000	1.000
1.000	35.08	0.000	0.000	SAL_158_160_L_0							
66 D	1.773	-1.8737E-02	118.7	35.47	118.7	70.45	ACTIVE	0.000	-3.250	0.000	1.000
1.000	35.47	0.000	0.000	SAL_158_160_L_0							
67 D	1.793	-1.8193E-02	119.7	35.85	119.7	71.02	ACTIVE	0.000	-3.300	0.000	1.000
1.000	35.85	0.000	0.000	SAL_158_160_L_0							
68 D	1.812	-1.7655E-02	120.6	36.24	120.6	71.58	ACTIVE	0.000	-3.350	0.000	1.000
1.000	36.24	0.000	0.000	SAL_158_160_L_0							
69 D	1.831	-1.7123E-02	121.6	36.63	121.6	72.15	ACTIVE	0.000	-3.400	0.000	1.000
1.000	36.63	0.000	0.000	SAL_158_160_L_0							
70 D	1.851	-1.6596E-02	122.5	37.01	122.5	72.71	ACTIVE	0.000	-3.450	0.000	1.000
1.000	37.01	0.000	0.000	SAL_158_160_L_0							
71 D	1.870	-1.6076E-02	123.5	37.40	123.5	73.27	ACTIVE	0.000	-3.500	0.000	1.000
1.000	37.40	0.000	0.000	SAL_158_160_L_0							
72 D	1.889	-1.5562E-02	124.4	37.78	124.4	73.84	ACTIVE	0.000	-3.550	0.000	1.000
1.000	37.78	0.000	0.000	SAL_158_160_L_0							
73 D	1.908	-1.5055E-02	125.4	38.17	125.4	74.40	ACTIVE	0.000	-3.600	0.000	1.000
1.000	38.17	0.000	0.000	SAL_158_160_L_0							
74 D	1.928	-1.4554E-02	126.3	38.55	126.3	74.96	ACTIVE	0.000	-3.650	0.000	1.000
1.000	38.55	0.000	0.000	SAL_158_160_L_0							
75 D	1.947	-1.4061E-02	127.3	38.94	127.3	75.53	ACTIVE	0.000	-3.700	0.000	1.000
1.000	38.94	0.000	0.000	SAL_158_160_L_0							
76 D	1.966	-1.3574E-02	128.2	39.33	128.2	76.09	ACTIVE	0.000	-3.750	0.000	1.000
1.000	39.33	0.000	0.000	SAL_158_160_L_0							
77 D	1.986	-1.3095E-02	129.2	39.71	129.2	76.65	ACTIVE	0.000	-3.800	0.000	1.000
1.000	39.71	0.000	0.000	SAL_158_160_L_0							
78 D	2.005	-1.2623E-02	130.1	40.10	130.1	77.22	ACTIVE	0.000	-3.850	0.000	1.000
1.000	40.10	0.000	0.000	SAL_158_160_L_0							
79 D	2.024	-1.2159E-02	131.1	40.48	131.1	77.78	ACTIVE	0.000	-3.900	0.000	1.000
1.000	40.48	0.000	0.000	SAL_158_160_L_0							
80 D	2.043	-1.1702E-02	132.0	40.87	132.0	78.35	ACTIVE	0.000	-3.950	0.000	1.000
1.000	40.87	0.000	0.000	SAL_158_160_L_0							
81 D	2.063	-1.1253E-02	133.0	41.25	133.0	78.91	ACTIVE	0.000	-4.000	0.000	1.000
1.000	41.25	0.000	0.000	SAL_158_160_L_0							
82 D	2.097	-1.0813E-02	133.4	41.44	133.4	79.18	ACTIVE	0.000	-4.050	0.5000	1.000
1.000	41.44	0.000	0.000	SAL_158_160_L_0							
83 D	2.131	-1.0381E-02	133.9	41.62	133.9	79.44	ACTIVE	0.000	-4.100	1.000	1.000
1.000	41.62	0.000	0.000	SAL_158_160_L_0							
84 D	2.165	-9.9567E-03	134.3	41.80	134.3	79.71	ACTIVE	0.000	-4.150	1.500	1.000
1.000	41.80	0.000	0.000	SAL_158_160_L_0							
85 D	2.199	-9.5412E-03	134.8	41.99	134.8	79.98	ACTIVE	0.000	-4.200	2.000	1.000
1.000	41.99	0.000	0.000	SAL_158_160_L_0							
86 D	2.233	-9.1344E-03	135.2	42.17	135.2	80.24	ACTIVE	0.000	-4.250	2.500	1.000
1.000	42.17	0.000	0.000	SAL_158_160_L_0							
87 D	2.268	-8.7363E-03	135.7	42.35	135.7	80.51	ACTIVE	0.000	-4.300	3.000	1.000
1.000	42.35	0.000	0.000	SAL_158_160_L_0							
88 D	2.302	-8.3470E-03	136.1	42.53	136.1	80.78	ACTIVE	0.000	-4.350	3.500	1.000
1.000	42.53	0.000	0.000	SAL_158_160_L_0							
89 D	2.336	-7.9666E-03	136.6	42.72	136.6	81.04	ACTIVE	0.000	-4.400	4.000	1.000
1.000	42.72	0.000	0.000	SAL_158_160_L_0							
90 D	2.370	-7.5953E-03	137.0	42.90	137.0	81.31	ACTIVE	0.000	-4.450	4.500	1.000
1.000	42.90	0.000	0.000	SAL_158_160_L_0							
91 D	2.404	-7.2331E-03	137.5	43.08	137.5	81.58	ACTIVE	0.000	-4.500	5.000	1.000
1.000	43.08	0.000	0.000	SAL_158_160_L_0							
92 D	2.438	-6.8801E-03	137.9	43.26	137.9	81.85	ACTIVE	0.000	-4.550	5.500	1.000
1.000	43.26	0.000	0.000	SAL_158_160_L_0							
93 D	2.472	-6.5364E-03	138.4	43.45	138.4	82.11	ACTIVE	0.000	-4.600	6.000	1.000
1.000	43.45	0.000	0.000	SAL_158_160_L_0							
94 D	2.506	-6.2019E-03	138.9	43.63	138.9	82.38	ACTIVE	0.000	-4.650	6.500	1.000
1.000	43.63	0.000	0.000	SAL_158_160_L_0							
95 D	2.541	-5.8769E-03	139.3	43.81	139.3	82.65	ACTIVE	0.000	-4.700	7.000	1.000
1.000	43.81	0.000	0.000	SAL_158_160_L_0							

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	197 di 401

1.000	50.81	0.000	0.000	5AL_158_160_L_0							
96 D	2.575	-5.5613E-03	139.8	43.99	139.8	82.91	ACTIVE	0.000	-4.750	7.500	1.000
1.000	51.49	0.000	0.000	5AL_158_160_L_0							
97 D	2.609	-5.2551E-03	140.2	44.18	140.2	83.18	ACTIVE	0.000	-4.800	8.000	1.000
1.000	52.18	0.000	0.000	5AL_158_160_L_0							
98 D	2.643	-4.9584E-03	140.6	44.36	140.6	83.45	ACTIVE	0.000	-4.850	8.500	1.000
1.000	52.86	0.000	0.000	5AL_158_160_L_0							
99 D	2.677	-4.6712E-03	141.1	44.54	141.1	83.71	ACTIVE	0.000	-4.900	9.000	1.000
1.000	53.54	0.000	0.000	5AL_158_160_L_0							
100 D	2.711	-4.3935E-03	141.6	44.73	141.6	83.98	ACTIVE	0.000	-4.950	9.500	1.000
1.000	54.23	0.000	0.000	5AL_158_160_L_0							
101 D	2.745	-4.1253E-03	142.0	44.91	142.0	84.25	ACTIVE	0.000	-5.000	10.00	1.000
1.000	54.91	0.000	0.000	5AL_158_160_L_0							
102 D	2.780	-3.8666E-03	142.5	45.09	142.5	84.52	ACTIVE	0.000	-5.050	10.50	1.000
1.000	55.59	0.000	0.000	5AL_158_160_L_0							
103 D	2.814	-3.6173E-03	142.9	45.27	142.9	84.78	ACTIVE	0.000	-5.100	11.00	1.000
1.000	56.27	0.000	0.000	5AL_158_160_L_0							
104 D	2.848	-3.3775E-03	143.4	45.46	143.4	85.05	ACTIVE	0.000	-5.150	11.50	1.000
1.000	56.96	0.000	0.000	5AL_158_160_L_0							
105 D	2.882	-3.1471E-03	143.8	45.64	143.8	85.32	ACTIVE	0.000	-5.200	12.00	1.000
1.000	57.64	0.000	0.000	5AL_158_160_L_0							
106 D	2.916	-2.9260E-03	144.3	45.82	144.3	85.58	ACTIVE	0.000	-5.250	12.50	1.000
1.000	58.32	0.000	0.000	5AL_158_160_L_0							
107 D	2.950	-2.7142E-03	144.7	46.00	144.7	85.85	ACTIVE	0.000	-5.300	13.00	1.000
1.000	59.00	0.000	0.000	5AL_158_160_L_0							
108 D	2.984	-2.5115E-03	145.2	46.19	145.2	86.12	ACTIVE	0.000	-5.350	13.50	1.000
1.000	59.69	0.000	0.000	5AL_158_160_L_0							
109 D	3.019	-2.3180E-03	145.6	46.37	145.6	86.38	ACTIVE	0.000	-5.400	14.00	1.000
1.000	60.37	0.000	0.000	5AL_158_160_L_0							
110 D	3.053	-2.1334E-03	146.1	46.55	146.1	86.65	ACTIVE	0.000	-5.450	14.50	1.000
1.000	61.05	0.000	0.000	5AL_158_160_L_0							
111 D	3.087	-1.9578E-03	146.5	46.74	146.5	87.10	ACTIVE	0.000	-5.500	15.00	1.000
1.000	61.74	0.000	0.000	5AL_158_160_L_0							
112 D	3.121	-1.7910E-03	147.0	46.92	147.0	88.82	ACTIVE	0.000	-5.550	15.50	1.000
1.000	62.42	0.000	0.000	5AL_158_160_L_0							
113 D	3.155	-1.6327E-03	147.4	47.10	147.4	90.26	ACTIVE	0.000	-5.600	16.00	1.000
1.000	63.10	0.000	0.000	5AL_158_160_L_0							
114 D	3.189	-1.4830E-03	147.9	47.28	147.9	91.43	ACTIVE	0.000	-5.650	16.50	1.000
1.000	63.78	0.000	0.000	5AL_158_160_L_0							
115 D	3.223	-1.3416E-03	148.3	47.47	148.3	92.37	ACTIVE	0.000	-5.700	17.00	1.000
1.000	64.47	0.000	0.000	5AL_158_160_L_0							
116 D	3.257	-1.2084E-03	148.8	47.65	148.8	93.09	ACTIVE	0.000	-5.750	17.50	1.000
1.000	65.15	0.000	0.000	5AL_158_160_L_0							
117 D	3.292	-1.0832E-03	149.2	47.83	149.2	93.61	ACTIVE	0.000	-5.800	18.00	1.000
1.000	65.83	0.000	0.000	5AL_158_160_L_0							
118 D	3.326	-9.6575E-04	149.7	48.01	149.7	93.95	ACTIVE	0.000	-5.850	18.50	1.000
1.000	66.51	0.000	0.000	5AL_158_160_L_0							
119 D	3.360	-8.5589E-04	150.1	48.20	150.1	94.13	ACTIVE	0.000	-5.900	19.00	1.000
1.000	67.20	0.000	0.000	5AL_158_160_L_0							
120 D	3.394	-7.5341E-04	150.6	48.38	150.6	94.17	ACTIVE	0.000	-5.950	19.50	1.000
1.000	67.88	0.000	0.000	5AL_158_160_L_0							
121 D	3.428	-6.5806E-04	151.0	48.56	151.0	94.08	ACTIVE	0.000	-6.000	20.00	1.000
1.000	68.56	0.000	0.000	5AL_158_160_L_0							
122 D	3.462	-5.6963E-04	151.5	48.75	151.5	93.88	ACTIVE	0.000	-6.050	20.50	1.000
1.000	69.25	0.000	0.000	5AL_158_160_L_0							
123 D	3.496	-4.8788E-04	151.9	48.93	151.9	93.58	ACTIVE	0.000	-6.100	21.00	1.000
1.000	69.93	0.000	0.000	5AL_158_160_L_0							
124 D	3.531	-4.1255E-04	152.4	49.11	152.4	94.81	ACTIVE	0.000	-6.150	21.50	1.000
1.000	70.61	0.000	0.000	5AL_158_160_L_0							
125 D	3.565	-3.4340E-04	152.8	49.29	152.8	96.05	ACTIVE	0.000	-6.200	22.00	1.000
1.000	71.29	0.000	0.000	5AL_158_160_L_0							
126 D	3.599	-2.8017E-04	153.3	49.48	153.3	97.04	ACTIVE	0.000	-6.250	22.50	1.000
1.000	71.98	0.000	0.000	5AL_158_160_L_0							
127 D	3.633	-2.2260E-04	153.7	49.66	153.7	97.80	ACTIVE	0.000	-6.300	23.00	1.000
1.000	72.66	0.000	0.000	5AL_158_160_L_0							
128 D	3.667	-1.7045E-04	154.2	49.84	154.2	98.35	ACTIVE	0.000	-6.350	23.50	1.000
1.000	73.34	0.000	0.000	5AL_158_160_L_0							
129 D	3.897	-1.2343E-04	154.6	53.95	154.6	98.70	UL-RL	1.4716E+05	-6.400	24.00	1.000
1.000	77.95	0.000	0.000	5AL_158_160_L_0							
130 D	4.248	-8.1285E-05	155.1	60.47	155.1	98.89	UL-RL	1.4716E+05	-6.450	24.50	1.000
1.000	84.97	0.000	0.000	5AL_158_160_L_0							
131 D	4.570	-4.3752E-05	155.5	66.40	155.5	98.92	UL-RL	1.4716E+05	-6.500	25.00	1.000
1.000	91.40	0.000	0.000	5AL_158_160_L_0							
132 D	4.864	-1.0567E-05	156.0	71.77	156.0	98.81	UL-RL	1.4716E+05	-6.550	25.50	1.000
1.000	97.27	0.000	0.000	5AL_158_160_L_0							
133 D	5.131	1.8533E-05	156.4	76.62	156.4	98.59	UL-RL	1.4716E+05	-6.600	26.00	1.000
1.000	102.6	0.000	0.000	5AL_158_160_L_0							
134 D	5.373	4.3805E-05	156.9	80.96	156.9	98.26	UL-RL	1.4716E+05	-6.650	26.50	1.000
1.000	107.5	0.000	0.000	5AL_158_160_L_0							
135 D	5.565	6.5502E-05	157.3	84.31	157.3	98.72	UL-RL	1.4716E+05	-6.700	27.00	1.000
1.000	111.3	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	198 di 401

136 D	5.728	8.3871E-05	157.8	87.06	157.8	99.35	UL-RL	1.4716E+05	-6.750	27.50	1.000
1.000	114.6	0.000	0.000	5AL_158_160_L_0							
137 D	5.873	9.9152E-05	158.2	89.46	158.2	99.80	UL-RL	1.4716E+05	-6.800	28.00	1.000
1.000	117.5	0.000	0.000	5AL_158_160_L_0							
138 D	6.003	1.1158E-04	158.7	91.56	158.7	100.1	UL-RL	1.4716E+05	-6.850	28.50	1.000
1.000	120.1	0.000	0.000	5AL_158_160_L_0							
139 D	6.118	1.2137E-04	159.1	93.36	159.1	100.2	UL-RL	1.4716E+05	-6.900	29.00	1.000
1.000	122.4	0.000	0.000	5AL_158_160_L_0							
140 D	6.219	1.2875E-04	159.6	94.88	159.6	100.2	UL-RL	1.4716E+05	-6.950	29.50	1.000
1.000	124.4	0.000	0.000	5AL_158_160_L_0							
141 D	6.308	1.3393E-04	160.0	96.16	160.0	100.0	UL-RL	1.4716E+05	-7.000	30.00	1.000
1.000	126.2	0.000	0.000	5AL_158_160_L_0							
142 D	6.385	1.3710E-04	160.5	97.20	160.5	99.77	UL-RL	1.4716E+05	-7.050	30.50	1.000
1.000	127.7	0.000	0.000	5AL_158_160_L_0							
143 D	6.452	1.3845E-04	160.9	98.04	160.9	99.42	UL-RL	1.4716E+05	-7.100	31.00	1.000
1.000	129.0	0.000	0.000	5AL_158_160_L_0							
144 D	6.495	1.3817E-04	161.4	98.40	161.4	99.45	UL-RL	1.4716E+05	-7.150	31.50	1.000
1.000	129.9	0.000	0.000	5AL_158_160_L_0							
145 D	6.530	1.3643E-04	161.8	98.60	161.8	99.40	UL-RL	1.4716E+05	-7.200	32.00	1.000
1.000	130.6	0.000	0.000	5AL_158_160_L_0							
146 D	6.559	1.3338E-04	162.3	98.68	162.3	99.25	UL-RL	1.4716E+05	-7.250	32.50	1.000
1.000	131.2	0.000	0.000	5AL_158_160_L_0							
147 D	6.582	1.2919E-04	162.7	98.64	162.7	99.00	UL-RL	1.4716E+05	-7.300	33.00	1.000
1.000	131.6	0.000	0.000	5AL_158_160_L_0							
148 D	6.600	1.2399E-04	163.2	98.50	163.2	98.67	UL-RL	1.4716E+05	-7.350	33.50	1.000
1.000	132.0	0.000	0.000	5AL_158_160_L_0							
149 D	6.613	1.1792E-04	163.6	98.27	163.6	98.27	UL-RL	1.4716E+05	-7.400	34.00	1.000
1.000	132.3	0.000	0.000	5AL_158_160_L_0							
150 D	6.620	1.1110E-04	164.1	97.91	164.1	97.91	V-C	9.1974E+04	-7.450	34.50	1.000
1.000	132.4	0.000	0.000	5AL_158_160_L_0							
151 D	6.621	1.0366E-04	164.5	97.43	164.5	97.60	UL-RL	1.4716E+05	-7.500	35.00	1.000
1.000	132.4	0.000	0.000	5AL_158_160_L_0							
152 D	6.601	9.5695E-05	165.0	96.52	165.0	97.86	UL-RL	1.4716E+05	-7.550	35.50	1.000
1.000	132.0	0.000	0.000	5AL_158_160_L_0							
153 D	6.578	8.7309E-05	165.4	95.56	165.4	98.13	UL-RL	1.4716E+05	-7.600	36.00	1.000
1.000	131.6	0.000	0.000	5AL_158_160_L_0							
154 D	6.552	7.8593E-05	165.9	94.54	165.9	98.40	UL-RL	1.4716E+05	-7.650	36.50	1.000
1.000	131.0	0.000	0.000	5AL_158_160_L_0							
155 D	6.524	6.9631E-05	166.3	93.49	166.3	98.67	UL-RL	1.4716E+05	-7.700	37.00	1.000
1.000	130.5	0.000	0.000	5AL_158_160_L_0							
156 D	6.496	6.0498E-05	166.8	92.41	166.8	98.93	UL-RL	1.4716E+05	-7.750	37.50	1.000
1.000	129.9	0.000	0.000	5AL_158_160_L_0							
157 D	6.466	5.1264E-05	167.2	91.32	167.2	99.20	UL-RL	1.4716E+05	-7.800	38.00	1.000
1.000	129.3	0.000	0.000	5AL_158_160_L_0							
158 D	6.436	4.1990E-05	167.7	90.22	167.7	99.47	UL-RL	1.4716E+05	-7.850	38.50	1.000
1.000	128.7	0.000	0.000	5AL_158_160_L_0							
159 D	6.406	3.2733E-05	168.1	89.13	168.1	99.73	UL-RL	1.4716E+05	-7.900	39.00	1.000
1.000	128.1	0.000	0.000	5AL_158_160_L_0							
160 D	6.377	2.3541E-05	168.6	88.04	168.6	100.0	UL-RL	1.4716E+05	-7.950	39.50	1.000
1.000	127.5	0.000	0.000	5AL_158_160_L_0							
161 D	6.349	1.4458E-05	169.0	86.97	169.0	100.3	UL-RL	1.4716E+05	-8.000	40.00	1.000
1.000	127.0	0.000	0.000	5AL_158_160_L_0							
162 D	6.321	5.5218E-06	169.5	85.92	169.5	100.5	UL-RL	1.4716E+05	-8.050	40.50	1.000
1.000	126.4	0.000	0.000	5AL_158_160_L_0							
163 D	6.295	-3.2342E-06	169.9	84.90	169.9	100.8	UL-RL	1.4716E+05	-8.100	41.00	1.000
1.000	125.9	0.000	0.000	5AL_158_160_L_0							
164 D	6.271	-1.1782E-05	170.4	83.91	170.4	101.1	UL-RL	1.4716E+05	-8.150	41.50	1.000
1.000	125.4	0.000	0.000	5AL_158_160_L_0							
165 D	6.248	-2.0099E-05	170.8	82.95	170.8	101.3	UL-RL	1.4716E+05	-8.200	42.00	1.000
1.000	125.0	0.000	0.000	5AL_158_160_L_0							
166 D	6.227	-2.8165E-05	171.3	82.03	171.3	101.6	UL-RL	1.4716E+05	-8.250	42.50	1.000
1.000	124.5	0.000	0.000	5AL_158_160_L_0							
167 D	6.208	-3.5964E-05	171.7	81.15	171.7	101.9	UL-RL	1.4716E+05	-8.300	43.00	1.000
1.000	124.2	0.000	0.000	5AL_158_160_L_0							
168 D	6.191	-4.3486E-05	172.2	80.31	172.2	102.1	UL-RL	1.4716E+05	-8.350	43.50	1.000
1.000	123.8	0.000	0.000	5AL_158_160_L_0							
169 D	6.176	-5.0721E-05	172.6	79.51	172.6	102.4	UL-RL	1.4716E+05	-8.400	44.00	1.000
1.000	123.5	0.000	0.000	5AL_158_160_L_0							
170 D	6.163	-5.7665E-05	173.1	78.76	173.1	102.7	UL-RL	1.4716E+05	-8.450	44.50	1.000
1.000	123.3	0.000	0.000	5AL_158_160_L_0							
171 D	6.152	-6.4314E-05	173.5	78.05	173.5	102.9	UL-RL	1.4716E+05	-8.500	45.00	1.000
1.000	123.0	0.000	0.000	5AL_158_160_L_0							
172 D	6.144	-7.0668E-05	174.0	77.38	174.0	103.2	UL-RL	1.4716E+05	-8.550	45.50	1.000
1.000	122.9	0.000	0.000	5AL_158_160_L_0							
173 D	6.138	-7.6730E-05	174.4	76.76	174.4	103.5	UL-RL	1.4716E+05	-8.600	46.00	1.000
1.000	122.8	0.000	0.000	5AL_158_160_L_0							
174 D	6.134	-8.2504E-05	174.9	76.17	174.9	103.7	UL-RL	1.4716E+05	-8.650	46.50	1.000
1.000	122.7	0.000	0.000	5AL_158_160_L_0							
175 D	6.132	-8.7996E-05	175.3	75.63	175.3	104.0	UL-RL	1.4716E+05	-8.700	47.00	1.000
1.000	122.6	0.000	0.000	5AL_158_160_L_0							
176 D	6.132	-9.3214E-05	175.8	75.13	175.8	104.3	UL-RL	1.4716E+05	-8.750	47.50	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	199 di 401

RELAZIONE DI CALCOLO

1.000	122.6	0.000	0.000	5AL_158_160_L_0							
177 D	6.133	-9.8166E-05	176.2	74.67	176.2	104.5	UL-RL	1.4716E+05	-8.800	48.00	1.000
1.000	122.7	0.000	0.000	5AL_158_160_L_0							
178 D	6.137	-1.0286E-04	176.7	74.24	176.7	104.8	UL-RL	1.4716E+05	-8.850	48.50	1.000
1.000	122.7	0.000	0.000	5AL_158_160_L_0							
179 D	6.143	-1.0732E-04	177.1	73.86	177.1	105.1	UL-RL	1.4716E+05	-8.900	49.00	1.000
1.000	122.9	0.000	0.000	5AL_158_160_L_0							
180 D	6.150	-1.1154E-04	177.6	73.50	177.6	105.3	UL-RL	1.4716E+05	-8.950	49.50	1.000
1.000	123.0	0.000	0.000	5AL_158_160_L_0							
181 D	6.159	-1.1555E-04	178.0	73.18	178.0	105.6	UL-RL	1.4716E+05	-9.000	50.00	1.000
1.000	123.2	0.000	0.000	5AL_158_160_L_0							
182 D	6.169	-1.1935E-04	178.5	72.89	178.5	105.9	UL-RL	1.4716E+05	-9.050	50.50	1.000
1.000	123.4	0.000	0.000	5AL_158_160_L_0							
183 D	6.181	-1.2296E-04	178.9	72.62	178.9	106.1	UL-RL	1.4716E+05	-9.100	51.00	1.000
1.000	123.6	0.000	0.000	5AL_158_160_L_0							
184 D	6.194	-1.2639E-04	179.4	72.38	179.4	106.4	UL-RL	1.4716E+05	-9.150	51.50	1.000
1.000	123.9	0.000	0.000	5AL_158_160_L_0							
185 D	6.208	-1.2967E-04	179.8	72.17	179.8	106.7	UL-RL	1.4716E+05	-9.200	52.00	1.000
1.000	124.2	0.000	0.000	5AL_158_160_L_0							
186 D	6.224	-1.3279E-04	180.3	71.98	180.3	106.9	UL-RL	1.4716E+05	-9.250	52.50	1.000
1.000	124.5	0.000	0.000	5AL_158_160_L_0							
187 D	6.240	-1.3579E-04	180.7	71.80	180.7	107.2	UL-RL	1.4716E+05	-9.300	53.00	1.000
1.000	124.8	0.000	0.000	5AL_158_160_L_0							
188 D	6.257	-1.3866E-04	181.2	71.65	181.2	107.5	UL-RL	1.4716E+05	-9.350	53.50	1.000
1.000	125.1	0.000	0.000	5AL_158_160_L_0							
189 D	6.275	-1.4143E-04	181.6	71.51	181.6	107.7	UL-RL	1.4716E+05	-9.400	54.00	1.000
1.000	125.5	0.000	0.000	5AL_158_160_L_0							
190 D	6.294	-1.4411E-04	182.1	71.38	182.1	108.0	UL-RL	1.4716E+05	-9.450	54.50	1.000
1.000	125.9	0.000	0.000	5AL_158_160_L_0							
191 D	6.313	-1.4670E-04	182.5	71.26	182.5	108.3	UL-RL	1.4716E+05	-9.500	55.00	1.000
1.000	126.3	0.000	0.000	5AL_158_160_L_0							
192 D	6.333	-1.4924E-04	183.0	71.16	183.0	108.5	UL-RL	1.4716E+05	-9.550	55.50	1.000
1.000	126.7	0.000	0.000	5AL_158_160_L_0							
193 D	6.353	-1.5171E-04	183.4	71.06	183.4	108.8	UL-RL	1.4716E+05	-9.600	56.00	1.000
1.000	127.1	0.000	0.000	5AL_158_160_L_0							
194 D	6.374	-1.5414E-04	183.9	70.97	183.9	109.1	UL-RL	1.4716E+05	-9.650	56.50	1.000
1.000	127.5	0.000	0.000	5AL_158_160_L_0							
195 D	6.394	-1.5654E-04	184.3	70.88	184.3	109.3	UL-RL	1.4716E+05	-9.700	57.00	1.000
1.000	127.9	0.000	0.000	5AL_158_160_L_0							
196 D	6.415	-1.5891E-04	184.8	70.80	184.8	109.6	UL-RL	1.4716E+05	-9.750	57.50	1.000
1.000	128.3	0.000	0.000	5AL_158_160_L_0							
197 D	6.436	-1.6126E-04	185.2	70.72	185.2	109.9	UL-RL	1.4716E+05	-9.800	58.00	1.000
1.000	128.7	0.000	0.000	5AL_158_160_L_0							
198 D	6.457	-1.6360E-04	185.7	70.65	185.7	110.1	UL-RL	1.4716E+05	-9.850	58.50	1.000
1.000	129.1	0.000	0.000	5AL_158_160_L_0							
199 D	6.479	-1.6594E-04	186.1	70.57	186.1	110.4	UL-RL	1.4716E+05	-9.900	59.00	1.000
1.000	129.6	0.000	0.000	5AL_158_160_L_0							
200 D	6.498	-1.6826E-04	186.6	70.49	186.6	110.7	UL-RL	1.4716E+05	-9.950	59.50	1.000
1.000	130.0	0.000	0.000	5AL_158_160_L_0							
201 D	3.259	-1.7059E-04	187.0	70.42	187.0	110.9	UL-RL	1.4716E+05	-10.00	60.00	1.000
1.000	130.4	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.ALM1R1_926
Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
UFACOR	Peq	Su_a	Su_p	LAYER							
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000
1.000	0.000	0.000	0.000	not available							
2	0.000	--	--	--	--	--	REMOVED	--	-5.0000E-02	0.000	1.000
1.000	0.000	0.000	0.000	not available							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	200 di 401

3	0.000	--	--	--	--	REMOVED	--	-0.1000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.1500	0.000	1.000
4	0.000	--	--	--	--	REMOVED	--	-0.2000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.2500	0.000	1.000
5	0.000	--	--	--	--	REMOVED	--	-0.3000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.3500	0.000	1.000
6	0.000	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.4500	0.000	1.000
7	0.000	--	--	--	--	REMOVED	--	-0.5000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.5500	0.000	1.000
8	0.000	--	--	--	--	REMOVED	--	-0.6000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.6500	0.000	1.000
9	0.000	--	--	--	--	REMOVED	--	-0.7000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.7500	0.000	1.000
10	0.000	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.8500	0.000	1.000
11	0.000	--	--	--	--	REMOVED	--	-0.9000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.9500	0.000	1.000
12	0.000	--	--	--	--	REMOVED	--	-1.000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.050	0.000	1.000
13	0.000	--	--	--	--	REMOVED	--	-1.100	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.150	0.000	1.000
14	0.000	--	--	--	--	REMOVED	--	-1.200	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.250	0.000	1.000
15	0.000	--	--	--	--	REMOVED	--	-1.300	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.350	0.000	1.000
16	0.000	--	--	--	--	REMOVED	--	-1.400	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.450	0.000	1.000
17	0.000	--	--	--	--	REMOVED	--	-1.500	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.550	0.000	1.000
18	0.000	--	--	--	--	REMOVED	--	-1.600	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.650	0.000	1.000
19	0.000	--	--	--	--	REMOVED	--	-1.700	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.750	0.000	1.000
20	0.000	--	--	--	--	REMOVED	--	-1.800	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.850	0.000	1.000
21	0.000	--	--	--	--	REMOVED	--	-1.900	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.950	0.000	1.000
22	0.000	--	--	--	--	REMOVED	--	-2.000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--	-2.050	0.000	1.000
23	0.000	--	--	--	--	REMOVED	--	-2.100	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
24	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
25	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
26	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
27	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
28	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
29	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
30	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
31	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
32	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
33	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
34	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
35	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
36	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
37	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
38	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
39	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
40	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
41	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
42	0.000	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	REMOVED	--			
43	0.000	--	--	--	--	REMOVED	--			

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	201 di 401

1.000	0.000	0.000	0.000	not available							
44	0.000	--	--	--	--	REMOVED	--	-2.150	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
45	0.000	--	--	--	--	REMOVED	--	-2.200	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
46	0.000	--	--	--	--	REMOVED	--	-2.250	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
47	0.000	--	--	--	--	REMOVED	--	-2.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
48	0.000	--	--	--	--	REMOVED	--	-2.350	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
49	0.000	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
50	0.000	--	--	--	--	REMOVED	--	-2.450	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
51	0.000	--	--	--	--	REMOVED	--	-2.500	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
52	0.000	--	--	--	--	REMOVED	--	-2.550	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
53	0.000	--	--	--	--	REMOVED	--	-2.600	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
54	0.000	--	--	--	--	REMOVED	--	-2.650	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
55	0.000	--	--	--	--	REMOVED	--	-2.700	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
56	0.000	--	--	--	--	REMOVED	--	-2.750	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
57	0.000	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
58	0.000	--	--	--	--	REMOVED	--	-2.850	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
59	0.000	--	--	--	--	REMOVED	--	-2.900	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
60	0.000	--	--	--	--	REMOVED	--	-2.950	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
61	0.000	--	--	--	--	REMOVED	--	-3.000	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
62	0.000	--	--	--	--	REMOVED	--	-3.050	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
63	0.000	--	--	--	--	REMOVED	--	-3.100	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
64	0.000	--	--	--	--	REMOVED	--	-3.150	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
65	0.000	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
66 D	2.004	1.8737E-02	0.9500	40.08	61.75	48.02	PASSIVE	0.000	-3.250	0.000	1.000
1.000	40.08	0.000	0.000	5AL_158_160_L_0							
67 D	2.165	1.8193E-02	1.9000	43.31	62.70	48.58	PASSIVE	0.000	-3.300	0.000	1.000
1.000	43.31	0.000	0.000	5AL_158_160_L_0							
68 D	2.327	1.7655E-02	2.8500	46.53	63.65	49.15	PASSIVE	0.000	-3.350	0.000	1.000
1.000	46.53	0.000	0.000	5AL_158_160_L_0							
69 D	2.488	1.7123E-02	3.8000	49.76	64.60	49.76	PASSIVE	0.000	-3.400	0.000	1.000
1.000	49.76	0.000	0.000	5AL_158_160_L_0							
70 D	2.649	1.6596E-02	4.7500	52.99	65.55	52.99	PASSIVE	0.000	-3.450	0.000	1.000
1.000	52.99	0.000	0.000	5AL_158_160_L_0							
71 D	2.811	1.6076E-02	5.7000	56.21	66.50	56.21	PASSIVE	0.000	-3.500	0.000	1.000
1.000	56.21	0.000	0.000	5AL_158_160_L_0							
72 D	2.972	1.5562E-02	6.6500	59.44	67.45	59.44	PASSIVE	0.000	-3.550	0.000	1.000
1.000	59.44	0.000	0.000	5AL_158_160_L_0							
73 D	3.133	1.5055E-02	7.6000	62.67	68.40	62.67	PASSIVE	0.000	-3.600	0.000	1.000
1.000	62.67	0.000	0.000	5AL_158_160_L_0							
74 D	3.295	1.4554E-02	8.5500	65.89	69.35	65.89	PASSIVE	0.000	-3.650	0.000	1.000
1.000	65.89	0.000	0.000	5AL_158_160_L_0							
75 D	3.456	1.4061E-02	9.5000	69.12	70.30	69.12	PASSIVE	0.000	-3.700	0.000	1.000
1.000	69.12	0.000	0.000	5AL_158_160_L_0							
76 D	3.617	1.3574E-02	10.45	72.34	71.25	72.34	PASSIVE	0.000	-3.750	0.000	1.000
1.000	72.34	0.000	0.000	5AL_158_160_L_0							
77 D	3.779	1.3095E-02	11.40	75.57	72.20	75.57	PASSIVE	0.000	-3.800	0.000	1.000
1.000	75.57	0.000	0.000	5AL_158_160_L_0							
78 D	3.940	1.2623E-02	12.35	78.80	73.15	78.80	PASSIVE	0.000	-3.850	0.000	1.000
1.000	78.80	0.000	0.000	5AL_158_160_L_0							
79 D	4.101	1.2159E-02	13.30	82.02	74.10	82.02	PASSIVE	0.000	-3.900	0.000	1.000
1.000	82.02	0.000	0.000	5AL_158_160_L_0							
80 D	4.262	1.1702E-02	14.25	85.25	75.05	85.25	PASSIVE	0.000	-3.950	0.000	1.000
1.000	85.25	0.000	0.000	5AL_158_160_L_0							
81 D	4.424	1.1253E-02	15.20	88.48	76.00	88.48	PASSIVE	0.000	-4.000	0.000	1.000
1.000	88.48	0.000	0.000	5AL_158_160_L_0							
82 D	4.525	1.0813E-02	15.65	90.00	76.45	90.00	PASSIVE	0.000	-4.050	0.5000	1.000
1.000	90.50	0.000	0.000	5AL_158_160_L_0							
83 D	4.627	1.0381E-02	16.10	91.53	76.90	91.53	PASSIVE	0.000	-4.100	1.000	1.000
1.000	92.53	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	202 di 401

84 D	4.728	9.9567E-03	16.55	93.06	77.35	93.06	PASSIVE	0.000	-4.150	1.500	1.000
1.000	94.56	0.000	0.000	5AL_158_160_L_0							
85 D	4.829	9.5412E-03	17.00	94.59	77.80	94.59	PASSIVE	0.000	-4.200	2.000	1.000
1.000	96.59	0.000	0.000	5AL_158_160_L_0							
86 D	4.931	9.1344E-03	17.45	96.12	78.25	96.12	PASSIVE	0.000	-4.250	2.500	1.000
1.000	98.62	0.000	0.000	5AL_158_160_L_0							
87 D	5.032	8.7363E-03	17.90	97.64	78.70	97.64	PASSIVE	0.000	-4.300	3.000	1.000
1.000	100.6	0.000	0.000	5AL_158_160_L_0							
88 D	5.134	8.3470E-03	18.35	99.17	79.15	99.17	PASSIVE	0.000	-4.350	3.500	1.000
1.000	102.7	0.000	0.000	5AL_158_160_L_0							
89 D	5.235	7.9666E-03	18.80	100.7	79.60	100.7	PASSIVE	0.000	-4.400	4.000	1.000
1.000	104.7	0.000	0.000	5AL_158_160_L_0							
90 D	5.336	7.5953E-03	19.25	102.2	80.05	102.2	PASSIVE	0.000	-4.450	4.500	1.000
1.000	106.7	0.000	0.000	5AL_158_160_L_0							
91 D	5.438	7.2331E-03	19.70	103.8	80.50	103.8	PASSIVE	0.000	-4.500	5.000	1.000
1.000	108.8	0.000	0.000	5AL_158_160_L_0							
92 D	5.539	6.8801E-03	20.15	105.3	80.95	105.3	PASSIVE	0.000	-4.550	5.500	1.000
1.000	110.8	0.000	0.000	5AL_158_160_L_0							
93 D	5.641	6.5364E-03	20.60	106.8	81.40	106.8	PASSIVE	0.000	-4.600	6.000	1.000
1.000	112.8	0.000	0.000	5AL_158_160_L_0							
94 D	5.742	6.2019E-03	21.05	108.3	81.85	108.3	PASSIVE	0.000	-4.650	6.500	1.000
1.000	114.8	0.000	0.000	5AL_158_160_L_0							
95 D	5.844	5.8769E-03	21.50	109.9	82.30	109.9	PASSIVE	0.000	-4.700	7.000	1.000
1.000	116.9	0.000	0.000	5AL_158_160_L_0							
96 D	5.945	5.5613E-03	21.95	111.4	82.75	111.4	PASSIVE	0.000	-4.750	7.500	1.000
1.000	118.9	0.000	0.000	5AL_158_160_L_0							
97 D	6.046	5.2551E-03	22.40	112.9	83.20	112.9	PASSIVE	0.000	-4.800	8.000	1.000
1.000	120.9	0.000	0.000	5AL_158_160_L_0							
98 D	6.148	4.9584E-03	22.85	114.5	83.65	114.5	PASSIVE	0.000	-4.850	8.500	1.000
1.000	123.0	0.000	0.000	5AL_158_160_L_0							
99 D	6.249	4.6712E-03	23.30	116.0	84.10	116.0	PASSIVE	0.000	-4.900	9.000	1.000
1.000	125.0	0.000	0.000	5AL_158_160_L_0							
100 D	6.351	4.3935E-03	23.75	117.5	84.55	117.5	PASSIVE	0.000	-4.950	9.500	1.000
1.000	127.0	0.000	0.000	5AL_158_160_L_0							
101 D	6.452	4.1253E-03	24.20	119.0	85.00	119.0	PASSIVE	0.000	-5.000	10.00	1.000
1.000	129.0	0.000	0.000	5AL_158_160_L_0							
102 D	6.553	3.8666E-03	24.65	120.6	85.45	120.6	PASSIVE	0.000	-5.050	10.50	1.000
1.000	131.1	0.000	0.000	5AL_158_160_L_0							
103 D	6.655	3.6173E-03	25.10	122.1	85.90	122.1	PASSIVE	0.000	-5.100	11.00	1.000
1.000	133.1	0.000	0.000	5AL_158_160_L_0							
104 D	6.756	3.3775E-03	25.55	123.6	86.35	123.6	PASSIVE	0.000	-5.150	11.50	1.000
1.000	135.1	0.000	0.000	5AL_158_160_L_0							
105 D	6.858	3.1471E-03	26.00	125.2	86.80	125.2	PASSIVE	0.000	-5.200	12.00	1.000
1.000	137.2	0.000	0.000	5AL_158_160_L_0							
106 D	6.959	2.9260E-03	26.45	126.7	87.25	126.7	PASSIVE	0.000	-5.250	12.50	1.000
1.000	139.2	0.000	0.000	5AL_158_160_L_0							
107 D	7.060	2.7142E-03	26.90	128.2	87.70	128.2	PASSIVE	0.000	-5.300	13.00	1.000
1.000	141.2	0.000	0.000	5AL_158_160_L_0							
108 D	7.162	2.5115E-03	27.35	129.7	88.15	129.7	PASSIVE	0.000	-5.350	13.50	1.000
1.000	143.2	0.000	0.000	5AL_158_160_L_0							
109 D	7.263	2.3180E-03	27.80	131.3	88.60	131.3	PASSIVE	0.000	-5.400	14.00	1.000
1.000	145.3	0.000	0.000	5AL_158_160_L_0							
110 D	7.365	2.1334E-03	28.25	132.8	89.05	132.8	PASSIVE	0.000	-5.450	14.50	1.000
1.000	147.3	0.000	0.000	5AL_158_160_L_0							
111 D	7.466	1.9578E-03	28.70	134.3	89.50	134.3	PASSIVE	0.000	-5.500	15.00	1.000
1.000	149.3	0.000	0.000	5AL_158_160_L_0							
112 D	7.568	1.7910E-03	29.15	135.8	89.95	135.8	PASSIVE	0.000	-5.550	15.50	1.000
1.000	151.4	0.000	0.000	5AL_158_160_L_0							
113 D	7.669	1.6327E-03	29.60	137.4	90.40	137.4	PASSIVE	0.000	-5.600	16.00	1.000
1.000	153.4	0.000	0.000	5AL_158_160_L_0							
114 D	7.770	1.4830E-03	30.05	138.9	90.85	138.9	PASSIVE	0.000	-5.650	16.50	1.000
1.000	155.4	0.000	0.000	5AL_158_160_L_0							
115 D	7.872	1.3416E-03	30.50	140.4	91.30	140.4	PASSIVE	0.000	-5.700	17.00	1.000
1.000	157.4	0.000	0.000	5AL_158_160_L_0							
116 D	7.786	1.2084E-03	30.95	138.2	91.75	138.2	V-C	7.4657E+04	-5.750	17.50	1.000
1.000	155.7	0.000	0.000	5AL_158_160_L_0							
117 D	7.358	1.0832E-03	31.40	129.2	92.20	129.2	V-C	7.4657E+04	-5.800	18.00	1.000
1.000	147.2	0.000	0.000	5AL_158_160_L_0							
118 D	6.959	9.6575E-04	31.85	120.7	92.65	120.7	V-C	7.4657E+04	-5.850	18.50	1.000
1.000	139.2	0.000	0.000	5AL_158_160_L_0							
119 D	6.589	8.5589E-04	32.30	112.8	93.10	112.8	V-C	7.4657E+04	-5.900	19.00	1.000
1.000	131.8	0.000	0.000	5AL_158_160_L_0							
120 D	6.246	7.5341E-04	32.75	105.4	93.55	105.4	V-C	7.4657E+04	-5.950	19.50	1.000
1.000	124.9	0.000	0.000	5AL_158_160_L_0							
121 D	5.929	6.5806E-04	33.20	98.58	94.00	98.58	V-C	7.4657E+04	-6.000	20.00	1.000
1.000	118.6	0.000	0.000	5AL_158_160_L_0							
122 D	5.639	5.6963E-04	33.65	92.27	94.45	92.27	V-C	7.4657E+04	-6.050	20.50	1.000
1.000	112.8	0.000	0.000	5AL_158_160_L_0							
123 D	5.373	4.8788E-04	34.10	86.46	94.90	86.46	V-C	7.4657E+04	-6.100	21.00	1.000
1.000	107.5	0.000	0.000	5AL_158_160_L_0							
124 D	5.131	4.1255E-04	34.55	81.12	95.35	81.12	V-C	7.4657E+04	-6.150	21.50	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	203 di 401

1.000		102.6	0.000	0.000	SAL_158_160_L_0						
125 D	4.912	3.4340E-04	35.00	76.25	95.80	76.25	V-C	7.4657E+04	-6.200	22.00	1.000
1.000	98.25	0.000	0.000	SAL_158_160_L_0							
126 D	4.716	2.8017E-04	35.45	71.82	96.25	71.82	V-C	7.4657E+04	-6.250	22.50	1.000
1.000	94.32	0.000	0.000	SAL_158_160_L_0							
127 D	4.512	2.2260E-04	35.90	67.24	96.70	68.75	UL-RL	1.1945E+05	-6.300	23.00	1.000
1.000	90.24	0.000	0.000	SAL_158_160_L_0							
128 D	4.240	1.7045E-04	36.35	61.31	97.15	69.02	UL-RL	1.1945E+05	-6.350	23.50	1.000
1.000	84.81	0.000	0.000	SAL_158_160_L_0							
129 D	4.000	1.2343E-04	36.80	55.99	97.60	69.29	UL-RL	1.1945E+05	-6.400	24.00	1.000
1.000	79.99	0.000	0.000	SAL_158_160_L_0							
130 D	3.788	8.1285E-05	37.25	51.26	98.05	69.56	UL-RL	1.1945E+05	-6.450	24.50	1.000
1.000	75.76	0.000	0.000	SAL_158_160_L_0							
131 D	3.604	4.3752E-05	37.70	47.07	98.50	69.82	UL-RL	1.1945E+05	-6.500	25.00	1.000
1.000	72.07	0.000	0.000	SAL_158_160_L_0							
132 D	3.445	1.0567E-05	38.15	43.41	98.95	70.09	UL-RL	1.1945E+05	-6.550	25.50	1.000
1.000	68.91	0.000	0.000	SAL_158_160_L_0							
133 D	3.311	-1.8533E-05	38.60	40.23	99.40	70.36	UL-RL	1.1945E+05	-6.600	26.00	1.000
1.000	66.23	0.000	0.000	SAL_158_160_L_0							
134 D	3.200	-4.3805E-05	39.05	37.51	99.85	70.62	UL-RL	1.1945E+05	-6.650	26.50	1.000
1.000	64.01	0.000	0.000	SAL_158_160_L_0							
135 D	3.111	-6.5502E-05	39.50	35.21	100.3	70.89	UL-RL	1.1945E+05	-6.700	27.00	1.000
1.000	62.21	0.000	0.000	SAL_158_160_L_0							
136 D	3.041	-8.3871E-05	39.95	33.31	100.8	71.16	UL-RL	1.1945E+05	-6.750	27.50	1.000
1.000	60.81	0.000	0.000	SAL_158_160_L_0							
137 D	2.989	-9.9152E-05	40.40	31.78	101.2	71.42	UL-RL	1.1945E+05	-6.800	28.00	1.000
1.000	59.78	0.000	0.000	SAL_158_160_L_0							
138 D	2.955	-1.1158E-04	40.85	30.59	101.7	71.69	UL-RL	1.1945E+05	-6.850	28.50	1.000
1.000	59.10	0.000	0.000	SAL_158_160_L_0							
139 D	2.936	-1.2137E-04	41.30	29.72	102.1	71.96	UL-RL	1.1945E+05	-6.900	29.00	1.000
1.000	58.72	0.000	0.000	SAL_158_160_L_0							
140 D	2.932	-1.2875E-04	41.75	29.13	102.6	72.23	UL-RL	1.1945E+05	-6.950	29.50	1.000
1.000	58.63	0.000	0.000	SAL_158_160_L_0							
141 D	2.940	-1.3393E-04	42.20	28.81	103.0	72.49	UL-RL	1.1945E+05	-7.000	30.00	1.000
1.000	58.81	0.000	0.000	SAL_158_160_L_0							
142 D	2.961	-1.3710E-04	42.65	28.72	103.5	72.76	UL-RL	1.1945E+05	-7.050	30.50	1.000
1.000	59.22	0.000	0.000	SAL_158_160_L_0							
143 D	2.993	-1.3845E-04	43.10	28.86	103.9	73.03	UL-RL	1.1945E+05	-7.100	31.00	1.000
1.000	59.86	0.000	0.000	SAL_158_160_L_0							
144 D	3.034	-1.3817E-04	43.55	29.18	104.4	73.29	UL-RL	1.1945E+05	-7.150	31.50	1.000
1.000	60.68	0.000	0.000	SAL_158_160_L_0							
145 D	3.084	-1.3643E-04	44.00	29.68	104.8	73.56	UL-RL	1.1945E+05	-7.200	32.00	1.000
1.000	61.68	0.000	0.000	SAL_158_160_L_0							
146 D	3.142	-1.3338E-04	44.45	30.34	105.3	73.83	UL-RL	1.1945E+05	-7.250	32.50	1.000
1.000	62.84	0.000	0.000	SAL_158_160_L_0							
147 D	3.207	-1.2919E-04	44.90	31.13	105.7	74.09	UL-RL	1.1945E+05	-7.300	33.00	1.000
1.000	64.13	0.000	0.000	SAL_158_160_L_0							
148 D	3.277	-1.2399E-04	45.35	32.05	106.2	74.36	UL-RL	1.1945E+05	-7.350	33.50	1.000
1.000	65.55	0.000	0.000	SAL_158_160_L_0							
149 D	3.353	-1.1792E-04	45.80	33.06	106.6	74.63	UL-RL	1.1945E+05	-7.400	34.00	1.000
1.000	67.06	0.000	0.000	SAL_158_160_L_0							
150 D	3.433	-1.1110E-04	46.25	34.17	107.1	74.90	UL-RL	1.1945E+05	-7.450	34.50	1.000
1.000	68.67	0.000	0.000	SAL_158_160_L_0							
151 D	3.517	-1.0366E-04	46.70	35.35	107.5	75.16	UL-RL	1.1945E+05	-7.500	35.00	1.000
1.000	70.35	0.000	0.000	SAL_158_160_L_0							
152 D	3.604	-9.5695E-05	47.15	36.59	108.0	75.43	UL-RL	1.1945E+05	-7.550	35.50	1.000
1.000	72.09	0.000	0.000	SAL_158_160_L_0							
153 D	3.694	-8.7309E-05	47.60	37.88	108.4	75.70	UL-RL	1.1945E+05	-7.600	36.00	1.000
1.000	73.88	0.000	0.000	SAL_158_160_L_0							
154 D	3.786	-7.8593E-05	48.05	39.21	108.9	75.96	UL-RL	1.1945E+05	-7.650	36.50	1.000
1.000	75.71	0.000	0.000	SAL_158_160_L_0							
155 D	3.879	-6.9631E-05	48.50	40.57	109.3	76.23	UL-RL	1.1945E+05	-7.700	37.00	1.000
1.000	77.57	0.000	0.000	SAL_158_160_L_0							
156 D	3.973	-6.0498E-05	48.95	41.95	109.8	76.50	UL-RL	1.1945E+05	-7.750	37.50	1.000
1.000	79.45	0.000	0.000	SAL_158_160_L_0							
157 D	4.067	-5.1264E-05	49.40	43.34	110.2	76.76	UL-RL	1.1945E+05	-7.800	38.00	1.000
1.000	81.34	0.000	0.000	SAL_158_160_L_0							
158 D	4.162	-4.1990E-05	49.85	44.74	110.7	77.03	UL-RL	1.1945E+05	-7.850	38.50	1.000
1.000	83.24	0.000	0.000	SAL_158_160_L_0							
159 D	4.257	-3.2733E-05	50.30	46.13	111.1	77.30	UL-RL	1.1945E+05	-7.900	39.00	1.000
1.000	85.13	0.000	0.000	SAL_158_160_L_0							
160 D	4.351	-2.3541E-05	50.75	47.52	111.6	77.56	UL-RL	1.1945E+05	-7.950	39.50	1.000
1.000	87.02	0.000	0.000	SAL_158_160_L_0							
161 D	4.445	-1.4458E-05	51.20	48.89	112.0	77.83	UL-RL	1.1945E+05	-8.000	40.00	1.000
1.000	88.89	0.000	0.000	SAL_158_160_L_0							
162 D	4.537	-5.5218E-06	51.65	50.25	112.5	78.10	UL-RL	1.1945E+05	-8.050	40.50	1.000
1.000	90.75	0.000	0.000	SAL_158_160_L_0							
163 D	4.629	3.2342E-06	52.10	51.58	112.9	78.37	UL-RL	1.1945E+05	-8.100	41.00	1.000
1.000	92.58	0.000	0.000	SAL_158_160_L_0							
164 D	4.719	1.1782E-05	52.55	52.89	113.4	78.63	UL-RL	1.1945E+05	-8.150	41.50	1.000
1.000	94.39	0.000	0.000	SAL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	204 di 401

165 D	4.808	2.0099E-05	53.00	54.17	113.8	78.90	UL-RL	1.1945E+05	-8.200	42.00	1.000
1.000	96.17	0.000	0.000	5AL_158_160_L_0							
166 D	4.896	2.8165E-05	53.45	55.42	114.3	79.17	UL-RL	1.1945E+05	-8.250	42.50	1.000
1.000	97.92	0.000	0.000	5AL_158_160_L_0							
167 D	4.982	3.5964E-05	53.90	56.64	114.7	79.43	UL-RL	1.1945E+05	-8.300	43.00	1.000
1.000	99.64	0.000	0.000	5AL_158_160_L_0							
168 D	5.066	4.3486E-05	54.35	57.82	115.2	79.70	UL-RL	1.1945E+05	-8.350	43.50	1.000
1.000	101.3	0.000	0.000	5AL_158_160_L_0							
169 D	5.149	5.0721E-05	54.80	58.97	115.6	79.97	UL-RL	1.1945E+05	-8.400	44.00	1.000
1.000	103.0	0.000	0.000	5AL_158_160_L_0							
170 D	5.229	5.7665E-05	55.25	60.09	116.1	80.23	UL-RL	1.1945E+05	-8.450	44.50	1.000
1.000	104.6	0.000	0.000	5AL_158_160_L_0							
171 D	5.308	6.4314E-05	55.70	61.17	116.5	80.50	UL-RL	1.1945E+05	-8.500	45.00	1.000
1.000	106.2	0.000	0.000	5AL_158_160_L_0							
172 D	5.386	7.0668E-05	56.15	62.21	117.0	80.77	UL-RL	1.1945E+05	-8.550	45.50	1.000
1.000	107.7	0.000	0.000	5AL_158_160_L_0							
173 D	5.461	7.6730E-05	56.60	63.22	117.4	81.04	UL-RL	1.1945E+05	-8.600	46.00	1.000
1.000	109.2	0.000	0.000	5AL_158_160_L_0							
174 D	5.535	8.2504E-05	57.05	64.19	117.9	81.30	UL-RL	1.1945E+05	-8.650	46.50	1.000
1.000	110.7	0.000	0.000	5AL_158_160_L_0							
175 D	5.607	8.7996E-05	57.50	65.14	118.3	81.57	UL-RL	1.1945E+05	-8.700	47.00	1.000
1.000	112.1	0.000	0.000	5AL_158_160_L_0							
176 D	5.677	9.3214E-05	57.95	66.04	118.8	81.84	UL-RL	1.1945E+05	-8.750	47.50	1.000
1.000	113.5	0.000	0.000	5AL_158_160_L_0							
177 D	5.746	9.8166E-05	58.40	66.92	119.2	82.10	UL-RL	1.1945E+05	-8.800	48.00	1.000
1.000	114.9	0.000	0.000	5AL_158_160_L_0							
178 D	5.813	1.0286E-04	58.85	67.76	119.7	82.37	UL-RL	1.1945E+05	-8.850	48.50	1.000
1.000	116.3	0.000	0.000	5AL_158_160_L_0							
179 D	5.879	1.0732E-04	59.30	68.58	120.1	82.64	UL-RL	1.1945E+05	-8.900	49.00	1.000
1.000	117.6	0.000	0.000	5AL_158_160_L_0							
180 D	5.943	1.1154E-04	59.75	69.37	120.6	82.90	UL-RL	1.1945E+05	-8.950	49.50	1.000
1.000	118.9	0.000	0.000	5AL_158_160_L_0							
181 D	6.007	1.1555E-04	60.20	70.13	121.0	83.17	UL-RL	1.1945E+05	-9.000	50.00	1.000
1.000	120.1	0.000	0.000	5AL_158_160_L_0							
182 D	6.068	1.1935E-04	60.65	70.87	121.5	83.44	UL-RL	1.1945E+05	-9.050	50.50	1.000
1.000	121.4	0.000	0.000	5AL_158_160_L_0							
183 D	6.129	1.2296E-04	61.10	71.58	121.9	83.71	UL-RL	1.1945E+05	-9.100	51.00	1.000
1.000	122.6	0.000	0.000	5AL_158_160_L_0							
184 D	6.189	1.2639E-04	61.55	72.28	122.4	83.97	UL-RL	1.1945E+05	-9.150	51.50	1.000
1.000	123.8	0.000	0.000	5AL_158_160_L_0							
185 D	6.247	1.2967E-04	62.00	72.95	122.8	84.24	UL-RL	1.1945E+05	-9.200	52.00	1.000
1.000	124.9	0.000	0.000	5AL_158_160_L_0							
186 D	6.305	1.3279E-04	62.45	73.60	123.3	84.51	UL-RL	1.1945E+05	-9.250	52.50	1.000
1.000	126.1	0.000	0.000	5AL_158_160_L_0							
187 D	6.362	1.3579E-04	62.90	74.24	123.7	84.77	UL-RL	1.1945E+05	-9.300	53.00	1.000
1.000	127.2	0.000	0.000	5AL_158_160_L_0							
188 D	6.419	1.3866E-04	63.35	74.87	124.2	85.04	UL-RL	1.1945E+05	-9.350	53.50	1.000
1.000	128.4	0.000	0.000	5AL_158_160_L_0							
189 D	6.474	1.4143E-04	63.80	75.48	124.6	85.31	UL-RL	1.1945E+05	-9.400	54.00	1.000
1.000	129.5	0.000	0.000	5AL_158_160_L_0							
190 D	6.529	1.4411E-04	64.25	76.09	125.1	85.57	UL-RL	1.1945E+05	-9.450	54.50	1.000
1.000	130.6	0.000	0.000	5AL_158_160_L_0							
191 D	6.584	1.4670E-04	64.70	76.68	125.5	85.84	UL-RL	1.1945E+05	-9.500	55.00	1.000
1.000	131.7	0.000	0.000	5AL_158_160_L_0							
192 D	6.638	1.4924E-04	65.15	77.26	126.0	86.11	UL-RL	1.1945E+05	-9.550	55.50	1.000
1.000	132.8	0.000	0.000	5AL_158_160_L_0							
193 D	6.692	1.5171E-04	65.60	77.84	126.4	86.38	UL-RL	1.1945E+05	-9.600	56.00	1.000
1.000	133.8	0.000	0.000	5AL_158_160_L_0							
194 D	6.746	1.5414E-04	66.05	78.41	126.9	86.64	UL-RL	1.1945E+05	-9.650	56.50	1.000
1.000	134.9	0.000	0.000	5AL_158_160_L_0							
195 D	6.799	1.5654E-04	66.50	78.98	127.3	86.91	UL-RL	1.1945E+05	-9.700	57.00	1.000
1.000	136.0	0.000	0.000	5AL_158_160_L_0							
196 D	6.852	1.5891E-04	66.95	79.54	127.8	87.18	UL-RL	1.1945E+05	-9.750	57.50	1.000
1.000	137.0	0.000	0.000	5AL_158_160_L_0							
197 D	6.905	1.6126E-04	67.40	80.10	128.2	87.44	UL-RL	1.1945E+05	-9.800	58.00	1.000
1.000	138.1	0.000	0.000	5AL_158_160_L_0							
198 D	6.958	1.6360E-04	67.85	80.65	128.7	87.71	UL-RL	1.1945E+05	-9.850	58.50	1.000
1.000	139.2	0.000	0.000	5AL_158_160_L_0							
199 D	7.011	1.6594E-04	68.30	81.22	129.1	87.98	UL-RL	1.1945E+05	-9.900	59.00	1.000
1.000	140.2	0.000	0.000	5AL_158_160_L_0							
200 D	7.063	1.6826E-04	68.75	81.78	129.6	88.24	UL-RL	1.1945E+05	-9.950	59.50	1.000
1.000	141.3	0.000	0.000	5AL_158_160_L_0							
201 D	3.557	1.7059E-04	69.20	82.34	130.0	88.51	UL-RL	1.1945E+05	-10.00	60.00	1.000
1.000	142.3	0.000	0.000	5AL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	205 di 401

RELAZIONE DI CALCOLO

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*
 paratia_mario.BaseDesignSection_28.A1M1R1_926
 Exe Time :21 June 2016 11:57:45

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
 CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.25996	-0.25996	3.83068E-10	1.29980E-02
2	0.79916	-0.79916	-1.29980E-02	5.29561E-02
3	1.3577	-1.3577	-5.29561E-02	0.12084
4	1.9354	-1.9354	-0.12084	0.21761
5	2.5325	-2.5325	-0.21761	0.34423
6	3.1488	-3.1488	-0.34423	0.50168
7	3.7845	-3.7845	-0.50168	0.69090
8	4.4394	-4.4394	-0.69090	0.91287
9	5.1136	-5.1136	-0.91287	1.1685
10	5.8071	-5.8071	-1.1685	1.4589
11	6.5198	-6.5198	-1.4589	1.7849
12	7.2519	-7.2519	-1.7849	2.1475
13	8.0032	-8.0032	-2.1475	2.5476
14	8.7738	-8.7738	-2.5476	2.9863
15	9.5637	-9.5637	-2.9863	3.4645
16	10.373	-10.373	-3.4645	3.9832
17	11.201	-11.201	-3.9832	4.5432
18	12.049	-12.049	-4.5432	5.1457
19	12.916	-12.916	-5.1457	5.7915
20	13.803	-13.803	-5.7915	6.4816
21	14.708	-14.708	-6.4816	7.2170
22	15.633	-15.633	-7.2170	7.9987
23	16.577	-16.577	-7.9987	8.8276
24	17.541	-17.541	-8.8276	9.7046
25	18.524	-18.524	-9.7046	10.631
26	19.526	-19.526	-10.631	11.607
27	20.547	-20.547	-11.607	12.634
28	21.587	-21.587	-12.634	13.714
29	22.647	-22.647	-13.714	14.846
30	23.727	-23.727	-14.846	16.032
31	24.825	-24.825	-16.032	17.274
32	25.943	-25.943	-17.274	18.571
33	27.080	-27.080	-18.571	19.925
34	28.236	-28.236	-19.925	21.337
35	29.412	-29.412	-21.337	22.807
36	30.607	-30.607	-22.807	24.338
37	31.821	-31.821	-24.338	25.929
38	33.054	-33.054	-25.929	27.581
39	34.307	-34.307	-27.581	29.297
40	35.579	-35.579	-29.297	31.076
41	36.870	-36.870	-31.076	32.919
42	38.181	-38.181	-32.919	34.828
43	39.511	-39.511	-34.828	36.804
44	40.860	-40.860	-36.804	38.847
45	42.229	-42.229	-38.847	40.958
46	43.616	-43.616	-40.958	43.139
47	45.023	-45.023	-43.139	45.390
48	46.450	-46.450	-45.390	47.713
49	47.895	-47.895	-47.713	50.107
50	49.360	-49.360	-50.107	52.575
51	50.844	-50.844	-52.575	55.118
52	52.348	-52.348	-55.118	57.735
53	53.870	-53.870	-57.735	60.429
54	55.412	-55.412	-60.429	63.199
55	56.974	-56.974	-63.199	66.048
56	58.554	-58.554	-66.048	68.976
57	60.154	-60.154	-68.976	71.983
58	61.773	-61.773	-71.983	75.072
59	63.412	-63.412	-75.072	78.242

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LIDO	01	D 09CL	VI0100 004	A	206 di 401

RELAZIONE DI CALCOLO

60	65.070	-65.070	-78.242	81.496
61	66.747	-66.747	-81.496	84.833
62	68.443	-68.443	-84.833	88.255
63	70.159	-70.159	-88.255	91.763
64	71.893	-71.893	-91.763	95.358
65	73.648	-73.648	-95.358	99.040
66	73.417	-73.417	-99.040	102.71
67	73.044	-73.044	-102.71	106.36
68	72.529	-72.529	-106.36	109.99
69	71.873	-71.873	-109.99	113.58
70	71.074	-71.074	-113.58	117.14
71	70.133	-70.133	-117.14	120.64
72	69.050	-69.050	-120.64	124.10
73	67.825	-67.825	-124.10	127.49
74	66.458	-66.458	-127.49	130.81
75	64.950	-64.950	-130.81	134.06
76	63.299	-63.299	-134.06	137.22
77	61.506	-61.506	-137.22	140.30
78	59.571	-59.571	-140.30	143.28
79	57.494	-57.494	-143.28	146.15
80	55.275	-55.275	-146.15	148.92
81	52.914	-52.914	-148.92	151.56
82	50.485	-50.485	-151.56	154.09
83	47.990	-47.990	-154.09	156.48
84	45.427	-45.427	-156.48	158.76
85	42.797	-42.797	-158.76	160.90
86	40.099	-40.099	-160.90	162.90
87	37.334	-37.334	-162.90	164.77
88	34.502	-34.502	-164.77	166.49
89	31.603	-31.603	-166.49	168.07
90	28.637	-28.637	-168.07	169.50
91	25.603	-25.603	-169.50	170.78
92	22.502	-22.502	-170.78	171.91
93	19.333	-19.333	-171.91	172.88
94	16.098	-16.098	-172.88	173.68
95	12.795	-12.795	-173.68	174.32
96	9.4246	-9.4246	-174.32	174.79
97	5.9872	-5.9872	-174.79	175.09
98	2.4824	-2.4824	-175.09	175.22
99	-1.0896	1.0896	-175.22	175.16
100	-4.7289	4.7289	-175.16	174.93
101	-8.4354	8.4354	-174.93	174.50
102	-12.209	12.209	-174.50	173.89
103	-16.050	16.050	-173.89	173.09
104	-19.959	19.959	-173.09	172.09
105	-23.934	23.934	-172.09	170.90
106	-27.977	27.977	-170.90	169.50
107	-32.088	32.088	-169.50	167.89
108	-36.265	36.265	-167.89	166.08
109	-40.510	40.510	-166.08	164.05
110	-44.822	44.822	-164.05	161.81
111	-49.201	49.201	-161.81	159.35
112	-53.648	53.648	-159.35	156.67
113	-58.162	58.162	-156.67	153.76
114	-62.743	62.743	-153.76	150.62
115	-67.391	67.391	-150.62	147.26
116	-71.920	71.920	-147.26	143.66
117	-75.986	75.986	-143.66	139.86
118	-79.619	79.619	-139.86	135.88
119	-82.848	82.848	-135.88	131.74
120	-85.700	85.700	-131.74	127.45
121	-88.201	88.201	-127.45	123.04
122	-90.377	90.377	-123.04	118.52
123	-92.253	92.253	-118.52	113.91
124	-93.854	93.854	-113.91	109.22
125	-95.202	95.202	-109.22	104.46
126	-96.319	96.319	-104.46	99.641
127	-97.198	97.198	-99.641	94.781
128	-97.771	97.771	-94.781	89.893
129	-97.873	97.873	-89.893	84.999
130	-97.413	97.413	-84.999	80.128
131	-96.446	96.446	-80.128	75.306
132	-95.028	95.028	-75.306	70.555
133	-93.209	93.209	-70.555	65.894
134	-91.036	91.036	-65.894	61.342
135	-88.581	88.581	-61.342	56.913
136	-85.894	85.894	-56.913	52.618
137	-83.010	83.010	-52.618	48.468
138	-79.962	79.962	-48.468	44.470
139	-76.780	76.780	-44.470	40.631
140	-73.493	73.493	-40.631	36.956

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	207 di 401

RELAZIONE DI CALCOLO

141	-70.125	70.125	-36.956	33.450
142	-66.701	66.701	-33.450	30.115
143	-63.242	63.242	-30.115	26.953
144	-59.781	59.781	-26.953	23.964
145	-56.335	56.335	-23.964	21.147
146	-52.918	52.918	-21.147	18.501
147	-49.543	49.543	-18.501	16.024
148	-46.221	46.221	-16.024	13.713
149	-42.960	42.960	-13.713	11.565
150	-39.773	39.773	-11.565	9.5760
151	-36.669	36.669	-9.5760	7.7425
152	-33.673	33.673	-7.7425	6.0588
153	-30.789	30.789	-6.0588	4.5194
154	-28.022	28.022	-4.5194	3.1183
155	-25.376	25.376	-3.1183	1.8495
156	-22.853	22.853	-1.8495	0.70678
157	-20.455	20.455	-0.70678	-0.31595
158	-18.181	18.181	0.31595	-1.2250
159	-16.031	16.031	1.2250	-2.0265
160	-14.005	14.005	2.0265	-2.7268
161	-12.101	12.101	2.7268	-3.3318
162	-10.317	10.317	3.3318	-3.8477
163	-8.6511	8.6511	3.8477	-4.2802
164	-7.1001	7.1001	4.2802	-4.6352
165	-5.6609	5.6609	4.6352	-4.9183
166	-4.3301	4.3301	4.9183	-5.1348
167	-3.1044	3.1044	5.1348	-5.2900
168	-1.9798	1.9798	5.2900	-5.3890
169	-0.95265	0.95265	5.3890	-5.4366
170	-1.89827E-02	1.89827E-02	5.4366	-5.4376
171	0.82512	-0.82512	5.4376	-5.3963
172	1.5836	-1.5836	5.3963	-5.3172
173	2.2604	-2.2604	5.3172	-5.2041
174	2.8593	-2.8593	5.2041	-5.0612
175	3.3841	-3.3841	5.0612	-4.8920
176	3.8385	-3.8385	4.8920	-4.7000
177	4.2260	-4.2260	4.7000	-4.4887
178	4.5500	-4.5500	4.4887	-4.2612
179	4.8138	-4.8138	4.2612	-4.0205
180	5.0205	-5.0205	4.0205	-3.7695
181	5.1729	-5.1729	3.7695	-3.5109
182	5.2739	-5.2739	3.5109	-3.2472
183	5.3259	-5.3259	3.2472	-2.9809
184	5.3313	-5.3313	2.9809	-2.7143
185	5.2924	-5.2924	2.7143	-2.4497
186	5.2109	-5.2109	2.4497	-2.1891
187	5.0888	-5.0888	2.1891	-1.9347
188	4.9276	-4.9276	1.9347	-1.6883
189	4.7288	-4.7288	1.6883	-1.4519
190	4.4935	-4.4935	1.4519	-1.2272
191	4.2228	-4.2228	1.2272	-1.0161
192	3.9177	-3.9177	1.0161	-0.82018
193	3.5788	-3.5788	0.82018	-0.64124
194	3.2067	-3.2067	0.64124	-0.48091
195	2.8020	-2.8020	0.48091	-0.34081
196	2.3650	-2.3650	0.34081	-0.22256
197	1.8959	-1.8959	0.22256	-0.12776
198	1.3950	-1.3950	0.12776	-5.80059E-02
199	0.86229	-0.86229	5.80059E-02	-1.48916E-02
200	0.29795	-0.29795	1.48916E-02	-1.42755E-12



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	208 di 401

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PARATIEPLUS(TM)  NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Feb 29, 2016*
paratia_mario.BaseDesignSection_28.A1M1R1_926
Exe Time :21 June 2016      11:57:45
-----

```

FINAL INCREMENTAL ANALYSIS
SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	2
3	CONVERGENCE :YES	9

END OF PROCESS FOR PROBLEM

```

paratia_mario
NONLINEAR SOLUTION CPU TIME ....  0.06 [sec]
DATABASE CREATION CPU TIME.....  0.23 [sec]

```

Design Assumption : A2+M2+R1 - File di Paratie - File di output (.out)

```

-----
PARATIEPLUS(TM)  NLS ENGINE RELEASE  2016  FULL VERSION  *Build date: Feb 29, 2016*
paratia_mario.BaseDesignSection_28.A2M2R1_956
Exe Time :21 June 2016      11:57:46
-----

```

```

*****
*
*  PARATIE PLUS Non-Linear Spring Engine
*
*  AN ELASTOPLASTIC FINITE ELEMENT PROGRAM
*  FOR FLEXIBLE EARTH-RETAINING STRUCTURES
*
*  Written by Ce.A.S. s.r.l. (ITALY)
*  with the scientific supervision of
*  Roberto Nova - full professor SOIL MECHANICS
*  at Politecnico di Milano (ITALY)
*
*****
*
*  RELEASE  2016  *Build date: Feb 29, 2016*
*
*
*  Ce.A.S.      S.R.L  CENTRO DI ANALISI STRUTTURALE
*              VIALE  GIUSTINIANO 10
*              20129  M I L A N O  (ITALIA)
*  TEL.        +39 02 2020221  (+39 035 23 67 19)
*  FAX         +39 02 29512533  (+39 035 42285 49)
*  email       bruno.becci@ceas.it
*  Web Page    www.ceas.it
*****

```

```

JOB : paratia_mario.BaseDesignSection_28.A2M2R1_956
STARTING
ACCEPTED <FILE,GENW
ACCEPTED <FILE,PLOTTER,BINARY
ACCEPTED <SOLVE TOTAL STRESS
ACCEPTED <PARAM ITEMAX 40

```

```

>
>
>
>

```



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	209 di 401

RELAZIONE DI CALCOLO

* WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED *
 * BY THE PROGRAM. *

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]

```

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| PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016* |
| paratia_mario.BaseDesignSection_28.A2M2R1_956 |
| Exe Time :21 June 2016 11:57:46 |
-----

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

paratia_mario

```

NO. OF NODAL POINTS (NUMNP) ..... 201
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 402
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 3
NO. OF SOLUTION STEPS (NSTE)..... 3
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 47
NO. OF LONG NAMES (LASTNAME) ..... 13
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF . 0

```

IDOFA (01) = 2 Y-DISPL.F
 IDOFA (02) = 4 X-ROT. F

RELEVANT ITEMS UNITS

```

STRESSES kPa
Y-DISPLACEMENTS m
ROTATIONS RADIANS
BEAM AND SLAB MOMENTS kN*m/m
BEAM SHEAR FORCES kN/m
ANCHOR FORCES kN/m
AXIAL FORCES IN TRUSSES kN/m
AXIAL FORCES SPRINGS kN/m
Y-REACTIONS kN/m
X-MOMENT REACTIONS kN*m/m
ETC.

```

```

-----
| PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016* |
| paratia_mario.BaseDesignSection_28.A2M2R1_956 |
| Exe Time :21 June 2016 11:57:46 |
-----

```

PREPROCESSOR DATA

NO. OF COMMANDS 47

```

1 : UNIT m kN
2 : TITLE paratia_mario
3 : DELTA 0.05
4 : option param itemax 40
5 : WALL LeftWall_32 0 -10 0 1
6 : SOIL 0_L LeftWall_32 -10 0 1 0
7 : SOIL 0_R LeftWall_32 -10 0 2 180
8 : LDATA 5AL_158_160_L_0 0 LeftWall_32
9 : ATREST 0.5933 0.5 1
10 : WEIGHT 19 9 10
11 : PERMEABILITY 1E-08
12 : RESISTANCE 10 25

```




LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	210 di 401

RELAZIONE DI CALCOLO

```

13 : YOUNG 2.5E+05 4E+05
14 : ENDL
15 : MATERIAL S355_114 2.1E+08
16 : MATERIAL C3240_106 3.335E+07
17 : BEAM WallElement_33 LeftWall_32 -10 0 S355_114 0.1381 00 00
18 : STEP Stage1_31
19 : CHANGE 5AL_158_160_L_0 U-FRICT=20.46 LeftWall_32
20 : CHANGE 5AL_158_160_L_0 D-FRICT=20.46 LeftWall_32
21 : CHANGE 5AL_158_160_L_0 U-KA=0.482 LeftWall_32
22 : CHANGE 5AL_158_160_L_0 U-KP=2.637 LeftWall_32
23 : CHANGE 5AL_158_160_L_0 D-KA=0.482 LeftWall_32
24 : CHANGE 5AL_158_160_L_0 D-KP=2.637 LeftWall_32
25 : CHANGE 5AL_158_160_L_0 U-COHE=8 LeftWall_32
26 : CHANGE 5AL_158_160_L_0 D-COHE=8 LeftWall_32
27 : SETWALL LeftWall_32
28 : GEOM 0 0
29 : WATER -4 0 -10 0 0
30 : ENDSTEP
31 : STEP Stage2_168
32 : CHANGE 5AL_158_160_L_0 D-FRICT=20.46 LeftWall_32
33 : CHANGE 5AL_158_160_L_0 D-COHE=8 LeftWall_32
34 : SETWALL LeftWall_32
35 : GEOM 0 0
36 : SURCHARGE 57 0 0 0
37 : WATER -4 0 -10 0 0
38 : ADD WallElement_33
39 : ENDSTEP
40 : STEP Stage3_6035
41 : CHANGE 5AL_158_160_L_0 D-FRICT=20.46 LeftWall_32
42 : CHANGE 5AL_158_160_L_0 D-COHE=8 LeftWall_32
43 : SETWALL LeftWall_32
44 : GEOM 0 -3.2
45 : SURCHARGE 57 0 0 0
46 : WATER -4 0 -10 0 0
47 : ENDSTEP
  
```

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection 28.A2M2R1_956
Exe Time :21 June 2016 11:57:46

N O D A L P O I N T D A T A

NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD / NODE
1	0.0000	0.0000 /	2	0.0000	-5.00000E-02 /	3	0.0000	-0.10000 /
5	0.0000	-0.20000 /	6	0.0000	-0.25000 /	7	0.0000	-0.30000 /
9	0.0000	-0.40000 /	10	0.0000	-0.45000 /	11	0.0000	-0.50000 /
13	0.0000	-0.60000 /	14	0.0000	-0.65000 /	15	0.0000	-0.70000 /
17	0.0000	-0.80000 /	18	0.0000	-0.85000 /	19	0.0000	-0.90000 /
21	0.0000	-1.0000 /	22	0.0000	-1.0500 /	23	0.0000	-1.1000 /
25	0.0000	-1.2000 /	26	0.0000	-1.2500 /	27	0.0000	-1.3000 /
29	0.0000	-1.4000 /	30	0.0000	-1.4500 /	31	0.0000	-1.5000 /
33	0.0000	-1.6000 /	34	0.0000	-1.6500 /	35	0.0000	-1.7000 /
37	0.0000	-1.8000 /	38	0.0000	-1.8500 /	39	0.0000	-1.9000 /
41	0.0000	-2.0000 /	42	0.0000	-2.0500 /	43	0.0000	-2.1000 /
45	0.0000	-2.2000 /	46	0.0000	-2.2500 /	47	0.0000	-2.3000 /
49	0.0000	-2.4000 /	50	0.0000	-2.4500 /	51	0.0000	-2.5000 /
53	0.0000	-2.6000 /	54	0.0000	-2.6500 /	55	0.0000	-2.7000 /
57	0.0000	-2.8000 /	58	0.0000	-2.8500 /	59	0.0000	-2.9000 /
61	0.0000	-3.0000 /	62	0.0000	-3.0500 /	63	0.0000	-3.1000 /
65	0.0000	-3.2000 /	66	0.0000	-3.2500 /	67	0.0000	-3.3000 /
69	0.0000	-3.4000 /	70	0.0000	-3.4500 /	71	0.0000	-3.5000 /
73	0.0000	-3.6000 /	74	0.0000	-3.6500 /	75	0.0000	-3.7000 /
77	0.0000	-3.8000 /	78	0.0000	-3.8500 /	79	0.0000	-3.9000 /
81	0.0000	-4.0000 /	82	0.0000	-4.0500 /	83	0.0000	-4.1000 /
85	0.0000	-4.2000 /	86	0.0000	-4.2500 /	87	0.0000	-4.3000 /
89	0.0000	-4.4000 /	90	0.0000	-4.4500 /	91	0.0000	-4.5000 /
93	0.0000	-4.6000 /	94	0.0000	-4.6500 /	95	0.0000	-4.7000 /
97	0.0000	-4.8000 /	98	0.0000	-4.8500 /	99	0.0000	-4.9000 /
101	0.0000	-5.0000 /	102	0.0000	-5.0500 /	103	0.0000	-5.1000 /
105	0.0000	-5.2000 /	106	0.0000	-5.2500 /	107	0.0000	-5.3000 /
109	0.0000	-5.4000 /	110	0.0000	-5.4500 /	111	0.0000	-5.5000 /
113	0.0000	-5.6000 /	114	0.0000	-5.6500 /	115	0.0000	-5.7000 /
117	0.0000	-5.8000 /	118	0.0000	-5.8500 /	119	0.0000	-5.9000 /
121	0.0000	-6.0000 /	122	0.0000	-6.0500 /	123	0.0000	-6.1000 /
125	0.0000	-6.2000 /	126	0.0000	-6.2500 /	127	0.0000	-6.3000 /
						128	0.0000	-6.3500 /



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	212 di 401

RELAZIONE DI CALCOLO

27	27	1	0.5000E-01	0.000	0.000	0.000	1.000
28	28	1	0.5000E-01	0.000	0.000	0.000	1.000
29	29	1	0.5000E-01	0.000	0.000	0.000	1.000
30	30	1	0.5000E-01	0.000	0.000	0.000	1.000
31	31	1	0.5000E-01	0.000	0.000	0.000	1.000
32	32	1	0.5000E-01	0.000	0.000	0.000	1.000
33	33	1	0.5000E-01	0.000	0.000	0.000	1.000
34	34	1	0.5000E-01	0.000	0.000	0.000	1.000
35	35	1	0.5000E-01	0.000	0.000	0.000	1.000
36	36	1	0.5000E-01	0.000	0.000	0.000	1.000
37	37	1	0.5000E-01	0.000	0.000	0.000	1.000
38	38	1	0.5000E-01	0.000	0.000	0.000	1.000
39	39	1	0.5000E-01	0.000	0.000	0.000	1.000
40	40	1	0.5000E-01	0.000	0.000	0.000	1.000
41	41	1	0.5000E-01	0.000	0.000	0.000	1.000
42	42	1	0.5000E-01	0.000	0.000	0.000	1.000
43	43	1	0.5000E-01	0.000	0.000	0.000	1.000
44	44	1	0.5000E-01	0.000	0.000	0.000	1.000
45	45	1	0.5000E-01	0.000	0.000	0.000	1.000
46	46	1	0.5000E-01	0.000	0.000	0.000	1.000
47	47	1	0.5000E-01	0.000	0.000	0.000	1.000
48	48	1	0.5000E-01	0.000	0.000	0.000	1.000
49	49	1	0.5000E-01	0.000	0.000	0.000	1.000
50	50	1	0.5000E-01	0.000	0.000	0.000	1.000
51	51	1	0.5000E-01	0.000	0.000	0.000	1.000
52	52	1	0.5000E-01	0.000	0.000	0.000	1.000
53	53	1	0.5000E-01	0.000	0.000	0.000	1.000
54	54	1	0.5000E-01	0.000	0.000	0.000	1.000
55	55	1	0.5000E-01	0.000	0.000	0.000	1.000
56	56	1	0.5000E-01	0.000	0.000	0.000	1.000
57	57	1	0.5000E-01	0.000	0.000	0.000	1.000
58	58	1	0.5000E-01	0.000	0.000	0.000	1.000
59	59	1	0.5000E-01	0.000	0.000	0.000	1.000
60	60	1	0.5000E-01	0.000	0.000	0.000	1.000
61	61	1	0.5000E-01	0.000	0.000	0.000	1.000
62	62	1	0.5000E-01	0.000	0.000	0.000	1.000
63	63	1	0.5000E-01	0.000	0.000	0.000	1.000
64	64	1	0.5000E-01	0.000	0.000	0.000	1.000
65	65	1	0.5000E-01	0.000	0.000	0.000	1.000
66	66	1	0.5000E-01	0.000	0.000	0.000	1.000
67	67	1	0.5000E-01	0.000	0.000	0.000	1.000
68	68	1	0.5000E-01	0.000	0.000	0.000	1.000
69	69	1	0.5000E-01	0.000	0.000	0.000	1.000
70	70	1	0.5000E-01	0.000	0.000	0.000	1.000
71	71	1	0.5000E-01	0.000	0.000	0.000	1.000
72	72	1	0.5000E-01	0.000	0.000	0.000	1.000
73	73	1	0.5000E-01	0.000	0.000	0.000	1.000
74	74	1	0.5000E-01	0.000	0.000	0.000	1.000
75	75	1	0.5000E-01	0.000	0.000	0.000	1.000
76	76	1	0.5000E-01	0.000	0.000	0.000	1.000
77	77	1	0.5000E-01	0.000	0.000	0.000	1.000
78	78	1	0.5000E-01	0.000	0.000	0.000	1.000
79	79	1	0.5000E-01	0.000	0.000	0.000	1.000
80	80	1	0.5000E-01	0.000	0.000	0.000	1.000
81	81	1	0.5000E-01	0.000	0.000	0.000	1.000
82	82	1	0.5000E-01	0.000	0.000	0.000	1.000
83	83	1	0.5000E-01	0.000	0.000	0.000	1.000
84	84	1	0.5000E-01	0.000	0.000	0.000	1.000
85	85	1	0.5000E-01	0.000	0.000	0.000	1.000
86	86	1	0.5000E-01	0.000	0.000	0.000	1.000
87	87	1	0.5000E-01	0.000	0.000	0.000	1.000
88	88	1	0.5000E-01	0.000	0.000	0.000	1.000
89	89	1	0.5000E-01	0.000	0.000	0.000	1.000
90	90	1	0.5000E-01	0.000	0.000	0.000	1.000
91	91	1	0.5000E-01	0.000	0.000	0.000	1.000
92	92	1	0.5000E-01	0.000	0.000	0.000	1.000
93	93	1	0.5000E-01	0.000	0.000	0.000	1.000
94	94	1	0.5000E-01	0.000	0.000	0.000	1.000
95	95	1	0.5000E-01	0.000	0.000	0.000	1.000
96	96	1	0.5000E-01	0.000	0.000	0.000	1.000
97	97	1	0.5000E-01	0.000	0.000	0.000	1.000
98	98	1	0.5000E-01	0.000	0.000	0.000	1.000
99	99	1	0.5000E-01	0.000	0.000	0.000	1.000
100	100	1	0.5000E-01	0.000	0.000	0.000	1.000
101	101	1	0.5000E-01	0.000	0.000	0.000	1.000
102	102	1	0.5000E-01	0.000	0.000	0.000	1.000
103	103	1	0.5000E-01	0.000	0.000	0.000	1.000
104	104	1	0.5000E-01	0.000	0.000	0.000	1.000
105	105	1	0.5000E-01	0.000	0.000	0.000	1.000
106	106	1	0.5000E-01	0.000	0.000	0.000	1.000
107	107	1	0.5000E-01	0.000	0.000	0.000	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	213 di 401

RELAZIONE DI CALCOLO

108	108	1	0.5000E-01	0.000	0.000	0.000	1.000
109	109	1	0.5000E-01	0.000	0.000	0.000	1.000
110	110	1	0.5000E-01	0.000	0.000	0.000	1.000
111	111	1	0.5000E-01	0.000	0.000	0.000	1.000
112	112	1	0.5000E-01	0.000	0.000	0.000	1.000
113	113	1	0.5000E-01	0.000	0.000	0.000	1.000
114	114	1	0.5000E-01	0.000	0.000	0.000	1.000
115	115	1	0.5000E-01	0.000	0.000	0.000	1.000
116	116	1	0.5000E-01	0.000	0.000	0.000	1.000
117	117	1	0.5000E-01	0.000	0.000	0.000	1.000
118	118	1	0.5000E-01	0.000	0.000	0.000	1.000
119	119	1	0.5000E-01	0.000	0.000	0.000	1.000
120	120	1	0.5000E-01	0.000	0.000	0.000	1.000
121	121	1	0.5000E-01	0.000	0.000	0.000	1.000
122	122	1	0.5000E-01	0.000	0.000	0.000	1.000
123	123	1	0.5000E-01	0.000	0.000	0.000	1.000
124	124	1	0.5000E-01	0.000	0.000	0.000	1.000
125	125	1	0.5000E-01	0.000	0.000	0.000	1.000
126	126	1	0.5000E-01	0.000	0.000	0.000	1.000
127	127	1	0.5000E-01	0.000	0.000	0.000	1.000
128	128	1	0.5000E-01	0.000	0.000	0.000	1.000
129	129	1	0.5000E-01	0.000	0.000	0.000	1.000
130	130	1	0.5000E-01	0.000	0.000	0.000	1.000
131	131	1	0.5000E-01	0.000	0.000	0.000	1.000
132	132	1	0.5000E-01	0.000	0.000	0.000	1.000
133	133	1	0.5000E-01	0.000	0.000	0.000	1.000
134	134	1	0.5000E-01	0.000	0.000	0.000	1.000
135	135	1	0.5000E-01	0.000	0.000	0.000	1.000
136	136	1	0.5000E-01	0.000	0.000	0.000	1.000
137	137	1	0.5000E-01	0.000	0.000	0.000	1.000
138	138	1	0.5000E-01	0.000	0.000	0.000	1.000
139	139	1	0.5000E-01	0.000	0.000	0.000	1.000
140	140	1	0.5000E-01	0.000	0.000	0.000	1.000
141	141	1	0.5000E-01	0.000	0.000	0.000	1.000
142	142	1	0.5000E-01	0.000	0.000	0.000	1.000
143	143	1	0.5000E-01	0.000	0.000	0.000	1.000
144	144	1	0.5000E-01	0.000	0.000	0.000	1.000
145	145	1	0.5000E-01	0.000	0.000	0.000	1.000
146	146	1	0.5000E-01	0.000	0.000	0.000	1.000
147	147	1	0.5000E-01	0.000	0.000	0.000	1.000
148	148	1	0.5000E-01	0.000	0.000	0.000	1.000
149	149	1	0.5000E-01	0.000	0.000	0.000	1.000
150	150	1	0.5000E-01	0.000	0.000	0.000	1.000
151	151	1	0.5000E-01	0.000	0.000	0.000	1.000
152	152	1	0.5000E-01	0.000	0.000	0.000	1.000
153	153	1	0.5000E-01	0.000	0.000	0.000	1.000
154	154	1	0.5000E-01	0.000	0.000	0.000	1.000
155	155	1	0.5000E-01	0.000	0.000	0.000	1.000
156	156	1	0.5000E-01	0.000	0.000	0.000	1.000
157	157	1	0.5000E-01	0.000	0.000	0.000	1.000
158	158	1	0.5000E-01	0.000	0.000	0.000	1.000
159	159	1	0.5000E-01	0.000	0.000	0.000	1.000
160	160	1	0.5000E-01	0.000	0.000	0.000	1.000
161	161	1	0.5000E-01	0.000	0.000	0.000	1.000
162	162	1	0.5000E-01	0.000	0.000	0.000	1.000
163	163	1	0.5000E-01	0.000	0.000	0.000	1.000
164	164	1	0.5000E-01	0.000	0.000	0.000	1.000
165	165	1	0.5000E-01	0.000	0.000	0.000	1.000
166	166	1	0.5000E-01	0.000	0.000	0.000	1.000
167	167	1	0.5000E-01	0.000	0.000	0.000	1.000
168	168	1	0.5000E-01	0.000	0.000	0.000	1.000
169	169	1	0.5000E-01	0.000	0.000	0.000	1.000
170	170	1	0.5000E-01	0.000	0.000	0.000	1.000
171	171	1	0.5000E-01	0.000	0.000	0.000	1.000
172	172	1	0.5000E-01	0.000	0.000	0.000	1.000
173	173	1	0.5000E-01	0.000	0.000	0.000	1.000
174	174	1	0.5000E-01	0.000	0.000	0.000	1.000
175	175	1	0.5000E-01	0.000	0.000	0.000	1.000
176	176	1	0.5000E-01	0.000	0.000	0.000	1.000
177	177	1	0.5000E-01	0.000	0.000	0.000	1.000
178	178	1	0.5000E-01	0.000	0.000	0.000	1.000
179	179	1	0.5000E-01	0.000	0.000	0.000	1.000
180	180	1	0.5000E-01	0.000	0.000	0.000	1.000
181	181	1	0.5000E-01	0.000	0.000	0.000	1.000
182	182	1	0.5000E-01	0.000	0.000	0.000	1.000
183	183	1	0.5000E-01	0.000	0.000	0.000	1.000
184	184	1	0.5000E-01	0.000	0.000	0.000	1.000
185	185	1	0.5000E-01	0.000	0.000	0.000	1.000
186	186	1	0.5000E-01	0.000	0.000	0.000	1.000
187	187	1	0.5000E-01	0.000	0.000	0.000	1.000
188	188	1	0.5000E-01	0.000	0.000	0.000	1.000



LINEA PESCARA - BARI
 RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:
 Lotto 1: Ripalta - Lesina
 PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	214 di 401

RELAZIONE DI CALCOLO

189	189	1	0.5000E-01	0.000	0.000	0.000	1.000
190	190	1	0.5000E-01	0.000	0.000	0.000	1.000
191	191	1	0.5000E-01	0.000	0.000	0.000	1.000
192	192	1	0.5000E-01	0.000	0.000	0.000	1.000
193	193	1	0.5000E-01	0.000	0.000	0.000	1.000
194	194	1	0.5000E-01	0.000	0.000	0.000	1.000
195	195	1	0.5000E-01	0.000	0.000	0.000	1.000
196	196	1	0.5000E-01	0.000	0.000	0.000	1.000
197	197	1	0.5000E-01	0.000	0.000	0.000	1.000
198	198	1	0.5000E-01	0.000	0.000	0.000	1.000
199	199	1	0.5000E-01	0.000	0.000	0.000	1.000
200	200	1	0.4999E-01	0.000	0.000	0.000	1.000
201	201	1	0.2499E-01	0.000	0.000	0.000	1.000

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A2M2R1_956
 Exe Time :21 June 2016 11:57:46

ELEMENT GROUP NO. 2

0_R
 5 201 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage status

 1 active
 2 active
 3 active

material set no. 1

prop(1) angle 180.000
 prop(2) layer as foreseen 1.00000

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.2500E-01	0.000	0.000	0.000	2.000
2	2	1	0.5000E-01	0.000	0.000	0.000	2.000
3	3	1	0.5000E-01	0.000	0.000	0.000	2.000
4	4	1	0.5000E-01	0.000	0.000	0.000	2.000
5	5	1	0.5000E-01	0.000	0.000	0.000	2.000
6	6	1	0.5000E-01	0.000	0.000	0.000	2.000
7	7	1	0.5000E-01	0.000	0.000	0.000	2.000
8	8	1	0.5000E-01	0.000	0.000	0.000	2.000
9	9	1	0.5000E-01	0.000	0.000	0.000	2.000
10	10	1	0.5000E-01	0.000	0.000	0.000	2.000
11	11	1	0.5000E-01	0.000	0.000	0.000	2.000
12	12	1	0.5000E-01	0.000	0.000	0.000	2.000
13	13	1	0.5000E-01	0.000	0.000	0.000	2.000
14	14	1	0.5000E-01	0.000	0.000	0.000	2.000
15	15	1	0.5000E-01	0.000	0.000	0.000	2.000
16	16	1	0.5000E-01	0.000	0.000	0.000	2.000
17	17	1	0.5000E-01	0.000	0.000	0.000	2.000
18	18	1	0.5000E-01	0.000	0.000	0.000	2.000
19	19	1	0.5000E-01	0.000	0.000	0.000	2.000
20	20	1	0.5000E-01	0.000	0.000	0.000	2.000
21	21	1	0.5000E-01	0.000	0.000	0.000	2.000
22	22	1	0.5000E-01	0.000	0.000	0.000	2.000
23	23	1	0.5000E-01	0.000	0.000	0.000	2.000
24	24	1	0.5000E-01	0.000	0.000	0.000	2.000
25	25	1	0.5000E-01	0.000	0.000	0.000	2.000
26	26	1	0.5000E-01	0.000	0.000	0.000	2.000
27	27	1	0.5000E-01	0.000	0.000	0.000	2.000
28	28	1	0.5000E-01	0.000	0.000	0.000	2.000
29	29	1	0.5000E-01	0.000	0.000	0.000	2.000
30	30	1	0.5000E-01	0.000	0.000	0.000	2.000
31	31	1	0.5000E-01	0.000	0.000	0.000	2.000
32	32	1	0.5000E-01	0.000	0.000	0.000	2.000



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	215 di 401

RELAZIONE DI CALCOLO

33	33	1	0.5000E-01	0.000	0.000	0.000	2.000
34	34	1	0.5000E-01	0.000	0.000	0.000	2.000
35	35	1	0.5000E-01	0.000	0.000	0.000	2.000
36	36	1	0.5000E-01	0.000	0.000	0.000	2.000
37	37	1	0.5000E-01	0.000	0.000	0.000	2.000
38	38	1	0.5000E-01	0.000	0.000	0.000	2.000
39	39	1	0.5000E-01	0.000	0.000	0.000	2.000
40	40	1	0.5000E-01	0.000	0.000	0.000	2.000
41	41	1	0.5000E-01	0.000	0.000	0.000	2.000
42	42	1	0.5000E-01	0.000	0.000	0.000	2.000
43	43	1	0.5000E-01	0.000	0.000	0.000	2.000
44	44	1	0.5000E-01	0.000	0.000	0.000	2.000
45	45	1	0.5000E-01	0.000	0.000	0.000	2.000
46	46	1	0.5000E-01	0.000	0.000	0.000	2.000
47	47	1	0.5000E-01	0.000	0.000	0.000	2.000
48	48	1	0.5000E-01	0.000	0.000	0.000	2.000
49	49	1	0.5000E-01	0.000	0.000	0.000	2.000
50	50	1	0.5000E-01	0.000	0.000	0.000	2.000
51	51	1	0.5000E-01	0.000	0.000	0.000	2.000
52	52	1	0.5000E-01	0.000	0.000	0.000	2.000
53	53	1	0.5000E-01	0.000	0.000	0.000	2.000
54	54	1	0.5000E-01	0.000	0.000	0.000	2.000
55	55	1	0.5000E-01	0.000	0.000	0.000	2.000
56	56	1	0.5000E-01	0.000	0.000	0.000	2.000
57	57	1	0.5000E-01	0.000	0.000	0.000	2.000
58	58	1	0.5000E-01	0.000	0.000	0.000	2.000
59	59	1	0.5000E-01	0.000	0.000	0.000	2.000
60	60	1	0.5000E-01	0.000	0.000	0.000	2.000
61	61	1	0.5000E-01	0.000	0.000	0.000	2.000
62	62	1	0.5000E-01	0.000	0.000	0.000	2.000
63	63	1	0.5000E-01	0.000	0.000	0.000	2.000
64	64	1	0.5000E-01	0.000	0.000	0.000	2.000
65	65	1	0.5000E-01	0.000	0.000	0.000	2.000
66	66	1	0.5000E-01	0.000	0.000	0.000	2.000
67	67	1	0.5000E-01	0.000	0.000	0.000	2.000
68	68	1	0.5000E-01	0.000	0.000	0.000	2.000
69	69	1	0.5000E-01	0.000	0.000	0.000	2.000
70	70	1	0.5000E-01	0.000	0.000	0.000	2.000
71	71	1	0.5000E-01	0.000	0.000	0.000	2.000
72	72	1	0.5000E-01	0.000	0.000	0.000	2.000
73	73	1	0.5000E-01	0.000	0.000	0.000	2.000
74	74	1	0.5000E-01	0.000	0.000	0.000	2.000
75	75	1	0.5000E-01	0.000	0.000	0.000	2.000
76	76	1	0.5000E-01	0.000	0.000	0.000	2.000
77	77	1	0.5000E-01	0.000	0.000	0.000	2.000
78	78	1	0.5000E-01	0.000	0.000	0.000	2.000
79	79	1	0.5000E-01	0.000	0.000	0.000	2.000
80	80	1	0.5000E-01	0.000	0.000	0.000	2.000
81	81	1	0.5000E-01	0.000	0.000	0.000	2.000
82	82	1	0.5000E-01	0.000	0.000	0.000	2.000
83	83	1	0.5000E-01	0.000	0.000	0.000	2.000
84	84	1	0.5000E-01	0.000	0.000	0.000	2.000
85	85	1	0.5000E-01	0.000	0.000	0.000	2.000
86	86	1	0.5000E-01	0.000	0.000	0.000	2.000
87	87	1	0.5000E-01	0.000	0.000	0.000	2.000
88	88	1	0.5000E-01	0.000	0.000	0.000	2.000
89	89	1	0.5000E-01	0.000	0.000	0.000	2.000
90	90	1	0.5000E-01	0.000	0.000	0.000	2.000
91	91	1	0.5000E-01	0.000	0.000	0.000	2.000
92	92	1	0.5000E-01	0.000	0.000	0.000	2.000
93	93	1	0.5000E-01	0.000	0.000	0.000	2.000
94	94	1	0.5000E-01	0.000	0.000	0.000	2.000
95	95	1	0.5000E-01	0.000	0.000	0.000	2.000
96	96	1	0.5000E-01	0.000	0.000	0.000	2.000
97	97	1	0.5000E-01	0.000	0.000	0.000	2.000
98	98	1	0.5000E-01	0.000	0.000	0.000	2.000
99	99	1	0.5000E-01	0.000	0.000	0.000	2.000
100	100	1	0.5000E-01	0.000	0.000	0.000	2.000
101	101	1	0.5000E-01	0.000	0.000	0.000	2.000
102	102	1	0.5000E-01	0.000	0.000	0.000	2.000
103	103	1	0.5000E-01	0.000	0.000	0.000	2.000
104	104	1	0.5000E-01	0.000	0.000	0.000	2.000
105	105	1	0.5000E-01	0.000	0.000	0.000	2.000
106	106	1	0.5000E-01	0.000	0.000	0.000	2.000
107	107	1	0.5000E-01	0.000	0.000	0.000	2.000
108	108	1	0.5000E-01	0.000	0.000	0.000	2.000
109	109	1	0.5000E-01	0.000	0.000	0.000	2.000
110	110	1	0.5000E-01	0.000	0.000	0.000	2.000
111	111	1	0.5000E-01	0.000	0.000	0.000	2.000
112	112	1	0.5000E-01	0.000	0.000	0.000	2.000
113	113	1	0.5000E-01	0.000	0.000	0.000	2.000



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	216 di 401

RELAZIONE DI CALCOLO

114	114	1	0.5000E-01	0.000	0.000	0.000	2.000
115	115	1	0.5000E-01	0.000	0.000	0.000	2.000
116	116	1	0.5000E-01	0.000	0.000	0.000	2.000
117	117	1	0.5000E-01	0.000	0.000	0.000	2.000
118	118	1	0.5000E-01	0.000	0.000	0.000	2.000
119	119	1	0.5000E-01	0.000	0.000	0.000	2.000
120	120	1	0.5000E-01	0.000	0.000	0.000	2.000
121	121	1	0.5000E-01	0.000	0.000	0.000	2.000
122	122	1	0.5000E-01	0.000	0.000	0.000	2.000
123	123	1	0.5000E-01	0.000	0.000	0.000	2.000
124	124	1	0.5000E-01	0.000	0.000	0.000	2.000
125	125	1	0.5000E-01	0.000	0.000	0.000	2.000
126	126	1	0.5000E-01	0.000	0.000	0.000	2.000
127	127	1	0.5000E-01	0.000	0.000	0.000	2.000
128	128	1	0.5000E-01	0.000	0.000	0.000	2.000
129	129	1	0.5000E-01	0.000	0.000	0.000	2.000
130	130	1	0.5000E-01	0.000	0.000	0.000	2.000
131	131	1	0.5000E-01	0.000	0.000	0.000	2.000
132	132	1	0.5000E-01	0.000	0.000	0.000	2.000
133	133	1	0.5000E-01	0.000	0.000	0.000	2.000
134	134	1	0.5000E-01	0.000	0.000	0.000	2.000
135	135	1	0.5000E-01	0.000	0.000	0.000	2.000
136	136	1	0.5000E-01	0.000	0.000	0.000	2.000
137	137	1	0.5000E-01	0.000	0.000	0.000	2.000
138	138	1	0.5000E-01	0.000	0.000	0.000	2.000
139	139	1	0.5000E-01	0.000	0.000	0.000	2.000
140	140	1	0.5000E-01	0.000	0.000	0.000	2.000
141	141	1	0.5000E-01	0.000	0.000	0.000	2.000
142	142	1	0.5000E-01	0.000	0.000	0.000	2.000
143	143	1	0.5000E-01	0.000	0.000	0.000	2.000
144	144	1	0.5000E-01	0.000	0.000	0.000	2.000
145	145	1	0.5000E-01	0.000	0.000	0.000	2.000
146	146	1	0.5000E-01	0.000	0.000	0.000	2.000
147	147	1	0.5000E-01	0.000	0.000	0.000	2.000
148	148	1	0.5000E-01	0.000	0.000	0.000	2.000
149	149	1	0.5000E-01	0.000	0.000	0.000	2.000
150	150	1	0.5000E-01	0.000	0.000	0.000	2.000
151	151	1	0.5000E-01	0.000	0.000	0.000	2.000
152	152	1	0.5000E-01	0.000	0.000	0.000	2.000
153	153	1	0.5000E-01	0.000	0.000	0.000	2.000
154	154	1	0.5000E-01	0.000	0.000	0.000	2.000
155	155	1	0.5000E-01	0.000	0.000	0.000	2.000
156	156	1	0.5000E-01	0.000	0.000	0.000	2.000
157	157	1	0.5000E-01	0.000	0.000	0.000	2.000
158	158	1	0.5000E-01	0.000	0.000	0.000	2.000
159	159	1	0.5000E-01	0.000	0.000	0.000	2.000
160	160	1	0.5000E-01	0.000	0.000	0.000	2.000
161	161	1	0.5000E-01	0.000	0.000	0.000	2.000
162	162	1	0.5000E-01	0.000	0.000	0.000	2.000
163	163	1	0.5000E-01	0.000	0.000	0.000	2.000
164	164	1	0.5000E-01	0.000	0.000	0.000	2.000
165	165	1	0.5000E-01	0.000	0.000	0.000	2.000
166	166	1	0.5000E-01	0.000	0.000	0.000	2.000
167	167	1	0.5000E-01	0.000	0.000	0.000	2.000
168	168	1	0.5000E-01	0.000	0.000	0.000	2.000
169	169	1	0.5000E-01	0.000	0.000	0.000	2.000
170	170	1	0.5000E-01	0.000	0.000	0.000	2.000
171	171	1	0.5000E-01	0.000	0.000	0.000	2.000
172	172	1	0.5000E-01	0.000	0.000	0.000	2.000
173	173	1	0.5000E-01	0.000	0.000	0.000	2.000
174	174	1	0.5000E-01	0.000	0.000	0.000	2.000
175	175	1	0.5000E-01	0.000	0.000	0.000	2.000
176	176	1	0.5000E-01	0.000	0.000	0.000	2.000
177	177	1	0.5000E-01	0.000	0.000	0.000	2.000
178	178	1	0.5000E-01	0.000	0.000	0.000	2.000
179	179	1	0.5000E-01	0.000	0.000	0.000	2.000
180	180	1	0.5000E-01	0.000	0.000	0.000	2.000
181	181	1	0.5000E-01	0.000	0.000	0.000	2.000
182	182	1	0.5000E-01	0.000	0.000	0.000	2.000
183	183	1	0.5000E-01	0.000	0.000	0.000	2.000
184	184	1	0.5000E-01	0.000	0.000	0.000	2.000
185	185	1	0.5000E-01	0.000	0.000	0.000	2.000
186	186	1	0.5000E-01	0.000	0.000	0.000	2.000
187	187	1	0.5000E-01	0.000	0.000	0.000	2.000
188	188	1	0.5000E-01	0.000	0.000	0.000	2.000
189	189	1	0.5000E-01	0.000	0.000	0.000	2.000
190	190	1	0.5000E-01	0.000	0.000	0.000	2.000
191	191	1	0.5000E-01	0.000	0.000	0.000	2.000
192	192	1	0.5000E-01	0.000	0.000	0.000	2.000
193	193	1	0.5000E-01	0.000	0.000	0.000	2.000
194	194	1	0.5000E-01	0.000	0.000	0.000	2.000



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	217 di 401

RELAZIONE DI CALCOLO

195	195	1	0.5000E-01	0.000	0.000	0.000	2.000
196	196	1	0.5000E-01	0.000	0.000	0.000	2.000
197	197	1	0.5000E-01	0.000	0.000	0.000	2.000
198	198	1	0.5000E-01	0.000	0.000	0.000	2.000
199	199	1	0.5000E-01	0.000	0.000	0.000	2.000
200	200	1	0.4999E-01	0.000	0.000	0.000	2.000
201	201	1	0.2499E-01	0.000	0.000	0.000	2.000

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A2M2R1_956
Exe Time :21 June 2016 11:57:46

ELEMENT GROUP NO. 3

WallElement_33 :
2 200 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0

.....2D WALL ELEMENT.....

element group behaviour throughout stage analysis

stage status

1 inactive
2 active
3 active

material set no. 1

prop(1) young modulus 0.210000E+09
prop(2) modification time 0.00000
prop(3) new young modulus 0.00000
prop(4) poisson ratio 0.00000
prop(5) future0.168200E-43

no. of step variable items: 1
step inertia multiplier

1 1.000
2 1.000
3 1.000

element data

el	na	nb	mat	erc1	erc2	thick
----	----	----	-----	------	------	-------

1	1	2	1	0.000	0.000	0.1381
2	2	3	1	0.000	0.000	0.1381
3	3	4	1	0.000	0.000	0.1381
4	4	5	1	0.000	0.000	0.1381
5	5	6	1	0.000	0.000	0.1381
6	6	7	1	0.000	0.000	0.1381
7	7	8	1	0.000	0.000	0.1381
8	8	9	1	0.000	0.000	0.1381
9	9	10	1	0.000	0.000	0.1381
10	10	11	1	0.000	0.000	0.1381
11	11	12	1	0.000	0.000	0.1381
12	12	13	1	0.000	0.000	0.1381
13	13	14	1	0.000	0.000	0.1381
14	14	15	1	0.000	0.000	0.1381
15	15	16	1	0.000	0.000	0.1381
16	16	17	1	0.000	0.000	0.1381
17	17	18	1	0.000	0.000	0.1381
18	18	19	1	0.000	0.000	0.1381
19	19	20	1	0.000	0.000	0.1381
20	20	21	1	0.000	0.000	0.1381
21	21	22	1	0.000	0.000	0.1381
22	22	23	1	0.000	0.000	0.1381
23	23	24	1	0.000	0.000	0.1381
24	24	25	1	0.000	0.000	0.1381
25	25	26	1	0.000	0.000	0.1381
26	26	27	1	0.000	0.000	0.1381
27	27	28	1	0.000	0.000	0.1381
28	28	29	1	0.000	0.000	0.1381
29	29	30	1	0.000	0.000	0.1381

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	218 di 401

30	30	31	1	0.000	0.000	0.1381
31	31	32	1	0.000	0.000	0.1381
32	32	33	1	0.000	0.000	0.1381
33	33	34	1	0.000	0.000	0.1381
34	34	35	1	0.000	0.000	0.1381
35	35	36	1	0.000	0.000	0.1381
36	36	37	1	0.000	0.000	0.1381
37	37	38	1	0.000	0.000	0.1381
38	38	39	1	0.000	0.000	0.1381
39	39	40	1	0.000	0.000	0.1381
40	40	41	1	0.000	0.000	0.1381
41	41	42	1	0.000	0.000	0.1381
42	42	43	1	0.000	0.000	0.1381
43	43	44	1	0.000	0.000	0.1381
44	44	45	1	0.000	0.000	0.1381
45	45	46	1	0.000	0.000	0.1381
46	46	47	1	0.000	0.000	0.1381
47	47	48	1	0.000	0.000	0.1381
48	48	49	1	0.000	0.000	0.1381
49	49	50	1	0.000	0.000	0.1381
50	50	51	1	0.000	0.000	0.1381
51	51	52	1	0.000	0.000	0.1381
52	52	53	1	0.000	0.000	0.1381
53	53	54	1	0.000	0.000	0.1381
54	54	55	1	0.000	0.000	0.1381
55	55	56	1	0.000	0.000	0.1381
56	56	57	1	0.000	0.000	0.1381
57	57	58	1	0.000	0.000	0.1381
58	58	59	1	0.000	0.000	0.1381
59	59	60	1	0.000	0.000	0.1381
60	60	61	1	0.000	0.000	0.1381
61	61	62	1	0.000	0.000	0.1381
62	62	63	1	0.000	0.000	0.1381
63	63	64	1	0.000	0.000	0.1381
64	64	65	1	0.000	0.000	0.1381
65	65	66	1	0.000	0.000	0.1381
66	66	67	1	0.000	0.000	0.1381
67	67	68	1	0.000	0.000	0.1381
68	68	69	1	0.000	0.000	0.1381
69	69	70	1	0.000	0.000	0.1381
70	70	71	1	0.000	0.000	0.1381
71	71	72	1	0.000	0.000	0.1381
72	72	73	1	0.000	0.000	0.1381
73	73	74	1	0.000	0.000	0.1381
74	74	75	1	0.000	0.000	0.1381
75	75	76	1	0.000	0.000	0.1381
76	76	77	1	0.000	0.000	0.1381
77	77	78	1	0.000	0.000	0.1381
78	78	79	1	0.000	0.000	0.1381
79	79	80	1	0.000	0.000	0.1381
80	80	81	1	0.000	0.000	0.1381
81	81	82	1	0.000	0.000	0.1381
82	82	83	1	0.000	0.000	0.1381
83	83	84	1	0.000	0.000	0.1381
84	84	85	1	0.000	0.000	0.1381
85	85	86	1	0.000	0.000	0.1381
86	86	87	1	0.000	0.000	0.1381
87	87	88	1	0.000	0.000	0.1381
88	88	89	1	0.000	0.000	0.1381
89	89	90	1	0.000	0.000	0.1381
90	90	91	1	0.000	0.000	0.1381
91	91	92	1	0.000	0.000	0.1381
92	92	93	1	0.000	0.000	0.1381
93	93	94	1	0.000	0.000	0.1381
94	94	95	1	0.000	0.000	0.1381
95	95	96	1	0.000	0.000	0.1381
96	96	97	1	0.000	0.000	0.1381
97	97	98	1	0.000	0.000	0.1381
98	98	99	1	0.000	0.000	0.1381
99	99	100	1	0.000	0.000	0.1381
100	100	101	1	0.000	0.000	0.1381
101	101	102	1	0.000	0.000	0.1381
102	102	103	1	0.000	0.000	0.1381
103	103	104	1	0.000	0.000	0.1381
104	104	105	1	0.000	0.000	0.1381
105	105	106	1	0.000	0.000	0.1381
106	106	107	1	0.000	0.000	0.1381
107	107	108	1	0.000	0.000	0.1381
108	108	109	1	0.000	0.000	0.1381
109	109	110	1	0.000	0.000	0.1381
110	110	111	1	0.000	0.000	0.1381



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	219 di 401

RELAZIONE DI CALCOLO

111	111	112	1	0.000	0.000	0.1381
112	112	113	1	0.000	0.000	0.1381
113	113	114	1	0.000	0.000	0.1381
114	114	115	1	0.000	0.000	0.1381
115	115	116	1	0.000	0.000	0.1381
116	116	117	1	0.000	0.000	0.1381
117	117	118	1	0.000	0.000	0.1381
118	118	119	1	0.000	0.000	0.1381
119	119	120	1	0.000	0.000	0.1381
120	120	121	1	0.000	0.000	0.1381
121	121	122	1	0.000	0.000	0.1381
122	122	123	1	0.000	0.000	0.1381
123	123	124	1	0.000	0.000	0.1381
124	124	125	1	0.000	0.000	0.1381
125	125	126	1	0.000	0.000	0.1381
126	126	127	1	0.000	0.000	0.1381
127	127	128	1	0.000	0.000	0.1381
128	128	129	1	0.000	0.000	0.1381
129	129	130	1	0.000	0.000	0.1381
130	130	131	1	0.000	0.000	0.1381
131	131	132	1	0.000	0.000	0.1381
132	132	133	1	0.000	0.000	0.1381
133	133	134	1	0.000	0.000	0.1381
134	134	135	1	0.000	0.000	0.1381
135	135	136	1	0.000	0.000	0.1381
136	136	137	1	0.000	0.000	0.1381
137	137	138	1	0.000	0.000	0.1381
138	138	139	1	0.000	0.000	0.1381
139	139	140	1	0.000	0.000	0.1381
140	140	141	1	0.000	0.000	0.1381
141	141	142	1	0.000	0.000	0.1381
142	142	143	1	0.000	0.000	0.1381
143	143	144	1	0.000	0.000	0.1381
144	144	145	1	0.000	0.000	0.1381
145	145	146	1	0.000	0.000	0.1381
146	146	147	1	0.000	0.000	0.1381
147	147	148	1	0.000	0.000	0.1381
148	148	149	1	0.000	0.000	0.1381
149	149	150	1	0.000	0.000	0.1381
150	150	151	1	0.000	0.000	0.1381
151	151	152	1	0.000	0.000	0.1381
152	152	153	1	0.000	0.000	0.1381
153	153	154	1	0.000	0.000	0.1381
154	154	155	1	0.000	0.000	0.1381
155	155	156	1	0.000	0.000	0.1381
156	156	157	1	0.000	0.000	0.1381
157	157	158	1	0.000	0.000	0.1381
158	158	159	1	0.000	0.000	0.1381
159	159	160	1	0.000	0.000	0.1381
160	160	161	1	0.000	0.000	0.1381
161	161	162	1	0.000	0.000	0.1381
162	162	163	1	0.000	0.000	0.1381
163	163	164	1	0.000	0.000	0.1381
164	164	165	1	0.000	0.000	0.1381
165	165	166	1	0.000	0.000	0.1381
166	166	167	1	0.000	0.000	0.1381
167	167	168	1	0.000	0.000	0.1381
168	168	169	1	0.000	0.000	0.1381
169	169	170	1	0.000	0.000	0.1381
170	170	171	1	0.000	0.000	0.1381
171	171	172	1	0.000	0.000	0.1381
172	172	173	1	0.000	0.000	0.1381
173	173	174	1	0.000	0.000	0.1381
174	174	175	1	0.000	0.000	0.1381
175	175	176	1	0.000	0.000	0.1381
176	176	177	1	0.000	0.000	0.1381
177	177	178	1	0.000	0.000	0.1381
178	178	179	1	0.000	0.000	0.1381
179	179	180	1	0.000	0.000	0.1381
180	180	181	1	0.000	0.000	0.1381
181	181	182	1	0.000	0.000	0.1381
182	182	183	1	0.000	0.000	0.1381
183	183	184	1	0.000	0.000	0.1381
184	184	185	1	0.000	0.000	0.1381
185	185	186	1	0.000	0.000	0.1381
186	186	187	1	0.000	0.000	0.1381
187	187	188	1	0.000	0.000	0.1381
188	188	189	1	0.000	0.000	0.1381
189	189	190	1	0.000	0.000	0.1381
190	190	191	1	0.000	0.000	0.1381
191	191	192	1	0.000	0.000	0.1381



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	220 di 401

RELAZIONE DI CALCOLO

192	192	193	1	0.000	0.000	0.1381
193	193	194	1	0.000	0.000	0.1381
194	194	195	1	0.000	0.000	0.1381
195	195	196	1	0.000	0.000	0.1381
196	196	197	1	0.000	0.000	0.1381
197	197	198	1	0.000	0.000	0.1381
198	198	199	1	0.000	0.000	0.1381
199	199	200	1	0.000	0.000	0.1381
200	200	201	1	0.000	0.000	0.1381

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A2M2R1_956
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NO. OF NODAL LOADS (NLOAD) 0
NO. OF LOAD CURVES (NLCUR) 6
MAXIMUM POINTS/LCURVE (NPTM)..... 5

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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LOAD DATA

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
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LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	221 di 401

RELAZIONE DI CALCOLO

0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
4.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*
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|
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L O A D B A L A N C E

STEP	1	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	1	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	2	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	2	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	3	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	3	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*
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|
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NO. OF LAYERS 1
NO. OF DATA PER LAYER..... 100



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	222 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO.	1<NAME	>= 10.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 8.0000	WALL NO.	1
ITEM NO.	8<U-COHE	>= 8.0000	WALL NO.	2
ITEM NO.	9<U-FRICT	>= 20.460	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 20.460	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.48200	WALL NO.	1
ITEM NO.	11<U-KP	>= 2.6370	WALL NO.	1
ITEM NO.	12<KO-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO.	52<D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 8.0000	WALL NO.	1
ITEM NO.	58<D-COHE	>= 8.0000	WALL NO.	2
ITEM NO.	59<D-FRICT	>= 20.460	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 20.460	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.48200	WALL NO.	1
ITEM NO.	61<D-KP	>= 2.6370	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-07	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 2

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 2

ITEM NO.	1<NAME	>= 10.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 8.0000	WALL NO.	1
ITEM NO.	8<U-COHE	>= 8.0000	WALL NO.	2
ITEM NO.	9<U-FRICT	>= 20.460	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 20.460	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.48200	WALL NO.	1
ITEM NO.	11<U-KP	>= 2.6370	WALL NO.	1
ITEM NO.	12<KO-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO.	52<D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 8.0000	WALL NO.	1
ITEM NO.	58<D-COHE	>= 8.0000	WALL NO.	2
ITEM NO.	59<D-FRICT	>= 20.460	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 20.460	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.48200	WALL NO.	1
ITEM NO.	61<D-KP	>= 2.6370	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-07	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 3



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVISIONALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	223 di 401

RELAZIONE DI CALCOLO

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO.	1<NAME	>= 10.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 8.0000	WALL NO.	1
ITEM NO.	8<U-COHE	>= 8.0000	WALL NO.	2
ITEM NO.	9<U-FRICT	>= 20.460	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 20.460	WALL NO.	2
ITEM NO.	10<U-RA	>= 0.48200	WALL NO.	1
ITEM NO.	11<U-KP	>= 2.6370	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO.	52<D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 8.0000	WALL NO.	1
ITEM NO.	58<D-COHE	>= 8.0000	WALL NO.	2
ITEM NO.	59<D-FRICT	>= 20.460	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 20.460	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.48200	WALL NO.	1
ITEM NO.	61<D-KP	>= 2.6370	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-07	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON 3 VALUES

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-4.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-10.00	-10.00
WATER BEHAVIOUR_FLAG (LINING OPT)		0.000	0.000
PORE_UPDATE_FLAG		0.000	0.000
PORE_TAB_FLAG (gt.0= use tabs)		0.000	0.000
lateral thrusts reduction elevatio		0.000	0.000
Downhill reduction factor for effe		0.000	0.000
Downhill reduction factor for pore		0.000	0.000
Uphill reduction factor for effect		0.000	0.000
Uphill reduction factor for pore p		0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]		0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]		0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]		0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]		0.000	0.000
UPHILL DELTA/PHI RATIO		0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]		0.000	0.000
DOWNHILL DELTA/PHI RATIO		0.000	0.000
DYN.WATER BEHAVIOUR		0.000	0.000
Excess pore pressure RATIO Ru		0.000	0.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	225 di 401

RELAZIONE DI CALCOLO

====end of step 3

LEFT-HAND WALL

LOWER LEVEL -10.00000
UPPER LEVEL 0.00000

RIGHT-HAND WALL

LOWER LEVEL -10.00000
UPPER LEVEL 0.00000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT POSITION 3748

NO. OF D.P.W FOR THIS AREA 18840
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 40

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM= 5652. RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 6.817 RMMAX = 0.000
RTSMAL=0.1000E-04 RMSMAL= 0.000
RDT = 5652. RDR = 0.000
RATIOT= 0.000 RATIOR= 0.000
MAX UN= 0.000 IEQ= 402 NODE 201 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM= 5652. RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 6.817 RMMAX = 0.000
RTSMAL=0.1000E-04 RMSMAL= 0.000
RDT = 5652. RDR = 0.000
RATIOT= 0.000 RATIOR= 0.000
MAX UN= 0.000 IEQ= 402 NODE 201 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM= 5652. RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 6.817 RMMAX = 0.000
RTSMAL=0.1000E-04 RMSMAL= 0.000
RDT = 5652. RDR = 0.000
RATIOT= 0.000 RATIOR= 0.000
MAX UN= 0.000 IEQ= 402 NODE 201 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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paratia_mario
SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

Y-DISPL.F X-ROT. F
{02} {04} (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	226 di 401

RELAZIONE DI CALCOLO

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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paratia_mario

STRESS RESULTS FOR GROUP NO. 1

Q_L :
ELEMENT TYPE 5 NO.OF ELEMENTS IN THIS GROUP 201
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
UFACTOR	Peq	Su_a	Su_p	LAYER							
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.7008E+05	0.000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	5AL_158_160_L_0						
2 D	2.8182E-02	0.000	0.9500	0.5636	0.9500	0.5636	V-C	2.7008E+05	-5.0000E-02	0.000	1.000
1.000	0.5636	0.000	0.000	0.000	5AL_158_160_L_0						
3 D	5.6364E-02	0.000	1.900	1.127	1.900	1.127	V-C	2.7008E+05	-0.1000	0.000	1.000
1.000	1.127	0.000	0.000	0.000	5AL_158_160_L_0						
4 D	8.4545E-02	0.000	2.850	1.691	2.850	1.691	V-C	2.7008E+05	-0.1500	0.000	1.000
1.000	1.691	0.000	0.000	0.000	5AL_158_160_L_0						
5 D	0.1127	0.000	3.800	2.255	3.800	2.255	V-C	2.7008E+05	-0.2000	0.000	1.000
1.000	2.255	0.000	0.000	0.000	5AL_158_160_L_0						
6 D	0.1409	0.000	4.750	2.818	4.750	2.818	V-C	2.7008E+05	-0.2500	0.000	1.000
1.000	2.818	0.000	0.000	0.000	5AL_158_160_L_0						
7 D	0.1691	0.000	5.700	3.382	5.700	3.382	V-C	2.7008E+05	-0.3000	0.000	1.000
1.000	3.382	0.000	0.000	0.000	5AL_158_160_L_0						
8 D	0.1973	0.000	6.650	3.945	6.650	3.945	V-C	2.7008E+05	-0.3500	0.000	1.000
1.000	3.945	0.000	0.000	0.000	5AL_158_160_L_0						
9 D	0.2255	0.000	7.600	4.509	7.600	4.509	V-C	2.7008E+05	-0.4000	0.000	1.000
1.000	4.509	0.000	0.000	0.000	5AL_158_160_L_0						
10 D	0.2536	0.000	8.550	5.073	8.550	5.073	V-C	2.7008E+05	-0.4500	0.000	1.000
1.000	5.073	0.000	0.000	0.000	5AL_158_160_L_0						
11 D	0.2818	0.000	9.500	5.636	9.500	5.636	V-C	2.7008E+05	-0.5000	0.000	1.000
1.000	5.636	0.000	0.000	0.000	5AL_158_160_L_0						
12 D	0.3100	0.000	10.45	6.200	10.45	6.200	V-C	2.7008E+05	-0.5500	0.000	1.000
1.000	6.200	0.000	0.000	0.000	5AL_158_160_L_0						
13 D	0.3382	0.000	11.40	6.764	11.40	6.764	V-C	2.7008E+05	-0.6000	0.000	1.000
1.000	6.764	0.000	0.000	0.000	5AL_158_160_L_0						
14 D	0.3664	0.000	12.35	7.327	12.35	7.327	V-C	2.7008E+05	-0.6500	0.000	1.000
1.000	7.327	0.000	0.000	0.000	5AL_158_160_L_0						
15 D	0.3945	0.000	13.30	7.891	13.30	7.891	V-C	2.7008E+05	-0.7000	0.000	1.000
1.000	7.891	0.000	0.000	0.000	5AL_158_160_L_0						
16 D	0.4227	0.000	14.25	8.455	14.25	8.455	V-C	2.7008E+05	-0.7500	0.000	1.000
1.000	8.455	0.000	0.000	0.000	5AL_158_160_L_0						
17 D	0.4509	0.000	15.20	9.018	15.20	9.018	V-C	2.7008E+05	-0.8000	0.000	1.000
1.000	9.018	0.000	0.000	0.000	5AL_158_160_L_0						
18 D	0.4791	0.000	16.15	9.582	16.15	9.582	V-C	2.7008E+05	-0.8500	0.000	1.000
1.000	9.582	0.000	0.000	0.000	5AL_158_160_L_0						
19 D	0.5073	0.000	17.10	10.15	17.10	10.15	V-C	2.7008E+05	-0.9000	0.000	1.000
1.000	10.15	0.000	0.000	0.000	5AL_158_160_L_0						
20 D	0.5355	0.000	18.05	10.71	18.05	10.71	V-C	2.7008E+05	-0.9500	0.000	1.000
1.000	10.71	0.000	0.000	0.000	5AL_158_160_L_0						
21 D	0.5636	0.000	19.00	11.27	19.00	11.27	V-C	2.7008E+05	-1.000	0.000	1.000
1.000	11.27	0.000	0.000	0.000	5AL_158_160_L_0						
22 D	0.5918	0.000	19.95	11.84	19.95	11.84	V-C	2.7008E+05	-1.050	0.000	1.000
1.000	11.84	0.000	0.000	0.000	5AL_158_160_L_0						
23 D	0.6200	0.000	20.90	12.40	20.90	12.40	V-C	2.7008E+05	-1.100	0.000	1.000
1.000	12.40	0.000	0.000	0.000	5AL_158_160_L_0						
24 D	0.6482	0.000	21.85	12.96	21.85	12.96	V-C	2.7008E+05	-1.150	0.000	1.000
1.000	12.96	0.000	0.000	0.000	5AL_158_160_L_0						
25 D	0.6764	0.000	22.80	13.53	22.80	13.53	V-C	2.7008E+05	-1.200	0.000	1.000
1.000	13.53	0.000	0.000	0.000	5AL_158_160_L_0						
26 D	0.7045	0.000	23.75	14.09	23.75	14.09	V-C	2.7008E+05	-1.250	0.000	1.000
1.000	14.09	0.000	0.000	0.000	5AL_158_160_L_0						
27 D	0.7327	0.000	24.70	14.65	24.70	14.65	V-C	2.7008E+05	-1.300	0.000	1.000
1.000	14.65	0.000	0.000	0.000	5AL_158_160_L_0						
28 D	0.7609	0.000	25.65	15.22	25.65	15.22	V-C	2.7008E+05	-1.350	0.000	1.000
1.000	15.22	0.000	0.000	0.000	5AL_158_160_L_0						

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	227 di 401

29 D	0.7891	0.000	26.60	15.78	26.60	15.78	V-C	2.7008E+05	-1.400	0.000	1.000
1.000	15.78	0.000	0.000	5AL_158_160_L_0							
30 D	0.8173	0.000	27.55	16.35	27.55	16.35	V-C	2.7008E+05	-1.450	0.000	1.000
1.000	16.35	0.000	0.000	5AL_158_160_L_0							
31 D	0.8455	0.000	28.50	16.91	28.50	16.91	V-C	2.7008E+05	-1.500	0.000	1.000
1.000	16.91	0.000	0.000	5AL_158_160_L_0							
32 D	0.8736	0.000	29.45	17.47	29.45	17.47	V-C	2.7008E+05	-1.550	0.000	1.000
1.000	17.47	0.000	0.000	5AL_158_160_L_0							
33 D	0.9018	0.000	30.40	18.04	30.40	18.04	V-C	2.7008E+05	-1.600	0.000	1.000
1.000	18.04	0.000	0.000	5AL_158_160_L_0							
34 D	0.9300	0.000	31.35	18.60	31.35	18.60	V-C	2.7008E+05	-1.650	0.000	1.000
1.000	18.60	0.000	0.000	5AL_158_160_L_0							
35 D	0.9582	0.000	32.30	19.16	32.30	19.16	V-C	2.7008E+05	-1.700	0.000	1.000
1.000	19.16	0.000	0.000	5AL_158_160_L_0							
36 D	0.9864	0.000	33.25	19.73	33.25	19.73	V-C	2.7008E+05	-1.750	0.000	1.000
1.000	19.73	0.000	0.000	5AL_158_160_L_0							
37 D	1.015	0.000	34.20	20.29	34.20	20.29	V-C	2.7008E+05	-1.800	0.000	1.000
1.000	20.29	0.000	0.000	5AL_158_160_L_0							
38 D	1.043	0.000	35.15	20.85	35.15	20.85	V-C	2.7008E+05	-1.850	0.000	1.000
1.000	20.85	0.000	0.000	5AL_158_160_L_0							
39 D	1.071	0.000	36.10	21.42	36.10	21.42	V-C	2.7008E+05	-1.900	0.000	1.000
1.000	21.42	0.000	0.000	5AL_158_160_L_0							
40 D	1.099	0.000	37.05	21.98	37.05	21.98	V-C	2.7008E+05	-1.950	0.000	1.000
1.000	21.98	0.000	0.000	5AL_158_160_L_0							
41 D	1.127	0.000	38.00	22.55	38.00	22.55	V-C	2.7008E+05	-2.000	0.000	1.000
1.000	22.55	0.000	0.000	5AL_158_160_L_0							
42 D	1.155	0.000	38.95	23.11	38.95	23.11	V-C	2.7008E+05	-2.050	0.000	1.000
1.000	23.11	0.000	0.000	5AL_158_160_L_0							
43 D	1.184	0.000	39.90	23.67	39.90	23.67	V-C	2.7008E+05	-2.100	0.000	1.000
1.000	23.67	0.000	0.000	5AL_158_160_L_0							
44 D	1.212	0.000	40.85	24.24	40.85	24.24	V-C	2.7008E+05	-2.150	0.000	1.000
1.000	24.24	0.000	0.000	5AL_158_160_L_0							
45 D	1.240	0.000	41.80	24.80	41.80	24.80	V-C	2.7008E+05	-2.200	0.000	1.000
1.000	24.80	0.000	0.000	5AL_158_160_L_0							
46 D	1.268	0.000	42.75	25.36	42.75	25.36	V-C	2.7008E+05	-2.250	0.000	1.000
1.000	25.36	0.000	0.000	5AL_158_160_L_0							
47 D	1.296	0.000	43.70	25.93	43.70	25.93	V-C	2.7008E+05	-2.300	0.000	1.000
1.000	25.93	0.000	0.000	5AL_158_160_L_0							
48 D	1.325	0.000	44.65	26.49	44.65	26.49	V-C	2.7008E+05	-2.350	0.000	1.000
1.000	26.49	0.000	0.000	5AL_158_160_L_0							
49 D	1.353	0.000	45.60	27.05	45.60	27.05	V-C	2.7008E+05	-2.400	0.000	1.000
1.000	27.05	0.000	0.000	5AL_158_160_L_0							
50 D	1.381	0.000	46.55	27.62	46.55	27.62	V-C	2.7008E+05	-2.450	0.000	1.000
1.000	27.62	0.000	0.000	5AL_158_160_L_0							
51 D	1.409	0.000	47.50	28.18	47.50	28.18	V-C	2.7008E+05	-2.500	0.000	1.000
1.000	28.18	0.000	0.000	5AL_158_160_L_0							
52 D	1.437	0.000	48.45	28.75	48.45	28.75	V-C	2.7008E+05	-2.550	0.000	1.000
1.000	28.75	0.000	0.000	5AL_158_160_L_0							
53 D	1.465	0.000	49.40	29.31	49.40	29.31	V-C	2.7008E+05	-2.600	0.000	1.000
1.000	29.31	0.000	0.000	5AL_158_160_L_0							
54 D	1.494	0.000	50.35	29.87	50.35	29.87	V-C	2.7008E+05	-2.650	0.000	1.000
1.000	29.87	0.000	0.000	5AL_158_160_L_0							
55 D	1.522	0.000	51.30	30.44	51.30	30.44	V-C	2.7008E+05	-2.700	0.000	1.000
1.000	30.44	0.000	0.000	5AL_158_160_L_0							
56 D	1.550	0.000	52.25	31.00	52.25	31.00	V-C	2.7008E+05	-2.750	0.000	1.000
1.000	31.00	0.000	0.000	5AL_158_160_L_0							
57 D	1.578	0.000	53.20	31.56	53.20	31.56	V-C	2.7008E+05	-2.800	0.000	1.000
1.000	31.56	0.000	0.000	5AL_158_160_L_0							
58 D	1.606	0.000	54.15	32.13	54.15	32.13	V-C	2.7008E+05	-2.850	0.000	1.000
1.000	32.13	0.000	0.000	5AL_158_160_L_0							
59 D	1.635	0.000	55.10	32.69	55.10	32.69	V-C	2.7008E+05	-2.900	0.000	1.000
1.000	32.69	0.000	0.000	5AL_158_160_L_0							
60 D	1.663	0.000	56.05	33.25	56.05	33.25	V-C	2.7008E+05	-2.950	0.000	1.000
1.000	33.25	0.000	0.000	5AL_158_160_L_0							
61 D	1.691	0.000	57.00	33.82	57.00	33.82	V-C	2.7008E+05	-3.000	0.000	1.000
1.000	33.82	0.000	0.000	5AL_158_160_L_0							
62 D	1.719	0.000	57.95	34.38	57.95	34.38	V-C	2.7008E+05	-3.050	0.000	1.000
1.000	34.38	0.000	0.000	5AL_158_160_L_0							
63 D	1.747	0.000	58.90	34.95	58.90	34.95	V-C	2.7008E+05	-3.100	0.000	1.000
1.000	34.95	0.000	0.000	5AL_158_160_L_0							
64 D	1.775	0.000	59.85	35.51	59.85	35.51	V-C	2.7008E+05	-3.150	0.000	1.000
1.000	35.51	0.000	0.000	5AL_158_160_L_0							
65 D	1.804	0.000	60.80	36.07	60.80	36.07	V-C	2.7008E+05	-3.200	0.000	1.000
1.000	36.07	0.000	0.000	5AL_158_160_L_0							
66 D	1.832	0.000	61.75	36.64	61.75	36.64	V-C	2.7008E+05	-3.250	0.000	1.000
1.000	36.64	0.000	0.000	5AL_158_160_L_0							
67 D	1.860	0.000	62.70	37.20	62.70	37.20	V-C	2.7008E+05	-3.300	0.000	1.000
1.000	37.20	0.000	0.000	5AL_158_160_L_0							
68 D	1.888	0.000	63.65	37.76	63.65	37.76	V-C	2.7008E+05	-3.350	0.000	1.000
1.000	37.76	0.000	0.000	5AL_158_160_L_0							
69 D	1.916	0.000	64.60	38.33	64.60	38.33	V-C	2.7008E+05	-3.400	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	228 di 401

1.000		38.33	0.000	0.000	5AL_158_160_L_0						
70 D	1.945	0.000	65.55	38.89	65.55	38.89	V-C	2.7008E+05	-3.450	0.000	1.000
1.000		38.89	0.000	0.000	5AL_158_160_L_0						
71 D	1.973	0.000	66.50	39.45	66.50	39.45	V-C	2.7008E+05	-3.500	0.000	1.000
1.000		39.45	0.000	0.000	5AL_158_160_L_0						
72 D	2.001	0.000	67.45	40.02	67.45	40.02	V-C	2.7008E+05	-3.550	0.000	1.000
1.000		40.02	0.000	0.000	5AL_158_160_L_0						
73 D	2.029	0.000	68.40	40.58	68.40	40.58	V-C	2.7008E+05	-3.600	0.000	1.000
1.000		40.58	0.000	0.000	5AL_158_160_L_0						
74 D	2.057	0.000	69.35	41.15	69.35	41.15	V-C	2.7008E+05	-3.650	0.000	1.000
1.000		41.15	0.000	0.000	5AL_158_160_L_0						
75 D	2.085	0.000	70.30	41.71	70.30	41.71	V-C	2.7008E+05	-3.700	0.000	1.000
1.000		41.71	0.000	0.000	5AL_158_160_L_0						
76 D	2.114	0.000	71.25	42.27	71.25	42.27	V-C	2.7008E+05	-3.750	0.000	1.000
1.000		42.27	0.000	0.000	5AL_158_160_L_0						
77 D	2.142	0.000	72.20	42.84	72.20	42.84	V-C	2.7008E+05	-3.800	0.000	1.000
1.000		42.84	0.000	0.000	5AL_158_160_L_0						
78 D	2.170	0.000	73.15	43.40	73.15	43.40	V-C	2.7008E+05	-3.850	0.000	1.000
1.000		43.40	0.000	0.000	5AL_158_160_L_0						
79 D	2.198	0.000	74.10	43.96	74.10	43.96	V-C	2.7008E+05	-3.900	0.000	1.000
1.000		43.96	0.000	0.000	5AL_158_160_L_0						
80 D	2.226	0.000	75.05	44.53	75.05	44.53	V-C	2.7008E+05	-3.950	0.000	1.000
1.000		44.53	0.000	0.000	5AL_158_160_L_0						
81 D	2.255	0.000	76.00	45.09	76.00	45.09	V-C	2.7008E+05	-4.000	0.000	1.000
1.000		45.09	0.000	0.000	5AL_158_160_L_0						
82 D	2.293	0.000	76.45	45.36	76.45	45.36	V-C	2.7008E+05	-4.050	0.5000	1.000
1.000		45.86	0.000	0.000	5AL_158_160_L_0						
83 D	2.331	0.000	76.90	45.62	76.90	45.62	V-C	2.7008E+05	-4.100	1.000	1.000
1.000		46.62	0.000	0.000	5AL_158_160_L_0						
84 D	2.370	0.000	77.35	45.89	77.35	45.89	V-C	2.7008E+05	-4.150	1.500	1.000
1.000		47.39	0.000	0.000	5AL_158_160_L_0						
85 D	2.408	0.000	77.80	46.16	77.80	46.16	V-C	2.7008E+05	-4.200	2.000	1.000
1.000		48.16	0.000	0.000	5AL_158_160_L_0						
86 D	2.446	0.000	78.25	46.43	78.25	46.43	V-C	2.7008E+05	-4.250	2.500	1.000
1.000		48.93	0.000	0.000	5AL_158_160_L_0						
87 D	2.485	0.000	78.70	46.69	78.70	46.69	V-C	2.7008E+05	-4.300	3.000	1.000
1.000		49.69	0.000	0.000	5AL_158_160_L_0						
88 D	2.523	0.000	79.15	46.96	79.15	46.96	V-C	2.7008E+05	-4.350	3.500	1.000
1.000		50.46	0.000	0.000	5AL_158_160_L_0						
89 D	2.561	0.000	79.60	47.23	79.60	47.23	V-C	2.7008E+05	-4.400	4.000	1.000
1.000		51.23	0.000	0.000	5AL_158_160_L_0						
90 D	2.600	0.000	80.05	47.49	80.05	47.49	V-C	2.7008E+05	-4.450	4.500	1.000
1.000		51.99	0.000	0.000	5AL_158_160_L_0						
91 D	2.638	0.000	80.50	47.76	80.50	47.76	V-C	2.7008E+05	-4.500	5.000	1.000
1.000		52.76	0.000	0.000	5AL_158_160_L_0						
92 D	2.676	0.000	80.95	48.03	80.95	48.03	V-C	2.7008E+05	-4.550	5.500	1.000
1.000		53.53	0.000	0.000	5AL_158_160_L_0						
93 D	2.715	0.000	81.40	48.29	81.40	48.29	V-C	2.7008E+05	-4.600	6.000	1.000
1.000		54.29	0.000	0.000	5AL_158_160_L_0						
94 D	2.753	0.000	81.85	48.56	81.85	48.56	V-C	2.7008E+05	-4.650	6.500	1.000
1.000		55.06	0.000	0.000	5AL_158_160_L_0						
95 D	2.791	0.000	82.30	48.83	82.30	48.83	V-C	2.7008E+05	-4.700	7.000	1.000
1.000		55.83	0.000	0.000	5AL_158_160_L_0						
96 D	2.830	0.000	82.75	49.10	82.75	49.10	V-C	2.7008E+05	-4.750	7.500	1.000
1.000		56.60	0.000	0.000	5AL_158_160_L_0						
97 D	2.868	0.000	83.20	49.36	83.20	49.36	V-C	2.7008E+05	-4.800	8.000	1.000
1.000		57.36	0.000	0.000	5AL_158_160_L_0						
98 D	2.906	0.000	83.65	49.63	83.65	49.63	V-C	2.7008E+05	-4.850	8.500	1.000
1.000		58.13	0.000	0.000	5AL_158_160_L_0						
99 D	2.945	0.000	84.10	49.90	84.10	49.90	V-C	2.7008E+05	-4.900	9.000	1.000
1.000		58.90	0.000	0.000	5AL_158_160_L_0						
100 D	2.983	0.000	84.55	50.16	84.55	50.16	V-C	2.7008E+05	-4.950	9.500	1.000
1.000		59.66	0.000	0.000	5AL_158_160_L_0						
101 D	3.022	0.000	85.00	50.43	85.00	50.43	V-C	2.7008E+05	-5.000	10.00	1.000
1.000		60.43	0.000	0.000	5AL_158_160_L_0						
102 D	3.060	0.000	85.45	50.70	85.45	50.70	V-C	2.7008E+05	-5.050	10.50	1.000
1.000		61.20	0.000	0.000	5AL_158_160_L_0						
103 D	3.098	0.000	85.90	50.96	85.90	50.96	V-C	2.7008E+05	-5.100	11.00	1.000
1.000		61.96	0.000	0.000	5AL_158_160_L_0						
104 D	3.137	0.000	86.35	51.23	86.35	51.23	V-C	2.7008E+05	-5.150	11.50	1.000
1.000		62.73	0.000	0.000	5AL_158_160_L_0						
105 D	3.175	0.000	86.80	51.50	86.80	51.50	V-C	2.7008E+05	-5.200	12.00	1.000
1.000		63.50	0.000	0.000	5AL_158_160_L_0						
106 D	3.213	0.000	87.25	51.77	87.25	51.77	V-C	2.7008E+05	-5.250	12.50	1.000
1.000		64.27	0.000	0.000	5AL_158_160_L_0						
107 D	3.252	0.000	87.70	52.03	87.70	52.03	V-C	2.7008E+05	-5.300	13.00	1.000
1.000		65.03	0.000	0.000	5AL_158_160_L_0						
108 D	3.290	0.000	88.15	52.30	88.15	52.30	V-C	2.7008E+05	-5.350	13.50	1.000
1.000		65.80	0.000	0.000	5AL_158_160_L_0						
109 D	3.328	0.000	88.60	52.57	88.60	52.57	V-C	2.7008E+05	-5.400	14.00	1.000
1.000		66.57	0.000	0.000	5AL_158_160_L_0						

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100.004	A	229 di 401

110 D	3.367	0.000	89.05	52.83	89.05	52.83	V-C	2.7008E+05	-5.450	14.50	1.000
1.000	67.33	0.000	0.000	5AL_158_160_L_0							
111 D	3.405	0.000	89.50	53.10	89.50	53.10	V-C	2.7008E+05	-5.500	15.00	1.000
1.000	68.10	0.000	0.000	5AL_158_160_L_0							
112 D	3.443	0.000	89.95	53.37	89.95	53.37	V-C	2.7008E+05	-5.550	15.50	1.000
1.000	68.87	0.000	0.000	5AL_158_160_L_0							
113 D	3.482	0.000	90.40	53.63	90.40	53.63	V-C	2.7008E+05	-5.600	16.00	1.000
1.000	69.63	0.000	0.000	5AL_158_160_L_0							
114 D	3.520	0.000	90.85	53.90	90.85	53.90	V-C	2.7008E+05	-5.650	16.50	1.000
1.000	70.40	0.000	0.000	5AL_158_160_L_0							
115 D	3.558	0.000	91.30	54.17	91.30	54.17	V-C	2.7008E+05	-5.700	17.00	1.000
1.000	71.17	0.000	0.000	5AL_158_160_L_0							
116 D	3.597	0.000	91.75	54.44	91.75	54.44	V-C	2.7008E+05	-5.750	17.50	1.000
1.000	71.94	0.000	0.000	5AL_158_160_L_0							
117 D	3.635	0.000	92.20	54.70	92.20	54.70	V-C	2.7008E+05	-5.800	18.00	1.000
1.000	72.70	0.000	0.000	5AL_158_160_L_0							
118 D	3.673	0.000	92.65	54.97	92.65	54.97	V-C	2.7008E+05	-5.850	18.50	1.000
1.000	73.47	0.000	0.000	5AL_158_160_L_0							
119 D	3.712	0.000	93.10	55.24	93.10	55.24	V-C	2.7008E+05	-5.900	19.00	1.000
1.000	74.24	0.000	0.000	5AL_158_160_L_0							
120 D	3.750	0.000	93.55	55.50	93.55	55.50	V-C	2.7008E+05	-5.950	19.50	1.000
1.000	75.00	0.000	0.000	5AL_158_160_L_0							
121 D	3.789	0.000	94.00	55.77	94.00	55.77	V-C	2.7008E+05	-6.000	20.00	1.000
1.000	75.77	0.000	0.000	5AL_158_160_L_0							
122 D	3.827	0.000	94.45	56.04	94.45	56.04	V-C	2.7008E+05	-6.050	20.50	1.000
1.000	76.54	0.000	0.000	5AL_158_160_L_0							
123 D	3.865	0.000	94.90	56.30	94.90	56.30	V-C	2.7008E+05	-6.100	21.00	1.000
1.000	77.30	0.000	0.000	5AL_158_160_L_0							
124 D	3.904	0.000	95.35	56.57	95.35	56.57	V-C	2.7008E+05	-6.150	21.50	1.000
1.000	78.07	0.000	0.000	5AL_158_160_L_0							
125 D	3.942	0.000	95.80	56.84	95.80	56.84	V-C	2.7008E+05	-6.200	22.00	1.000
1.000	78.84	0.000	0.000	5AL_158_160_L_0							
126 D	3.980	0.000	96.25	57.11	96.25	57.11	V-C	2.7008E+05	-6.250	22.50	1.000
1.000	79.61	0.000	0.000	5AL_158_160_L_0							
127 D	4.019	0.000	96.70	57.37	96.70	57.37	V-C	2.7008E+05	-6.300	23.00	1.000
1.000	80.37	0.000	0.000	5AL_158_160_L_0							
128 D	4.057	0.000	97.15	57.64	97.15	57.64	V-C	2.7008E+05	-6.350	23.50	1.000
1.000	81.14	0.000	0.000	5AL_158_160_L_0							
129 D	4.095	0.000	97.60	57.91	97.60	57.91	V-C	2.7008E+05	-6.400	24.00	1.000
1.000	81.91	0.000	0.000	5AL_158_160_L_0							
130 D	4.134	0.000	98.05	58.17	98.05	58.17	V-C	2.7008E+05	-6.450	24.50	1.000
1.000	82.67	0.000	0.000	5AL_158_160_L_0							
131 D	4.172	0.000	98.50	58.44	98.50	58.44	V-C	2.7008E+05	-6.500	25.00	1.000
1.000	83.44	0.000	0.000	5AL_158_160_L_0							
132 D	4.210	0.000	98.95	58.71	98.95	58.71	V-C	2.7008E+05	-6.550	25.50	1.000
1.000	84.21	0.000	0.000	5AL_158_160_L_0							
133 D	4.249	0.000	99.40	58.97	99.40	58.97	V-C	2.7008E+05	-6.600	26.00	1.000
1.000	84.97	0.000	0.000	5AL_158_160_L_0							
134 D	4.287	0.000	99.85	59.24	99.85	59.24	V-C	2.7008E+05	-6.650	26.50	1.000
1.000	85.74	0.000	0.000	5AL_158_160_L_0							
135 D	4.325	0.000	100.3	59.51	100.3	59.51	V-C	2.7008E+05	-6.700	27.00	1.000
1.000	86.51	0.000	0.000	5AL_158_160_L_0							
136 D	4.364	0.000	100.8	59.78	100.8	59.78	V-C	2.7008E+05	-6.750	27.50	1.000
1.000	87.28	0.000	0.000	5AL_158_160_L_0							
137 D	4.402	0.000	101.2	60.04	101.2	60.04	V-C	2.7008E+05	-6.800	28.00	1.000
1.000	88.04	0.000	0.000	5AL_158_160_L_0							
138 D	4.440	0.000	101.7	60.31	101.7	60.31	V-C	2.7008E+05	-6.850	28.50	1.000
1.000	88.81	0.000	0.000	5AL_158_160_L_0							
139 D	4.479	0.000	102.1	60.58	102.1	60.58	V-C	2.7008E+05	-6.900	29.00	1.000
1.000	89.58	0.000	0.000	5AL_158_160_L_0							
140 D	4.517	0.000	102.6	60.84	102.6	60.84	V-C	2.7008E+05	-6.950	29.50	1.000
1.000	90.34	0.000	0.000	5AL_158_160_L_0							
141 D	4.556	0.000	103.0	61.11	103.0	61.11	V-C	2.7008E+05	-7.000	30.00	1.000
1.000	91.11	0.000	0.000	5AL_158_160_L_0							
142 D	4.594	0.000	103.5	61.38	103.5	61.38	V-C	2.7008E+05	-7.050	30.50	1.000
1.000	91.88	0.000	0.000	5AL_158_160_L_0							
143 D	4.632	0.000	103.9	61.64	103.9	61.64	V-C	2.7008E+05	-7.100	31.00	1.000
1.000	92.64	0.000	0.000	5AL_158_160_L_0							
144 D	4.671	0.000	104.4	61.91	104.4	61.91	V-C	2.7008E+05	-7.150	31.50	1.000
1.000	93.41	0.000	0.000	5AL_158_160_L_0							
145 D	4.709	0.000	104.8	62.18	104.8	62.18	V-C	2.7008E+05	-7.200	32.00	1.000
1.000	94.18	0.000	0.000	5AL_158_160_L_0							
146 D	4.747	0.000	105.3	62.44	105.3	62.44	V-C	2.7008E+05	-7.250	32.50	1.000
1.000	94.94	0.000	0.000	5AL_158_160_L_0							
147 D	4.786	0.000	105.7	62.71	105.7	62.71	V-C	2.7008E+05	-7.300	33.00	1.000
1.000	95.71	0.000	0.000	5AL_158_160_L_0							
148 D	4.824	0.000	106.2	62.98	106.2	62.98	V-C	2.7008E+05	-7.350	33.50	1.000
1.000	96.48	0.000	0.000	5AL_158_160_L_0							
149 D	4.862	0.000	106.6	63.25	106.6	63.25	V-C	2.7008E+05	-7.400	34.00	1.000
1.000	97.25	0.000	0.000	5AL_158_160_L_0							
150 D	4.901	0.000	107.1	63.51	107.1	63.51	V-C	2.7008E+05	-7.450	34.50	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	230 di 401

1.000		98.01	0.000	0.000	5AL_158_160_L_0						
151 D	4.939	0.000	107.5	63.78	107.5	63.78	V-C	2.7008E+05	-7.500	35.00	1.000
1.000		98.78	0.000	0.000	5AL_158_160_L_0						
152 D	4.977	0.000	108.0	64.05	108.0	64.05	V-C	2.7008E+05	-7.550	35.50	1.000
1.000		99.55	0.000	0.000	5AL_158_160_L_0						
153 D	5.016	0.000	108.4	64.31	108.4	64.31	V-C	2.7008E+05	-7.600	36.00	1.000
1.000		100.3	0.000	0.000	5AL_158_160_L_0						
154 D	5.054	0.000	108.9	64.58	108.9	64.58	V-C	2.7008E+05	-7.650	36.50	1.000
1.000		101.1	0.000	0.000	5AL_158_160_L_0						
155 D	5.092	0.000	109.3	64.85	109.3	64.85	V-C	2.7008E+05	-7.700	37.00	1.000
1.000		101.8	0.000	0.000	5AL_158_160_L_0						
156 D	5.131	0.000	109.8	65.11	109.8	65.11	V-C	2.7008E+05	-7.750	37.50	1.000
1.000		102.6	0.000	0.000	5AL_158_160_L_0						
157 D	5.169	0.000	110.2	65.38	110.2	65.38	V-C	2.7008E+05	-7.800	38.00	1.000
1.000		103.4	0.000	0.000	5AL_158_160_L_0						
158 D	5.207	0.000	110.7	65.65	110.7	65.65	V-C	2.7008E+05	-7.850	38.50	1.000
1.000		104.1	0.000	0.000	5AL_158_160_L_0						
159 D	5.246	0.000	111.1	65.92	111.1	65.92	V-C	2.7008E+05	-7.900	39.00	1.000
1.000		104.9	0.000	0.000	5AL_158_160_L_0						
160 D	5.284	0.000	111.6	66.18	111.6	66.18	V-C	2.7008E+05	-7.950	39.50	1.000
1.000		105.7	0.000	0.000	5AL_158_160_L_0						
161 D	5.322	0.000	112.0	66.45	112.0	66.45	V-C	2.7008E+05	-8.000	40.00	1.000
1.000		106.4	0.000	0.000	5AL_158_160_L_0						
162 D	5.361	0.000	112.5	66.72	112.5	66.72	V-C	2.7008E+05	-8.050	40.50	1.000
1.000		107.2	0.000	0.000	5AL_158_160_L_0						
163 D	5.399	0.000	112.9	66.98	112.9	66.98	V-C	2.7008E+05	-8.100	41.00	1.000
1.000		108.0	0.000	0.000	5AL_158_160_L_0						
164 D	5.438	0.000	113.4	67.25	113.4	67.25	V-C	2.7008E+05	-8.150	41.50	1.000
1.000		108.8	0.000	0.000	5AL_158_160_L_0						
165 D	5.476	0.000	113.8	67.52	113.8	67.52	V-C	2.7008E+05	-8.200	42.00	1.000
1.000		109.5	0.000	0.000	5AL_158_160_L_0						
166 D	5.514	0.000	114.3	67.78	114.3	67.78	V-C	2.7008E+05	-8.250	42.50	1.000
1.000		110.3	0.000	0.000	5AL_158_160_L_0						
167 D	5.553	0.000	114.7	68.05	114.7	68.05	V-C	2.7008E+05	-8.300	43.00	1.000
1.000		111.1	0.000	0.000	5AL_158_160_L_0						
168 D	5.591	0.000	115.2	68.32	115.2	68.32	V-C	2.7008E+05	-8.350	43.50	1.000
1.000		111.8	0.000	0.000	5AL_158_160_L_0						
169 D	5.629	0.000	115.6	68.59	115.6	68.59	V-C	2.7008E+05	-8.400	44.00	1.000
1.000		112.6	0.000	0.000	5AL_158_160_L_0						
170 D	5.668	0.000	116.1	68.85	116.1	68.85	V-C	2.7008E+05	-8.450	44.50	1.000
1.000		113.4	0.000	0.000	5AL_158_160_L_0						
171 D	5.706	0.000	116.5	69.12	116.5	69.12	V-C	2.7008E+05	-8.500	45.00	1.000
1.000		114.1	0.000	0.000	5AL_158_160_L_0						
172 D	5.744	0.000	117.0	69.39	117.0	69.39	V-C	2.7008E+05	-8.550	45.50	1.000
1.000		114.9	0.000	0.000	5AL_158_160_L_0						
173 D	5.783	0.000	117.4	69.65	117.4	69.65	V-C	2.7008E+05	-8.600	46.00	1.000
1.000		115.7	0.000	0.000	5AL_158_160_L_0						
174 D	5.821	0.000	117.9	69.92	117.9	69.92	V-C	2.7008E+05	-8.650	46.50	1.000
1.000		116.4	0.000	0.000	5AL_158_160_L_0						
175 D	5.859	0.000	118.3	70.19	118.3	70.19	V-C	2.7008E+05	-8.700	47.00	1.000
1.000		117.2	0.000	0.000	5AL_158_160_L_0						
176 D	5.898	0.000	118.8	70.45	118.8	70.45	V-C	2.7008E+05	-8.750	47.50	1.000
1.000		118.0	0.000	0.000	5AL_158_160_L_0						
177 D	5.936	0.000	119.2	70.72	119.2	70.72	V-C	2.7008E+05	-8.800	48.00	1.000
1.000		118.7	0.000	0.000	5AL_158_160_L_0						
178 D	5.974	0.000	119.7	70.99	119.7	70.99	V-C	2.7008E+05	-8.850	48.50	1.000
1.000		119.5	0.000	0.000	5AL_158_160_L_0						
179 D	6.013	0.000	120.1	71.26	120.1	71.26	V-C	2.7008E+05	-8.900	49.00	1.000
1.000		120.3	0.000	0.000	5AL_158_160_L_0						
180 D	6.051	0.000	120.6	71.52	120.6	71.52	V-C	2.7008E+05	-8.950	49.50	1.000
1.000		121.0	0.000	0.000	5AL_158_160_L_0						
181 D	6.089	0.000	121.0	71.79	121.0	71.79	V-C	2.7008E+05	-9.000	50.00	1.000
1.000		121.8	0.000	0.000	5AL_158_160_L_0						
182 D	6.128	0.000	121.5	72.06	121.5	72.06	V-C	2.7008E+05	-9.050	50.50	1.000
1.000		122.6	0.000	0.000	5AL_158_160_L_0						
183 D	6.166	0.000	121.9	72.32	121.9	72.32	V-C	2.7008E+05	-9.100	51.00	1.000
1.000		123.3	0.000	0.000	5AL_158_160_L_0						
184 D	6.205	0.000	122.4	72.59	122.4	72.59	V-C	2.7008E+05	-9.150	51.50	1.000
1.000		124.1	0.000	0.000	5AL_158_160_L_0						
185 D	6.243	0.000	122.8	72.86	122.8	72.86	V-C	2.7008E+05	-9.200	52.00	1.000
1.000		124.9	0.000	0.000	5AL_158_160_L_0						
186 D	6.281	0.000	123.3	73.12	123.3	73.12	V-C	2.7008E+05	-9.250	52.50	1.000
1.000		125.6	0.000	0.000	5AL_158_160_L_0						
187 D	6.320	0.000	123.7	73.39	123.7	73.39	V-C	2.7008E+05	-9.300	53.00	1.000
1.000		126.4	0.000	0.000	5AL_158_160_L_0						
188 D	6.358	0.000	124.2	73.66	124.2	73.66	V-C	2.7008E+05	-9.350	53.50	1.000
1.000		127.2	0.000	0.000	5AL_158_160_L_0						
189 D	6.396	0.000	124.6	73.93	124.6	73.93	V-C	2.7008E+05	-9.400	54.00	1.000
1.000		127.9	0.000	0.000	5AL_158_160_L_0						
190 D	6.435	0.000	125.1	74.19	125.1	74.19	V-C	2.7008E+05	-9.450	54.50	1.000
1.000		128.7	0.000	0.000	5AL_158_160_L_0						



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	231 di 401

191 D	6.473	0.000	125.5	74.46	125.5	74.46	V-C	2.7008E+05	-9.500	55.00	1.000
1.000	129.5	0.000	0.000	5AL_158_160_L_0							
192 D	6.511	0.000	126.0	74.73	126.0	74.73	V-C	2.7008E+05	-9.550	55.50	1.000
1.000	130.2	0.000	0.000	5AL_158_160_L_0							
193 D	6.550	0.000	126.4	74.99	126.4	74.99	V-C	2.7008E+05	-9.600	56.00	1.000
1.000	131.0	0.000	0.000	5AL_158_160_L_0							
194 D	6.588	0.000	126.9	75.26	126.9	75.26	V-C	2.7008E+05	-9.650	56.50	1.000
1.000	131.8	0.000	0.000	5AL_158_160_L_0							
195 D	6.626	0.000	127.3	75.53	127.3	75.53	V-C	2.7008E+05	-9.700	57.00	1.000
1.000	132.5	0.000	0.000	5AL_158_160_L_0							
196 D	6.665	0.000	127.8	75.79	127.8	75.79	V-C	2.7008E+05	-9.750	57.50	1.000
1.000	133.3	0.000	0.000	5AL_158_160_L_0							
197 D	6.703	0.000	128.2	76.06	128.2	76.06	V-C	2.7008E+05	-9.800	58.00	1.000
1.000	134.1	0.000	0.000	5AL_158_160_L_0							
198 D	6.741	0.000	128.7	76.33	128.7	76.33	V-C	2.7008E+05	-9.850	58.50	1.000
1.000	134.8	0.000	0.000	5AL_158_160_L_0							
199 D	6.780	0.000	129.1	76.60	129.1	76.60	V-C	2.7008E+05	-9.900	59.00	1.000
1.000	135.6	0.000	0.000	5AL_158_160_L_0							
200 D	6.817	0.000	129.6	76.86	129.6	76.86	V-C	2.7008E+05	-9.950	59.50	1.000
1.000	136.4	0.000	0.000	5AL_158_160_L_0							
201 D	3.427	0.000	130.0	77.13	130.0	77.13	V-C	2.7008E+05	-10.00	60.00	1.000
1.000	137.1	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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Exe Time :21 June 2016 11:57:46

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

0_R
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS Z-LEVEL	PORE	E FACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.6034E+05	0.000	1.000
1.000	0.000	0.000	0.000	5AL_158_160_L_0						
2 D	2.8182E-02	0.000	0.9500	0.5636	0.9500	0.5636	V-C	2.6034E+05	-5.0000E-02	1.000
1.000	0.5636	0.000	0.000	5AL_158_160_L_0						
3 D	5.6364E-02	0.000	1.900	1.127	1.900	1.127	V-C	2.6034E+05	-0.1000	1.000
1.000	1.127	0.000	0.000	5AL_158_160_L_0						
4 D	8.4545E-02	0.000	2.850	1.691	2.850	1.691	V-C	2.6034E+05	-0.1500	1.000
1.000	1.691	0.000	0.000	5AL_158_160_L_0						
5 D	0.1127	0.000	3.800	2.255	3.800	2.255	V-C	2.6034E+05	-0.2000	1.000
1.000	2.255	0.000	0.000	5AL_158_160_L_0						
6 D	0.1409	0.000	4.750	2.818	4.750	2.818	V-C	2.6034E+05	-0.2500	1.000
1.000	2.818	0.000	0.000	5AL_158_160_L_0						
7 D	0.1691	0.000	5.700	3.382	5.700	3.382	V-C	2.6034E+05	-0.3000	1.000
1.000	3.382	0.000	0.000	5AL_158_160_L_0						
8 D	0.1973	0.000	6.650	3.945	6.650	3.945	V-C	2.6034E+05	-0.3500	1.000
1.000	3.945	0.000	0.000	5AL_158_160_L_0						
9 D	0.2255	0.000	7.600	4.509	7.600	4.509	V-C	2.6034E+05	-0.4000	1.000
1.000	4.509	0.000	0.000	5AL_158_160_L_0						
10 D	0.2536	0.000	8.550	5.073	8.550	5.073	V-C	2.6034E+05	-0.4500	1.000
1.000	5.073	0.000	0.000	5AL_158_160_L_0						
11 D	0.2818	0.000	9.500	5.636	9.500	5.636	V-C	2.6034E+05	-0.5000	1.000
1.000	5.636	0.000	0.000	5AL_158_160_L_0						
12 D	0.3100	0.000	10.45	6.200	10.45	6.200	V-C	2.6034E+05	-0.5500	1.000
1.000	6.200	0.000	0.000	5AL_158_160_L_0						
13 D	0.3382	0.000	11.40	6.764	11.40	6.764	V-C	2.6034E+05	-0.6000	1.000
1.000	6.764	0.000	0.000	5AL_158_160_L_0						
14 D	0.3664	0.000	12.35	7.327	12.35	7.327	V-C	2.6034E+05	-0.6500	1.000
1.000	7.327	0.000	0.000	5AL_158_160_L_0						
15 D	0.3945	0.000	13.30	7.891	13.30	7.891	V-C	2.6034E+05	-0.7000	1.000
1.000	7.891	0.000	0.000	5AL_158_160_L_0						
16 D	0.4227	0.000	14.25	8.455	14.25	8.455	V-C	2.6034E+05	-0.7500	1.000
1.000	8.455	0.000	0.000	5AL_158_160_L_0						
17 D	0.4509	0.000	15.20	9.018	15.20	9.018	V-C	2.6034E+05	-0.8000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	232 di 401

1.000	9.018	0.000	0.000	5AL_158_160_L_0							
18 D	0.4791	0.000	16.15	9.582	16.15	9.582	V-C	2.6034E+05	-0.8500	0.000	1.000
1.000	9.582	0.000	0.000	5AL_158_160_L_0							
19 D	0.5073	0.000	17.10	10.15	17.10	10.15	V-C	2.6034E+05	-0.9000	0.000	1.000
1.000	10.15	0.000	0.000	5AL_158_160_L_0							
20 D	0.5355	0.000	18.05	10.71	18.05	10.71	V-C	2.6034E+05	-0.9500	0.000	1.000
1.000	10.71	0.000	0.000	5AL_158_160_L_0							
21 D	0.5636	0.000	19.00	11.27	19.00	11.27	V-C	2.6034E+05	-1.000	0.000	1.000
1.000	11.27	0.000	0.000	5AL_158_160_L_0							
22 D	0.5918	0.000	19.95	11.84	19.95	11.84	V-C	2.6034E+05	-1.050	0.000	1.000
1.000	11.84	0.000	0.000	5AL_158_160_L_0							
23 D	0.6200	0.000	20.90	12.40	20.90	12.40	V-C	2.6034E+05	-1.100	0.000	1.000
1.000	12.40	0.000	0.000	5AL_158_160_L_0							
24 D	0.6482	0.000	21.85	12.96	21.85	12.96	V-C	2.6034E+05	-1.150	0.000	1.000
1.000	12.96	0.000	0.000	5AL_158_160_L_0							
25 D	0.6764	0.000	22.80	13.53	22.80	13.53	V-C	2.6034E+05	-1.200	0.000	1.000
1.000	13.53	0.000	0.000	5AL_158_160_L_0							
26 D	0.7045	0.000	23.75	14.09	23.75	14.09	V-C	2.6034E+05	-1.250	0.000	1.000
1.000	14.09	0.000	0.000	5AL_158_160_L_0							
27 D	0.7327	0.000	24.70	14.65	24.70	14.65	V-C	2.6034E+05	-1.300	0.000	1.000
1.000	14.65	0.000	0.000	5AL_158_160_L_0							
28 D	0.7609	0.000	25.65	15.22	25.65	15.22	V-C	2.6034E+05	-1.350	0.000	1.000
1.000	15.22	0.000	0.000	5AL_158_160_L_0							
29 D	0.7891	0.000	26.60	15.78	26.60	15.78	V-C	2.6034E+05	-1.400	0.000	1.000
1.000	15.78	0.000	0.000	5AL_158_160_L_0							
30 D	0.8173	0.000	27.55	16.35	27.55	16.35	V-C	2.6034E+05	-1.450	0.000	1.000
1.000	16.35	0.000	0.000	5AL_158_160_L_0							
31 D	0.8455	0.000	28.50	16.91	28.50	16.91	V-C	2.6034E+05	-1.500	0.000	1.000
1.000	16.91	0.000	0.000	5AL_158_160_L_0							
32 D	0.8736	0.000	29.45	17.47	29.45	17.47	V-C	2.6034E+05	-1.550	0.000	1.000
1.000	17.47	0.000	0.000	5AL_158_160_L_0							
33 D	0.9018	0.000	30.40	18.04	30.40	18.04	V-C	2.6034E+05	-1.600	0.000	1.000
1.000	18.04	0.000	0.000	5AL_158_160_L_0							
34 D	0.9300	0.000	31.35	18.60	31.35	18.60	V-C	2.6034E+05	-1.650	0.000	1.000
1.000	18.60	0.000	0.000	5AL_158_160_L_0							
35 D	0.9582	0.000	32.30	19.16	32.30	19.16	V-C	2.6034E+05	-1.700	0.000	1.000
1.000	19.16	0.000	0.000	5AL_158_160_L_0							
36 D	0.9864	0.000	33.25	19.73	33.25	19.73	V-C	2.6034E+05	-1.750	0.000	1.000
1.000	19.73	0.000	0.000	5AL_158_160_L_0							
37 D	1.015	0.000	34.20	20.29	34.20	20.29	V-C	2.6034E+05	-1.800	0.000	1.000
1.000	20.29	0.000	0.000	5AL_158_160_L_0							
38 D	1.043	0.000	35.15	20.85	35.15	20.85	V-C	2.6034E+05	-1.850	0.000	1.000
1.000	20.85	0.000	0.000	5AL_158_160_L_0							
39 D	1.071	0.000	36.10	21.42	36.10	21.42	V-C	2.6034E+05	-1.900	0.000	1.000
1.000	21.42	0.000	0.000	5AL_158_160_L_0							
40 D	1.099	0.000	37.05	21.98	37.05	21.98	V-C	2.6034E+05	-1.950	0.000	1.000
1.000	21.98	0.000	0.000	5AL_158_160_L_0							
41 D	1.127	0.000	38.00	22.55	38.00	22.55	V-C	2.6034E+05	-2.000	0.000	1.000
1.000	22.55	0.000	0.000	5AL_158_160_L_0							
42 D	1.155	0.000	38.95	23.11	38.95	23.11	V-C	2.6034E+05	-2.050	0.000	1.000
1.000	23.11	0.000	0.000	5AL_158_160_L_0							
43 D	1.184	0.000	39.90	23.67	39.90	23.67	V-C	2.6034E+05	-2.100	0.000	1.000
1.000	23.67	0.000	0.000	5AL_158_160_L_0							
44 D	1.212	0.000	40.85	24.24	40.85	24.24	V-C	2.6034E+05	-2.150	0.000	1.000
1.000	24.24	0.000	0.000	5AL_158_160_L_0							
45 D	1.240	0.000	41.80	24.80	41.80	24.80	V-C	2.6034E+05	-2.200	0.000	1.000
1.000	24.80	0.000	0.000	5AL_158_160_L_0							
46 D	1.268	0.000	42.75	25.36	42.75	25.36	V-C	2.6034E+05	-2.250	0.000	1.000
1.000	25.36	0.000	0.000	5AL_158_160_L_0							
47 D	1.296	0.000	43.70	25.93	43.70	25.93	V-C	2.6034E+05	-2.300	0.000	1.000
1.000	25.93	0.000	0.000	5AL_158_160_L_0							
48 D	1.325	0.000	44.65	26.49	44.65	26.49	V-C	2.6034E+05	-2.350	0.000	1.000
1.000	26.49	0.000	0.000	5AL_158_160_L_0							
49 D	1.353	0.000	45.60	27.05	45.60	27.05	V-C	2.6034E+05	-2.400	0.000	1.000
1.000	27.05	0.000	0.000	5AL_158_160_L_0							
50 D	1.381	0.000	46.55	27.62	46.55	27.62	V-C	2.6034E+05	-2.450	0.000	1.000
1.000	27.62	0.000	0.000	5AL_158_160_L_0							
51 D	1.409	0.000	47.50	28.18	47.50	28.18	V-C	2.6034E+05	-2.500	0.000	1.000
1.000	28.18	0.000	0.000	5AL_158_160_L_0							
52 D	1.437	0.000	48.45	28.75	48.45	28.75	V-C	2.6034E+05	-2.550	0.000	1.000
1.000	28.75	0.000	0.000	5AL_158_160_L_0							
53 D	1.465	0.000	49.40	29.31	49.40	29.31	V-C	2.6034E+05	-2.600	0.000	1.000
1.000	29.31	0.000	0.000	5AL_158_160_L_0							
54 D	1.494	0.000	50.35	29.87	50.35	29.87	V-C	2.6034E+05	-2.650	0.000	1.000
1.000	29.87	0.000	0.000	5AL_158_160_L_0							
55 D	1.522	0.000	51.30	30.44	51.30	30.44	V-C	2.6034E+05	-2.700	0.000	1.000
1.000	30.44	0.000	0.000	5AL_158_160_L_0							
56 D	1.550	0.000	52.25	31.00	52.25	31.00	V-C	2.6034E+05	-2.750	0.000	1.000
1.000	31.00	0.000	0.000	5AL_158_160_L_0							
57 D	1.578	0.000	53.20	31.56	53.20	31.56	V-C	2.6034E+05	-2.800	0.000	1.000
1.000	31.56	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	233 di 401

58 D	1.606	0.000	54.15	32.13	54.15	32.13	V-C	2.6034E+05	-2.850	0.000	1.000
1.000	32.13	0.000	0.000	5AL_158_160_L_0							
59 D	1.635	0.000	55.10	32.69	55.10	32.69	V-C	2.6034E+05	-2.900	0.000	1.000
1.000	32.69	0.000	0.000	5AL_158_160_L_0							
60 D	1.663	0.000	56.05	33.25	56.05	33.25	V-C	2.6034E+05	-2.950	0.000	1.000
1.000	33.25	0.000	0.000	5AL_158_160_L_0							
61 D	1.691	0.000	57.00	33.82	57.00	33.82	V-C	2.6034E+05	-3.000	0.000	1.000
1.000	33.82	0.000	0.000	5AL_158_160_L_0							
62 D	1.719	0.000	57.95	34.38	57.95	34.38	V-C	2.6034E+05	-3.050	0.000	1.000
1.000	34.38	0.000	0.000	5AL_158_160_L_0							
63 D	1.747	0.000	58.90	34.95	58.90	34.95	V-C	2.6034E+05	-3.100	0.000	1.000
1.000	34.95	0.000	0.000	5AL_158_160_L_0							
64 D	1.775	0.000	59.85	35.51	59.85	35.51	V-C	2.6034E+05	-3.150	0.000	1.000
1.000	35.51	0.000	0.000	5AL_158_160_L_0							
65 D	1.804	0.000	60.80	36.07	60.80	36.07	V-C	2.6034E+05	-3.200	0.000	1.000
1.000	36.07	0.000	0.000	5AL_158_160_L_0							
66 D	1.832	0.000	61.75	36.64	61.75	36.64	V-C	2.6034E+05	-3.250	0.000	1.000
1.000	36.64	0.000	0.000	5AL_158_160_L_0							
67 D	1.860	0.000	62.70	37.20	62.70	37.20	V-C	2.6034E+05	-3.300	0.000	1.000
1.000	37.20	0.000	0.000	5AL_158_160_L_0							
68 D	1.888	0.000	63.65	37.76	63.65	37.76	V-C	2.6034E+05	-3.350	0.000	1.000
1.000	37.76	0.000	0.000	5AL_158_160_L_0							
69 D	1.916	0.000	64.60	38.33	64.60	38.33	V-C	2.6034E+05	-3.400	0.000	1.000
1.000	38.33	0.000	0.000	5AL_158_160_L_0							
70 D	1.945	0.000	65.55	38.89	65.55	38.89	V-C	2.6034E+05	-3.450	0.000	1.000
1.000	38.89	0.000	0.000	5AL_158_160_L_0							
71 D	1.973	0.000	66.50	39.45	66.50	39.45	V-C	2.6034E+05	-3.500	0.000	1.000
1.000	39.45	0.000	0.000	5AL_158_160_L_0							
72 D	2.001	0.000	67.45	40.02	67.45	40.02	V-C	2.6034E+05	-3.550	0.000	1.000
1.000	40.02	0.000	0.000	5AL_158_160_L_0							
73 D	2.029	0.000	68.40	40.58	68.40	40.58	V-C	2.6034E+05	-3.600	0.000	1.000
1.000	40.58	0.000	0.000	5AL_158_160_L_0							
74 D	2.057	0.000	69.35	41.15	69.35	41.15	V-C	2.6034E+05	-3.650	0.000	1.000
1.000	41.15	0.000	0.000	5AL_158_160_L_0							
75 D	2.085	0.000	70.30	41.71	70.30	41.71	V-C	2.6034E+05	-3.700	0.000	1.000
1.000	41.71	0.000	0.000	5AL_158_160_L_0							
76 D	2.114	0.000	71.25	42.27	71.25	42.27	V-C	2.6034E+05	-3.750	0.000	1.000
1.000	42.27	0.000	0.000	5AL_158_160_L_0							
77 D	2.142	0.000	72.20	42.84	72.20	42.84	V-C	2.6034E+05	-3.800	0.000	1.000
1.000	42.84	0.000	0.000	5AL_158_160_L_0							
78 D	2.170	0.000	73.15	43.40	73.15	43.40	V-C	2.6034E+05	-3.850	0.000	1.000
1.000	43.40	0.000	0.000	5AL_158_160_L_0							
79 D	2.198	0.000	74.10	43.96	74.10	43.96	V-C	2.6034E+05	-3.900	0.000	1.000
1.000	43.96	0.000	0.000	5AL_158_160_L_0							
80 D	2.226	0.000	75.05	44.53	75.05	44.53	V-C	2.6034E+05	-3.950	0.000	1.000
1.000	44.53	0.000	0.000	5AL_158_160_L_0							
81 D	2.255	0.000	76.00	45.09	76.00	45.09	V-C	2.6034E+05	-4.000	0.000	1.000
1.000	45.09	0.000	0.000	5AL_158_160_L_0							
82 D	2.293	0.000	76.45	45.36	76.45	45.36	V-C	2.6034E+05	-4.050	0.5000	1.000
1.000	45.86	0.000	0.000	5AL_158_160_L_0							
83 D	2.331	0.000	76.90	45.62	76.90	45.62	V-C	2.6034E+05	-4.100	1.000	1.000
1.000	46.62	0.000	0.000	5AL_158_160_L_0							
84 D	2.370	0.000	77.35	45.89	77.35	45.89	V-C	2.6034E+05	-4.150	1.500	1.000
1.000	47.39	0.000	0.000	5AL_158_160_L_0							
85 D	2.408	0.000	77.80	46.16	77.80	46.16	V-C	2.6034E+05	-4.200	2.000	1.000
1.000	48.16	0.000	0.000	5AL_158_160_L_0							
86 D	2.446	0.000	78.25	46.43	78.25	46.43	V-C	2.6034E+05	-4.250	2.500	1.000
1.000	48.93	0.000	0.000	5AL_158_160_L_0							
87 D	2.485	0.000	78.70	46.69	78.70	46.69	V-C	2.6034E+05	-4.300	3.000	1.000
1.000	49.69	0.000	0.000	5AL_158_160_L_0							
88 D	2.523	0.000	79.15	46.96	79.15	46.96	V-C	2.6034E+05	-4.350	3.500	1.000
1.000	50.46	0.000	0.000	5AL_158_160_L_0							
89 D	2.561	0.000	79.60	47.23	79.60	47.23	V-C	2.6034E+05	-4.400	4.000	1.000
1.000	51.23	0.000	0.000	5AL_158_160_L_0							
90 D	2.600	0.000	80.05	47.49	80.05	47.49	V-C	2.6034E+05	-4.450	4.500	1.000
1.000	51.99	0.000	0.000	5AL_158_160_L_0							
91 D	2.638	0.000	80.50	47.76	80.50	47.76	V-C	2.6034E+05	-4.500	5.000	1.000
1.000	52.76	0.000	0.000	5AL_158_160_L_0							
92 D	2.676	0.000	80.95	48.03	80.95	48.03	V-C	2.6034E+05	-4.550	5.500	1.000
1.000	53.53	0.000	0.000	5AL_158_160_L_0							
93 D	2.715	0.000	81.40	48.29	81.40	48.29	V-C	2.6034E+05	-4.600	6.000	1.000
1.000	54.29	0.000	0.000	5AL_158_160_L_0							
94 D	2.753	0.000	81.85	48.56	81.85	48.56	V-C	2.6034E+05	-4.650	6.500	1.000
1.000	55.06	0.000	0.000	5AL_158_160_L_0							
95 D	2.791	0.000	82.30	48.83	82.30	48.83	V-C	2.6034E+05	-4.700	7.000	1.000
1.000	55.83	0.000	0.000	5AL_158_160_L_0							
96 D	2.830	0.000	82.75	49.10	82.75	49.10	V-C	2.6034E+05	-4.750	7.500	1.000
1.000	56.60	0.000	0.000	5AL_158_160_L_0							
97 D	2.868	0.000	83.20	49.36	83.20	49.36	V-C	2.6034E+05	-4.800	8.000	1.000
1.000	57.36	0.000	0.000	5AL_158_160_L_0							
98 D	2.906	0.000	83.65	49.63	83.65	49.63	V-C	2.6034E+05	-4.850	8.500	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	234 di 401

1.000		58.13	0.000	0.000	5AL_158_160_L_0						
99 D	2.945	0.000	84.10	49.90	84.10	49.90	V-C	2.6034E+05	-4.900	9.000	1.000
1.000		58.90	0.000	0.000	5AL_158_160_L_0						
100 D	2.983	0.000	84.55	50.16	84.55	50.16	V-C	2.6034E+05	-4.950	9.500	1.000
1.000		59.66	0.000	0.000	5AL_158_160_L_0						
101 D	3.022	0.000	85.00	50.43	85.00	50.43	V-C	2.6034E+05	-5.000	10.000	1.000
1.000		60.43	0.000	0.000	5AL_158_160_L_0						
102 D	3.060	0.000	85.45	50.70	85.45	50.70	V-C	2.6034E+05	-5.050	10.500	1.000
1.000		61.20	0.000	0.000	5AL_158_160_L_0						
103 D	3.098	0.000	85.90	50.96	85.90	50.96	V-C	2.6034E+05	-5.100	11.000	1.000
1.000		61.96	0.000	0.000	5AL_158_160_L_0						
104 D	3.137	0.000	86.35	51.23	86.35	51.23	V-C	2.6034E+05	-5.150	11.500	1.000
1.000		62.73	0.000	0.000	5AL_158_160_L_0						
105 D	3.175	0.000	86.80	51.50	86.80	51.50	V-C	2.6034E+05	-5.200	12.000	1.000
1.000		63.50	0.000	0.000	5AL_158_160_L_0						
106 D	3.213	0.000	87.25	51.77	87.25	51.77	V-C	2.6034E+05	-5.250	12.500	1.000
1.000		64.27	0.000	0.000	5AL_158_160_L_0						
107 D	3.252	0.000	87.70	52.03	87.70	52.03	V-C	2.6034E+05	-5.300	13.000	1.000
1.000		65.03	0.000	0.000	5AL_158_160_L_0						
108 D	3.290	0.000	88.15	52.30	88.15	52.30	V-C	2.6034E+05	-5.350	13.500	1.000
1.000		65.80	0.000	0.000	5AL_158_160_L_0						
109 D	3.328	0.000	88.60	52.57	88.60	52.57	V-C	2.6034E+05	-5.400	14.000	1.000
1.000		66.57	0.000	0.000	5AL_158_160_L_0						
110 D	3.367	0.000	89.05	52.83	89.05	52.83	V-C	2.6034E+05	-5.450	14.500	1.000
1.000		67.33	0.000	0.000	5AL_158_160_L_0						
111 D	3.405	0.000	89.50	53.10	89.50	53.10	V-C	2.6034E+05	-5.500	15.000	1.000
1.000		68.10	0.000	0.000	5AL_158_160_L_0						
112 D	3.443	0.000	89.95	53.37	89.95	53.37	V-C	2.6034E+05	-5.550	15.500	1.000
1.000		68.87	0.000	0.000	5AL_158_160_L_0						
113 D	3.482	0.000	90.40	53.63	90.40	53.63	V-C	2.6034E+05	-5.600	16.000	1.000
1.000		69.63	0.000	0.000	5AL_158_160_L_0						
114 D	3.520	0.000	90.85	53.90	90.85	53.90	V-C	2.6034E+05	-5.650	16.500	1.000
1.000		70.40	0.000	0.000	5AL_158_160_L_0						
115 D	3.558	0.000	91.30	54.17	91.30	54.17	V-C	2.6034E+05	-5.700	17.000	1.000
1.000		71.17	0.000	0.000	5AL_158_160_L_0						
116 D	3.597	0.000	91.75	54.44	91.75	54.44	V-C	2.6034E+05	-5.750	17.500	1.000
1.000		71.94	0.000	0.000	5AL_158_160_L_0						
117 D	3.635	0.000	92.20	54.70	92.20	54.70	V-C	2.6034E+05	-5.800	18.000	1.000
1.000		72.70	0.000	0.000	5AL_158_160_L_0						
118 D	3.673	0.000	92.65	54.97	92.65	54.97	V-C	2.6034E+05	-5.850	18.500	1.000
1.000		73.47	0.000	0.000	5AL_158_160_L_0						
119 D	3.712	0.000	93.10	55.24	93.10	55.24	V-C	2.6034E+05	-5.900	19.000	1.000
1.000		74.24	0.000	0.000	5AL_158_160_L_0						
120 D	3.750	0.000	93.55	55.50	93.55	55.50	V-C	2.6034E+05	-5.950	19.500	1.000
1.000		75.00	0.000	0.000	5AL_158_160_L_0						
121 D	3.789	0.000	94.00	55.77	94.00	55.77	V-C	2.6034E+05	-6.000	20.000	1.000
1.000		75.77	0.000	0.000	5AL_158_160_L_0						
122 D	3.827	0.000	94.45	56.04	94.45	56.04	V-C	2.6034E+05	-6.050	20.500	1.000
1.000		76.54	0.000	0.000	5AL_158_160_L_0						
123 D	3.865	0.000	94.90	56.30	94.90	56.30	V-C	2.6034E+05	-6.100	21.000	1.000
1.000		77.30	0.000	0.000	5AL_158_160_L_0						
124 D	3.904	0.000	95.35	56.57	95.35	56.57	V-C	2.6034E+05	-6.150	21.500	1.000
1.000		78.07	0.000	0.000	5AL_158_160_L_0						
125 D	3.942	0.000	95.80	56.84	95.80	56.84	V-C	2.6034E+05	-6.200	22.000	1.000
1.000		78.84	0.000	0.000	5AL_158_160_L_0						
126 D	3.980	0.000	96.25	57.11	96.25	57.11	V-C	2.6034E+05	-6.250	22.500	1.000
1.000		79.61	0.000	0.000	5AL_158_160_L_0						
127 D	4.019	0.000	96.70	57.37	96.70	57.37	V-C	2.6034E+05	-6.300	23.000	1.000
1.000		80.37	0.000	0.000	5AL_158_160_L_0						
128 D	4.057	0.000	97.15	57.64	97.15	57.64	V-C	2.6034E+05	-6.350	23.500	1.000
1.000		81.14	0.000	0.000	5AL_158_160_L_0						
129 D	4.095	0.000	97.60	57.91	97.60	57.91	V-C	2.6034E+05	-6.400	24.000	1.000
1.000		81.91	0.000	0.000	5AL_158_160_L_0						
130 D	4.134	0.000	98.05	58.17	98.05	58.17	V-C	2.6034E+05	-6.450	24.500	1.000
1.000		82.67	0.000	0.000	5AL_158_160_L_0						
131 D	4.172	0.000	98.50	58.44	98.50	58.44	V-C	2.6034E+05	-6.500	25.000	1.000
1.000		83.44	0.000	0.000	5AL_158_160_L_0						
132 D	4.210	0.000	98.95	58.71	98.95	58.71	V-C	2.6034E+05	-6.550	25.500	1.000
1.000		84.21	0.000	0.000	5AL_158_160_L_0						
133 D	4.249	0.000	99.40	58.97	99.40	58.97	V-C	2.6034E+05	-6.600	26.000	1.000
1.000		84.97	0.000	0.000	5AL_158_160_L_0						
134 D	4.287	0.000	99.85	59.24	99.85	59.24	V-C	2.6034E+05	-6.650	26.500	1.000
1.000		85.74	0.000	0.000	5AL_158_160_L_0						
135 D	4.325	0.000	100.3	59.51	100.3	59.51	V-C	2.6034E+05	-6.700	27.000	1.000
1.000		86.51	0.000	0.000	5AL_158_160_L_0						
136 D	4.364	0.000	100.8	59.78	100.8	59.78	V-C	2.6034E+05	-6.750	27.500	1.000
1.000		87.28	0.000	0.000	5AL_158_160_L_0						
137 D	4.402	0.000	101.2	60.04	101.2	60.04	V-C	2.6034E+05	-6.800	28.000	1.000
1.000		88.04	0.000	0.000	5AL_158_160_L_0						
138 D	4.440	0.000	101.7	60.31	101.7	60.31	V-C	2.6034E+05	-6.850	28.500	1.000
1.000		88.81	0.000	0.000	5AL_158_160_L_0						

OPERE PROVVISORIALI						COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
RELAZIONE DI CALCOLO						LI00	01	D 09CL	VI0100 004	A	235 di 401
139 D	4.479	0.000	102.1	60.58	102.1	60.58	V-C	2.6034E+05	-6.900	29.00	1.000
1.000	89.58	0.000	0.000	5AL_158_160_L_0							
140 D	4.517	0.000	102.6	60.84	102.6	60.84	V-C	2.6034E+05	-6.950	29.50	1.000
1.000	90.34	0.000	0.000	5AL_158_160_L_0							
141 D	4.556	0.000	103.0	61.11	103.0	61.11	V-C	2.6034E+05	-7.000	30.00	1.000
1.000	91.11	0.000	0.000	5AL_158_160_L_0							
142 D	4.594	0.000	103.5	61.38	103.5	61.38	V-C	2.6034E+05	-7.050	30.50	1.000
1.000	91.88	0.000	0.000	5AL_158_160_L_0							
143 D	4.632	0.000	103.9	61.64	103.9	61.64	V-C	2.6034E+05	-7.100	31.00	1.000
1.000	92.64	0.000	0.000	5AL_158_160_L_0							
144 D	4.671	0.000	104.4	61.91	104.4	61.91	V-C	2.6034E+05	-7.150	31.50	1.000
1.000	93.41	0.000	0.000	5AL_158_160_L_0							
145 D	4.709	0.000	104.8	62.18	104.8	62.18	V-C	2.6034E+05	-7.200	32.00	1.000
1.000	94.18	0.000	0.000	5AL_158_160_L_0							
146 D	4.747	0.000	105.3	62.44	105.3	62.44	V-C	2.6034E+05	-7.250	32.50	1.000
1.000	94.94	0.000	0.000	5AL_158_160_L_0							
147 D	4.786	0.000	105.7	62.71	105.7	62.71	V-C	2.6034E+05	-7.300	33.00	1.000
1.000	95.71	0.000	0.000	5AL_158_160_L_0							
148 D	4.824	0.000	106.2	62.98	106.2	62.98	V-C	2.6034E+05	-7.350	33.50	1.000
1.000	96.48	0.000	0.000	5AL_158_160_L_0							
149 D	4.862	0.000	106.6	63.25	106.6	63.25	V-C	2.6034E+05	-7.400	34.00	1.000
1.000	97.25	0.000	0.000	5AL_158_160_L_0							
150 D	4.901	0.000	107.1	63.51	107.1	63.51	V-C	2.6034E+05	-7.450	34.50	1.000
1.000	98.01	0.000	0.000	5AL_158_160_L_0							
151 D	4.939	0.000	107.5	63.78	107.5	63.78	V-C	2.6034E+05	-7.500	35.00	1.000
1.000	98.78	0.000	0.000	5AL_158_160_L_0							
152 D	4.977	0.000	108.0	64.05	108.0	64.05	V-C	2.6034E+05	-7.550	35.50	1.000
1.000	99.55	0.000	0.000	5AL_158_160_L_0							
153 D	5.016	0.000	108.4	64.31	108.4	64.31	V-C	2.6034E+05	-7.600	36.00	1.000
1.000	100.3	0.000	0.000	5AL_158_160_L_0							
154 D	5.054	0.000	108.9	64.58	108.9	64.58	V-C	2.6034E+05	-7.650	36.50	1.000
1.000	101.1	0.000	0.000	5AL_158_160_L_0							
155 D	5.092	0.000	109.3	64.85	109.3	64.85	V-C	2.6034E+05	-7.700	37.00	1.000
1.000	101.8	0.000	0.000	5AL_158_160_L_0							
156 D	5.131	0.000	109.8	65.11	109.8	65.11	V-C	2.6034E+05	-7.750	37.50	1.000
1.000	102.6	0.000	0.000	5AL_158_160_L_0							
157 D	5.169	0.000	110.2	65.38	110.2	65.38	V-C	2.6034E+05	-7.800	38.00	1.000
1.000	103.4	0.000	0.000	5AL_158_160_L_0							
158 D	5.207	0.000	110.7	65.65	110.7	65.65	V-C	2.6034E+05	-7.850	38.50	1.000
1.000	104.1	0.000	0.000	5AL_158_160_L_0							
159 D	5.246	0.000	111.1	65.92	111.1	65.92	V-C	2.6034E+05	-7.900	39.00	1.000
1.000	104.9	0.000	0.000	5AL_158_160_L_0							
160 D	5.284	0.000	111.6	66.18	111.6	66.18	V-C	2.6034E+05	-7.950	39.50	1.000
1.000	105.7	0.000	0.000	5AL_158_160_L_0							
161 D	5.322	0.000	112.0	66.45	112.0	66.45	V-C	2.6034E+05	-8.000	40.00	1.000
1.000	106.4	0.000	0.000	5AL_158_160_L_0							
162 D	5.361	0.000	112.5	66.72	112.5	66.72	V-C	2.6034E+05	-8.050	40.50	1.000
1.000	107.2	0.000	0.000	5AL_158_160_L_0							
163 D	5.399	0.000	112.9	66.98	112.9	66.98	V-C	2.6034E+05	-8.100	41.00	1.000
1.000	108.0	0.000	0.000	5AL_158_160_L_0							
164 D	5.438	0.000	113.4	67.25	113.4	67.25	V-C	2.6034E+05	-8.150	41.50	1.000
1.000	108.8	0.000	0.000	5AL_158_160_L_0							
165 D	5.476	0.000	113.8	67.52	113.8	67.52	V-C	2.6034E+05	-8.200	42.00	1.000
1.000	109.5	0.000	0.000	5AL_158_160_L_0							
166 D	5.514	0.000	114.3	67.78	114.3	67.78	V-C	2.6034E+05	-8.250	42.50	1.000
1.000	110.3	0.000	0.000	5AL_158_160_L_0							
167 D	5.553	0.000	114.7	68.05	114.7	68.05	V-C	2.6034E+05	-8.300	43.00	1.000
1.000	111.1	0.000	0.000	5AL_158_160_L_0							
168 D	5.591	0.000	115.2	68.32	115.2	68.32	V-C	2.6034E+05	-8.350	43.50	1.000
1.000	111.8	0.000	0.000	5AL_158_160_L_0							
169 D	5.629	0.000	115.6	68.59	115.6	68.59	V-C	2.6034E+05	-8.400	44.00	1.000
1.000	112.6	0.000	0.000	5AL_158_160_L_0							
170 D	5.668	0.000	116.1	68.85	116.1	68.85	V-C	2.6034E+05	-8.450	44.50	1.000
1.000	113.4	0.000	0.000	5AL_158_160_L_0							
171 D	5.706	0.000	116.5	69.12	116.5	69.12	V-C	2.6034E+05	-8.500	45.00	1.000
1.000	114.1	0.000	0.000	5AL_158_160_L_0							
172 D	5.744	0.000	117.0	69.39	117.0	69.39	V-C	2.6034E+05	-8.550	45.50	1.000
1.000	114.9	0.000	0.000	5AL_158_160_L_0							
173 D	5.783	0.000	117.4	69.65	117.4	69.65	V-C	2.6034E+05	-8.600	46.00	1.000
1.000	115.7	0.000	0.000	5AL_158_160_L_0							
174 D	5.821	0.000	117.9	69.92	117.9	69.92	V-C	2.6034E+05	-8.650	46.50	1.000
1.000	116.4	0.000	0.000	5AL_158_160_L_0							
175 D	5.859	0.000	118.3	70.19	118.3	70.19	V-C	2.6034E+05	-8.700	47.00	1.000
1.000	117.2	0.000	0.000	5AL_158_160_L_0							
176 D	5.898	0.000	118.8	70.45	118.8	70.45	V-C	2.6034E+05	-8.750	47.50	1.000
1.000	118.0	0.000	0.000	5AL_158_160_L_0							
177 D	5.936	0.000	119.2	70.72	119.2	70.72	V-C	2.6034E+05	-8.800	48.00	1.000
1.000	118.7	0.000	0.000	5AL_158_160_L_0							
178 D	5.974	0.000	119.7	70.99	119.7	70.99	V-C	2.6034E+05	-8.850	48.50	1.000
1.000	119.5	0.000	0.000	5AL_158_160_L_0							
179 D	6.013	0.000	120.1	71.26	120.1	71.26	V-C	2.6034E+05	-8.900	49.00	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	236 di 401

RELAZIONE DI CALCOLO

1.000	120.3	0.000	0.000	5AL_158_160_L_0							
180 D	6.051	0.000	120.6	71.52	120.6	71.52	V-C	2.6034E+05	-8.950	49.50	1.000
1.000	121.0	0.000	0.000	5AL_158_160_L_0							
181 D	6.089	0.000	121.0	71.79	121.0	71.79	V-C	2.6034E+05	-9.000	50.00	1.000
1.000	121.8	0.000	0.000	5AL_158_160_L_0							
182 D	6.128	0.000	121.5	72.06	121.5	72.06	V-C	2.6034E+05	-9.050	50.50	1.000
1.000	122.6	0.000	0.000	5AL_158_160_L_0							
183 D	6.166	0.000	121.9	72.32	121.9	72.32	V-C	2.6034E+05	-9.100	51.00	1.000
1.000	123.3	0.000	0.000	5AL_158_160_L_0							
184 D	6.205	0.000	122.4	72.59	122.4	72.59	V-C	2.6034E+05	-9.150	51.50	1.000
1.000	124.1	0.000	0.000	5AL_158_160_L_0							
185 D	6.243	0.000	122.8	72.86	122.8	72.86	V-C	2.6034E+05	-9.200	52.00	1.000
1.000	124.9	0.000	0.000	5AL_158_160_L_0							
186 D	6.281	0.000	123.3	73.12	123.3	73.12	V-C	2.6034E+05	-9.250	52.50	1.000
1.000	125.6	0.000	0.000	5AL_158_160_L_0							
187 D	6.320	0.000	123.7	73.39	123.7	73.39	V-C	2.6034E+05	-9.300	53.00	1.000
1.000	126.4	0.000	0.000	5AL_158_160_L_0							
188 D	6.358	0.000	124.2	73.66	124.2	73.66	V-C	2.6034E+05	-9.350	53.50	1.000
1.000	127.2	0.000	0.000	5AL_158_160_L_0							
189 D	6.396	0.000	124.6	73.93	124.6	73.93	V-C	2.6034E+05	-9.400	54.00	1.000
1.000	127.9	0.000	0.000	5AL_158_160_L_0							
190 D	6.435	0.000	125.1	74.19	125.1	74.19	V-C	2.6034E+05	-9.450	54.50	1.000
1.000	128.7	0.000	0.000	5AL_158_160_L_0							
191 D	6.473	0.000	125.5	74.46	125.5	74.46	V-C	2.6034E+05	-9.500	55.00	1.000
1.000	129.5	0.000	0.000	5AL_158_160_L_0							
192 D	6.511	0.000	126.0	74.73	126.0	74.73	V-C	2.6034E+05	-9.550	55.50	1.000
1.000	130.2	0.000	0.000	5AL_158_160_L_0							
193 D	6.550	0.000	126.4	74.99	126.4	74.99	V-C	2.6034E+05	-9.600	56.00	1.000
1.000	131.0	0.000	0.000	5AL_158_160_L_0							
194 D	6.588	0.000	126.9	75.26	126.9	75.26	V-C	2.6034E+05	-9.650	56.50	1.000
1.000	131.8	0.000	0.000	5AL_158_160_L_0							
195 D	6.626	0.000	127.3	75.53	127.3	75.53	V-C	2.6034E+05	-9.700	57.00	1.000
1.000	132.5	0.000	0.000	5AL_158_160_L_0							
196 D	6.665	0.000	127.8	75.79	127.8	75.79	V-C	2.6034E+05	-9.750	57.50	1.000
1.000	133.3	0.000	0.000	5AL_158_160_L_0							
197 D	6.703	0.000	128.2	76.06	128.2	76.06	V-C	2.6034E+05	-9.800	58.00	1.000
1.000	134.1	0.000	0.000	5AL_158_160_L_0							
198 D	6.741	0.000	128.7	76.33	128.7	76.33	V-C	2.6034E+05	-9.850	58.50	1.000
1.000	134.8	0.000	0.000	5AL_158_160_L_0							
199 D	6.780	0.000	129.1	76.60	129.1	76.60	V-C	2.6034E+05	-9.900	59.00	1.000
1.000	135.6	0.000	0.000	5AL_158_160_L_0							
200 D	6.817	0.000	129.6	76.86	129.6	76.86	V-C	2.6034E+05	-9.950	59.50	1.000
1.000	136.4	0.000	0.000	5AL_158_160_L_0							
201 D	3.427	0.000	130.0	77.13	130.0	77.13	V-C	2.6034E+05	-10.00	60.00	1.000
1.000	137.1	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM= 8370. RIMNOR= 0.000
RENORM= 570.4 REMNOR= 0.000 RATIO =0.2611 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 8.507 RMMAX = 0.000
RTSMAL=0.1000E-04 RMSMAL= 0.000
RDT = 8370. RDR = 0.000
RATIOT=0.2611 RATIOR= 0.000
MAX UN= 1.691 IEQ= 371 NODE 186 DOF 1 Y-DISPL.F
MIN UN= 0.000 IEQ= 2 NODE 1 DOF 2 X-ROT. F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	237 di 401

RELAZIONE DI CALCOLO

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ITER 2 RNORM = 0.000      RMNORM= 0.000
      RINORM= 8370.      RIMNOR= 0.000
      RENORM=0.3755     REMNOR=0.1474E-21  RATIO =0.6698E-02  TOLER =0.1000E-03  NOT CONVERGED
      RFMAX = 8.507      RMMAX = 0.000
      RTSMAL=0.1000E-04  RMSMAL= 0.000
      RDT = 8370.      RDR = 0.000
      RATIOI=0.6698E-02  RATIOI= 0.000
      MAX UN=-0.1773    IEQ= 3 NODE      2 DOF 1 Y-DISPL.F
      MIN UN=-.1392E-09 IEQ= 235 NODE 118 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000      RMNORM= 0.000
      RINORM= 8370.      RIMNOR= 0.000
      RENORM=0.1602E-02  REMNOR=0.1837E-22  RATIO =0.4375E-03  TOLER =0.1000E-03  NOT CONVERGED
      RFMAX = 8.507      RMMAX = 0.000
      RTSMAL=0.1000E-04  RMSMAL= 0.000
      RDT = 8370.      RDR = 0.000
      RATIOI=0.4375E-03  RATIOI= 0.000
      MAX UN=0.3046E-01 IEQ= 71 NODE      36 DOF 1 Y-DISPL.F
      MIN UN=-.4860E-10 IEQ= 7 NODE      4 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000      RMNORM= 0.000
      RINORM= 8370.      RIMNOR= 0.000
      RENORM=0.5900E-06  REMNOR=0.1917E-22  RATIO =0.8396E-05  TOLER =0.1000E-03  CONVERGED !
      RFMAX = 8.507      RMMAX = 0.000
      RTSMAL=0.1000E-04  RMSMAL= 0.000
      RDT = 8370.      RDR = 0.000
      RATIOI=0.8396E-05  RATIOI= 0.000
      MAX UN=0.4583E-03 IEQ= 3 NODE      2 DOF 1 Y-DISPL.F
      MIN UN=-.4656E-10 IEQ= 75 NODE      38 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
  
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PARATIEPLUS (TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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paratia_mario
SOLUTION REACHED USING 4 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F (02)	X-ROT. F (04)
1	6.1818948E-05	-7.4849344E-06
2	6.1444705E-05	-7.4847501E-06
3	6.1070485E-05	-7.4838399E-06
4	6.0696345E-05	-7.4815005E-06
5	6.0322371E-05	-7.4770509E-06
6	5.9948686E-05	-7.4698330E-06
7	5.9575444E-05	-7.4592116E-06
8	5.9202831E-05	-7.4445742E-06
9	5.8831063E-05	-7.4253322E-06
10	5.8460384E-05	-7.4009206E-06
11	5.8091066E-05	-7.3707991E-06
12	5.7723407E-05	-7.3344533E-06
13	5.7357732E-05	-7.2913949E-06
14	5.6994387E-05	-7.2411638E-06
15	5.6633743E-05	-7.1833290E-06
16	5.6276188E-05	-7.1174910E-06
17	5.5922133E-05	-7.0432833E-06
18	5.5572005E-05	-6.9603749E-06
19	5.5226245E-05	-6.8684729E-06
20	5.4885311E-05	-6.7673261E-06
21	5.4549671E-05	-6.6567274E-06
22	5.4219800E-05	-6.5365164E-06
23	5.3896181E-05	-6.4065860E-06
24	5.3579304E-05	-6.2668848E-06
25	5.3269656E-05	-6.1174216E-06
26	5.2967723E-05	-5.9582713E-06
27	5.2673987E-05	-5.7895793E-06



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100.004	A	238 di 401

RELAZIONE DI CALCOLO

28	5.2388920E-05	-5.6115677E-06
29	5.2112981E-05	-5.4245408E-06
30	5.1846610E-05	-5.2288918E-06
31	5.1590227E-05	-5.0251092E-06
32	5.1344225E-05	-4.8137835E-06
33	5.1108963E-05	-4.5956148E-06
34	5.0884768E-05	-4.3714245E-06
35	5.0671910E-05	-4.1421451E-06
36	5.0470621E-05	-3.9088550E-06
37	5.0281071E-05	-3.6727686E-06
38	5.0103368E-05	-3.4352492E-06
39	4.9937545E-05	-3.1978170E-06
40	4.9783556E-05	-2.9621580E-06
41	4.9641270E-05	-2.7300462E-06
42	4.9510465E-05	-2.5031251E-06
43	4.9390848E-05	-2.2827823E-06
44	4.9282058E-05	-2.0701697E-06
45	4.9183686E-05	-1.8662252E-06
46	4.9095279E-05	-1.6716919E-06
47	4.9016351E-05	-1.4871374E-06
48	4.8946392E-05	-1.3129726E-06
49	4.8884876E-05	-1.1494683E-06
50	4.8831265E-05	-9.9678190E-07
51	4.8785016E-05	-8.5496163E-07
52	4.8745589E-05	-7.2394073E-07
53	4.8712445E-05	-6.0355384E-07
54	4.8685060E-05	-4.9355209E-07
55	4.8662922E-05	-3.9361695E-07
56	4.8645537E-05	-3.0337291E-07
57	4.8632430E-05	-2.2239896E-07
58	4.8623150E-05	-1.5024037E-07
59	4.8617268E-05	-8.6412409E-08
60	4.8614378E-05	-3.0417291E-08
61	4.8614104E-05	1.8254377E-08
62	4.8616090E-05	6.0115633E-08
63	4.8620010E-05	9.5677545E-08
64	4.8625562E-05	1.2544438E-07
65	4.8632466E-05	1.4990952E-07
66	4.8640472E-05	1.6955199E-07
67	4.8649349E-05	1.8483368E-07
68	4.8658890E-05	1.9619703E-07
69	4.8668910E-05	2.0406329E-07
70	4.8679245E-05	2.0883121E-07
71	4.8689748E-05	2.1087611E-07
72	4.8700293E-05	2.1054933E-07
73	4.8710769E-05	2.0817798E-07
74	4.8721082E-05	2.0406498E-07
75	4.8731151E-05	1.9848934E-07
76	4.8740911E-05	1.9170660E-07
77	4.8750306E-05	1.8394950E-07
78	4.8759293E-05	1.7542871E-07
79	4.8767839E-05	1.6633395E-07
80	4.8775919E-05	1.5683421E-07
81	4.8783518E-05	1.4707988E-07
82	4.8790625E-05	1.3720314E-07
83	4.8797238E-05	1.2731905E-07
84	4.8803359E-05	1.1752745E-07
85	4.8808994E-05	1.0791297E-07
86	4.8814154E-05	9.8546877E-08
87	4.8818854E-05	8.9488031E-08
88	4.8823109E-05	8.0783940E-08
89	4.8826939E-05	7.2471648E-08
90	4.8830363E-05	6.4579387E-08
91	4.8833404E-05	5.7126539E-08
92	4.8836083E-05	5.0125215E-08
93	4.8838424E-05	4.3580944E-08
94	4.8840449E-05	3.7493362E-08
95	4.8842181E-05	3.1858138E-08
96	4.8843642E-05	2.6667318E-08
97	4.8844855E-05	2.1910073E-08
98	4.8845840E-05	1.7573064E-08
99	4.8846619E-05	1.3640814E-08
100	4.8847211E-05	1.0096420E-08
101	4.8847635E-05	6.9214558E-09
102	4.8847909E-05	4.0966196E-09
103	4.8848050E-05	1.6019565E-09
104	4.8848074E-05	-5.8291921E-10
105	4.8847996E-05	-2.4784206E-09
106	4.8847831E-05	-4.1050445E-09
107	4.8847590E-05	-5.4830127E-09
108	4.8847286E-05	-6.6321652E-09



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	239 di 401

RELAZIONE DI CALCOLO

109	4.8846930E-05	-7.5718310E-09
110	4.8846532E-05	-8.3207324E-09
111	4.8846101E-05	-8.8968411E-09
112	4.8845645E-05	-9.3173964E-09
113	4.8845172E-05	-9.5987882E-09
114	4.8844687E-05	-9.7565336E-09
115	4.8844198E-05	-9.8052502E-09
116	4.8843708E-05	-9.7586393E-09
117	4.8843223E-05	-9.6294870E-09
118	4.8842747E-05	-9.4296623E-09
119	4.8842281E-05	-9.1701311E-09
120	4.8841831E-05	-8.8609682E-09
121	4.8841396E-05	-8.5114071E-09
122	4.8840980E-05	-8.1298319E-09
123	4.8840583E-05	-7.7238334E-09
124	4.8840208E-05	-7.3002397E-09
125	4.8839854E-05	-6.8651451E-09
126	4.8839521E-05	-6.4239847E-09
127	4.8839211E-05	-5.9815230E-09
128	4.8838923E-05	-5.5419300E-09
129	4.8838657E-05	-5.1088140E-09
130	4.8838412E-05	-4.6852629E-09
131	4.8838188E-05	-4.2738765E-09
132	4.8837985E-05	-3.8768390E-09
133	4.8837800E-05	-3.4959084E-09
134	4.8837635E-05	-3.1324866E-09
135	4.8837487E-05	-2.7876472E-09
136	4.8837356E-05	-2.4621628E-09
137	4.8837240E-05	-2.1565634E-09
138	4.8837140E-05	-1.8711278E-09
139	4.8837053E-05	-1.6059386E-09
140	4.8836979E-05	-1.3608827E-09
141	4.8836916E-05	-1.1356561E-09
142	4.8836865E-05	-9.2981137E-10
143	4.8836823E-05	-7.4275599E-10
144	4.8836790E-05	-5.7379493E-10
145	4.8836765E-05	-4.2214733E-10
146	4.8836748E-05	-2.8696340E-10
147	4.8836736E-05	-1.6735241E-10
148	4.8836731E-05	-6.2382047E-11
149	4.8836730E-05	2.8896687E-11
150	4.8836733E-05	1.0744023E-10
151	4.8836740E-05	1.7420195E-10
152	4.8836751E-05	2.3012406E-10
153	4.8836763E-05	2.7612572E-10
154	4.8836778E-05	3.1310324E-10
155	4.8836794E-05	3.4192009E-10
156	4.8836812E-05	3.6340390E-10
157	4.8836831E-05	3.7834328E-10
158	4.8836850E-05	3.8748435E-10
159	4.8836869E-05	3.9153076E-10
160	4.8836889E-05	3.9114127E-10
161	4.8836908E-05	3.8692969E-10
162	4.8836928E-05	3.7946473E-10
163	4.8836946E-05	3.6927109E-10
164	4.8836964E-05	3.5682942E-10
165	4.8836982E-05	3.4257807E-10
166	4.8836999E-05	3.2691434E-10
167	4.8837015E-05	3.1019580E-10
168	4.8837030E-05	2.9274342E-10
169	4.8837044E-05	2.7484150E-10
170	4.8837057E-05	2.5674098E-10
171	4.8837070E-05	2.3866118E-10
172	4.8837081E-05	2.2079188E-10
173	4.8837092E-05	2.0329502E-10
174	4.8837101E-05	1.8630821E-10
175	4.8837110E-05	1.6994455E-10
176	4.8837118E-05	1.5429609E-10
177	4.8837126E-05	1.3943528E-10
178	4.8837132E-05	1.2541653E-10
179	4.8837138E-05	1.1227903E-10
180	4.8837144E-05	1.0004667E-10
181	4.8837148E-05	8.8730679E-11
182	4.8837153E-05	7.8330762E-11
183	4.8837156E-05	6.8836214E-11
184	4.8837159E-05	6.0227859E-11
185	4.8837162E-05	5.2480875E-11
186	4.8837165E-05	4.5567159E-11
187	4.8837167E-05	3.9453668E-11
188	4.8837169E-05	3.4102967E-11
189	4.8837170E-05	2.9474218E-11



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100.004	A	240 di 401

RELAZIONE DI CALCOLO

190	4.8837172E-05	2.5523039E-11
191	4.8837173E-05	2.2202390E-11
192	4.8837174E-05	1.9462819E-11
193	4.8837175E-05	1.7252743E-11
194	4.8837176E-05	1.5518871E-11
195	4.8837176E-05	1.4206145E-11
196	4.8837177E-05	1.3258094E-11
197	4.8837178E-05	1.2616907E-11
198	4.8837178E-05	1.2223527E-11
199	4.8837179E-05	1.2017701E-11
200	4.8837179E-05	1.1938038E-11
201	4.8837180E-05	1.1922005E-11

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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STRESS RESULTS FOR GROUP NO. 1

O_L
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * FACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
1 D	0.4094	-6.1819E-05	57.00	16.37	57.00	33.82	UL-RL	4.3213E+05	0.000	0.000	1.000
1.000	16.37	0.000	0.000	5AL_158_160_L_0							
2 D	0.8415	-6.1445E-05	57.95	16.83	57.95	34.38	UL-RL	4.3213E+05	-5.0000E-02	0.000	1.000
1.000	16.83	0.000	0.000	5AL_158_160_L_0							
3 D	0.8643	-6.1070E-05	58.90	17.29	58.90	34.95	UL-RL	4.3213E+05	-0.1000	0.000	1.000
1.000	17.29	0.000	0.000	5AL_158_160_L_0							
4 D	0.8871	-6.0696E-05	59.85	17.74	59.85	35.51	UL-RL	4.3213E+05	-0.1500	0.000	1.000
1.000	17.74	0.000	0.000	5AL_158_160_L_0							
5 D	0.9099	-6.0322E-05	60.80	18.20	60.80	36.07	UL-RL	4.3213E+05	-0.2000	0.000	1.000
1.000	18.20	0.000	0.000	5AL_158_160_L_0							
6 D	0.9328	-5.9949E-05	61.75	18.66	61.75	36.64	ACTIVE	0.000	-0.2500	0.000	1.000
1.000	18.66	0.000	0.000	5AL_158_160_L_0							
7 D	0.9557	-5.9575E-05	62.70	19.11	62.70	37.20	ACTIVE	0.000	-0.3000	0.000	1.000
1.000	19.11	0.000	0.000	5AL_158_160_L_0							
8 D	0.9786	-5.9203E-05	63.65	19.57	63.65	37.76	ACTIVE	0.000	-0.3500	0.000	1.000
1.000	19.57	0.000	0.000	5AL_158_160_L_0							
9 D	1.001	-5.8831E-05	64.60	20.03	64.60	38.33	ACTIVE	0.000	-0.4000	0.000	1.000
1.000	20.03	0.000	0.000	5AL_158_160_L_0							
10 D	1.024	-5.8460E-05	65.55	20.49	65.55	38.89	ACTIVE	0.000	-0.4500	0.000	1.000
1.000	20.49	0.000	0.000	5AL_158_160_L_0							
11 D	1.047	-5.8091E-05	66.50	20.94	66.50	39.45	ACTIVE	0.000	-0.5000	0.000	1.000
1.000	20.94	0.000	0.000	5AL_158_160_L_0							
12 D	1.070	-5.7723E-05	67.45	21.40	67.45	40.02	ACTIVE	0.000	-0.5500	0.000	1.000
1.000	21.40	0.000	0.000	5AL_158_160_L_0							
13 D	1.093	-5.7358E-05	68.40	21.86	68.40	40.58	ACTIVE	0.000	-0.6000	0.000	1.000
1.000	21.86	0.000	0.000	5AL_158_160_L_0							
14 D	1.116	-5.6994E-05	69.35	22.32	69.35	41.15	ACTIVE	0.000	-0.6500	0.000	1.000
1.000	22.32	0.000	0.000	5AL_158_160_L_0							
15 D	1.139	-5.6634E-05	70.30	22.78	70.30	41.71	ACTIVE	0.000	-0.7000	0.000	1.000
1.000	22.78	0.000	0.000	5AL_158_160_L_0							
16 D	1.162	-5.6276E-05	71.25	23.23	71.25	42.27	ACTIVE	0.000	-0.7500	0.000	1.000
1.000	23.23	0.000	0.000	5AL_158_160_L_0							
17 D	1.185	-5.5922E-05	72.20	23.69	72.20	42.84	ACTIVE	0.000	-0.8000	0.000	1.000
1.000	23.69	0.000	0.000	5AL_158_160_L_0							
18 D	1.208	-5.5572E-05	73.15	24.15	73.15	43.40	ACTIVE	0.000	-0.8500	0.000	1.000
1.000	24.15	0.000	0.000	5AL_158_160_L_0							
19 D	1.230	-5.5226E-05	74.10	24.61	74.10	43.96	ACTIVE	0.000	-0.9000	0.000	1.000
1.000	24.61	0.000	0.000	5AL_158_160_L_0							
20 D	1.253	-5.4885E-05	75.05	25.07	75.05	44.53	ACTIVE	0.000	-0.9500	0.000	1.000
1.000	25.07	0.000	0.000	5AL_158_160_L_0							
21 D	1.276	-5.4550E-05	76.00	25.52	76.00	45.09	ACTIVE	0.000	-1.000	0.000	1.000
1.000	25.52	0.000	0.000	5AL_158_160_L_0							
22 D	1.299	-5.4220E-05	76.95	25.98	76.95	45.65	ACTIVE	0.000	-1.050	0.000	1.000

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	241 di 401

1.000	25.98	0.000	0.000	5AL_158_160_L_0							
23 D	1.322	-5.3896E-05	77.90	26.44	77.90	46.22	ACTIVE	0.000	-1.100	0.000	1.000
1.000	26.44	0.000	0.000	5AL_158_160_L_0							
24 D	1.345	-5.3579E-05	78.85	26.90	78.85	46.78	ACTIVE	0.000	-1.150	0.000	1.000
1.000	26.90	0.000	0.000	5AL_158_160_L_0							
25 D	1.368	-5.3270E-05	79.80	27.36	79.80	47.35	ACTIVE	0.000	-1.200	0.000	1.000
1.000	27.36	0.000	0.000	5AL_158_160_L_0							
26 D	1.391	-5.2968E-05	80.75	27.81	80.75	47.91	ACTIVE	0.000	-1.250	0.000	1.000
1.000	27.81	0.000	0.000	5AL_158_160_L_0							
27 D	1.414	-5.2674E-05	81.70	28.27	81.70	48.47	ACTIVE	0.000	-1.300	0.000	1.000
1.000	28.27	0.000	0.000	5AL_158_160_L_0							
28 D	1.436	-5.2389E-05	82.65	28.73	82.65	49.04	ACTIVE	0.000	-1.350	0.000	1.000
1.000	28.73	0.000	0.000	5AL_158_160_L_0							
29 D	1.459	-5.2113E-05	83.60	29.19	83.60	49.60	ACTIVE	0.000	-1.400	0.000	1.000
1.000	29.19	0.000	0.000	5AL_158_160_L_0							
30 D	1.482	-5.1847E-05	84.55	29.64	84.55	50.16	ACTIVE	0.000	-1.450	0.000	1.000
1.000	29.64	0.000	0.000	5AL_158_160_L_0							
31 D	1.505	-5.1590E-05	85.50	30.10	85.50	50.73	ACTIVE	0.000	-1.500	0.000	1.000
1.000	30.10	0.000	0.000	5AL_158_160_L_0							
32 D	1.528	-5.1344E-05	86.45	30.56	86.45	51.29	ACTIVE	0.000	-1.550	0.000	1.000
1.000	30.56	0.000	0.000	5AL_158_160_L_0							
33 D	1.551	-5.1109E-05	87.40	31.02	87.40	51.85	ACTIVE	0.000	-1.600	0.000	1.000
1.000	31.02	0.000	0.000	5AL_158_160_L_0							
34 D	1.574	-5.0885E-05	88.35	31.48	88.35	52.42	ACTIVE	0.000	-1.650	0.000	1.000
1.000	31.48	0.000	0.000	5AL_158_160_L_0							
35 D	1.597	-5.0672E-05	89.30	31.93	89.30	52.98	ACTIVE	0.000	-1.700	0.000	1.000
1.000	31.93	0.000	0.000	5AL_158_160_L_0							
36 D	1.620	-5.0471E-05	90.25	32.39	90.25	53.55	ACTIVE	0.000	-1.750	0.000	1.000
1.000	32.39	0.000	0.000	5AL_158_160_L_0							
37 D	1.643	-5.0281E-05	91.20	32.85	91.20	54.11	ACTIVE	0.000	-1.800	0.000	1.000
1.000	32.85	0.000	0.000	5AL_158_160_L_0							
38 D	1.665	-5.0103E-05	92.15	33.31	92.15	54.67	ACTIVE	0.000	-1.850	0.000	1.000
1.000	33.31	0.000	0.000	5AL_158_160_L_0							
39 D	1.688	-4.9938E-05	93.10	33.77	93.10	55.24	ACTIVE	0.000	-1.900	0.000	1.000
1.000	33.77	0.000	0.000	5AL_158_160_L_0							
40 D	1.714	-4.9784E-05	94.05	34.29	94.05	55.80	UL-RL	4.3213E+05	-1.950	0.000	1.000
1.000	34.29	0.000	0.000	5AL_158_160_L_0							
41 D	1.746	-4.9641E-05	95.00	34.91	95.00	56.36	UL-RL	4.3213E+05	-2.000	0.000	1.000
1.000	34.91	0.000	0.000	5AL_158_160_L_0							
42 D	1.777	-4.9510E-05	95.95	35.53	95.95	56.93	UL-RL	4.3213E+05	-2.050	0.000	1.000
1.000	35.53	0.000	0.000	5AL_158_160_L_0							
43 D	1.807	-4.9391E-05	96.90	36.15	96.90	57.49	UL-RL	4.3213E+05	-2.100	0.000	1.000
1.000	36.15	0.000	0.000	5AL_158_160_L_0							
44 D	1.838	-4.9282E-05	97.85	36.76	97.85	58.05	UL-RL	4.3213E+05	-2.150	0.000	1.000
1.000	36.76	0.000	0.000	5AL_158_160_L_0							
45 D	1.868	-4.9184E-05	98.80	37.36	98.80	58.62	UL-RL	4.3213E+05	-2.200	0.000	1.000
1.000	37.36	0.000	0.000	5AL_158_160_L_0							
46 D	1.898	-4.9095E-05	99.75	37.97	99.75	59.18	UL-RL	4.3213E+05	-2.250	0.000	1.000
1.000	37.97	0.000	0.000	5AL_158_160_L_0							
47 D	1.928	-4.9016E-05	100.7	38.56	100.7	59.75	UL-RL	4.3213E+05	-2.300	0.000	1.000
1.000	38.56	0.000	0.000	5AL_158_160_L_0							
48 D	1.958	-4.8946E-05	101.6	39.16	101.6	60.31	UL-RL	4.3213E+05	-2.350	0.000	1.000
1.000	39.16	0.000	0.000	5AL_158_160_L_0							
49 D	1.987	-4.8885E-05	102.6	39.75	102.6	60.87	UL-RL	4.3213E+05	-2.400	0.000	1.000
1.000	39.75	0.000	0.000	5AL_158_160_L_0							
50 D	2.017	-4.8831E-05	103.5	40.33	103.5	61.44	UL-RL	4.3213E+05	-2.450	0.000	1.000
1.000	40.33	0.000	0.000	5AL_158_160_L_0							
51 D	2.046	-4.8785E-05	104.5	40.92	104.5	62.00	UL-RL	4.3213E+05	-2.500	0.000	1.000
1.000	40.92	0.000	0.000	5AL_158_160_L_0							
52 D	2.075	-4.8746E-05	105.4	41.50	105.4	62.56	UL-RL	4.3213E+05	-2.550	0.000	1.000
1.000	41.50	0.000	0.000	5AL_158_160_L_0							
53 D	2.104	-4.8712E-05	106.4	42.08	106.4	63.13	UL-RL	4.3213E+05	-2.600	0.000	1.000
1.000	42.08	0.000	0.000	5AL_158_160_L_0							
54 D	2.133	-4.8685E-05	107.3	42.65	107.3	63.69	UL-RL	4.3213E+05	-2.650	0.000	1.000
1.000	42.65	0.000	0.000	5AL_158_160_L_0							
55 D	2.161	-4.8663E-05	108.3	43.23	108.3	64.25	UL-RL	4.3213E+05	-2.700	0.000	1.000
1.000	43.23	0.000	0.000	5AL_158_160_L_0							
56 D	2.190	-4.8646E-05	109.2	43.80	109.2	64.82	UL-RL	4.3213E+05	-2.750	0.000	1.000
1.000	43.80	0.000	0.000	5AL_158_160_L_0							
57 D	2.218	-4.8632E-05	110.2	44.37	110.2	65.38	UL-RL	4.3213E+05	-2.800	0.000	1.000
1.000	44.37	0.000	0.000	5AL_158_160_L_0							
58 D	2.247	-4.8623E-05	111.1	44.93	111.1	65.95	UL-RL	4.3213E+05	-2.850	0.000	1.000
1.000	44.93	0.000	0.000	5AL_158_160_L_0							
59 D	2.275	-4.8617E-05	112.1	45.50	112.1	66.51	UL-RL	4.3213E+05	-2.900	0.000	1.000
1.000	45.50	0.000	0.000	5AL_158_160_L_0							
60 D	2.303	-4.8614E-05	113.0	46.07	113.0	67.07	UL-RL	4.3213E+05	-2.950	0.000	1.000
1.000	46.07	0.000	0.000	5AL_158_160_L_0							
61 D	2.331	-4.8614E-05	114.0	46.63	114.0	67.64	UL-RL	4.3213E+05	-3.000	0.000	1.000
1.000	46.63	0.000	0.000	5AL_158_160_L_0							
62 D	2.360	-4.8616E-05	114.9	47.19	114.9	68.20	UL-RL	4.3213E+05	-3.050	0.000	1.000
1.000	47.19	0.000	0.000	5AL_158_160_L_0							

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	242 di 401

63 D	2.388	-4.8620E-05	115.9	47.75	115.9	68.76	UL-RL	4.3213E+05	-3.100	0.000	1.000
1.000	47.75	0.000	0.000	SAL_158_160_L_0							
64 D	2.416	-4.8626E-05	116.8	48.31	116.8	69.33	UL-RL	4.3213E+05	-3.150	0.000	1.000
1.000	48.31	0.000	0.000	SAL_158_160_L_0							
65 D	2.444	-4.8632E-05	117.8	48.88	117.8	69.89	UL-RL	4.3213E+05	-3.200	0.000	1.000
1.000	48.88	0.000	0.000	SAL_158_160_L_0							
66 D	2.472	-4.8640E-05	118.7	49.44	118.7	70.45	UL-RL	4.3213E+05	-3.250	0.000	1.000
1.000	49.44	0.000	0.000	SAL_158_160_L_0							
67 D	2.500	-4.8649E-05	119.7	50.00	119.7	71.02	UL-RL	4.3213E+05	-3.300	0.000	1.000
1.000	50.00	0.000	0.000	SAL_158_160_L_0							
68 D	2.528	-4.8659E-05	120.6	50.55	120.6	71.58	UL-RL	4.3213E+05	-3.350	0.000	1.000
1.000	50.55	0.000	0.000	SAL_158_160_L_0							
69 D	2.556	-4.8669E-05	121.6	51.11	121.6	72.15	UL-RL	4.3213E+05	-3.400	0.000	1.000
1.000	51.11	0.000	0.000	SAL_158_160_L_0							
70 D	2.584	-4.8679E-05	122.5	51.67	122.5	72.71	UL-RL	4.3213E+05	-3.450	0.000	1.000
1.000	51.67	0.000	0.000	SAL_158_160_L_0							
71 D	2.612	-4.8690E-05	123.5	52.23	123.5	73.27	UL-RL	4.3213E+05	-3.500	0.000	1.000
1.000	52.23	0.000	0.000	SAL_158_160_L_0							
72 D	2.640	-4.8700E-05	124.4	52.79	124.4	73.84	UL-RL	4.3213E+05	-3.550	0.000	1.000
1.000	52.79	0.000	0.000	SAL_158_160_L_0							
73 D	2.668	-4.8711E-05	125.4	53.35	125.4	74.40	UL-RL	4.3213E+05	-3.600	0.000	1.000
1.000	53.35	0.000	0.000	SAL_158_160_L_0							
74 D	2.695	-4.8721E-05	126.3	53.91	126.3	74.96	UL-RL	4.3213E+05	-3.650	0.000	1.000
1.000	53.91	0.000	0.000	SAL_158_160_L_0							
75 D	2.723	-4.8731E-05	127.3	54.47	127.3	75.53	UL-RL	4.3213E+05	-3.700	0.000	1.000
1.000	54.47	0.000	0.000	SAL_158_160_L_0							
76 D	2.751	-4.8741E-05	128.2	55.03	128.2	76.09	UL-RL	4.3213E+05	-3.750	0.000	1.000
1.000	55.03	0.000	0.000	SAL_158_160_L_0							
77 D	2.779	-4.8750E-05	129.2	55.59	129.2	76.65	UL-RL	4.3213E+05	-3.800	0.000	1.000
1.000	55.59	0.000	0.000	SAL_158_160_L_0							
78 D	2.807	-4.8759E-05	130.1	56.15	130.1	77.22	UL-RL	4.3213E+05	-3.850	0.000	1.000
1.000	56.15	0.000	0.000	SAL_158_160_L_0							
79 D	2.835	-4.8768E-05	131.1	56.71	131.1	77.78	UL-RL	4.3213E+05	-3.900	0.000	1.000
1.000	56.71	0.000	0.000	SAL_158_160_L_0							
80 D	2.863	-4.8776E-05	132.0	57.27	132.0	78.35	UL-RL	4.3213E+05	-3.950	0.000	1.000
1.000	57.27	0.000	0.000	SAL_158_160_L_0							
81 D	2.891	-4.8784E-05	133.0	57.83	133.0	78.91	UL-RL	4.3213E+05	-4.000	0.000	1.000
1.000	57.83	0.000	0.000	SAL_158_160_L_0							
82 D	2.930	-4.8791E-05	133.4	58.09	133.4	79.18	UL-RL	4.3213E+05	-4.050	0.5000	1.000
1.000	58.09	0.000	0.000	SAL_158_160_L_0							
83 D	2.968	-4.8797E-05	133.9	58.36	133.9	79.44	UL-RL	4.3213E+05	-4.100	1.000	1.000
1.000	58.36	0.000	0.000	SAL_158_160_L_0							
84 D	3.006	-4.8803E-05	134.3	58.62	134.3	79.71	UL-RL	4.3213E+05	-4.150	1.500	1.000
1.000	60.12	0.000	0.000	SAL_158_160_L_0							
85 D	3.044	-4.8809E-05	134.8	58.89	134.8	79.98	UL-RL	4.3213E+05	-4.200	2.000	1.000
1.000	60.89	0.000	0.000	SAL_158_160_L_0							
86 D	3.082	-4.8814E-05	135.2	59.15	135.2	80.24	UL-RL	4.3213E+05	-4.250	2.500	1.000
1.000	61.65	0.000	0.000	SAL_158_160_L_0							
87 D	3.121	-4.8819E-05	135.7	59.41	135.7	80.51	UL-RL	4.3213E+05	-4.300	3.000	1.000
1.000	62.41	0.000	0.000	SAL_158_160_L_0							
88 D	3.159	-4.8823E-05	136.1	59.68	136.1	80.78	UL-RL	4.3213E+05	-4.350	3.500	1.000
1.000	63.18	0.000	0.000	SAL_158_160_L_0							
89 D	3.197	-4.8827E-05	136.6	59.95	136.6	81.04	UL-RL	4.3213E+05	-4.400	4.000	1.000
1.000	63.95	0.000	0.000	SAL_158_160_L_0							
90 D	3.236	-4.8830E-05	137.0	60.21	137.0	81.31	UL-RL	4.3213E+05	-4.450	4.500	1.000
1.000	64.71	0.000	0.000	SAL_158_160_L_0							
91 D	3.274	-4.8833E-05	137.5	60.48	137.5	81.58	UL-RL	4.3213E+05	-4.500	5.000	1.000
1.000	65.48	0.000	0.000	SAL_158_160_L_0							
92 D	3.312	-4.8836E-05	137.9	60.74	137.9	81.85	UL-RL	4.3213E+05	-4.550	5.500	1.000
1.000	66.24	0.000	0.000	SAL_158_160_L_0							
93 D	3.350	-4.8838E-05	138.4	61.01	138.4	82.11	UL-RL	4.3213E+05	-4.600	6.000	1.000
1.000	67.01	0.000	0.000	SAL_158_160_L_0							
94 D	3.389	-4.8840E-05	138.9	61.27	138.9	82.38	UL-RL	4.3213E+05	-4.650	6.500	1.000
1.000	67.77	0.000	0.000	SAL_158_160_L_0							
95 D	3.427	-4.8842E-05	139.3	61.54	139.3	82.65	UL-RL	4.3213E+05	-4.700	7.000	1.000
1.000	68.54	0.000	0.000	SAL_158_160_L_0							
96 D	3.465	-4.8844E-05	139.8	61.81	139.8	82.91	UL-RL	4.3213E+05	-4.750	7.500	1.000
1.000	69.31	0.000	0.000	SAL_158_160_L_0							
97 D	3.504	-4.8845E-05	140.2	62.07	140.2	83.18	UL-RL	4.3213E+05	-4.800	8.000	1.000
1.000	70.07	0.000	0.000	SAL_158_160_L_0							
98 D	3.542	-4.8846E-05	140.6	62.34	140.6	83.45	UL-RL	4.3213E+05	-4.850	8.500	1.000
1.000	70.84	0.000	0.000	SAL_158_160_L_0							
99 D	3.580	-4.8847E-05	141.1	62.61	141.1	83.71	UL-RL	4.3213E+05	-4.900	9.000	1.000
1.000	71.61	0.000	0.000	SAL_158_160_L_0							
100 D	3.619	-4.8847E-05	141.6	62.87	141.6	83.98	UL-RL	4.3213E+05	-4.950	9.500	1.000
1.000	72.37	0.000	0.000	SAL_158_160_L_0							
101 D	3.657	-4.8848E-05	142.0	63.14	142.0	84.25	UL-RL	4.3213E+05	-5.000	10.00	1.000
1.000	73.14	0.000	0.000	SAL_158_160_L_0							
102 D	3.695	-4.8848E-05	142.5	63.41	142.5	84.52	UL-RL	4.3213E+05	-5.050	10.50	1.000
1.000	73.91	0.000	0.000	SAL_158_160_L_0							
103 D	3.734	-4.8848E-05	142.9	63.67	142.9	84.78	UL-RL	4.3213E+05	-5.100	11.00	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100.004	A	243 di 401

1.000		74.67	0.000	0.000	5AL_158_160_L_0						
104 D	3.772	-4.8848E-05	143.4	63.94	143.4	85.05	UL-RL	4.3213E+05	-5.150	11.50	1.000
1.000		75.44	0.000	0.000	5AL_158_160_L_0						
105 D	3.810	-4.8848E-05	143.8	64.21	143.8	85.32	UL-RL	4.3213E+05	-5.200	12.00	1.000
1.000		76.21	0.000	0.000	5AL_158_160_L_0						
106 D	3.849	-4.8848E-05	144.3	64.48	144.3	85.58	UL-RL	4.3213E+05	-5.250	12.50	1.000
1.000		76.98	0.000	0.000	5AL_158_160_L_0						
107 D	3.887	-4.8848E-05	144.7	64.74	144.7	85.85	UL-RL	4.3213E+05	-5.300	13.00	1.000
1.000		77.74	0.000	0.000	5AL_158_160_L_0						
108 D	3.925	-4.8847E-05	145.2	65.01	145.2	86.12	UL-RL	4.3213E+05	-5.350	13.50	1.000
1.000		78.51	0.000	0.000	5AL_158_160_L_0						
109 D	3.964	-4.8847E-05	145.6	65.28	145.6	86.38	UL-RL	4.3213E+05	-5.400	14.00	1.000
1.000		79.28	0.000	0.000	5AL_158_160_L_0						
110 D	4.002	-4.8847E-05	146.1	65.54	146.1	86.65	UL-RL	4.3213E+05	-5.450	14.50	1.000
1.000		80.04	0.000	0.000	5AL_158_160_L_0						
111 D	4.041	-4.8846E-05	146.5	65.81	146.5	86.92	UL-RL	4.3213E+05	-5.500	15.00	1.000
1.000		80.81	0.000	0.000	5AL_158_160_L_0						
112 D	4.079	-4.8846E-05	147.0	66.08	147.0	87.19	UL-RL	4.3213E+05	-5.550	15.50	1.000
1.000		81.58	0.000	0.000	5AL_158_160_L_0						
113 D	4.117	-4.8845E-05	147.4	66.35	147.4	87.45	UL-RL	4.3213E+05	-5.600	16.00	1.000
1.000		82.35	0.000	0.000	5AL_158_160_L_0						
114 D	4.156	-4.8845E-05	147.9	66.61	147.9	87.72	UL-RL	4.3213E+05	-5.650	16.50	1.000
1.000		83.11	0.000	0.000	5AL_158_160_L_0						
115 D	4.194	-4.8844E-05	148.3	66.88	148.3	87.99	UL-RL	4.3213E+05	-5.700	17.00	1.000
1.000		83.88	0.000	0.000	5AL_158_160_L_0						
116 D	4.232	-4.8844E-05	148.8	67.15	148.8	88.25	UL-RL	4.3213E+05	-5.750	17.50	1.000
1.000		84.65	0.000	0.000	5AL_158_160_L_0						
117 D	4.271	-4.8843E-05	149.2	67.41	149.2	88.52	UL-RL	4.3213E+05	-5.800	18.00	1.000
1.000		85.41	0.000	0.000	5AL_158_160_L_0						
118 D	4.309	-4.8843E-05	149.7	67.68	149.7	88.79	UL-RL	4.3213E+05	-5.850	18.50	1.000
1.000		86.18	0.000	0.000	5AL_158_160_L_0						
119 D	4.347	-4.8842E-05	150.1	67.95	150.1	89.05	UL-RL	4.3213E+05	-5.900	19.00	1.000
1.000		86.95	0.000	0.000	5AL_158_160_L_0						
120 D	4.386	-4.8842E-05	150.6	68.22	150.6	89.32	UL-RL	4.3213E+05	-5.950	19.50	1.000
1.000		87.72	0.000	0.000	5AL_158_160_L_0						
121 D	4.424	-4.8841E-05	151.0	68.48	151.0	89.59	UL-RL	4.3213E+05	-6.000	20.00	1.000
1.000		88.48	0.000	0.000	5AL_158_160_L_0						
122 D	4.462	-4.8841E-05	151.5	68.75	151.5	89.86	UL-RL	4.3213E+05	-6.050	20.50	1.000
1.000		89.25	0.000	0.000	5AL_158_160_L_0						
123 D	4.501	-4.8841E-05	151.9	69.02	151.9	90.12	UL-RL	4.3213E+05	-6.100	21.00	1.000
1.000		90.02	0.000	0.000	5AL_158_160_L_0						
124 D	4.539	-4.8840E-05	152.4	69.28	152.4	90.39	UL-RL	4.3213E+05	-6.150	21.50	1.000
1.000		90.78	0.000	0.000	5AL_158_160_L_0						
125 D	4.578	-4.8840E-05	152.8	69.55	152.8	90.66	UL-RL	4.3213E+05	-6.200	22.00	1.000
1.000		91.55	0.000	0.000	5AL_158_160_L_0						
126 D	4.616	-4.8840E-05	153.3	69.82	153.3	90.92	UL-RL	4.3213E+05	-6.250	22.50	1.000
1.000		92.32	0.000	0.000	5AL_158_160_L_0						
127 D	4.654	-4.8839E-05	153.7	70.09	153.7	91.19	UL-RL	4.3213E+05	-6.300	23.00	1.000
1.000		93.09	0.000	0.000	5AL_158_160_L_0						
128 D	4.693	-4.8839E-05	154.2	70.35	154.2	91.46	UL-RL	4.3213E+05	-6.350	23.50	1.000
1.000		93.85	0.000	0.000	5AL_158_160_L_0						
129 D	4.731	-4.8839E-05	154.6	70.62	154.6	91.72	UL-RL	4.3213E+05	-6.400	24.00	1.000
1.000		94.62	0.000	0.000	5AL_158_160_L_0						
130 D	4.769	-4.8838E-05	155.1	70.89	155.1	91.99	UL-RL	4.3213E+05	-6.450	24.50	1.000
1.000		95.39	0.000	0.000	5AL_158_160_L_0						
131 D	4.808	-4.8838E-05	155.5	71.15	155.5	92.26	UL-RL	4.3213E+05	-6.500	25.00	1.000
1.000		96.15	0.000	0.000	5AL_158_160_L_0						
132 D	4.846	-4.8838E-05	156.0	71.42	156.0	92.53	UL-RL	4.3213E+05	-6.550	25.50	1.000
1.000		96.92	0.000	0.000	5AL_158_160_L_0						
133 D	4.884	-4.8838E-05	156.4	71.69	156.4	92.79	UL-RL	4.3213E+05	-6.600	26.00	1.000
1.000		97.69	0.000	0.000	5AL_158_160_L_0						
134 D	4.923	-4.8838E-05	156.9	71.96	156.9	93.06	UL-RL	4.3213E+05	-6.650	26.50	1.000
1.000		98.46	0.000	0.000	5AL_158_160_L_0						
135 D	4.961	-4.8837E-05	157.3	72.22	157.3	93.33	UL-RL	4.3213E+05	-6.700	27.00	1.000
1.000		99.22	0.000	0.000	5AL_158_160_L_0						
136 D	4.999	-4.8837E-05	157.8	72.49	157.8	93.59	UL-RL	4.3213E+05	-6.750	27.50	1.000
1.000		99.99	0.000	0.000	5AL_158_160_L_0						
137 D	5.038	-4.8837E-05	158.2	72.76	158.2	93.86	UL-RL	4.3213E+05	-6.800	28.00	1.000
1.000		100.8	0.000	0.000	5AL_158_160_L_0						
138 D	5.076	-4.8837E-05	158.7	73.02	158.7	94.13	UL-RL	4.3213E+05	-6.850	28.50	1.000
1.000		101.5	0.000	0.000	5AL_158_160_L_0						
139 D	5.115	-4.8837E-05	159.1	73.29	159.1	94.39	UL-RL	4.3213E+05	-6.900	29.00	1.000
1.000		102.3	0.000	0.000	5AL_158_160_L_0						
140 D	5.153	-4.8837E-05	159.6	73.56	159.6	94.66	UL-RL	4.3213E+05	-6.950	29.50	1.000
1.000		103.1	0.000	0.000	5AL_158_160_L_0						
141 D	5.191	-4.8837E-05	160.0	73.82	160.0	94.93	UL-RL	4.3213E+05	-7.000	30.00	1.000
1.000		103.8	0.000	0.000	5AL_158_160_L_0						
142 D	5.230	-4.8837E-05	160.5	74.09	160.5	95.20	UL-RL	4.3213E+05	-7.050	30.50	1.000
1.000		104.6	0.000	0.000	5AL_158_160_L_0						
143 D	5.268	-4.8837E-05	160.9	74.36	160.9	95.46	UL-RL	4.3213E+05	-7.100	31.00	1.000
1.000		105.4	0.000	0.000	5AL_158_160_L_0						

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	244 di 401

144 D	5.306	-4.8837E-05	161.4	74.63	161.4	95.73	UL-RL	4.3213E+05	-7.150	31.50	1.000
1.000	106.1	0.000	0.000	SAL_158_160_L_0							
145 D	5.345	-4.8837E-05	161.8	74.89	161.8	96.00	UL-RL	4.3213E+05	-7.200	32.00	1.000
1.000	106.9	0.000	0.000	SAL_158_160_L_0							
146 D	5.383	-4.8837E-05	162.3	75.16	162.3	96.26	UL-RL	4.3213E+05	-7.250	32.50	1.000
1.000	107.7	0.000	0.000	SAL_158_160_L_0							
147 D	5.421	-4.8837E-05	162.7	75.43	162.7	96.53	UL-RL	4.3213E+05	-7.300	33.00	1.000
1.000	108.4	0.000	0.000	SAL_158_160_L_0							
148 D	5.460	-4.8837E-05	163.2	75.69	163.2	96.80	UL-RL	4.3213E+05	-7.350	33.50	1.000
1.000	109.2	0.000	0.000	SAL_158_160_L_0							
149 D	5.498	-4.8837E-05	163.6	75.96	163.6	97.06	UL-RL	4.3213E+05	-7.400	34.00	1.000
1.000	110.0	0.000	0.000	SAL_158_160_L_0							
150 D	5.536	-4.8837E-05	164.1	76.23	164.1	97.33	UL-RL	4.3213E+05	-7.450	34.50	1.000
1.000	110.7	0.000	0.000	SAL_158_160_L_0							
151 D	5.575	-4.8837E-05	164.5	76.49	164.5	97.60	UL-RL	4.3213E+05	-7.500	35.00	1.000
1.000	111.5	0.000	0.000	SAL_158_160_L_0							
152 D	5.613	-4.8837E-05	165.0	76.76	165.0	97.86	UL-RL	4.3213E+05	-7.550	35.50	1.000
1.000	112.3	0.000	0.000	SAL_158_160_L_0							
153 D	5.651	-4.8837E-05	165.4	77.03	165.4	98.13	UL-RL	4.3213E+05	-7.600	36.00	1.000
1.000	113.0	0.000	0.000	SAL_158_160_L_0							
154 D	5.690	-4.8837E-05	165.9	77.30	165.9	98.40	UL-RL	4.3213E+05	-7.650	36.50	1.000
1.000	113.8	0.000	0.000	SAL_158_160_L_0							
155 D	5.728	-4.8837E-05	166.3	77.56	166.3	98.67	UL-RL	4.3213E+05	-7.700	37.00	1.000
1.000	114.6	0.000	0.000	SAL_158_160_L_0							
156 D	5.766	-4.8837E-05	166.8	77.83	166.8	98.93	UL-RL	4.3213E+05	-7.750	37.50	1.000
1.000	115.3	0.000	0.000	SAL_158_160_L_0							
157 D	5.805	-4.8837E-05	167.2	78.10	167.2	99.20	UL-RL	4.3213E+05	-7.800	38.00	1.000
1.000	116.1	0.000	0.000	SAL_158_160_L_0							
158 D	5.843	-4.8837E-05	167.7	78.36	167.7	99.47	UL-RL	4.3213E+05	-7.850	38.50	1.000
1.000	116.9	0.000	0.000	SAL_158_160_L_0							
159 D	5.882	-4.8837E-05	168.1	78.63	168.1	99.73	UL-RL	4.3213E+05	-7.900	39.00	1.000
1.000	117.6	0.000	0.000	SAL_158_160_L_0							
160 D	5.920	-4.8837E-05	168.6	78.90	168.6	100.0	UL-RL	4.3213E+05	-7.950	39.50	1.000
1.000	118.4	0.000	0.000	SAL_158_160_L_0							
161 D	5.958	-4.8837E-05	169.0	79.16	169.0	100.3	UL-RL	4.3213E+05	-8.000	40.00	1.000
1.000	119.2	0.000	0.000	SAL_158_160_L_0							
162 D	5.997	-4.8837E-05	169.5	79.43	169.5	100.5	UL-RL	4.3213E+05	-8.050	40.50	1.000
1.000	119.9	0.000	0.000	SAL_158_160_L_0							
163 D	6.035	-4.8837E-05	169.9	79.70	169.9	100.8	UL-RL	4.3213E+05	-8.100	41.00	1.000
1.000	120.7	0.000	0.000	SAL_158_160_L_0							
164 D	6.073	-4.8837E-05	170.4	79.96	170.4	101.1	UL-RL	4.3213E+05	-8.150	41.50	1.000
1.000	121.5	0.000	0.000	SAL_158_160_L_0							
165 D	6.112	-4.8837E-05	170.8	80.23	170.8	101.3	UL-RL	4.3213E+05	-8.200	42.00	1.000
1.000	122.2	0.000	0.000	SAL_158_160_L_0							
166 D	6.150	-4.8837E-05	171.3	80.50	171.3	101.6	UL-RL	4.3213E+05	-8.250	42.50	1.000
1.000	123.0	0.000	0.000	SAL_158_160_L_0							
167 D	6.188	-4.8837E-05	171.7	80.77	171.7	101.9	UL-RL	4.3213E+05	-8.300	43.00	1.000
1.000	123.8	0.000	0.000	SAL_158_160_L_0							
168 D	6.227	-4.8837E-05	172.2	81.03	172.2	102.1	UL-RL	4.3213E+05	-8.350	43.50	1.000
1.000	124.5	0.000	0.000	SAL_158_160_L_0							
169 D	6.265	-4.8837E-05	172.6	81.30	172.6	102.4	UL-RL	4.3213E+05	-8.400	44.00	1.000
1.000	125.3	0.000	0.000	SAL_158_160_L_0							
170 D	6.303	-4.8837E-05	173.1	81.57	173.1	102.7	UL-RL	4.3213E+05	-8.450	44.50	1.000
1.000	126.1	0.000	0.000	SAL_158_160_L_0							
171 D	6.342	-4.8837E-05	173.5	81.83	173.5	102.9	UL-RL	4.3213E+05	-8.500	45.00	1.000
1.000	126.8	0.000	0.000	SAL_158_160_L_0							
172 D	6.380	-4.8837E-05	174.0	82.10	174.0	103.2	UL-RL	4.3213E+05	-8.550	45.50	1.000
1.000	127.6	0.000	0.000	SAL_158_160_L_0							
173 D	6.418	-4.8837E-05	174.4	82.37	174.4	103.5	UL-RL	4.3213E+05	-8.600	46.00	1.000
1.000	128.4	0.000	0.000	SAL_158_160_L_0							
174 D	6.457	-4.8837E-05	174.9	82.63	174.9	103.7	UL-RL	4.3213E+05	-8.650	46.50	1.000
1.000	129.1	0.000	0.000	SAL_158_160_L_0							
175 D	6.495	-4.8837E-05	175.3	82.90	175.3	104.0	UL-RL	4.3213E+05	-8.700	47.00	1.000
1.000	129.9	0.000	0.000	SAL_158_160_L_0							
176 D	6.533	-4.8837E-05	175.8	83.17	175.8	104.3	UL-RL	4.3213E+05	-8.750	47.50	1.000
1.000	130.7	0.000	0.000	SAL_158_160_L_0							
177 D	6.572	-4.8837E-05	176.2	83.44	176.2	104.5	UL-RL	4.3213E+05	-8.800	48.00	1.000
1.000	131.4	0.000	0.000	SAL_158_160_L_0							
178 D	6.610	-4.8837E-05	176.7	83.70	176.7	104.8	UL-RL	4.3213E+05	-8.850	48.50	1.000
1.000	132.2	0.000	0.000	SAL_158_160_L_0							
179 D	6.648	-4.8837E-05	177.1	83.97	177.1	105.1	UL-RL	4.3213E+05	-8.900	49.00	1.000
1.000	133.0	0.000	0.000	SAL_158_160_L_0							
180 D	6.687	-4.8837E-05	177.6	84.24	177.6	105.3	UL-RL	4.3213E+05	-8.950	49.50	1.000
1.000	133.7	0.000	0.000	SAL_158_160_L_0							
181 D	6.725	-4.8837E-05	178.0	84.50	178.0	105.6	UL-RL	4.3213E+05	-9.000	50.00	1.000
1.000	134.5	0.000	0.000	SAL_158_160_L_0							
182 D	6.764	-4.8837E-05	178.5	84.77	178.5	105.9	UL-RL	4.3213E+05	-9.050	50.50	1.000
1.000	135.3	0.000	0.000	SAL_158_160_L_0							
183 D	6.802	-4.8837E-05	178.9	85.04	178.9	106.1	UL-RL	4.3213E+05	-9.100	51.00	1.000
1.000	136.0	0.000	0.000	SAL_158_160_L_0							
184 D	6.840	-4.8837E-05	179.4	85.30	179.4	106.4	UL-RL	4.3213E+05	-9.150	51.50	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI RELAZIONE DI CALCOLO	COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
	LI00	01	D 09CL	VI0100 004	A	245 di 401

1.000	136.8	0.000	0.000	5AL_158_160_L_0							
185 D	6.879	-4.8837E-05	179.8	85.57	179.8	106.7	UL-RL	4.3213E+05	-9.200	52.00	1.000
1.000	137.6	0.000	0.000	5AL_158_160_L_0							
186 D	6.917	-4.8837E-05	180.3	85.84	180.3	106.9	UL-RL	4.3213E+05	-9.250	52.50	1.000
1.000	138.3	0.000	0.000	5AL_158_160_L_0							
187 D	6.955	-4.8837E-05	180.7	86.11	180.7	107.2	UL-RL	4.3213E+05	-9.300	53.00	1.000
1.000	139.1	0.000	0.000	5AL_158_160_L_0							
188 D	6.994	-4.8837E-05	181.2	86.37	181.2	107.5	UL-RL	4.3213E+05	-9.350	53.50	1.000
1.000	139.9	0.000	0.000	5AL_158_160_L_0							
189 D	7.032	-4.8837E-05	181.6	86.64	181.6	107.7	UL-RL	4.3213E+05	-9.400	54.00	1.000
1.000	140.6	0.000	0.000	5AL_158_160_L_0							
190 D	7.070	-4.8837E-05	182.1	86.91	182.1	108.0	UL-RL	4.3213E+05	-9.450	54.50	1.000
1.000	141.4	0.000	0.000	5AL_158_160_L_0							
191 D	7.109	-4.8837E-05	182.5	87.17	182.5	108.3	UL-RL	4.3213E+05	-9.500	55.00	1.000
1.000	142.2	0.000	0.000	5AL_158_160_L_0							
192 D	7.147	-4.8837E-05	183.0	87.44	183.0	108.5	UL-RL	4.3213E+05	-9.550	55.50	1.000
1.000	142.9	0.000	0.000	5AL_158_160_L_0							
193 D	7.185	-4.8837E-05	183.4	87.71	183.4	108.8	UL-RL	4.3213E+05	-9.600	56.00	1.000
1.000	143.7	0.000	0.000	5AL_158_160_L_0							
194 D	7.224	-4.8837E-05	183.9	87.97	183.9	109.1	UL-RL	4.3213E+05	-9.650	56.50	1.000
1.000	144.5	0.000	0.000	5AL_158_160_L_0							
195 D	7.262	-4.8837E-05	184.3	88.24	184.3	109.3	UL-RL	4.3213E+05	-9.700	57.00	1.000
1.000	145.2	0.000	0.000	5AL_158_160_L_0							
196 D	7.300	-4.8837E-05	184.8	88.51	184.8	109.6	UL-RL	4.3213E+05	-9.750	57.50	1.000
1.000	146.0	0.000	0.000	5AL_158_160_L_0							
197 D	7.339	-4.8837E-05	185.2	88.78	185.2	109.9	UL-RL	4.3213E+05	-9.800	58.00	1.000
1.000	146.8	0.000	0.000	5AL_158_160_L_0							
198 D	7.377	-4.8837E-05	185.7	89.04	185.7	110.1	UL-RL	4.3213E+05	-9.850	58.50	1.000
1.000	147.5	0.000	0.000	5AL_158_160_L_0							
199 D	7.415	-4.8837E-05	186.1	89.31	186.1	110.4	UL-RL	4.3213E+05	-9.900	59.00	1.000
1.000	148.3	0.000	0.000	5AL_158_160_L_0							
200 D	7.452	-4.8837E-05	186.6	89.58	186.6	110.7	UL-RL	4.3213E+05	-9.950	59.50	1.000
1.000	149.1	0.000	0.000	5AL_158_160_L_0							
201 D	3.745	-4.8837E-05	187.0	89.84	187.0	110.9	UL-RL	4.3213E+05	-10.00	60.00	1.000
1.000	149.8	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A2M2R1_956
Exe Time :21 June 2016 11:57:46

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

Q_R
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS 2-LEVEL	PORE	E FACTOR
1 D	0.4023	6.1819E-05	0.000	16.09	0.000	16.10	UL-RL	4.1655E+05	0.000	1.000
1.000	16.09	0.000	0.000	5AL_158_160_L_0						
2 D	0.8279	6.1445E-05	0.9500	16.56	0.9500	16.56	UL-RL	4.1655E+05	-5.0000E-02	1.000
1.000	16.56	0.000	0.000	5AL_158_160_L_0						
3 D	0.8512	6.1070E-05	1.900	17.02	1.900	17.03	UL-RL	4.1655E+05	-0.1000	1.000
1.000	17.02	0.000	0.000	5AL_158_160_L_0						
4 D	0.8746	6.0696E-05	2.850	17.49	2.850	17.49	UL-RL	4.1655E+05	-0.1500	1.000
1.000	17.49	0.000	0.000	5AL_158_160_L_0						
5 D	0.8979	6.0322E-05	3.800	17.96	3.800	17.96	UL-RL	4.1655E+05	-0.2000	1.000
1.000	17.96	0.000	0.000	5AL_158_160_L_0						
6 D	0.9213	5.9949E-05	4.750	18.43	4.750	18.43	V-C	2.6034E+05	-0.2500	1.000
1.000	18.43	0.000	0.000	5AL_158_160_L_0						
7 D	0.9446	5.9575E-05	5.700	18.89	5.700	18.89	V-C	2.6034E+05	-0.3000	1.000
1.000	18.89	0.000	0.000	5AL_158_160_L_0						
8 D	0.9679	5.9203E-05	6.650	19.36	6.650	19.36	V-C	2.6034E+05	-0.3500	1.000
1.000	19.36	0.000	0.000	5AL_158_160_L_0						
9 D	0.9913	5.8831E-05	7.600	19.83	7.600	19.83	V-C	2.6034E+05	-0.4000	1.000
1.000	19.83	0.000	0.000	5AL_158_160_L_0						
10 D	1.015	5.8460E-05	8.550	20.29	8.550	20.29	V-C	2.6034E+05	-0.4500	1.000
1.000	20.29	0.000	0.000	5AL_158_160_L_0						

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	246 di 401

11 D	1.038	5.8091E-05	9.500	20.76	9.500	20.76	V-C	2.6034E+05	-0.5000	0.000	1.000
1.000	20.76	0.000	0.000	5AL_158_160_L_0							
12 D	1.061	5.7723E-05	10.45	21.23	10.45	21.23	V-C	2.6034E+05	-0.5500	0.000	1.000
1.000	21.23	0.000	0.000	5AL_158_160_L_0							
13 D	1.085	5.7358E-05	11.40	21.70	11.40	21.70	V-C	2.6034E+05	-0.6000	0.000	1.000
1.000	21.70	0.000	0.000	5AL_158_160_L_0							
14 D	1.108	5.6994E-05	12.35	22.17	12.35	22.17	V-C	2.6034E+05	-0.6500	0.000	1.000
1.000	22.17	0.000	0.000	5AL_158_160_L_0							
15 D	1.132	5.6634E-05	13.30	22.63	13.30	22.63	V-C	2.6034E+05	-0.7000	0.000	1.000
1.000	22.63	0.000	0.000	5AL_158_160_L_0							
16 D	1.155	5.6276E-05	14.25	23.11	14.25	23.11	V-C	2.6034E+05	-0.7500	0.000	1.000
1.000	23.11	0.000	0.000	5AL_158_160_L_0							
17 D	1.179	5.5922E-05	15.20	23.58	15.20	23.58	V-C	2.6034E+05	-0.8000	0.000	1.000
1.000	23.58	0.000	0.000	5AL_158_160_L_0							
18 D	1.202	5.5572E-05	16.15	24.05	16.15	24.05	V-C	2.6034E+05	-0.8500	0.000	1.000
1.000	24.05	0.000	0.000	5AL_158_160_L_0							
19 D	1.226	5.5226E-05	17.10	24.52	17.10	24.52	V-C	2.6034E+05	-0.9000	0.000	1.000
1.000	24.52	0.000	0.000	5AL_158_160_L_0							
20 D	1.250	5.4885E-05	18.05	25.00	18.05	25.00	V-C	2.6034E+05	-0.9500	0.000	1.000
1.000	25.00	0.000	0.000	5AL_158_160_L_0							
21 D	1.274	5.4550E-05	19.00	25.47	19.00	25.47	V-C	2.6034E+05	-1.000	0.000	1.000
1.000	25.47	0.000	0.000	5AL_158_160_L_0							
22 D	1.298	5.4220E-05	19.95	25.95	19.95	25.95	V-C	2.6034E+05	-1.050	0.000	1.000
1.000	25.95	0.000	0.000	5AL_158_160_L_0							
23 D	1.322	5.3896E-05	20.90	26.43	20.90	26.43	V-C	2.6034E+05	-1.100	0.000	1.000
1.000	26.43	0.000	0.000	5AL_158_160_L_0							
24 D	1.346	5.3579E-05	21.85	26.91	21.85	26.91	V-C	2.6034E+05	-1.150	0.000	1.000
1.000	26.91	0.000	0.000	5AL_158_160_L_0							
25 D	1.370	5.3270E-05	22.80	27.40	22.80	27.40	V-C	2.6034E+05	-1.200	0.000	1.000
1.000	27.40	0.000	0.000	5AL_158_160_L_0							
26 D	1.394	5.2968E-05	23.75	27.88	23.75	27.88	V-C	2.6034E+05	-1.250	0.000	1.000
1.000	27.88	0.000	0.000	5AL_158_160_L_0							
27 D	1.418	5.2674E-05	24.70	28.37	24.70	28.37	V-C	2.6034E+05	-1.300	0.000	1.000
1.000	28.37	0.000	0.000	5AL_158_160_L_0							
28 D	1.443	5.2389E-05	25.65	28.86	25.65	28.86	V-C	2.6034E+05	-1.350	0.000	1.000
1.000	28.86	0.000	0.000	5AL_158_160_L_0							
29 D	1.467	5.2113E-05	26.60	29.35	26.60	29.35	V-C	2.6034E+05	-1.400	0.000	1.000
1.000	29.35	0.000	0.000	5AL_158_160_L_0							
30 D	1.492	5.1847E-05	27.55	29.84	27.55	29.84	V-C	2.6034E+05	-1.450	0.000	1.000
1.000	29.84	0.000	0.000	5AL_158_160_L_0							
31 D	1.517	5.1590E-05	28.50	30.34	28.50	30.34	V-C	2.6034E+05	-1.500	0.000	1.000
1.000	30.34	0.000	0.000	5AL_158_160_L_0							
32 D	1.542	5.1344E-05	29.45	30.84	29.45	30.84	V-C	2.6034E+05	-1.550	0.000	1.000
1.000	30.84	0.000	0.000	5AL_158_160_L_0							
33 D	1.567	5.1109E-05	30.40	31.34	30.40	31.34	V-C	2.6034E+05	-1.600	0.000	1.000
1.000	31.34	0.000	0.000	5AL_158_160_L_0							
34 D	1.592	5.0885E-05	31.35	31.85	31.35	31.85	V-C	2.6034E+05	-1.650	0.000	1.000
1.000	31.85	0.000	0.000	5AL_158_160_L_0							
35 D	1.618	5.0672E-05	32.30	32.36	32.30	32.36	V-C	2.6034E+05	-1.700	0.000	1.000
1.000	32.36	0.000	0.000	5AL_158_160_L_0							
36 D	1.643	5.0471E-05	33.25	32.87	33.25	32.87	V-C	2.6034E+05	-1.750	0.000	1.000
1.000	32.87	0.000	0.000	5AL_158_160_L_0							
37 D	1.669	5.0281E-05	34.20	33.38	34.20	33.38	V-C	2.6034E+05	-1.800	0.000	1.000
1.000	33.38	0.000	0.000	5AL_158_160_L_0							
38 D	1.695	5.0103E-05	35.15	33.90	35.15	33.90	V-C	2.6034E+05	-1.850	0.000	1.000
1.000	33.90	0.000	0.000	5AL_158_160_L_0							
39 D	1.721	4.9938E-05	36.10	34.42	36.10	34.42	V-C	2.6034E+05	-1.900	0.000	1.000
1.000	34.42	0.000	0.000	5AL_158_160_L_0							
40 D	1.747	4.9784E-05	37.05	34.94	37.05	34.94	V-C	2.6034E+05	-1.950	0.000	1.000
1.000	34.94	0.000	0.000	5AL_158_160_L_0							
41 D	1.773	4.9641E-05	38.00	35.47	38.00	35.47	V-C	2.6034E+05	-2.000	0.000	1.000
1.000	35.47	0.000	0.000	5AL_158_160_L_0							
42 D	1.800	4.9510E-05	38.95	36.00	38.95	36.00	V-C	2.6034E+05	-2.050	0.000	1.000
1.000	36.00	0.000	0.000	5AL_158_160_L_0							
43 D	1.827	4.9391E-05	39.90	36.53	39.90	36.53	V-C	2.6034E+05	-2.100	0.000	1.000
1.000	36.53	0.000	0.000	5AL_158_160_L_0							
44 D	1.853	4.9282E-05	40.85	37.07	40.85	37.07	V-C	2.6034E+05	-2.150	0.000	1.000
1.000	37.07	0.000	0.000	5AL_158_160_L_0							
45 D	1.880	4.9184E-05	41.80	37.60	41.80	37.60	V-C	2.6034E+05	-2.200	0.000	1.000
1.000	37.60	0.000	0.000	5AL_158_160_L_0							
46 D	1.907	4.9095E-05	42.75	38.15	42.75	38.15	V-C	2.6034E+05	-2.250	0.000	1.000
1.000	38.15	0.000	0.000	5AL_158_160_L_0							
47 D	1.934	4.9016E-05	43.70	38.69	43.70	38.69	V-C	2.6034E+05	-2.300	0.000	1.000
1.000	38.69	0.000	0.000	5AL_158_160_L_0							
48 D	1.962	4.8946E-05	44.65	39.23	44.65	39.23	V-C	2.6034E+05	-2.350	0.000	1.000
1.000	39.23	0.000	0.000	5AL_158_160_L_0							
49 D	1.989	4.8885E-05	45.60	39.78	45.60	39.78	V-C	2.6034E+05	-2.400	0.000	1.000
1.000	39.78	0.000	0.000	5AL_158_160_L_0							
50 D	2.016	4.8831E-05	46.55	40.33	46.55	40.33	UL-RL	4.1655E+05	-2.450	0.000	1.000
1.000	40.33	0.000	0.000	5AL_158_160_L_0							
51 D	2.044	4.8785E-05	47.50	40.87	47.50	40.90	UL-RL	4.1655E+05	-2.500	0.000	1.000

OPERE PROVVISORIALI					COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
RELAZIONE DI CALCOLO					LI00	01	D 09CL	VI0100 004	A	247 di 401
1.000	40.87	0.000	0.000	5AL_158_160_L_0						
52 D	2.071	4.8746E-05	48.45	41.42 48.45	41.46	UL-RL	4.1655E+05	-2.550	0.000	1.000
1.000	41.42	0.000	0.000	5AL_158_160_L_0						
53 D	2.099	4.8712E-05	49.40	41.97 49.40	42.02	UL-RL	4.1655E+05	-2.600	0.000	1.000
1.000	41.97	0.000	0.000	5AL_158_160_L_0						
54 D	2.126	4.8685E-05	50.35	42.52 50.35	42.59	UL-RL	4.1655E+05	-2.650	0.000	1.000
1.000	42.52	0.000	0.000	5AL_158_160_L_0						
55 D	2.154	4.8663E-05	51.30	43.08 51.30	43.15	UL-RL	4.1655E+05	-2.700	0.000	1.000
1.000	43.08	0.000	0.000	5AL_158_160_L_0						
56 D	2.182	4.8646E-05	52.25	43.63 52.25	43.71	UL-RL	4.1655E+05	-2.750	0.000	1.000
1.000	43.63	0.000	0.000	5AL_158_160_L_0						
57 D	2.210	4.8632E-05	53.20	44.19 53.20	44.28	UL-RL	4.1655E+05	-2.800	0.000	1.000
1.000	44.19	0.000	0.000	5AL_158_160_L_0						
58 D	2.238	4.8623E-05	54.15	44.75 54.15	44.84	UL-RL	4.1655E+05	-2.850	0.000	1.000
1.000	44.75	0.000	0.000	5AL_158_160_L_0						
59 D	2.266	4.8617E-05	55.10	45.31 55.10	45.41	UL-RL	4.1655E+05	-2.900	0.000	1.000
1.000	45.31	0.000	0.000	5AL_158_160_L_0						
60 D	2.294	4.8614E-05	56.05	45.88 56.05	45.97	UL-RL	4.1655E+05	-2.950	0.000	1.000
1.000	45.88	0.000	0.000	5AL_158_160_L_0						
61 D	2.322	4.8614E-05	57.00	46.44 57.00	46.53	UL-RL	4.1655E+05	-3.000	0.000	1.000
1.000	46.44	0.000	0.000	5AL_158_160_L_0						
62 D	2.350	4.8616E-05	57.95	47.00 57.95	47.10	UL-RL	4.1655E+05	-3.050	0.000	1.000
1.000	47.00	0.000	0.000	5AL_158_160_L_0						
63 D	2.378	4.8620E-05	58.90	47.57 58.90	47.66	UL-RL	4.1655E+05	-3.100	0.000	1.000
1.000	47.57	0.000	0.000	5AL_158_160_L_0						
64 D	2.407	4.8626E-05	59.85	48.14 59.85	48.22	UL-RL	4.1655E+05	-3.150	0.000	1.000
1.000	48.14	0.000	0.000	5AL_158_160_L_0						
65 D	2.435	4.8632E-05	60.80	48.70 60.80	48.79	UL-RL	4.1655E+05	-3.200	0.000	1.000
1.000	48.70	0.000	0.000	5AL_158_160_L_0						
66 D	2.463	4.8640E-05	61.75	49.27 61.75	49.35	UL-RL	4.1655E+05	-3.250	0.000	1.000
1.000	49.27	0.000	0.000	5AL_158_160_L_0						
67 D	2.492	4.8649E-05	62.70	49.84 62.70	49.91	UL-RL	4.1655E+05	-3.300	0.000	1.000
1.000	49.84	0.000	0.000	5AL_158_160_L_0						
68 D	2.520	4.8659E-05	63.65	50.40 63.65	50.48	UL-RL	4.1655E+05	-3.350	0.000	1.000
1.000	50.40	0.000	0.000	5AL_158_160_L_0						
69 D	2.549	4.8669E-05	64.60	50.97 64.60	51.04	UL-RL	4.1655E+05	-3.400	0.000	1.000
1.000	50.97	0.000	0.000	5AL_158_160_L_0						
70 D	2.577	4.8679E-05	65.55	51.54 65.55	51.61	UL-RL	4.1655E+05	-3.450	0.000	1.000
1.000	51.54	0.000	0.000	5AL_158_160_L_0						
71 D	2.605	4.8690E-05	66.50	52.11 66.50	52.17	UL-RL	4.1655E+05	-3.500	0.000	1.000
1.000	52.11	0.000	0.000	5AL_158_160_L_0						
72 D	2.634	4.8700E-05	67.45	52.68 67.45	52.73	UL-RL	4.1655E+05	-3.550	0.000	1.000
1.000	52.68	0.000	0.000	5AL_158_160_L_0						
73 D	2.662	4.8711E-05	68.40	53.24 68.40	53.30	UL-RL	4.1655E+05	-3.600	0.000	1.000
1.000	53.24	0.000	0.000	5AL_158_160_L_0						
74 D	2.691	4.8721E-05	69.35	53.81 69.35	53.86	UL-RL	4.1655E+05	-3.650	0.000	1.000
1.000	53.81	0.000	0.000	5AL_158_160_L_0						
75 D	2.719	4.8731E-05	70.30	54.38 70.30	54.42	UL-RL	4.1655E+05	-3.700	0.000	1.000
1.000	54.38	0.000	0.000	5AL_158_160_L_0						
76 D	2.747	4.8741E-05	71.25	54.95 71.25	54.99	UL-RL	4.1655E+05	-3.750	0.000	1.000
1.000	54.95	0.000	0.000	5AL_158_160_L_0						
77 D	2.776	4.8750E-05	72.20	55.51 72.20	55.55	UL-RL	4.1655E+05	-3.800	0.000	1.000
1.000	55.51	0.000	0.000	5AL_158_160_L_0						
78 D	2.804	4.8759E-05	73.15	56.08 73.15	56.11	UL-RL	4.1655E+05	-3.850	0.000	1.000
1.000	56.08	0.000	0.000	5AL_158_160_L_0						
79 D	2.832	4.8768E-05	74.10	56.65 74.10	56.68	UL-RL	4.1655E+05	-3.900	0.000	1.000
1.000	56.65	0.000	0.000	5AL_158_160_L_0						
80 D	2.861	4.8776E-05	75.05	57.22 75.05	57.24	UL-RL	4.1655E+05	-3.950	0.000	1.000
1.000	57.22	0.000	0.000	5AL_158_160_L_0						
81 D	2.889	4.8784E-05	76.00	57.78 76.00	57.81	UL-RL	4.1655E+05	-4.000	0.000	1.000
1.000	57.78	0.000	0.000	5AL_158_160_L_0						
82 D	2.928	4.8791E-05	76.45	58.05 76.45	58.07	UL-RL	4.1655E+05	-4.050	0.5000	1.000
1.000	58.05	0.000	0.000	5AL_158_160_L_0						
83 D	2.966	4.8797E-05	76.90	58.32 76.90	58.34	UL-RL	4.1655E+05	-4.100	1.000	1.000
1.000	58.32	0.000	0.000	5AL_158_160_L_0						
84 D	3.005	4.8803E-05	77.35	58.59 77.35	58.61	UL-RL	4.1655E+05	-4.150	1.500	1.000
1.000	58.59	0.000	0.000	5AL_158_160_L_0						
85 D	3.043	4.8809E-05	77.80	58.86 77.80	58.87	UL-RL	4.1655E+05	-4.200	2.000	1.000
1.000	58.86	0.000	0.000	5AL_158_160_L_0						
86 D	3.082	4.8814E-05	78.25	59.13 78.25	59.14	UL-RL	4.1655E+05	-4.250	2.500	1.000
1.000	59.13	0.000	0.000	5AL_158_160_L_0						
87 D	3.120	4.8819E-05	78.70	59.40 78.70	59.41	UL-RL	4.1655E+05	-4.300	3.000	1.000
1.000	59.40	0.000	0.000	5AL_158_160_L_0						
88 D	3.158	4.8823E-05	79.15	59.67 79.15	59.67	UL-RL	4.1655E+05	-4.350	3.500	1.000
1.000	59.67	0.000	0.000	5AL_158_160_L_0						
89 D	3.197	4.8827E-05	79.60	59.94 79.60	59.94	UL-RL	4.1655E+05	-4.400	4.000	1.000
1.000	59.94	0.000	0.000	5AL_158_160_L_0						
90 D	3.235	4.8830E-05	80.05	60.21 80.05	60.21	UL-RL	4.1655E+05	-4.450	4.500	1.000
1.000	60.21	0.000	0.000	5AL_158_160_L_0						
91 D	3.274	4.8833E-05	80.50	60.47 80.50	60.47	UL-RL	4.1655E+05	-4.500	5.000	1.000
1.000	60.47	0.000	0.000	5AL_158_160_L_0						

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	248 di 401

92 D	3.312	4.8836E-05	80.95	60.74	80.95	60.74	UL-RL	4.1655E+05	-4.550	5.500	1.000
1.000	66.24	0.000	0.000	5AL_158_160_L_0							
93 D	3.350	4.8838E-05	81.40	61.01	81.40	61.01	V-C	2.6034E+05	-4.600	6.000	1.000
1.000	67.01	0.000	0.000	5AL_158_160_L_0							
94 D	3.389	4.8840E-05	81.85	61.28	81.85	61.28	V-C	2.6034E+05	-4.650	6.500	1.000
1.000	67.78	0.000	0.000	5AL_158_160_L_0							
95 D	3.427	4.8842E-05	82.30	61.54	82.30	61.54	V-C	2.6034E+05	-4.700	7.000	1.000
1.000	68.54	0.000	0.000	5AL_158_160_L_0							
96 D	3.466	4.8844E-05	82.75	61.81	82.75	61.81	V-C	2.6034E+05	-4.750	7.500	1.000
1.000	69.31	0.000	0.000	5AL_158_160_L_0							
97 D	3.504	4.8845E-05	83.20	62.08	83.20	62.08	V-C	2.6034E+05	-4.800	8.000	1.000
1.000	70.08	0.000	0.000	5AL_158_160_L_0							
98 D	3.542	4.8846E-05	83.65	62.35	83.65	62.35	V-C	2.6034E+05	-4.850	8.500	1.000
1.000	70.85	0.000	0.000	5AL_158_160_L_0							
99 D	3.581	4.8847E-05	84.10	62.61	84.10	62.61	V-C	2.6034E+05	-4.900	9.000	1.000
1.000	71.61	0.000	0.000	5AL_158_160_L_0							
100 D	3.619	4.8847E-05	84.55	62.88	84.55	62.88	V-C	2.6034E+05	-4.950	9.500	1.000
1.000	72.38	0.000	0.000	5AL_158_160_L_0							
101 D	3.657	4.8848E-05	85.00	63.15	85.00	63.15	UL-RL	4.1655E+05	-5.000	10.00	1.000
1.000	73.15	0.000	0.000	5AL_158_160_L_0							
102 D	3.696	4.8848E-05	85.45	63.41	85.45	63.41	UL-RL	4.1655E+05	-5.050	10.50	1.000
1.000	73.91	0.000	0.000	5AL_158_160_L_0							
103 D	3.734	4.8848E-05	85.90	63.68	85.90	63.68	UL-RL	4.1655E+05	-5.100	11.00	1.000
1.000	74.68	0.000	0.000	5AL_158_160_L_0							
104 D	3.772	4.8848E-05	86.35	63.95	86.35	63.95	UL-RL	4.1655E+05	-5.150	11.50	1.000
1.000	75.45	0.000	0.000	5AL_158_160_L_0							
105 D	3.811	4.8848E-05	86.80	64.22	86.80	64.22	UL-RL	4.1655E+05	-5.200	12.00	1.000
1.000	76.22	0.000	0.000	5AL_158_160_L_0							
106 D	3.849	4.8848E-05	87.25	64.48	87.25	64.48	UL-RL	4.1655E+05	-5.250	12.50	1.000
1.000	76.98	0.000	0.000	5AL_158_160_L_0							
107 D	3.887	4.8848E-05	87.70	64.75	87.70	64.75	UL-RL	4.1655E+05	-5.300	13.00	1.000
1.000	77.75	0.000	0.000	5AL_158_160_L_0							
108 D	3.926	4.8847E-05	88.15	65.02	88.15	65.02	UL-RL	4.1655E+05	-5.350	13.50	1.000
1.000	78.52	0.000	0.000	5AL_158_160_L_0							
109 D	3.964	4.8847E-05	88.60	65.28	88.60	65.28	UL-RL	4.1655E+05	-5.400	14.00	1.000
1.000	79.28	0.000	0.000	5AL_158_160_L_0							
110 D	4.002	4.8847E-05	89.05	65.55	89.05	65.55	UL-RL	4.1655E+05	-5.450	14.50	1.000
1.000	80.05	0.000	0.000	5AL_158_160_L_0							
111 D	4.041	4.8846E-05	89.50	65.82	89.50	65.82	UL-RL	4.1655E+05	-5.500	15.00	1.000
1.000	80.82	0.000	0.000	5AL_158_160_L_0							
112 D	4.079	4.8846E-05	89.95	66.08	89.95	66.08	UL-RL	4.1655E+05	-5.550	15.50	1.000
1.000	81.58	0.000	0.000	5AL_158_160_L_0							
113 D	4.118	4.8845E-05	90.40	66.35	90.40	66.35	UL-RL	4.1655E+05	-5.600	16.00	1.000
1.000	82.35	0.000	0.000	5AL_158_160_L_0							
114 D	4.156	4.8845E-05	90.85	66.62	90.85	66.62	UL-RL	4.1655E+05	-5.650	16.50	1.000
1.000	83.12	0.000	0.000	5AL_158_160_L_0							
115 D	4.194	4.8844E-05	91.30	66.88	91.30	66.88	UL-RL	4.1655E+05	-5.700	17.00	1.000
1.000	83.88	0.000	0.000	5AL_158_160_L_0							
116 D	4.233	4.8844E-05	91.75	67.15	91.75	67.15	UL-RL	4.1655E+05	-5.750	17.50	1.000
1.000	84.65	0.000	0.000	5AL_158_160_L_0							
117 D	4.271	4.8843E-05	92.20	67.42	92.20	67.42	UL-RL	4.1655E+05	-5.800	18.00	1.000
1.000	85.42	0.000	0.000	5AL_158_160_L_0							
118 D	4.309	4.8843E-05	92.65	67.68	92.65	67.69	UL-RL	4.1655E+05	-5.850	18.50	1.000
1.000	86.18	0.000	0.000	5AL_158_160_L_0							
119 D	4.348	4.8842E-05	93.10	67.95	93.10	67.95	UL-RL	4.1655E+05	-5.900	19.00	1.000
1.000	86.95	0.000	0.000	5AL_158_160_L_0							
120 D	4.386	4.8842E-05	93.55	68.22	93.55	68.22	UL-RL	4.1655E+05	-5.950	19.50	1.000
1.000	87.72	0.000	0.000	5AL_158_160_L_0							
121 D	4.424	4.8841E-05	94.00	68.49	94.00	68.49	UL-RL	4.1655E+05	-6.000	20.00	1.000
1.000	88.49	0.000	0.000	5AL_158_160_L_0							
122 D	4.463	4.8841E-05	94.45	68.75	94.45	68.75	UL-RL	4.1655E+05	-6.050	20.50	1.000
1.000	89.25	0.000	0.000	5AL_158_160_L_0							
123 D	4.501	4.8841E-05	94.90	69.02	94.90	69.02	UL-RL	4.1655E+05	-6.100	21.00	1.000
1.000	90.02	0.000	0.000	5AL_158_160_L_0							
124 D	4.539	4.8840E-05	95.35	69.29	95.35	69.29	UL-RL	4.1655E+05	-6.150	21.50	1.000
1.000	90.79	0.000	0.000	5AL_158_160_L_0							
125 D	4.578	4.8840E-05	95.80	69.55	95.80	69.55	UL-RL	4.1655E+05	-6.200	22.00	1.000
1.000	91.55	0.000	0.000	5AL_158_160_L_0							
126 D	4.616	4.8840E-05	96.25	69.82	96.25	69.82	UL-RL	4.1655E+05	-6.250	22.50	1.000
1.000	92.32	0.000	0.000	5AL_158_160_L_0							
127 D	4.654	4.8839E-05	96.70	70.09	96.70	70.09	UL-RL	4.1655E+05	-6.300	23.00	1.000
1.000	93.09	0.000	0.000	5AL_158_160_L_0							
128 D	4.693	4.8839E-05	97.15	70.35	97.15	70.35	UL-RL	4.1655E+05	-6.350	23.50	1.000
1.000	93.85	0.000	0.000	5AL_158_160_L_0							
129 D	4.731	4.8839E-05	97.60	70.62	97.60	70.62	UL-RL	4.1655E+05	-6.400	24.00	1.000
1.000	94.62	0.000	0.000	5AL_158_160_L_0							
130 D	4.769	4.8838E-05	98.05	70.89	98.05	70.89	UL-RL	4.1655E+05	-6.450	24.50	1.000
1.000	95.39	0.000	0.000	5AL_158_160_L_0							
131 D	4.808	4.8838E-05	98.50	71.15	98.50	71.15	UL-RL	4.1655E+05	-6.500	25.00	1.000
1.000	96.15	0.000	0.000	5AL_158_160_L_0							
132 D	4.846	4.8838E-05	98.95	71.42	98.95	71.42	UL-RL	4.1655E+05	-6.550	25.50	1.000

OPERE PROVVISORIALI					COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO	
RELAZIONE DI CALCOLO					L100	01	D 09CL	VI0100 004	A	249 di 401	
1.000		96.92	0.000	0.000	5AL_158_160_L_0						
133 D	4.884	4.8838E-05	99.40	71.69	99.40	71.69	UL-RL	4.1655E+05	-6.600	26.00	1.000
1.000		97.69	0.000	0.000	5AL_158_160_L_0						
134 D	4.923	4.8838E-05	99.85	71.96	99.85	71.96	UL-RL	4.1655E+05	-6.650	26.50	1.000
1.000		98.46	0.000	0.000	5AL_158_160_L_0						
135 D	4.961	4.8837E-05	100.3	72.22	100.3	72.22	UL-RL	4.1655E+05	-6.700	27.00	1.000
1.000		99.22	0.000	0.000	5AL_158_160_L_0						
136 D	4.999	4.8837E-05	100.8	72.49	100.8	72.49	UL-RL	4.1655E+05	-6.750	27.50	1.000
1.000		99.99	0.000	0.000	5AL_158_160_L_0						
137 D	5.038	4.8837E-05	101.2	72.76	101.2	72.76	UL-RL	4.1655E+05	-6.800	28.00	1.000
1.000		100.8	0.000	0.000	5AL_158_160_L_0						
138 D	5.076	4.8837E-05	101.7	73.02	101.7	73.02	UL-RL	4.1655E+05	-6.850	28.50	1.000
1.000		101.5	0.000	0.000	5AL_158_160_L_0						
139 D	5.115	4.8837E-05	102.1	73.29	102.1	73.29	UL-RL	4.1655E+05	-6.900	29.00	1.000
1.000		102.3	0.000	0.000	5AL_158_160_L_0						
140 D	5.153	4.8837E-05	102.6	73.56	102.6	73.56	UL-RL	4.1655E+05	-6.950	29.50	1.000
1.000		103.1	0.000	0.000	5AL_158_160_L_0						
141 D	5.191	4.8837E-05	103.0	73.82	103.0	73.82	UL-RL	4.1655E+05	-7.000	30.00	1.000
1.000		103.8	0.000	0.000	5AL_158_160_L_0						
142 D	5.230	4.8837E-05	103.5	74.09	103.5	74.09	UL-RL	4.1655E+05	-7.050	30.50	1.000
1.000		104.6	0.000	0.000	5AL_158_160_L_0						
143 D	5.268	4.8837E-05	103.9	74.36	103.9	74.36	UL-RL	4.1655E+05	-7.100	31.00	1.000
1.000		105.4	0.000	0.000	5AL_158_160_L_0						
144 D	5.306	4.8837E-05	104.4	74.63	104.4	74.63	UL-RL	4.1655E+05	-7.150	31.50	1.000
1.000		106.1	0.000	0.000	5AL_158_160_L_0						
145 D	5.345	4.8837E-05	104.8	74.89	104.8	74.89	UL-RL	4.1655E+05	-7.200	32.00	1.000
1.000		106.9	0.000	0.000	5AL_158_160_L_0						
146 D	5.383	4.8837E-05	105.3	75.16	105.3	75.16	UL-RL	4.1655E+05	-7.250	32.50	1.000
1.000		107.7	0.000	0.000	5AL_158_160_L_0						
147 D	5.421	4.8837E-05	105.7	75.43	105.7	75.43	UL-RL	4.1655E+05	-7.300	33.00	1.000
1.000		108.4	0.000	0.000	5AL_158_160_L_0						
148 D	5.460	4.8837E-05	106.2	75.69	106.2	75.69	UL-RL	4.1655E+05	-7.350	33.50	1.000
1.000		109.2	0.000	0.000	5AL_158_160_L_0						
149 D	5.498	4.8837E-05	106.6	75.96	106.6	75.96	UL-RL	4.1655E+05	-7.400	34.00	1.000
1.000		110.0	0.000	0.000	5AL_158_160_L_0						
150 D	5.536	4.8837E-05	107.1	76.23	107.1	76.23	UL-RL	4.1655E+05	-7.450	34.50	1.000
1.000		110.7	0.000	0.000	5AL_158_160_L_0						
151 D	5.575	4.8837E-05	107.5	76.49	107.5	76.49	UL-RL	4.1655E+05	-7.500	35.00	1.000
1.000		111.5	0.000	0.000	5AL_158_160_L_0						
152 D	5.613	4.8837E-05	108.0	76.76	108.0	76.76	UL-RL	4.1655E+05	-7.550	35.50	1.000
1.000		112.3	0.000	0.000	5AL_158_160_L_0						
153 D	5.651	4.8837E-05	108.4	77.03	108.4	77.03	UL-RL	4.1655E+05	-7.600	36.00	1.000
1.000		113.0	0.000	0.000	5AL_158_160_L_0						
154 D	5.690	4.8837E-05	108.9	77.29	108.9	77.30	UL-RL	4.1655E+05	-7.650	36.50	1.000
1.000		113.8	0.000	0.000	5AL_158_160_L_0						
155 D	5.728	4.8837E-05	109.3	77.56	109.3	77.56	UL-RL	4.1655E+05	-7.700	37.00	1.000
1.000		114.6	0.000	0.000	5AL_158_160_L_0						
156 D	5.766	4.8837E-05	109.8	77.83	109.8	77.83	UL-RL	4.1655E+05	-7.750	37.50	1.000
1.000		115.3	0.000	0.000	5AL_158_160_L_0						
157 D	5.805	4.8837E-05	110.2	78.10	110.2	78.10	UL-RL	4.1655E+05	-7.800	38.00	1.000
1.000		116.1	0.000	0.000	5AL_158_160_L_0						
158 D	5.843	4.8837E-05	110.7	78.36	110.7	78.36	UL-RL	4.1655E+05	-7.850	38.50	1.000
1.000		116.9	0.000	0.000	5AL_158_160_L_0						
159 D	5.881	4.8837E-05	111.1	78.63	111.1	78.63	UL-RL	4.1655E+05	-7.900	39.00	1.000
1.000		117.6	0.000	0.000	5AL_158_160_L_0						
160 D	5.920	4.8837E-05	111.6	78.90	111.6	78.90	UL-RL	4.1655E+05	-7.950	39.50	1.000
1.000		118.4	0.000	0.000	5AL_158_160_L_0						
161 D	5.958	4.8837E-05	112.0	79.16	112.0	79.16	UL-RL	4.1655E+05	-8.000	40.00	1.000
1.000		119.2	0.000	0.000	5AL_158_160_L_0						
162 D	5.997	4.8837E-05	112.5	79.43	112.5	79.43	UL-RL	4.1655E+05	-8.050	40.50	1.000
1.000		119.9	0.000	0.000	5AL_158_160_L_0						
163 D	6.035	4.8837E-05	112.9	79.70	112.9	79.70	UL-RL	4.1655E+05	-8.100	41.00	1.000
1.000		120.7	0.000	0.000	5AL_158_160_L_0						
164 D	6.073	4.8837E-05	113.4	79.96	113.4	79.96	UL-RL	4.1655E+05	-8.150	41.50	1.000
1.000		121.5	0.000	0.000	5AL_158_160_L_0						
165 D	6.112	4.8837E-05	113.8	80.23	113.8	80.23	UL-RL	4.1655E+05	-8.200	42.00	1.000
1.000		122.2	0.000	0.000	5AL_158_160_L_0						
166 D	6.150	4.8837E-05	114.3	80.50	114.3	80.50	UL-RL	4.1655E+05	-8.250	42.50	1.000
1.000		123.0	0.000	0.000	5AL_158_160_L_0						
167 D	6.188	4.8837E-05	114.7	80.77	114.7	80.77	UL-RL	4.1655E+05	-8.300	43.00	1.000
1.000		123.8	0.000	0.000	5AL_158_160_L_0						
168 D	6.227	4.8837E-05	115.2	81.03	115.2	81.03	UL-RL	4.1655E+05	-8.350	43.50	1.000
1.000		124.5	0.000	0.000	5AL_158_160_L_0						
169 D	6.265	4.8837E-05	115.6	81.30	115.6	81.30	UL-RL	4.1655E+05	-8.400	44.00	1.000
1.000		125.3	0.000	0.000	5AL_158_160_L_0						
170 D	6.303	4.8837E-05	116.1	81.57	116.1	81.57	UL-RL	4.1655E+05	-8.450	44.50	1.000
1.000		126.1	0.000	0.000	5AL_158_160_L_0						
171 D	6.342	4.8837E-05	116.5	81.83	116.5	81.83	UL-RL	4.1655E+05	-8.500	45.00	1.000
1.000		126.8	0.000	0.000	5AL_158_160_L_0						
172 D	6.380	4.8837E-05	117.0	82.10	117.0	82.10	UL-RL	4.1655E+05	-8.550	45.50	1.000
1.000		127.6	0.000	0.000	5AL_158_160_L_0						

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	250 di 401

173 D	6.418	4.8837E-05	117.4	82.37	117.4	82.37	UL-RL	4.1655E+05	-8.600	46.00	1.000
1.000	128.4	0.000	0.000	5AL_158_160_L_0							
174 D	6.457	4.8837E-05	117.9	82.63	117.9	82.63	UL-RL	4.1655E+05	-8.650	46.50	1.000
1.000	129.1	0.000	0.000	5AL_158_160_L_0							
175 D	6.495	4.8837E-05	118.3	82.90	118.3	82.90	UL-RL	4.1655E+05	-8.700	47.00	1.000
1.000	129.9	0.000	0.000	5AL_158_160_L_0							
176 D	6.533	4.8837E-05	118.8	83.17	118.8	83.17	UL-RL	4.1655E+05	-8.750	47.50	1.000
1.000	130.7	0.000	0.000	5AL_158_160_L_0							
177 D	6.572	4.8837E-05	119.2	83.44	119.2	83.44	UL-RL	4.1655E+05	-8.800	48.00	1.000
1.000	131.4	0.000	0.000	5AL_158_160_L_0							
178 D	6.610	4.8837E-05	119.7	83.70	119.7	83.70	UL-RL	4.1655E+05	-8.850	48.50	1.000
1.000	132.2	0.000	0.000	5AL_158_160_L_0							
179 D	6.648	4.8837E-05	120.1	83.97	120.1	83.97	UL-RL	4.1655E+05	-8.900	49.00	1.000
1.000	133.0	0.000	0.000	5AL_158_160_L_0							
180 D	6.687	4.8837E-05	120.6	84.24	120.6	84.24	UL-RL	4.1655E+05	-8.950	49.50	1.000
1.000	133.7	0.000	0.000	5AL_158_160_L_0							
181 D	6.725	4.8837E-05	121.0	84.50	121.0	84.50	V-C	2.6034E+05	-9.000	50.00	1.000
1.000	134.5	0.000	0.000	5AL_158_160_L_0							
182 D	6.764	4.8837E-05	121.5	84.77	121.5	84.77	V-C	2.6034E+05	-9.050	50.50	1.000
1.000	135.3	0.000	0.000	5AL_158_160_L_0							
183 D	6.802	4.8837E-05	121.9	85.04	121.9	85.04	V-C	2.6034E+05	-9.100	51.00	1.000
1.000	136.0	0.000	0.000	5AL_158_160_L_0							
184 D	6.840	4.8837E-05	122.4	85.30	122.4	85.30	V-C	2.6034E+05	-9.150	51.50	1.000
1.000	136.8	0.000	0.000	5AL_158_160_L_0							
185 D	6.879	4.8837E-05	122.8	85.57	122.8	85.57	V-C	2.6034E+05	-9.200	52.00	1.000
1.000	137.6	0.000	0.000	5AL_158_160_L_0							
186 D	6.917	4.8837E-05	123.3	85.84	123.3	85.84	V-C	2.6034E+05	-9.250	52.50	1.000
1.000	138.3	0.000	0.000	5AL_158_160_L_0							
187 D	6.955	4.8837E-05	123.7	86.11	123.7	86.11	V-C	2.6034E+05	-9.300	53.00	1.000
1.000	139.1	0.000	0.000	5AL_158_160_L_0							
188 D	6.994	4.8837E-05	124.2	86.37	124.2	86.37	V-C	2.6034E+05	-9.350	53.50	1.000
1.000	139.9	0.000	0.000	5AL_158_160_L_0							
189 D	7.032	4.8837E-05	124.6	86.64	124.6	86.64	V-C	2.6034E+05	-9.400	54.00	1.000
1.000	140.6	0.000	0.000	5AL_158_160_L_0							
190 D	7.070	4.8837E-05	125.1	86.91	125.1	86.91	UL-RL	4.1655E+05	-9.450	54.50	1.000
1.000	141.4	0.000	0.000	5AL_158_160_L_0							
191 D	7.109	4.8837E-05	125.5	87.17	125.5	87.17	UL-RL	4.1655E+05	-9.500	55.00	1.000
1.000	142.2	0.000	0.000	5AL_158_160_L_0							
192 D	7.147	4.8837E-05	126.0	87.44	126.0	87.44	UL-RL	4.1655E+05	-9.550	55.50	1.000
1.000	142.9	0.000	0.000	5AL_158_160_L_0							
193 D	7.185	4.8837E-05	126.4	87.71	126.4	87.71	UL-RL	4.1655E+05	-9.600	56.00	1.000
1.000	143.7	0.000	0.000	5AL_158_160_L_0							
194 D	7.224	4.8837E-05	126.9	87.97	126.9	87.97	UL-RL	4.1655E+05	-9.650	56.50	1.000
1.000	144.5	0.000	0.000	5AL_158_160_L_0							
195 D	7.262	4.8837E-05	127.3	88.24	127.3	88.24	UL-RL	4.1655E+05	-9.700	57.00	1.000
1.000	145.2	0.000	0.000	5AL_158_160_L_0							
196 D	7.300	4.8837E-05	127.8	88.51	127.8	88.51	UL-RL	4.1655E+05	-9.750	57.50	1.000
1.000	146.0	0.000	0.000	5AL_158_160_L_0							
197 D	7.339	4.8837E-05	128.2	88.78	128.2	88.78	UL-RL	4.1655E+05	-9.800	58.00	1.000
1.000	146.8	0.000	0.000	5AL_158_160_L_0							
198 D	7.377	4.8837E-05	128.7	89.04	128.7	89.04	UL-RL	4.1655E+05	-9.850	58.50	1.000
1.000	147.5	0.000	0.000	5AL_158_160_L_0							
199 D	7.415	4.8837E-05	129.1	89.31	129.1	89.31	UL-RL	4.1655E+05	-9.900	59.00	1.000
1.000	148.3	0.000	0.000	5AL_158_160_L_0							
200 D	7.452	4.8837E-05	129.6	89.58	129.6	89.58	UL-RL	4.1655E+05	-9.950	59.50	1.000
1.000	149.1	0.000	0.000	5AL_158_160_L_0							
201 D	3.745	4.8837E-05	130.0	89.84	130.0	89.84	UL-RL	4.1655E+05	-10.00	60.00	1.000
1.000	149.8	0.000	0.000	5AL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	251 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_20.A2M2R1_956
Exe Time :21 June 2016 11:57:46

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement_33
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	6.79541E-03	-6.79541E-03	1.78611E-13	3.39771E-04
2	1.99710E-02	-1.99710E-02	-3.39771E-04	1.33832E-03
3	3.27311E-02	-3.27311E-02	-1.33832E-03	2.97488E-03
4	4.50747E-02	-4.50747E-02	-2.97488E-03	5.22861E-03
5	5.69995E-02	-5.69995E-02	-5.22861E-03	8.07859E-03
6	6.85019E-02	-6.85019E-02	-8.07859E-03	1.15037E-02
7	7.95760E-02	-7.95760E-02	-1.15037E-02	1.54825E-02
8	9.02136E-02	-9.02136E-02	-1.54825E-02	1.99932E-02
9	0.10040	-0.10040	-1.99932E-02	2.50134E-02
10	0.11013	-0.11013	-2.50134E-02	3.05200E-02
11	0.11938	-0.11938	-3.05200E-02	3.64891E-02
12	0.12813	-0.12813	-3.64891E-02	4.28956E-02
13	0.13635	-0.13635	-4.28956E-02	4.97132E-02
14	0.14402	-0.14402	-4.97132E-02	5.69140E-02
15	0.15109	-0.15109	-5.69140E-02	6.44684E-02
16	0.15753	-0.15753	-6.44684E-02	7.23449E-02
17	0.16329	-0.16329	-7.23449E-02	8.05094E-02
18	0.16832	-0.16832	-8.05094E-02	8.89256E-02
19	0.17257	-0.17257	-8.89256E-02	9.75541E-02
20	0.17597	-0.17597	-9.75541E-02	0.10635
21	0.17845	-0.17845	-0.10635	0.11527
22	0.17994	-0.17994	-0.11527	0.12427
23	0.18035	-0.18035	-0.12427	0.13329
24	0.17960	-0.17960	-0.13329	0.14227
25	0.17760	-0.17760	-0.14227	0.15115
26	0.17423	-0.17423	-0.15115	0.15986
27	0.16941	-0.16941	-0.15986	0.16833
28	0.16301	-0.16301	-0.16833	0.17648
29	0.15491	-0.15491	-0.17648	0.18423
30	0.14500	-0.14500	-0.18423	0.19148
31	0.13314	-0.13314	-0.19148	0.19813
32	0.11919	-0.11919	-0.19813	0.20409
33	0.10301	-0.10301	-0.20409	0.20924
34	8.44728E-02	-8.44728E-02	-0.20924	0.21347
35	6.34156E-02	-6.34156E-02	-0.21347	0.21664
36	3.96919E-02	-3.96919E-02	-0.21664	0.21862
37	1.31488E-02	-1.31488E-02	-0.21862	0.21928
38	-1.63679E-02	1.63679E-02	-0.21928	0.21846
39	-4.90128E-02	4.90128E-02	-0.21846	0.21601
40	-8.17807E-02	8.17807E-02	-0.21601	0.21192
41	-0.10962	0.10962	-0.21192	0.20644
42	-0.13293	0.13293	-0.20644	0.19979
43	-0.15211	0.15211	-0.19979	0.19219
44	-0.16751	0.16751	-0.19219	0.18381
45	-0.17951	0.17951	-0.18381	0.17484
46	-0.18845	0.18845	-0.17484	0.16542
47	-0.19465	0.19465	-0.16542	0.15568
48	-0.19843	0.19843	-0.15568	0.14576
49	-0.20046	0.20046	-0.14576	0.13574
50	-0.20021	0.20021	-0.13574	0.12573
51	-0.19800	0.19800	-0.12573	0.11583
52	-0.19411	0.19411	-0.11583	0.10612
53	-0.18882	0.18882	-0.10612	9.66820E-02
54	-0.18237	0.18237	-9.66820E-02	8.75637E-02
55	-0.17497	0.17497	-8.75637E-02	7.88150E-02
56	-0.16684	0.16684	-7.88150E-02	7.04728E-02
57	-0.15816	0.15816	-7.04728E-02	6.25652E-02
58	-0.14908	0.14908	-6.25652E-02	5.51114E-02
59	-0.13975	0.13975	-5.51114E-02	4.81241E-02

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	252 di 401

RELAZIONE DI CALCOLO

60-0.13029	0.13029	-4.81241E-02	4.16095E-02
61-0.12083	0.12083	-4.16095E-02	3.55681E-02
62-0.11145	0.11145	-3.55681E-02	2.99957E-02
63-0.10223	0.10223	-2.99957E-02	2.48840E-02
64-9.32558E-02	9.32558E-02	-2.48840E-02	2.02212E-02
65-8.45705E-02	8.45705E-02	-2.02212E-02	1.59927E-02
66-7.62250E-02	7.62250E-02	-1.59927E-02	1.21814E-02
67-6.82561E-02	6.82561E-02	-1.21814E-02	8.76863E-03
68-6.06921E-02	6.06921E-02	-8.76863E-03	5.73403E-03
69-5.35532E-02	5.35532E-02	-5.73403E-03	3.05637E-03
70-4.68529E-02	4.68529E-02	-3.05637E-03	7.13719E-04
71-4.05983E-02	4.05983E-02	-7.13719E-04	-1.31620E-03
72-3.47912E-02	3.47912E-02	1.31620E-03	-3.05576E-03
73-2.94285E-02	2.94285E-02	3.05576E-03	-4.52718E-03
74-2.45035E-02	2.45035E-02	4.52718E-03	-5.75236E-03
75-2.00058E-02	2.00058E-02	5.75236E-03	-6.75265E-03
76-1.59222E-02	1.59222E-02	6.75265E-03	-7.54876E-03
77-1.22372E-02	1.22372E-02	7.54876E-03	-8.16062E-03
78-8.93366E-03	8.93366E-03	8.16062E-03	-8.60729E-03
79-5.99271E-03	5.99271E-03	8.60729E-03	-8.90693E-03
80-3.39464E-03	3.39464E-03	8.90693E-03	-9.07666E-03
81-1.11901E-03	1.11901E-03	9.07666E-03	-9.13261E-03
82 8.55025E-04	8.55025E-04	9.13261E-03	-9.08986E-03
83 2.54845E-03	2.54845E-03	9.08986E-03	-8.96244E-03
84 3.98216E-03	3.98216E-03	8.96244E-03	-8.76333E-03
85 5.17675E-03	5.17675E-03	8.76333E-03	-8.50449E-03
86 6.15237E-03	6.15237E-03	8.50449E-03	-8.19687E-03
87 6.92857E-03	6.92857E-03	8.19687E-03	-7.85044E-03
88 7.52421E-03	7.52421E-03	7.85044E-03	-7.47423E-03
89 7.95734E-03	7.95734E-03	7.47423E-03	-7.07636E-03
90 8.24515E-03	8.24515E-03	7.07636E-03	-6.66410E-03
91 8.40393E-03	8.40393E-03	6.66410E-03	-6.24391E-03
92 8.44902E-03	8.44902E-03	6.24391E-03	-5.82145E-03
93 8.39478E-03	8.39478E-03	5.82145E-03	-5.40171E-03
94 8.28041E-03	8.28041E-03	5.40171E-03	-4.98769E-03
95 8.10608E-03	8.10608E-03	4.98769E-03	-4.58238E-03
96 7.88115E-03	7.88115E-03	4.58238E-03	-4.18832E-03
97 7.61424E-03	7.61424E-03	4.18832E-03	-3.80761E-03
98 7.31321E-03	7.31321E-03	3.80761E-03	-3.44195E-03
99 6.98522E-03	6.98522E-03	3.44195E-03	-3.09268E-03
100 6.63673E-03	6.63673E-03	3.09268E-03	-2.76085E-03
101 6.27357E-03	6.27357E-03	2.76085E-03	-2.44717E-03
102 5.90092E-03	5.90092E-03	2.44717E-03	-2.15212E-03
103 5.52338E-03	5.52338E-03	2.15212E-03	-1.87595E-03
104 5.14501E-03	5.14501E-03	1.87595E-03	-1.61870E-03
105 4.76932E-03	4.76932E-03	1.61870E-03	-1.38023E-03
106 4.39937E-03	4.39937E-03	1.38023E-03	-1.16026E-03
107 4.03776E-03	4.03776E-03	1.16026E-03	-9.58375E-04
108 3.68666E-03	3.68666E-03	9.58375E-04	-7.74042E-04
109 3.34789E-03	3.34789E-03	7.74042E-04	-6.06644E-04
110 3.02289E-03	3.02289E-03	6.06644E-04	-4.55500E-04
111 2.71283E-03	2.71283E-03	4.55500E-04	-3.19858E-04
112 2.41855E-03	2.41855E-03	3.19858E-04	-1.98931E-04
113 2.14067E-03	2.14067E-03	1.98931E-04	-9.18971E-05
114 1.87955E-03	1.87955E-03	9.18971E-05	-2.08245E-06
115 1.63539E-03	1.63539E-03	2.08245E-06	8.38518E-05
116 1.40817E-03	1.40817E-03	8.38518E-05	1.54260E-04
117 1.19774E-03	1.19774E-03	1.54260E-04	2.14147E-04
118 1.00382E-03	1.00382E-03	2.14147E-04	2.64338E-04
119 8.26007E-04	8.26007E-04	2.64338E-04	3.05639E-04
120 6.63809E-04	6.63809E-04	3.05639E-04	3.38830E-04
121 5.16653E-04	5.16653E-04	3.38830E-04	3.64662E-04
122 3.83905E-04	3.83905E-04	3.64662E-04	3.83858E-04
123 2.64883E-04	2.64883E-04	3.83858E-04	3.97102E-04
124 1.58868E-04	1.58868E-04	3.97102E-04	4.05045E-04
125 6.51153E-05	6.51153E-05	4.05045E-04	4.08301E-04
126-1.71338E-05	1.71338E-05	4.08301E-04	4.07444E-04
127-8.86450E-05	8.86450E-05	4.07444E-04	4.03012E-04
128-1.50183E-04	1.50183E-04	4.03012E-04	3.95503E-04
129-2.02502E-04	2.02502E-04	3.95503E-04	3.85378E-04
130-2.46346E-04	2.46346E-04	3.85378E-04	3.73060E-04
131-2.82436E-04	2.82436E-04	3.73060E-04	3.58939E-04
132-3.11473E-04	3.11473E-04	3.58939E-04	3.43365E-04
133-3.34132E-04	3.34132E-04	3.43365E-04	3.26658E-04
134-3.51055E-04	3.51055E-04	3.26658E-04	3.09106E-04
135-3.62857E-04	3.62857E-04	3.09106E-04	2.90962E-04
136-3.70117E-04	3.70117E-04	2.90962E-04	2.72457E-04
137-3.73382E-04	3.73382E-04	2.72457E-04	2.53787E-04
138-3.73164E-04	3.73164E-04	2.53787E-04	2.35129E-04
139-3.69212E-04	3.69212E-04	2.35129E-04	2.16669E-04
140-3.62116E-04	3.62116E-04	2.16669E-04	1.98562E-04



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	253 di 401

RELAZIONE DI CALCOLO

141-3.52375E-04 3.52375E-04-1.98562E-04 1.80944E-04
 142-3.40446E-04 3.40446E-04-1.80944E-04 1.63921E-04
 143-3.26747E-04 3.26747E-04-1.63921E-04 1.47584E-04
 144-3.11653E-04 3.11653E-04-1.47584E-04 1.32001E-04
 145-2.95506E-04 2.95506E-04-1.32001E-04 1.17226E-04
 146-2.78610E-04 2.78610E-04-1.17226E-04 1.03295E-04
 147-2.61234E-04 2.61234E-04-1.03295E-04 9.02336E-05
 148-2.43618E-04 2.43618E-04-9.02336E-05 7.80527E-05
 149-2.25968E-04 2.25968E-04-7.80527E-05 6.67543E-05
 150-2.08464E-04 2.08464E-04-6.67543E-05 5.63311E-05
 151-1.91262E-04 1.91262E-04-5.63311E-05 4.67678E-05
 152-1.74490E-04 1.74490E-04-4.67678E-05 3.80433E-05
 153-1.58257E-04 1.58257E-04-3.80433E-05 3.01304E-05
 154-1.42651E-04 1.42651E-04-3.01304E-05 2.29979E-05
 155-1.27741E-04 1.27741E-04-2.29979E-05 1.66108E-05
 156-1.13580E-04 1.13580E-04-1.66108E-05 1.09317E-05
 157-1.00208E-04 1.00208E-04-1.09317E-05 5.92129E-06
 158-8.76484E-05 8.76484E-05-5.92129E-06 1.53887E-06
 159-7.59164E-05 7.59164E-05-1.53887E-06-2.25695E-06
 160-6.50154E-05 6.50154E-05-2.25695E-06-5.50772E-06
 161-5.49404E-05 5.49404E-05-5.50772E-06-8.25480E-06
 162-4.56790E-05 4.56790E-05-8.25480E-06-1.05387E-05
 163-3.72123E-05 3.72123E-05-1.05387E-05-1.23994E-05
 164-2.95163E-05 2.95163E-05-1.23994E-05-1.38752E-05
 165-2.25625E-05 2.25625E-05-1.38752E-05-1.50033E-05
 166-1.63191E-05 1.63191E-05-1.50033E-05-1.58193E-05
 167-1.07518E-05 1.07518E-05-1.58193E-05-1.63569E-05
 168-5.82416E-06 5.82416E-06-1.63569E-05-1.66481E-05
 169-1.49873E-06 1.49873E-06-1.66481E-05-1.67230E-05
 170-2.26278E-06-2.26278E-06-1.67230E-05-1.66099E-05
 171-5.49876E-06-5.49876E-06-1.66099E-05-1.63349E-05
 172-8.24737E-06-8.24737E-06-1.63349E-05-1.59225E-05
 173-1.05462E-05-1.05462E-05-1.59225E-05-1.53952E-05
 174-1.24318E-05-1.24318E-05-1.53952E-05-1.47737E-05
 175-1.39396E-05-1.39396E-05-1.47737E-05-1.40767E-05
 176-1.51035E-05-1.51035E-05-1.40767E-05-1.33215E-05
 177-1.59560E-05-1.59560E-05-1.33215E-05-1.25237E-05
 178-1.65277E-05-1.65277E-05-1.25237E-05-1.16973E-05
 179-1.68474E-05-1.68474E-05-1.16973E-05-1.08549E-05
 180-1.69420E-05-1.69420E-05-1.08549E-05-1.00078E-05
 181-1.66365E-05-1.66365E-05-1.00078E-05-9.16600E-06
 182-1.65539E-05-1.65539E-05-9.16600E-06-8.33829E-06
 183-1.61154E-05-1.61154E-05-8.33829E-06-7.53252E-06
 184-1.56460E-05-1.56460E-05-7.53252E-06-6.75022E-06
 185-1.50791E-05-1.50791E-05-6.75022E-06-5.99627E-06
 186-1.44276E-05-1.44276E-05-5.99627E-06-5.27489E-06
 187-1.37025E-05-1.37025E-05-5.27489E-06-4.58975E-06
 188-1.29138E-05-1.29138E-05-4.58975E-06-3.94406E-06
 189-1.20703E-05-1.20703E-05-3.94406E-06-3.34054E-06
 190-1.11792E-05-1.11792E-05-3.34054E-06-2.78158E-06
 191-1.02469E-05-1.02469E-05-2.78158E-06-2.26924E-06
 192-9.27864E-06-9.27864E-06-2.26924E-06-1.80529E-06
 193-8.27863E-06-8.27863E-06-1.80529E-06-1.39136E-06
 194-7.25034E-06-7.25034E-06-1.39136E-06-1.02885E-06
 195-6.19639E-06-6.19639E-06-1.02885E-06-7.19030E-07
 196-5.11867E-06-5.11867E-06-7.19030E-07-4.63095E-07
 197-4.01865E-06-4.01865E-06-4.63095E-07-2.62161E-07
 198-2.89714E-06-2.89714E-06-2.62162E-07-1.17301E-07
 199-1.75462E-06-1.75462E-06-1.17301E-07-2.95714E-08
 200-5.91709E-07-5.91709E-07-2.95714E-08-6.61162E-13

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5964. RIMNOR= 2.227
 RENORM= 356.3 REMNOR=0.1917E-22 RATIO =0.2444 TOLER =0.1000E-03 NOT CONVERGED
 RFXMAX = 7.452 RMAX =0.2193
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
 RDT = 5964. RDR = 2.227
 RATIOT=0.2444 RATOR= 0.000
 MAX UN= 2.435 IEQ= 129 NODE 65 DOF 1 Y-DISPL.F
 MIN UN=-.7132E-12 IEQ= 110 NODE 55 DOF 2 X-ROT. F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5964. RIMNOR= 2.227
 RENORM= 770.7 REMNOR=0.1687E-18 RATIO =0.3595 TOLER =0.1000E-03 NOT CONVERGED
 RFXMAX = 7.452 RMAX =0.2193
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
 RDT = 5964. RDR = 2.227
 RATIOT=0.3595 RATOR= 0.000
 MAX UN= 9.867 IEQ= 79 NODE 40 DOF 1 Y-DISPL.F



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	254 di 401

RELAZIONE DI CALCOLO

MIN UN=-.3366E-03 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM= 5964. RIMNOR= 2.227
RENORM= 2994. REMNOR=0.6767E-17 RATIO =0.7086 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.452 RMMAX =0.2193
RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
RDT = 5964. RDR = 2.227
RATIOT=0.7086 RATOR= 0.000
MAX UN= 20.80 IEQ= 141 NODE 71 DOF 1 Y-DISPL.F
MIN UN=-.2347 IEQ= 197 NODE 99 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM= 5964. RIMNOR= 2.227
RENORM= 6227. REMNOR=0.1318E-16 RATIO = 1.022 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.452 RMMAX =0.2193
RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
RDT = 5964. RDR = 2.227
RATIOT= 1.022 RATOR= 0.000
MAX UN= 36.59 IEQ= 185 NODE 93 DOF 1 Y-DISPL.F
MIN UN=-3.469 IEQ= 219 NODE 110 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM= 5964. RIMNOR= 2.227
RENORM= 5498. REMNOR=0.6006E-16 RATIO =0.9601 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.452 RMMAX =0.2193
RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
RDT = 5964. RDR = 2.227
RATIOT=0.9601 RATOR= 0.000
MAX UN= 32.99 IEQ= 225 NODE 113 DOF 1 Y-DISPL.F
MIN UN=-3.342 IEQ= 249 NODE 125 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
RINORM= 5964. RIMNOR= 2.227
RENORM= 6434. REMNOR=0.7575E-16 RATIO = 1.039 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.452 RMMAX =0.2193
RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
RDT = 5964. RDR = 2.227
RATIOT= 1.039 RATOR= 0.000
MAX UN= 39.77 IEQ= 253 NODE 127 DOF 1 Y-DISPL.F
MIN UN=-4.285 IEQ= 283 NODE 142 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 7 RNORM = 0.000 RMNORM= 0.000
RINORM= 5964. RIMNOR= 2.227
RENORM= 3868. REMNOR=0.1075E-15 RATIO =0.8053 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.452 RMMAX =0.2193
RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
RDT = 5964. RDR = 2.227
RATIOT=0.8053 RATOR= 0.000
MAX UN= 29.94 IEQ= 287 NODE 144 DOF 1 Y-DISPL.F
MIN UN=-4.445 IEQ= 311 NODE 156 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 8 RNORM = 0.000 RMNORM= 0.000
RINORM= 5964. RIMNOR= 2.227
RENORM= 1970. REMNOR=0.1194E-15 RATIO =0.5747 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.452 RMMAX =0.2193
RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
RDT = 5964. RDR = 2.227
RATIOT=0.5747 RATOR= 0.000
MAX UN= 21.68 IEQ= 313 NODE 157 DOF 1 Y-DISPL.F
MIN UN=-4.925 IEQ= 335 NODE 168 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 9 RNORM = 0.000 RMNORM= 0.000
RINORM= 5964. RIMNOR= 2.227
RENORM= 593.5 REMNOR=0.1318E-15 RATIO =0.3155 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.452 RMMAX =0.2193
RTSMAL=0.1000E-04 RMSMAL=0.1000E-05

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	255 di 401

RDT = 5964. RDR = 2.227
 RATIO=0.3155 RATIO= 0.000
 MAX UN= 11.44 IEQ= 337 NODE 169 DOF 1 Y-DISPL.F
 MIN UN=-2.571 IEQ= 353 NODE 177 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 10 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5964. RIMNOR= 2.227
 RENORM= 503.2 REMNOR=0.2382E-15 RATIO =0.2905 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.452 RMMAX =0.2193
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
 RDT = 5964. RDR = 2.227
 RATIO=0.2905 RATIO= 0.000
 MAX UN= 10.63 IEQ= 351 NODE 176 DOF 1 Y-DISPL.F
 MIN UN=-5.501 IEQ= 361 NODE 181 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 11 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5964. RIMNOR= 2.227
 RENORM= 62.04 REMNOR=0.2762E-15 RATIO =0.1020 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.452 RMMAX =0.2193
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
 RDT = 5964. RDR = 2.227
 RATIO=0.1020 RATIO= 0.000
 MAX UN= 4.882 IEQ= 351 NODE 176 DOF 1 Y-DISPL.F
 MIN UN=-.7614 IEQ= 375 NODE 188 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 12 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5964. RIMNOR= 2.227
 RENORM= 12.44 REMNOR=0.2215E-15 RATIO =0.4568E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.452 RMMAX =0.2193
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
 RDT = 5964. RDR = 2.227
 RATIO=0.4568E-01 RATIO= 0.000
 MAX UN= 2.416 IEQ= 367 NODE 184 DOF 1 Y-DISPL.F
 MIN UN=-1.225 IEQ= 377 NODE 189 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 13 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5964. RIMNOR= 2.227
 RENORM=0.1223 REMNOR=0.3251E-15 RATIO =0.4528E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.452 RMMAX =0.2193
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
 RDT = 5964. RDR = 2.227
 RATIO=0.4528E-02 RATIO= 0.000
 MAX UN=0.3351 IEQ= 363 NODE 182 DOF 1 Y-DISPL.F
 MIN UN=-.7631E-01 IEQ= 383 NODE 192 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 14 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5964. RIMNOR= 2.227
 RENORM=0.2172E-04 REMNOR=0.2801E-15 RATIO =0.6035E-04 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 7.452 RMMAX =0.2193
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
 RDT = 5964. RDR = 2.227
 RATIO=0.6035E-04 RATIO= 0.000
 MAX UN=0.3295E-06 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F
 MIN UN=-.4321E-02 IEQ= 383 NODE 192 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	256 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A2M2R1_956
Exe Time :21 June 2016 11:57:46

paratia_mario
SOLUTION REACHED USING 14 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F (02)	X-ROT. F (04)
1	0.3092572	-4.7700775E-02
2	0.3068722	-4.7700764E-02
3	0.3044871	-4.7700708E-02
4	0.3021021	-4.7700561E-02
5	0.2997171	-4.7700275E-02
6	0.2973321	-4.7699801E-02
7	0.2949471	-4.7699090E-02
8	0.2925622	-4.7698090E-02
9	0.2901773	-4.7696750E-02
10	0.2877925	-4.7695014E-02
11	0.2854078	-4.7692829E-02
12	0.2830232	-4.7690137E-02
13	0.2806388	-4.7686883E-02
14	0.2782546	-4.7683006E-02
15	0.2758705	-4.7678448E-02
16	0.2734867	-4.7673146E-02
17	0.2711032	-4.7667039E-02
18	0.2687200	-4.7660063E-02
19	0.2663372	-4.7652152E-02
20	0.2639548	-4.7643242E-02
21	0.2615729	-4.7633264E-02
22	0.2591915	-4.7622151E-02
23	0.2568107	-4.7609831E-02
24	0.2544306	-4.7596234E-02
25	0.2520511	-4.7581288E-02
26	0.2496725	-4.7564919E-02
27	0.2472947	-4.7547053E-02
28	0.2449178	-4.7527613E-02
29	0.2425419	-4.7506521E-02
30	0.2401672	-4.7483701E-02
31	0.2377936	-4.7459070E-02
32	0.2354213	-4.7432550E-02
33	0.2330504	-4.7404057E-02
34	0.2306810	-4.7373508E-02
35	0.2283131	-4.7340018E-02
36	0.2259469	-4.7305901E-02
37	0.2235825	-4.7268670E-02
38	0.2212201	-4.7229037E-02
39	0.2188597	-4.7186911E-02
40	0.2165014	-4.7142202E-02
41	0.2141455	-4.7094818E-02
42	0.2117920	-4.7044665E-02
43	0.2094411	-4.6991648E-02
44	0.2070929	-4.6935672E-02
45	0.2047476	-4.6876640E-02
46	0.2024053	-4.6814452E-02
47	0.2000662	-4.6749010E-02
48	0.1977304	-4.6680212E-02
49	0.1953982	-4.6607956E-02
50	0.1930697	-4.6532140E-02
51	0.1907451	-4.6452658E-02
52	0.1884245	-4.6369404E-02
53	0.1861082	-4.6282272E-02
54	0.1837963	-4.6191153E-02
55	0.1814891	-4.6095937E-02
56	0.1791868	-4.5996514E-02
57	0.1768896	-4.5892772E-02
58	0.1745977	-4.5784599E-02
59	0.1723112	-4.5671877E-02
60	0.1700305	-4.5554491E-02
61	0.1677559	-4.5432326E-02
62	0.1654874	-4.5305262E-02
63	0.1632254	-4.5173181E-02

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	257 di 401

64	0.1609702	-4.5035961E-02
65	0.1587219	-4.4893480E-02
66	0.1564809	-4.4745615E-02
67	0.1542474	-4.4592281E-02
68	0.1520218	-4.4433432E-02
69	0.1498042	-4.4269028E-02
70	0.1475950	-4.4099037E-02
71	0.1453944	-4.3923428E-02
72	0.1432027	-4.3742180E-02
73	0.1410202	-4.3555276E-02
74	0.1388473	-4.3362702E-02
75	0.1366841	-4.3164454E-02
76	0.1345309	-4.2960531E-02
77	0.1323881	-4.2750937E-02
78	0.1302559	-4.2535683E-02
79	0.1281347	-4.2314789E-02
80	0.1260246	-4.2088268E-02
81	0.1239259	-4.1856152E-02
82	0.1218391	-4.1618473E-02
83	0.1197642	-4.1375263E-02
84	0.1177016	-4.1126571E-02
85	0.1156516	-4.0872435E-02
86	0.1136144	-4.0612899E-02
87	0.1115904	-4.0348010E-02
88	0.1095797	-4.0077818E-02
89	0.1075827	-3.9802370E-02
90	0.1055995	-3.9521733E-02
91	0.1036306	-3.9235958E-02
92	0.1016760	-3.8945107E-02
93	9.9736136E-02	-3.8649242E-02
94	9.7811136E-02	-3.8348422E-02
95	9.5901337E-02	-3.8042728E-02
96	9.4006943E-02	-3.7732226E-02
97	9.2128193E-02	-3.7416988E-02
98	9.0265322E-02	-3.7097091E-02
99	8.8418523E-02	-3.6772608E-02
100	8.6588099E-02	-3.6443631E-02
101	8.4774234E-02	-3.6110241E-02
102	8.2977147E-02	-3.5772522E-02
103	8.1197052E-02	-3.5430564E-02
104	7.9434124E-02	-3.5084453E-02
105	7.7688639E-02	-3.4734296E-02
106	7.5960761E-02	-3.4380185E-02
107	7.4250685E-02	-3.4022219E-02
108	7.2558601E-02	-3.3660500E-02
109	7.0884696E-02	-3.3295134E-02
110	6.9229114E-02	-3.2926220E-02
111	6.7592097E-02	-3.2553886E-02
112	6.5973781E-02	-3.2178234E-02
113	6.4374327E-02	-3.1799383E-02
114	6.2793894E-02	-3.1417449E-02
115	6.1232601E-02	-3.1032546E-02
116	5.9690655E-02	-3.0644813E-02
117	5.8168165E-02	-3.0254368E-02
118	5.6665262E-02	-2.9861341E-02
119	5.5182072E-02	-2.9465862E-02
120	5.3718685E-02	-2.9068057E-02
121	5.2275273E-02	-2.8668081E-02
122	5.0851911E-02	-2.8266062E-02
123	4.9448698E-02	-2.7862145E-02
124	4.8065726E-02	-2.7456473E-02
125	4.6703051E-02	-2.7049184E-02
126	4.5360804E-02	-2.6640447E-02
127	4.4039028E-02	-2.6230404E-02
128	4.2737783E-02	-2.5819211E-02
129	4.1457123E-02	-2.5407025E-02
130	4.0197094E-02	-2.4994008E-02
131	3.8957709E-02	-2.4580313E-02
132	3.7739046E-02	-2.4166123E-02
133	3.6541102E-02	-2.3751598E-02
134	3.5363889E-02	-2.3336908E-02
135	3.4207411E-02	-2.2922228E-02
136	3.3071641E-02	-2.2507724E-02
137	3.1956610E-02	-2.2093594E-02
138	3.0862272E-02	-2.1680008E-02
139	2.9788597E-02	-2.1267152E-02
140	2.8735542E-02	-2.0855213E-02
141	2.7703037E-02	-2.0444370E-02
142	2.6691062E-02	-2.0034833E-02
143	2.5699528E-02	-1.9626789E-02
144	2.4728355E-02	-1.9220433E-02



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	258 di 401

145	2.3777454E-02	-1.8815966E-02
146	2.2846705E-02	-1.8413583E-02
147	2.1936038E-02	-1.8013504E-02
148	2.1045313E-02	-1.7615930E-02
149	2.0174400E-02	-1.7221069E-02
150	1.9323158E-02	-1.6829137E-02
151	1.8491434E-02	-1.6440347E-02
152	1.7679051E-02	-1.6054911E-02
153	1.6885867E-02	-1.5673065E-02
154	1.6111681E-02	-1.5295024E-02
155	1.5356297E-02	-1.4921015E-02
156	1.4619508E-02	-1.4551267E-02
157	1.3901081E-02	-1.4186003E-02
158	1.3200815E-02	-1.3825473E-02
159	1.2518451E-02	-1.3469904E-02
160	1.1853738E-02	-1.3119538E-02
161	1.1206407E-02	-1.2774615E-02
162	1.0576169E-02	-1.2435373E-02
163	9.9627579E-03	-1.2102074E-02
164	9.3658584E-03	-1.1774960E-02
165	8.7851547E-03	-1.1454283E-02
166	8.2203186E-03	-1.1140298E-02
167	7.6709982E-03	-1.0833258E-02
168	7.1368615E-03	-1.0533434E-02
169	6.6175302E-03	-1.0241084E-02
170	6.1126241E-03	-9.9564728E-03
171	5.6217495E-03	-9.6798687E-03
172	5.1444992E-03	-9.4115426E-03
173	4.6804435E-03	-9.1517628E-03
174	4.2291664E-03	-8.9008158E-03
175	3.7902102E-03	-8.6589750E-03
176	3.3631125E-03	-8.4265217E-03
177	2.9473968E-03	-8.2037400E-03
178	2.5425645E-03	-7.9909123E-03
179	2.1481266E-03	-7.7883362E-03
180	1.7635552E-03	-7.5962994E-03
181	1.3883161E-03	-7.4150962E-03
182	1.0218601E-03	-7.2450239E-03
183	6.6361609E-04	-7.0863792E-03
184	3.1301970E-04	-6.9394506E-03
185	-3.0528101E-05	-6.8044699E-03
186	-3.6762937E-04	-6.6816140E-03
187	-6.9889318E-04	-6.5709785E-03
188	-1.0249367E-03	-6.4725196E-03
189	-1.3463511E-03	-6.3860256E-03
190	-1.6637323E-03	-6.3111157E-03
191	-1.9776473E-03	-6.2472849E-03
192	-2.2886353E-03	-6.1939231E-03
193	-2.5972084E-03	-6.1503175E-03
194	-2.9038225E-03	-6.1156720E-03
195	-3.2089104E-03	-6.0891160E-03
196	-3.5128533E-03	-6.0697082E-03
197	-3.8159835E-03	-6.0564355E-03
198	-4.1185810E-03	-6.0482114E-03
199	-4.4208755E-03	-6.0438752E-03
200	-4.7230188E-03	-6.0421930E-03
201	-5.0249963E-03	-6.0418565E-03



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	259 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A2M2R1_956
Exe Time :21 June 2016 11:57:46

paratia_mario

STRESS RESULTS FOR GROUP NO. 1

0 L
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACTOR	FORCE Peg	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
1 D	0.4091	-0.3093	57.00	16.37	57.00	33.82	ACTIVE	0.000	0.000	0.000	1.000
1.000	16.37	0.000	0.000	5AL_158_160_L_0							
2 D	0.8412	-0.3069	57.95	16.82	57.95	34.38	ACTIVE	0.000	-5.0000E-02	0.000	1.000
1.000	16.82	0.000	0.000	5AL_158_160_L_0							
3 D	0.8641	-0.3045	58.90	17.28	58.90	34.95	ACTIVE	0.000	-0.1000	0.000	1.000
1.000	17.28	0.000	0.000	5AL_158_160_L_0							
4 D	0.8870	-0.3021	59.85	17.74	59.85	35.51	ACTIVE	0.000	-0.1500	0.000	1.000
1.000	17.74	0.000	0.000	5AL_158_160_L_0							
5 D	0.9099	-0.2997	60.80	18.20	60.80	36.07	ACTIVE	0.000	-0.2000	0.000	1.000
1.000	18.20	0.000	0.000	5AL_158_160_L_0							
6 D	0.9328	-0.2973	61.75	18.66	61.75	36.64	ACTIVE	0.000	-0.2500	0.000	1.000
1.000	18.66	0.000	0.000	5AL_158_160_L_0							
7 D	0.9557	-0.2949	62.70	19.11	62.70	37.20	ACTIVE	0.000	-0.3000	0.000	1.000
1.000	19.11	0.000	0.000	5AL_158_160_L_0							
8 D	0.9786	-0.2926	63.65	19.57	63.65	37.76	ACTIVE	0.000	-0.3500	0.000	1.000
1.000	19.57	0.000	0.000	5AL_158_160_L_0							
9 D	1.001	-0.2902	64.60	20.03	64.60	38.33	ACTIVE	0.000	-0.4000	0.000	1.000
1.000	20.03	0.000	0.000	5AL_158_160_L_0							
10 D	1.024	-0.2878	65.55	20.49	65.55	38.89	ACTIVE	0.000	-0.4500	0.000	1.000
1.000	20.49	0.000	0.000	5AL_158_160_L_0							
11 D	1.047	-0.2854	66.50	20.94	66.50	39.45	ACTIVE	0.000	-0.5000	0.000	1.000
1.000	20.94	0.000	0.000	5AL_158_160_L_0							
12 D	1.070	-0.2830	67.45	21.40	67.45	40.02	ACTIVE	0.000	-0.5500	0.000	1.000
1.000	21.40	0.000	0.000	5AL_158_160_L_0							
13 D	1.093	-0.2806	68.40	21.86	68.40	40.58	ACTIVE	0.000	-0.6000	0.000	1.000
1.000	21.86	0.000	0.000	5AL_158_160_L_0							
14 D	1.116	-0.2783	69.35	22.32	69.35	41.15	ACTIVE	0.000	-0.6500	0.000	1.000
1.000	22.32	0.000	0.000	5AL_158_160_L_0							
15 D	1.139	-0.2759	70.30	22.78	70.30	41.71	ACTIVE	0.000	-0.7000	0.000	1.000
1.000	22.78	0.000	0.000	5AL_158_160_L_0							
16 D	1.162	-0.2735	71.25	23.23	71.25	42.27	ACTIVE	0.000	-0.7500	0.000	1.000
1.000	23.23	0.000	0.000	5AL_158_160_L_0							
17 D	1.185	-0.2711	72.20	23.69	72.20	42.84	ACTIVE	0.000	-0.8000	0.000	1.000
1.000	23.69	0.000	0.000	5AL_158_160_L_0							
18 D	1.208	-0.2687	73.15	24.15	73.15	43.40	ACTIVE	0.000	-0.8500	0.000	1.000
1.000	24.15	0.000	0.000	5AL_158_160_L_0							
19 D	1.230	-0.2663	74.10	24.61	74.10	43.96	ACTIVE	0.000	-0.9000	0.000	1.000
1.000	24.61	0.000	0.000	5AL_158_160_L_0							
20 D	1.253	-0.2640	75.05	25.07	75.05	44.53	ACTIVE	0.000	-0.9500	0.000	1.000
1.000	25.07	0.000	0.000	5AL_158_160_L_0							
21 D	1.276	-0.2616	76.00	25.52	76.00	45.09	ACTIVE	0.000	-1.000	0.000	1.000
1.000	25.52	0.000	0.000	5AL_158_160_L_0							
22 D	1.299	-0.2592	76.95	25.98	76.95	45.65	ACTIVE	0.000	-1.050	0.000	1.000
1.000	25.98	0.000	0.000	5AL_158_160_L_0							
23 D	1.322	-0.2568	77.90	26.44	77.90	46.22	ACTIVE	0.000	-1.100	0.000	1.000
1.000	26.44	0.000	0.000	5AL_158_160_L_0							
24 D	1.345	-0.2544	78.85	26.90	78.85	46.78	ACTIVE	0.000	-1.150	0.000	1.000
1.000	26.90	0.000	0.000	5AL_158_160_L_0							
25 D	1.368	-0.2521	79.80	27.36	79.80	47.35	ACTIVE	0.000	-1.200	0.000	1.000
1.000	27.36	0.000	0.000	5AL_158_160_L_0							
26 D	1.391	-0.2497	80.75	27.81	80.75	47.91	ACTIVE	0.000	-1.250	0.000	1.000
1.000	27.81	0.000	0.000	5AL_158_160_L_0							
27 D	1.414	-0.2473	81.70	28.27	81.70	48.47	ACTIVE	0.000	-1.300	0.000	1.000
1.000	28.27	0.000	0.000	5AL_158_160_L_0							
28 D	1.436	-0.2449	82.65	28.73	82.65	49.04	ACTIVE	0.000	-1.350	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	260 di 401

1.000	28.73	0.000	0.000	SAL_158_160_L_0							
29 D	1.459	-0.2425	83.60	29.19	83.60	49.60	ACTIVE	0.000	-1.400	0.000	1.000
1.000	29.19	0.000	0.000	SAL_158_160_L_0							
30 D	1.482	-0.2402	84.55	29.64	84.55	50.16	ACTIVE	0.000	-1.450	0.000	1.000
1.000	29.64	0.000	0.000	SAL_158_160_L_0							
31 D	1.505	-0.2378	85.50	30.10	85.50	50.73	ACTIVE	0.000	-1.500	0.000	1.000
1.000	30.10	0.000	0.000	SAL_158_160_L_0							
32 D	1.528	-0.2354	86.45	30.56	86.45	51.29	ACTIVE	0.000	-1.550	0.000	1.000
1.000	30.56	0.000	0.000	SAL_158_160_L_0							
33 D	1.551	-0.2331	87.40	31.02	87.40	51.85	ACTIVE	0.000	-1.600	0.000	1.000
1.000	31.02	0.000	0.000	SAL_158_160_L_0							
34 D	1.574	-0.2307	88.35	31.48	88.35	52.42	ACTIVE	0.000	-1.650	0.000	1.000
1.000	31.48	0.000	0.000	SAL_158_160_L_0							
35 D	1.597	-0.2283	89.30	31.93	89.30	52.98	ACTIVE	0.000	-1.700	0.000	1.000
1.000	31.93	0.000	0.000	SAL_158_160_L_0							
36 D	1.620	-0.2259	90.25	32.39	90.25	53.55	ACTIVE	0.000	-1.750	0.000	1.000
1.000	32.39	0.000	0.000	SAL_158_160_L_0							
37 D	1.643	-0.2236	91.20	32.85	91.20	54.11	ACTIVE	0.000	-1.800	0.000	1.000
1.000	32.85	0.000	0.000	SAL_158_160_L_0							
38 D	1.665	-0.2212	92.15	33.31	92.15	54.67	ACTIVE	0.000	-1.850	0.000	1.000
1.000	33.31	0.000	0.000	SAL_158_160_L_0							
39 D	1.688	-0.2189	93.10	33.77	93.10	55.24	ACTIVE	0.000	-1.900	0.000	1.000
1.000	33.77	0.000	0.000	SAL_158_160_L_0							
40 D	1.711	-0.2165	94.05	34.22	94.05	55.80	ACTIVE	0.000	-1.950	0.000	1.000
1.000	34.22	0.000	0.000	SAL_158_160_L_0							
41 D	1.734	-0.2141	95.00	34.68	95.00	56.36	ACTIVE	0.000	-2.000	0.000	1.000
1.000	34.68	0.000	0.000	SAL_158_160_L_0							
42 D	1.757	-0.2118	95.95	35.14	95.95	56.93	ACTIVE	0.000	-2.050	0.000	1.000
1.000	35.14	0.000	0.000	SAL_158_160_L_0							
43 D	1.780	-0.2094	96.90	35.60	96.90	57.49	ACTIVE	0.000	-2.100	0.000	1.000
1.000	35.60	0.000	0.000	SAL_158_160_L_0							
44 D	1.803	-0.2071	97.85	36.06	97.85	58.05	ACTIVE	0.000	-2.150	0.000	1.000
1.000	36.06	0.000	0.000	SAL_158_160_L_0							
45 D	1.826	-0.2047	98.80	36.51	98.80	58.62	ACTIVE	0.000	-2.200	0.000	1.000
1.000	36.51	0.000	0.000	SAL_158_160_L_0							
46 D	1.849	-0.2024	99.75	36.97	99.75	59.18	ACTIVE	0.000	-2.250	0.000	1.000
1.000	36.97	0.000	0.000	SAL_158_160_L_0							
47 D	1.871	-0.2001	100.7	37.43	100.7	59.75	ACTIVE	0.000	-2.300	0.000	1.000
1.000	37.43	0.000	0.000	SAL_158_160_L_0							
48 D	1.894	-0.1977	101.6	37.89	101.6	60.31	ACTIVE	0.000	-2.350	0.000	1.000
1.000	37.89	0.000	0.000	SAL_158_160_L_0							
49 D	1.917	-0.1954	102.6	38.34	102.6	60.87	ACTIVE	0.000	-2.400	0.000	1.000
1.000	38.34	0.000	0.000	SAL_158_160_L_0							
50 D	1.940	-0.1931	103.5	38.80	103.5	61.44	ACTIVE	0.000	-2.450	0.000	1.000
1.000	38.80	0.000	0.000	SAL_158_160_L_0							
51 D	1.963	-0.1907	104.5	39.26	104.5	62.00	ACTIVE	0.000	-2.500	0.000	1.000
1.000	39.26	0.000	0.000	SAL_158_160_L_0							
52 D	1.986	-0.1884	105.4	39.72	105.4	62.56	ACTIVE	0.000	-2.550	0.000	1.000
1.000	39.72	0.000	0.000	SAL_158_160_L_0							
53 D	2.009	-0.1861	106.4	40.18	106.4	63.13	ACTIVE	0.000	-2.600	0.000	1.000
1.000	40.18	0.000	0.000	SAL_158_160_L_0							
54 D	2.032	-0.1838	107.3	40.63	107.3	63.69	ACTIVE	0.000	-2.650	0.000	1.000
1.000	40.63	0.000	0.000	SAL_158_160_L_0							
55 D	2.055	-0.1815	108.3	41.09	108.3	64.25	ACTIVE	0.000	-2.700	0.000	1.000
1.000	41.09	0.000	0.000	SAL_158_160_L_0							
56 D	2.078	-0.1792	109.2	41.55	109.2	64.82	ACTIVE	0.000	-2.750	0.000	1.000
1.000	41.55	0.000	0.000	SAL_158_160_L_0							
57 D	2.100	-0.1769	110.2	42.01	110.2	65.38	ACTIVE	0.000	-2.800	0.000	1.000
1.000	42.01	0.000	0.000	SAL_158_160_L_0							
58 D	2.123	-0.1746	111.1	42.47	111.1	65.95	ACTIVE	0.000	-2.850	0.000	1.000
1.000	42.47	0.000	0.000	SAL_158_160_L_0							
59 D	2.146	-0.1723	112.1	42.92	112.1	66.51	ACTIVE	0.000	-2.900	0.000	1.000
1.000	42.92	0.000	0.000	SAL_158_160_L_0							
60 D	2.169	-0.1700	113.0	43.38	113.0	67.07	ACTIVE	0.000	-2.950	0.000	1.000
1.000	43.38	0.000	0.000	SAL_158_160_L_0							
61 D	2.192	-0.1678	114.0	43.84	114.0	67.64	ACTIVE	0.000	-3.000	0.000	1.000
1.000	43.84	0.000	0.000	SAL_158_160_L_0							
62 D	2.215	-0.1655	114.9	44.30	114.9	68.20	ACTIVE	0.000	-3.050	0.000	1.000
1.000	44.30	0.000	0.000	SAL_158_160_L_0							
63 D	2.238	-0.1632	115.9	44.76	115.9	68.76	ACTIVE	0.000	-3.100	0.000	1.000
1.000	44.76	0.000	0.000	SAL_158_160_L_0							
64 D	2.261	-0.1610	116.8	45.21	116.8	69.33	ACTIVE	0.000	-3.150	0.000	1.000
1.000	45.21	0.000	0.000	SAL_158_160_L_0							
65 D	2.284	-0.1587	117.8	45.67	117.8	69.89	ACTIVE	0.000	-3.200	0.000	1.000
1.000	45.67	0.000	0.000	SAL_158_160_L_0							
66 D	2.306	-0.1565	118.7	46.13	118.7	70.45	ACTIVE	0.000	-3.250	0.000	1.000
1.000	46.13	0.000	0.000	SAL_158_160_L_0							
67 D	2.329	-0.1542	119.7	46.59	119.7	71.02	ACTIVE	0.000	-3.300	0.000	1.000
1.000	46.59	0.000	0.000	SAL_158_160_L_0							
68 D	2.352	-0.1520	120.6	47.05	120.6	71.58	ACTIVE	0.000	-3.350	0.000	1.000
1.000	47.05	0.000	0.000	SAL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	261 di 401

69 D	2.375	-0.1498	121.6	47.50	121.6	72.15	ACTIVE	0.000	-3.400	0.000	1.000
1.000	47.50	0.000	0.000	SAL_158_160_L_0							
70 D	2.398	-0.1476	122.5	47.96	122.5	72.71	ACTIVE	0.000	-3.450	0.000	1.000
1.000	47.96	0.000	0.000	SAL_158_160_L_0							
71 D	2.421	-0.1454	123.5	48.42	123.5	73.27	ACTIVE	0.000	-3.500	0.000	1.000
1.000	48.42	0.000	0.000	SAL_158_160_L_0							
72 D	2.444	-0.1432	124.4	48.88	124.4	73.84	ACTIVE	0.000	-3.550	0.000	1.000
1.000	48.88	0.000	0.000	SAL_158_160_L_0							
73 D	2.467	-0.1410	125.4	49.33	125.4	74.40	ACTIVE	0.000	-3.600	0.000	1.000
1.000	49.33	0.000	0.000	SAL_158_160_L_0							
74 D	2.490	-0.1388	126.3	49.79	126.3	74.96	ACTIVE	0.000	-3.650	0.000	1.000
1.000	49.79	0.000	0.000	SAL_158_160_L_0							
75 D	2.513	-0.1367	127.3	50.25	127.3	75.53	ACTIVE	0.000	-3.700	0.000	1.000
1.000	50.25	0.000	0.000	SAL_158_160_L_0							
76 D	2.535	-0.1345	128.2	50.71	128.2	76.09	ACTIVE	0.000	-3.750	0.000	1.000
1.000	50.71	0.000	0.000	SAL_158_160_L_0							
77 D	2.558	-0.1324	129.2	51.17	129.2	76.65	ACTIVE	0.000	-3.800	0.000	1.000
1.000	51.17	0.000	0.000	SAL_158_160_L_0							
78 D	2.581	-0.1303	130.1	51.62	130.1	77.22	ACTIVE	0.000	-3.850	0.000	1.000
1.000	51.62	0.000	0.000	SAL_158_160_L_0							
79 D	2.604	-0.1281	131.1	52.08	131.1	77.78	ACTIVE	0.000	-3.900	0.000	1.000
1.000	52.08	0.000	0.000	SAL_158_160_L_0							
80 D	2.627	-0.1260	132.0	52.54	132.0	78.35	ACTIVE	0.000	-3.950	0.000	1.000
1.000	52.54	0.000	0.000	SAL_158_160_L_0							
81 D	2.650	-0.1239	133.0	53.00	133.0	78.91	ACTIVE	0.000	-4.000	0.000	1.000
1.000	53.00	0.000	0.000	SAL_158_160_L_0							
82 D	2.686	-0.1218	133.4	53.21	133.4	79.18	ACTIVE	0.000	-4.050	0.5000	1.000
1.000	53.21	0.000	0.000	SAL_158_160_L_0							
83 D	2.722	-0.1198	133.9	53.43	133.9	79.44	ACTIVE	0.000	-4.100	1.000	1.000
1.000	53.43	0.000	0.000	SAL_158_160_L_0							
84 D	2.757	-0.1177	134.3	53.65	134.3	79.71	ACTIVE	0.000	-4.150	1.500	1.000
1.000	53.65	0.000	0.000	SAL_158_160_L_0							
85 D	2.793	-0.1157	134.8	53.87	134.8	79.98	ACTIVE	0.000	-4.200	2.000	1.000
1.000	53.87	0.000	0.000	SAL_158_160_L_0							
86 D	2.829	-0.1136	135.2	54.08	135.2	80.24	ACTIVE	0.000	-4.250	2.500	1.000
1.000	54.08	0.000	0.000	SAL_158_160_L_0							
87 D	2.865	-0.1116	135.7	54.30	135.7	80.51	ACTIVE	0.000	-4.300	3.000	1.000
1.000	54.30	0.000	0.000	SAL_158_160_L_0							
88 D	2.901	-0.1096	136.1	54.52	136.1	80.78	ACTIVE	0.000	-4.350	3.500	1.000
1.000	54.52	0.000	0.000	SAL_158_160_L_0							
89 D	2.937	-0.1076	136.6	54.73	136.6	81.04	ACTIVE	0.000	-4.400	4.000	1.000
1.000	54.73	0.000	0.000	SAL_158_160_L_0							
90 D	2.972	-0.1056	137.0	54.95	137.0	81.31	ACTIVE	0.000	-4.450	4.500	1.000
1.000	54.95	0.000	0.000	SAL_158_160_L_0							
91 D	3.008	-0.1036	137.5	55.17	137.5	81.58	ACTIVE	0.000	-4.500	5.000	1.000
1.000	55.17	0.000	0.000	SAL_158_160_L_0							
92 D	3.044	-0.1017	137.9	55.38	137.9	81.85	ACTIVE	0.000	-4.550	5.500	1.000
1.000	55.38	0.000	0.000	SAL_158_160_L_0							
93 D	3.080	-9.9736E-02	138.4	55.60	138.4	82.11	ACTIVE	0.000	-4.600	6.000	1.000
1.000	55.60	0.000	0.000	SAL_158_160_L_0							
94 D	3.116	-9.7811E-02	138.9	55.82	138.9	82.38	ACTIVE	0.000	-4.650	6.500	1.000
1.000	55.82	0.000	0.000	SAL_158_160_L_0							
95 D	3.152	-9.5901E-02	139.3	56.03	139.3	82.65	ACTIVE	0.000	-4.700	7.000	1.000
1.000	56.03	0.000	0.000	SAL_158_160_L_0							
96 D	3.188	-9.4007E-02	139.8	56.25	139.8	82.91	ACTIVE	0.000	-4.750	7.500	1.000
1.000	56.25	0.000	0.000	SAL_158_160_L_0							
97 D	3.223	-9.2128E-02	140.2	56.47	140.2	83.17	ACTIVE	0.000	-4.800	8.000	1.000
1.000	56.47	0.000	0.000	SAL_158_160_L_0							
98 D	3.259	-9.0265E-02	140.6	56.69	140.6	83.43	ACTIVE	0.000	-4.850	8.500	1.000
1.000	56.69	0.000	0.000	SAL_158_160_L_0							
99 D	3.295	-8.8419E-02	141.1	56.90	141.1	83.69	ACTIVE	0.000	-4.900	9.000	1.000
1.000	56.90	0.000	0.000	SAL_158_160_L_0							
100 D	3.331	-8.6588E-02	141.6	57.12	141.6	83.95	ACTIVE	0.000	-4.950	9.500	1.000
1.000	57.12	0.000	0.000	SAL_158_160_L_0							
101 D	3.367	-8.4774E-02	142.0	57.34	142.0	84.21	ACTIVE	0.000	-5.000	10.00	1.000
1.000	57.34	0.000	0.000	SAL_158_160_L_0							
102 D	3.403	-8.2977E-02	142.5	57.55	142.5	84.47	ACTIVE	0.000	-5.050	10.50	1.000
1.000	57.55	0.000	0.000	SAL_158_160_L_0							
103 D	3.438	-8.1197E-02	142.9	57.77	142.9	84.73	ACTIVE	0.000	-5.100	11.00	1.000
1.000	57.77	0.000	0.000	SAL_158_160_L_0							
104 D	3.474	-7.9434E-02	143.4	57.99	143.4	84.99	ACTIVE	0.000	-5.150	11.50	1.000
1.000	57.99	0.000	0.000	SAL_158_160_L_0							
105 D	3.510	-7.7689E-02	143.8	58.20	143.8	85.25	ACTIVE	0.000	-5.200	12.00	1.000
1.000	58.20	0.000	0.000	SAL_158_160_L_0							
106 D	3.546	-7.5961E-02	144.3	58.42	144.3	85.51	ACTIVE	0.000	-5.250	12.50	1.000
1.000	58.42	0.000	0.000	SAL_158_160_L_0							
107 D	3.582	-7.4251E-02	144.7	58.64	144.7	85.77	ACTIVE	0.000	-5.300	13.00	1.000
1.000	58.64	0.000	0.000	SAL_158_160_L_0							
108 D	3.618	-7.2559E-02	145.2	58.85	145.2	86.03	ACTIVE	0.000	-5.350	13.50	1.000
1.000	58.85	0.000	0.000	SAL_158_160_L_0							
109 D	3.654	-7.0885E-02	145.6	59.07	145.6	86.29	ACTIVE	0.000	-5.400	14.00	1.000
1.000	59.07	0.000	0.000	SAL_158_160_L_0							

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LI00	01	D 09CL	VI0100 004	A	262 di 401

1.000		73.07	0.000	0.000	5AL_158_160_L_0						
110 D	3.689	-6.9229E-02	146.1	59.29	146.1	106.6	ACTIVE	0.000	-5.450	14.50	1.000
1.000		73.79	0.000	0.000	5AL_158_160_L_0						
111 D	3.725	-6.7592E-02	146.5	59.50	146.5	106.7	ACTIVE	0.000	-5.500	15.00	1.000
1.000		74.50	0.000	0.000	5AL_158_160_L_0						
112 D	3.761	-6.5974E-02	147.0	59.72	147.0	106.6	ACTIVE	0.000	-5.550	15.50	1.000
1.000		75.22	0.000	0.000	5AL_158_160_L_0						
113 D	3.797	-6.4374E-02	147.4	59.94	147.4	106.4	ACTIVE	0.000	-5.600	16.00	1.000
1.000		75.94	0.000	0.000	5AL_158_160_L_0						
114 D	3.833	-6.2794E-02	147.9	60.16	147.9	106.1	ACTIVE	0.000	-5.650	16.50	1.000
1.000		76.66	0.000	0.000	5AL_158_160_L_0						
115 D	3.869	-6.1233E-02	148.3	60.37	148.3	105.7	ACTIVE	0.000	-5.700	17.00	1.000
1.000		77.37	0.000	0.000	5AL_158_160_L_0						
116 D	3.904	-5.9691E-02	148.8	60.59	148.8	105.2	ACTIVE	0.000	-5.750	17.50	1.000
1.000		78.09	0.000	0.000	5AL_158_160_L_0						
117 D	3.940	-5.8168E-02	149.2	60.81	149.2	104.6	ACTIVE	0.000	-5.800	18.00	1.000
1.000		78.81	0.000	0.000	5AL_158_160_L_0						
118 D	3.976	-5.6665E-02	149.7	61.02	149.7	103.9	ACTIVE	0.000	-5.850	18.50	1.000
1.000		79.52	0.000	0.000	5AL_158_160_L_0						
119 D	4.012	-5.5182E-02	150.1	61.24	150.1	103.2	ACTIVE	0.000	-5.900	19.00	1.000
1.000		80.24	0.000	0.000	5AL_158_160_L_0						
120 D	4.048	-5.3719E-02	150.6	61.46	150.6	102.4	ACTIVE	0.000	-5.950	19.50	1.000
1.000		80.96	0.000	0.000	5AL_158_160_L_0						
121 D	4.084	-5.2275E-02	151.0	61.67	151.0	103.9	ACTIVE	0.000	-6.000	20.00	1.000
1.000		81.67	0.000	0.000	5AL_158_160_L_0						
122 D	4.120	-5.0852E-02	151.5	61.89	151.5	105.1	ACTIVE	0.000	-6.050	20.50	1.000
1.000		82.39	0.000	0.000	5AL_158_160_L_0						
123 D	4.155	-4.9449E-02	151.9	62.11	151.9	106.0	ACTIVE	0.000	-6.100	21.00	1.000
1.000		83.11	0.000	0.000	5AL_158_160_L_0						
124 D	4.191	-4.8066E-02	152.4	62.32	152.4	106.7	ACTIVE	0.000	-6.150	21.50	1.000
1.000		83.82	0.000	0.000	5AL_158_160_L_0						
125 D	4.227	-4.6703E-02	152.8	62.54	152.8	107.1	ACTIVE	0.000	-6.200	22.00	1.000
1.000		84.54	0.000	0.000	5AL_158_160_L_0						
126 D	4.263	-4.5361E-02	153.3	62.76	153.3	107.3	ACTIVE	0.000	-6.250	22.50	1.000
1.000		85.26	0.000	0.000	5AL_158_160_L_0						
127 D	4.299	-4.4039E-02	153.7	62.98	153.7	107.3	ACTIVE	0.000	-6.300	23.00	1.000
1.000		85.98	0.000	0.000	5AL_158_160_L_0						
128 D	4.335	-4.2738E-02	154.2	63.19	154.2	107.2	ACTIVE	0.000	-6.350	23.50	1.000
1.000		86.69	0.000	0.000	5AL_158_160_L_0						
129 D	4.370	-4.1457E-02	154.6	63.41	154.6	106.8	ACTIVE	0.000	-6.400	24.00	1.000
1.000		87.41	0.000	0.000	5AL_158_160_L_0						
130 D	4.406	-4.0197E-02	155.1	63.63	155.1	106.4	ACTIVE	0.000	-6.450	24.50	1.000
1.000		88.13	0.000	0.000	5AL_158_160_L_0						
131 D	4.442	-3.8958E-02	155.5	63.84	155.5	107.4	ACTIVE	0.000	-6.500	25.00	1.000
1.000		88.84	0.000	0.000	5AL_158_160_L_0						
132 D	4.478	-3.7739E-02	156.0	64.06	156.0	112.1	ACTIVE	0.000	-6.550	25.50	1.000
1.000		89.56	0.000	0.000	5AL_158_160_L_0						
133 D	4.514	-3.6541E-02	156.4	64.28	156.4	116.1	ACTIVE	0.000	-6.600	26.00	1.000
1.000		90.28	0.000	0.000	5AL_158_160_L_0						
134 D	4.550	-3.5364E-02	156.9	64.49	156.9	119.6	ACTIVE	0.000	-6.650	26.50	1.000
1.000		90.99	0.000	0.000	5AL_158_160_L_0						
135 D	4.586	-3.4207E-02	157.3	64.71	157.3	122.4	ACTIVE	0.000	-6.700	27.00	1.000
1.000		91.71	0.000	0.000	5AL_158_160_L_0						
136 D	4.621	-3.3072E-02	157.8	64.93	157.8	124.7	ACTIVE	0.000	-6.750	27.50	1.000
1.000		92.43	0.000	0.000	5AL_158_160_L_0						
137 D	4.657	-3.1957E-02	158.2	65.14	158.2	126.5	ACTIVE	0.000	-6.800	28.00	1.000
1.000		93.14	0.000	0.000	5AL_158_160_L_0						
138 D	4.693	-3.0862E-02	158.7	65.36	158.7	127.9	ACTIVE	0.000	-6.850	28.50	1.000
1.000		93.86	0.000	0.000	5AL_158_160_L_0						
139 D	4.729	-2.9789E-02	159.1	65.58	159.1	128.8	ACTIVE	0.000	-6.900	29.00	1.000
1.000		94.58	0.000	0.000	5AL_158_160_L_0						
140 D	4.765	-2.8736E-02	159.6	65.79	159.6	129.4	ACTIVE	0.000	-6.950	29.50	1.000
1.000		95.30	0.000	0.000	5AL_158_160_L_0						
141 D	4.801	-2.7703E-02	160.0	66.01	160.0	129.6	ACTIVE	0.000	-7.000	30.00	1.000
1.000		96.01	0.000	0.000	5AL_158_160_L_0						
142 D	4.836	-2.6691E-02	160.5	66.23	160.5	129.6	ACTIVE	0.000	-7.050	30.50	1.000
1.000		96.73	0.000	0.000	5AL_158_160_L_0						
143 D	4.872	-2.5700E-02	160.9	66.45	160.9	129.2	ACTIVE	0.000	-7.100	31.00	1.000
1.000		97.45	0.000	0.000	5AL_158_160_L_0						
144 D	4.908	-2.4728E-02	161.4	66.66	161.4	128.6	ACTIVE	0.000	-7.150	31.50	1.000
1.000		98.16	0.000	0.000	5AL_158_160_L_0						
145 D	4.944	-2.3777E-02	161.8	66.88	161.8	127.9	ACTIVE	0.000	-7.200	32.00	1.000
1.000		98.88	0.000	0.000	5AL_158_160_L_0						
146 D	4.980	-2.2847E-02	162.3	67.10	162.3	126.9	ACTIVE	0.000	-7.250	32.50	1.000
1.000		99.60	0.000	0.000	5AL_158_160_L_0						
147 D	5.016	-2.1936E-02	162.7	67.31	162.7	125.8	ACTIVE	0.000	-7.300	33.00	1.000
1.000		100.3	0.000	0.000	5AL_158_160_L_0						
148 D	5.052	-2.1045E-02	163.2	67.53	163.2	124.5	ACTIVE	0.000	-7.350	33.50	1.000
1.000		101.0	0.000	0.000	5AL_158_160_L_0						
149 D	5.087	-2.0174E-02	163.6	67.75	163.6	123.1	ACTIVE	0.000	-7.400	34.00	1.000
1.000		101.7	0.000	0.000	5AL_158_160_L_0						

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COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	263 di 401

150 D	5.123	-1.9323E-02	164.1	67.96	164.1	125.2	ACTIVE	0.000	-7.450	34.50	1.000
1.000	102.5	0.000	0.000	5AL_158_160_L_0							
151 D	5.159	-1.8491E-02	164.5	68.18	164.5	128.0	ACTIVE	0.000	-7.500	35.00	1.000
1.000	103.2	0.000	0.000	5AL_158_160_L_0							
152 D	5.195	-1.7679E-02	165.0	68.40	165.0	130.3	ACTIVE	0.000	-7.550	35.50	1.000
1.000	103.9	0.000	0.000	5AL_158_160_L_0							
153 D	5.231	-1.6886E-02	165.4	68.61	165.4	132.2	ACTIVE	0.000	-7.600	36.00	1.000
1.000	104.6	0.000	0.000	5AL_158_160_L_0							
154 D	5.267	-1.6112E-02	165.9	68.83	165.9	133.6	ACTIVE	0.000	-7.650	36.50	1.000
1.000	105.3	0.000	0.000	5AL_158_160_L_0							
155 D	5.302	-1.5356E-02	166.3	69.05	166.3	134.5	ACTIVE	0.000	-7.700	37.00	1.000
1.000	106.0	0.000	0.000	5AL_158_160_L_0							
156 D	5.338	-1.4620E-02	166.8	69.27	166.8	135.4	ACTIVE	0.000	-7.750	37.50	1.000
1.000	106.8	0.000	0.000	5AL_158_160_L_0							
157 D	5.374	-1.3901E-02	167.2	69.48	167.2	136.0	ACTIVE	0.000	-7.800	38.00	1.000
1.000	107.5	0.000	0.000	5AL_158_160_L_0							
158 D	5.410	-1.3201E-02	167.7	69.70	167.7	136.3	ACTIVE	0.000	-7.850	38.50	1.000
1.000	108.2	0.000	0.000	5AL_158_160_L_0							
159 D	5.446	-1.2518E-02	168.1	69.92	168.1	136.2	ACTIVE	0.000	-7.900	39.00	1.000
1.000	108.9	0.000	0.000	5AL_158_160_L_0							
160 D	5.482	-1.1854E-02	168.6	70.13	168.6	135.9	ACTIVE	0.000	-7.950	39.50	1.000
1.000	109.6	0.000	0.000	5AL_158_160_L_0							
161 D	5.517	-1.1206E-02	169.0	70.35	169.0	135.3	ACTIVE	0.000	-8.000	40.00	1.000
1.000	110.3	0.000	0.000	5AL_158_160_L_0							
162 D	5.553	-1.0576E-02	169.5	70.57	169.5	134.6	ACTIVE	0.000	-8.050	40.50	1.000
1.000	111.1	0.000	0.000	5AL_158_160_L_0							
163 D	5.589	-9.9628E-03	169.9	70.78	169.9	134.6	ACTIVE	0.000	-8.100	41.00	1.000
1.000	111.8	0.000	0.000	5AL_158_160_L_0							
164 D	5.625	-9.3659E-03	170.4	71.00	170.4	138.4	ACTIVE	0.000	-8.150	41.50	1.000
1.000	112.5	0.000	0.000	5AL_158_160_L_0							
165 D	5.661	-8.7852E-03	170.8	71.22	170.8	141.5	ACTIVE	0.000	-8.200	42.00	1.000
1.000	113.2	0.000	0.000	5AL_158_160_L_0							
166 D	5.697	-8.2203E-03	171.3	71.43	171.3	144.0	ACTIVE	0.000	-8.250	42.50	1.000
1.000	113.9	0.000	0.000	5AL_158_160_L_0							
167 D	5.733	-7.6710E-03	171.7	71.65	171.7	146.0	ACTIVE	0.000	-8.300	43.00	1.000
1.000	114.7	0.000	0.000	5AL_158_160_L_0							
168 D	5.768	-7.1369E-03	172.2	71.87	172.2	147.4	ACTIVE	0.000	-8.350	43.50	1.000
1.000	115.4	0.000	0.000	5AL_158_160_L_0							
169 D	5.804	-6.6175E-03	172.6	72.09	172.6	148.4	ACTIVE	0.000	-8.400	44.00	1.000
1.000	116.1	0.000	0.000	5AL_158_160_L_0							
170 D	5.840	-6.1126E-03	173.1	72.30	173.1	148.9	ACTIVE	0.000	-8.450	44.50	1.000
1.000	116.8	0.000	0.000	5AL_158_160_L_0							
171 D	5.876	-5.6217E-03	173.5	72.52	173.5	149.1	ACTIVE	0.000	-8.500	45.00	1.000
1.000	117.5	0.000	0.000	5AL_158_160_L_0							
172 D	5.912	-5.1445E-03	174.0	72.74	174.0	148.9	ACTIVE	0.000	-8.550	45.50	1.000
1.000	118.2	0.000	0.000	5AL_158_160_L_0							
173 D	5.948	-4.6804E-03	174.4	72.95	174.4	148.3	ACTIVE	0.000	-8.600	46.00	1.000
1.000	119.0	0.000	0.000	5AL_158_160_L_0							
174 D	5.983	-4.2292E-03	174.9	73.17	174.9	147.5	ACTIVE	0.000	-8.650	46.50	1.000
1.000	119.7	0.000	0.000	5AL_158_160_L_0							
175 D	6.019	-3.7902E-03	175.3	73.39	175.3	146.4	ACTIVE	0.000	-8.700	47.00	1.000
1.000	120.4	0.000	0.000	5AL_158_160_L_0							
176 D	6.055	-3.3631E-03	175.8	73.60	175.8	145.1	ACTIVE	0.000	-8.750	47.50	1.000
1.000	121.1	0.000	0.000	5AL_158_160_L_0							
177 D	6.091	-2.9474E-03	176.2	73.82	176.2	145.4	ACTIVE	0.000	-8.800	48.00	1.000
1.000	121.8	0.000	0.000	5AL_158_160_L_0							
178 D	6.127	-2.5426E-03	176.7	74.04	176.7	147.7	ACTIVE	0.000	-8.850	48.50	1.000
1.000	122.5	0.000	0.000	5AL_158_160_L_0							
179 D	6.163	-2.1481E-03	177.1	74.25	177.1	149.4	ACTIVE	0.000	-8.900	49.00	1.000
1.000	123.3	0.000	0.000	5AL_158_160_L_0							
180 D	6.199	-1.7636E-03	177.6	74.47	177.6	152.7	ACTIVE	0.000	-8.950	49.50	1.000
1.000	124.0	0.000	0.000	5AL_158_160_L_0							
181 D	6.234	-1.3883E-03	178.0	74.69	178.0	161.8	ACTIVE	0.000	-9.000	50.00	1.000
1.000	124.7	0.000	0.000	5AL_158_160_L_0							
182 D	6.270	-1.0219E-03	178.5	74.90	178.5	170.5	ACTIVE	0.000	-9.050	50.50	1.000
1.000	125.4	0.000	0.000	5AL_158_160_L_0							
183 D	6.306	-6.6362E-04	178.9	75.12	178.9	178.7	ACTIVE	0.000	-9.100	51.00	1.000
1.000	126.1	0.000	0.000	5AL_158_160_L_0							
184 D	6.342	-3.1302E-04	179.4	75.34	179.4	186.9	ACTIVE	0.000	-9.150	51.50	1.000
1.000	126.8	0.000	0.000	5AL_158_160_L_0							
185 D	6.378	3.0528E-05	179.8	75.56	179.8	194.8	ACTIVE	0.000	-9.200	52.00	1.000
1.000	127.6	0.000	0.000	5AL_158_160_L_0							
186 D	7.311	3.6763E-04	180.3	93.72	180.3	202.3	UL-RL	1.3504E+05	-9.250	52.50	1.000
1.000	146.2	0.000	0.000	5AL_158_160_L_0							
187 D	9.424	6.9889E-04	180.7	135.5	180.7	209.4	UL-RL	1.3504E+05	-9.300	53.00	1.000
1.000	188.5	0.000	0.000	5AL_158_160_L_0							
188 D	11.41	1.0249E-03	181.2	174.8	181.2	219.4	UL-RL	1.3504E+05	-9.350	53.50	1.000
1.000	228.3	0.000	0.000	5AL_158_160_L_0							
189 D	13.21	1.3464E-03	181.6	210.2	181.6	234.8	UL-RL	1.3504E+05	-9.400	54.00	1.000
1.000	264.2	0.000	0.000	5AL_158_160_L_0							
190 D	14.77	1.6637E-03	182.1	241.0	182.1	257.0	UL-RL	1.3504E+05	-9.450	54.50	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	264 di 401

1.000	295.5	0.000	0.000	5AL_158_160_L_0							
191 D	16.32	1.9776E-03	182.5	271.4	182.5	278.9	UL-RL	1.3504E+05	-9.500	55.00	1.000
1.000	326.4	0.000	0.000	5AL_158_160_L_0							
192 D	17.83	2.2886E-03	183.0	301.2	183.0	301.3	UL-RL	1.3504E+05	-9.550	55.50	1.000
1.000	356.7	0.000	0.000	5AL_158_160_L_0							
193 D	19.20	2.5972E-03	183.4	328.0	183.4	328.0	V-C	8.4400E+04	-9.600	56.00	1.000
1.000	384.0	0.000	0.000	5AL_158_160_L_0							
194 D	20.56	2.9038E-03	183.9	354.6	183.9	354.6	V-C	8.4400E+04	-9.650	56.50	1.000
1.000	411.1	0.000	0.000	5AL_158_160_L_0							
195 D	21.90	3.2089E-03	184.3	381.1	184.3	381.1	V-C	8.4400E+04	-9.700	57.00	1.000
1.000	438.1	0.000	0.000	5AL_158_160_L_0							
196 D	23.28	3.5129E-03	184.8	408.2	184.8	408.2	V-C	8.4400E+04	-9.750	57.50	1.000
1.000	465.7	0.000	0.000	5AL_158_160_L_0							
197 D	24.68	3.8160E-03	185.2	435.7	185.2	435.7	V-C	8.4400E+04	-9.800	58.00	1.000
1.000	493.7	0.000	0.000	5AL_158_160_L_0							
198 D	26.08	4.1186E-03	185.7	463.1	185.7	463.1	V-C	8.4400E+04	-9.850	58.50	1.000
1.000	521.6	0.000	0.000	5AL_158_160_L_0							
199 D	27.48	4.4209E-03	186.1	490.5	186.1	490.5	V-C	8.4400E+04	-9.900	59.00	1.000
1.000	549.5	0.000	0.000	5AL_158_160_L_0							
200 D	28.86	4.7230E-03	186.6	517.9	186.6	517.9	PASSIVE	0.000	-9.950	59.50	1.000
1.000	577.4	0.000	0.000	5AL_158_160_L_0							
201 D	14.47	5.0250E-03	187.0	519.1	187.0	519.1	PASSIVE	0.000	-10.00	60.00	1.000
1.000	579.1	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A2M2R1_956
Exe Time :21 June 2016 11:57:46

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
UFACTOR	Peq	Su_a	Su_p	LAYER							
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-5.0000E-02	0.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.1000	0.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.1500	0.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.2000	0.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.2500	0.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.3000	0.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.3500	0.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.4000	0.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.4500	0.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.5000	0.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.5500	0.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.6000	0.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.6500	0.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.7000	0.000	1.000
15	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--	-0.7500	0.000	1.000
16	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	--	--	REMOVED	--			

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	265 di 401

17	0.000	--	--	--	REMOVED	--	-0.8000	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-0.8500	0.000	1.000
18	0.000	--	--	--	REMOVED	--	-0.9000	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-0.9500	0.000	1.000
19	0.000	--	--	--	REMOVED	--	-1.000	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-1.050	0.000	1.000
20	0.000	--	--	--	REMOVED	--	-1.100	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-1.150	0.000	1.000
21	0.000	--	--	--	REMOVED	--	-1.200	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-1.250	0.000	1.000
22	0.000	--	--	--	REMOVED	--	-1.300	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-1.350	0.000	1.000
23	0.000	--	--	--	REMOVED	--	-1.400	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-1.450	0.000	1.000
24	0.000	--	--	--	REMOVED	--	-1.500	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-1.550	0.000	1.000
25	0.000	--	--	--	REMOVED	--	-1.600	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-1.650	0.000	1.000
26	0.000	--	--	--	REMOVED	--	-1.700	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-1.750	0.000	1.000
27	0.000	--	--	--	REMOVED	--	-1.800	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-1.850	0.000	1.000
28	0.000	--	--	--	REMOVED	--	-1.900	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-1.950	0.000	1.000
29	0.000	--	--	--	REMOVED	--	-2.000	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-2.050	0.000	1.000
30	0.000	--	--	--	REMOVED	--	-2.100	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-2.150	0.000	1.000
31	0.000	--	--	--	REMOVED	--	-2.200	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-2.250	0.000	1.000
32	0.000	--	--	--	REMOVED	--	-2.300	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-2.350	0.000	1.000
33	0.000	--	--	--	REMOVED	--	-2.400	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-2.450	0.000	1.000
34	0.000	--	--	--	REMOVED	--	-2.500	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-2.550	0.000	1.000
35	0.000	--	--	--	REMOVED	--	-2.600	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-2.650	0.000	1.000
36	0.000	--	--	--	REMOVED	--	-2.700	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--	-2.750	0.000	1.000
37	0.000	--	--	--	REMOVED	--	-2.800	0.000	1.000
1.000	0.000	0.000	0.000	not available	REMOVED	--			
38	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
39	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
40	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
41	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
42	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
43	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
44	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
45	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
46	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
47	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
48	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
49	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
50	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
51	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
52	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
53	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
54	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
55	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
56	0.000	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	not available	REMOVED	--			
57	0.000	--	--	--	REMOVED	--			

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	266 di 401

1.000	0.000	0.000	0.000	not available							
58	0.000	--	--	--	--	REMOVED	--	-2.850	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
59	0.000	--	--	--	--	REMOVED	--	-2.900	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
60	0.000	--	--	--	--	REMOVED	--	-2.950	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
61	0.000	--	--	--	--	REMOVED	--	-3.000	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
62	0.000	--	--	--	--	REMOVED	--	-3.050	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
63	0.000	--	--	--	--	REMOVED	--	-3.100	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
64	0.000	--	--	--	--	REMOVED	--	-3.150	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
65	0.000	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
66 D	1.424	0.1565	0.9500	28.49	61.75	49.35	PASSIVE	0.000	-3.250	0.000	1.000
1.000	28.49	0.000	0.000	5AL_158_160_L_0							
67 D	1.550	0.1542	1.900	30.99	62.70	49.91	PASSIVE	0.000	-3.300	0.000	1.000
1.000	30.99	0.000	0.000	5AL_158_160_L_0							
68 D	1.675	0.1520	2.850	33.50	63.65	50.48	PASSIVE	0.000	-3.350	0.000	1.000
1.000	33.50	0.000	0.000	5AL_158_160_L_0							
69 D	1.800	0.1498	3.800	36.00	64.60	51.04	PASSIVE	0.000	-3.400	0.000	1.000
1.000	36.00	0.000	0.000	5AL_158_160_L_0							
70 D	1.925	0.1476	4.750	38.51	65.55	51.61	PASSIVE	0.000	-3.450	0.000	1.000
1.000	38.51	0.000	0.000	5AL_158_160_L_0							
71 D	2.051	0.1454	5.700	41.01	66.50	52.17	PASSIVE	0.000	-3.500	0.000	1.000
1.000	41.01	0.000	0.000	5AL_158_160_L_0							
72 D	2.176	0.1432	6.650	43.52	67.45	52.73	PASSIVE	0.000	-3.550	0.000	1.000
1.000	43.52	0.000	0.000	5AL_158_160_L_0							
73 D	2.301	0.1410	7.600	46.02	68.40	53.30	PASSIVE	0.000	-3.600	0.000	1.000
1.000	46.02	0.000	0.000	5AL_158_160_L_0							
74 D	2.426	0.1388	8.550	48.53	69.35	53.86	PASSIVE	0.000	-3.650	0.000	1.000
1.000	48.53	0.000	0.000	5AL_158_160_L_0							
75 D	2.552	0.1367	9.500	51.03	70.30	54.42	PASSIVE	0.000	-3.700	0.000	1.000
1.000	51.03	0.000	0.000	5AL_158_160_L_0							
76 D	2.677	0.1345	10.45	53.54	71.25	54.99	PASSIVE	0.000	-3.750	0.000	1.000
1.000	53.54	0.000	0.000	5AL_158_160_L_0							
77 D	2.802	0.1324	11.40	56.04	72.20	56.04	PASSIVE	0.000	-3.800	0.000	1.000
1.000	56.04	0.000	0.000	5AL_158_160_L_0							
78 D	2.927	0.1303	12.35	58.55	73.15	56.55	PASSIVE	0.000	-3.850	0.000	1.000
1.000	58.55	0.000	0.000	5AL_158_160_L_0							
79 D	3.053	0.1281	13.30	61.05	74.10	61.05	PASSIVE	0.000	-3.900	0.000	1.000
1.000	61.05	0.000	0.000	5AL_158_160_L_0							
80 D	3.178	0.1260	14.25	63.56	75.05	63.56	PASSIVE	0.000	-3.950	0.000	1.000
1.000	63.56	0.000	0.000	5AL_158_160_L_0							
81 D	3.303	0.1239	15.20	66.06	76.00	66.06	PASSIVE	0.000	-4.000	0.000	1.000
1.000	66.06	0.000	0.000	5AL_158_160_L_0							
82 D	3.388	0.1218	15.65	67.25	76.45	67.25	PASSIVE	0.000	-4.050	0.5000	1.000
1.000	67.25	0.000	0.000	5AL_158_160_L_0							
83 D	3.472	0.1198	16.10	68.44	76.90	68.44	PASSIVE	0.000	-4.100	1.000	1.000
1.000	68.44	0.000	0.000	5AL_158_160_L_0							
84 D	3.556	0.1177	16.55	69.62	77.35	69.62	PASSIVE	0.000	-4.150	1.500	1.000
1.000	71.12	0.000	0.000	5AL_158_160_L_0							
85 D	3.641	0.1157	17.00	70.81	77.80	70.81	PASSIVE	0.000	-4.200	2.000	1.000
1.000	72.81	0.000	0.000	5AL_158_160_L_0							
86 D	3.725	0.1136	17.45	72.00	78.25	72.00	PASSIVE	0.000	-4.250	2.500	1.000
1.000	74.50	0.000	0.000	5AL_158_160_L_0							
87 D	3.809	0.1116	17.90	73.18	78.70	73.18	PASSIVE	0.000	-4.300	3.000	1.000
1.000	76.18	0.000	0.000	5AL_158_160_L_0							
88 D	3.894	0.1096	18.35	74.37	79.15	74.37	PASSIVE	0.000	-4.350	3.500	1.000
1.000	77.87	0.000	0.000	5AL_158_160_L_0							
89 D	3.978	0.1076	18.80	75.56	79.60	75.56	PASSIVE	0.000	-4.400	4.000	1.000
1.000	79.56	0.000	0.000	5AL_158_160_L_0							
90 D	4.062	0.1056	19.25	76.74	80.05	76.74	PASSIVE	0.000	-4.450	4.500	1.000
1.000	81.24	0.000	0.000	5AL_158_160_L_0							
91 D	4.147	0.1036	19.70	77.93	80.50	77.93	PASSIVE	0.000	-4.500	5.000	1.000
1.000	82.93	0.000	0.000	5AL_158_160_L_0							
92 D	4.231	0.1017	20.15	79.12	80.95	79.12	PASSIVE	0.000	-4.550	5.500	1.000
1.000	84.62	0.000	0.000	5AL_158_160_L_0							
93 D	4.315	9.9736E-02	20.60	80.30	81.40	80.30	PASSIVE	0.000	-4.600	6.000	1.000
1.000	86.30	0.000	0.000	5AL_158_160_L_0							
94 D	4.400	9.7811E-02	21.05	81.49	81.85	81.49	PASSIVE	0.000	-4.650	6.500	1.000
1.000	87.99	0.000	0.000	5AL_158_160_L_0							
95 D	4.484	9.5901E-02	21.50	82.68	82.30	82.68	PASSIVE	0.000	-4.700	7.000	1.000
1.000	89.68	0.000	0.000	5AL_158_160_L_0							
96 D	4.568	9.4007E-02	21.95	83.86	82.75	83.86	PASSIVE	0.000	-4.750	7.500	1.000
1.000	91.36	0.000	0.000	5AL_158_160_L_0							
97 D	4.653	9.2128E-02	22.40	85.05	83.20	85.05	PASSIVE	0.000	-4.800	8.000	1.000
1.000	93.05	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	267 di 401

98 D	4.737	9.0265E-02	22.85	86.24	83.65	86.24	PASSIVE	0.000	-4.850	8.500	1.000
1.000	94.74	0.000	0.000	5AL_158_160_L_0							
99 D	4.821	8.8419E-02	23.30	87.42	84.10	87.42	PASSIVE	0.000	-4.900	9.000	1.000
1.000	96.42	0.000	0.000	5AL_158_160_L_0							
100 D	4.906	8.6588E-02	23.75	88.61	84.55	88.61	PASSIVE	0.000	-4.950	9.500	1.000
1.000	98.11	0.000	0.000	5AL_158_160_L_0							
101 D	4.990	8.4774E-02	24.20	89.80	85.00	89.80	PASSIVE	0.000	-5.000	10.00	1.000
1.000	99.80	0.000	0.000	5AL_158_160_L_0							
102 D	5.074	8.2977E-02	24.65	90.98	85.45	90.98	PASSIVE	0.000	-5.050	10.50	1.000
1.000	101.5	0.000	0.000	5AL_158_160_L_0							
103 D	5.159	8.1197E-02	25.10	92.17	85.90	92.17	PASSIVE	0.000	-5.100	11.00	1.000
1.000	103.2	0.000	0.000	5AL_158_160_L_0							
104 D	5.243	7.9434E-02	25.55	93.36	86.35	93.36	PASSIVE	0.000	-5.150	11.50	1.000
1.000	104.9	0.000	0.000	5AL_158_160_L_0							
105 D	5.327	7.7689E-02	26.00	94.54	86.80	94.54	PASSIVE	0.000	-5.200	12.00	1.000
1.000	106.5	0.000	0.000	5AL_158_160_L_0							
106 D	5.412	7.5961E-02	26.45	95.73	87.25	95.73	PASSIVE	0.000	-5.250	12.50	1.000
1.000	108.2	0.000	0.000	5AL_158_160_L_0							
107 D	5.496	7.4251E-02	26.90	96.92	87.70	96.92	PASSIVE	0.000	-5.300	13.00	1.000
1.000	109.9	0.000	0.000	5AL_158_160_L_0							
108 D	5.580	7.2559E-02	27.35	98.10	88.15	98.10	PASSIVE	0.000	-5.350	13.50	1.000
1.000	111.6	0.000	0.000	5AL_158_160_L_0							
109 D	5.665	7.0885E-02	27.80	99.29	88.60	99.29	PASSIVE	0.000	-5.400	14.00	1.000
1.000	113.3	0.000	0.000	5AL_158_160_L_0							
110 D	5.749	6.9229E-02	28.25	100.5	89.05	100.5	PASSIVE	0.000	-5.450	14.50	1.000
1.000	115.0	0.000	0.000	5AL_158_160_L_0							
111 D	5.833	6.7592E-02	28.70	101.7	89.50	101.7	PASSIVE	0.000	-5.500	15.00	1.000
1.000	116.7	0.000	0.000	5AL_158_160_L_0							
112 D	5.918	6.5974E-02	29.15	102.9	89.95	102.9	PASSIVE	0.000	-5.550	15.50	1.000
1.000	118.4	0.000	0.000	5AL_158_160_L_0							
113 D	6.002	6.4374E-02	29.60	104.0	90.40	104.0	PASSIVE	0.000	-5.600	16.00	1.000
1.000	120.0	0.000	0.000	5AL_158_160_L_0							
114 D	6.086	6.2794E-02	30.05	105.2	90.85	105.2	PASSIVE	0.000	-5.650	16.50	1.000
1.000	121.7	0.000	0.000	5AL_158_160_L_0							
115 D	6.171	6.1233E-02	30.50	106.4	91.30	106.4	PASSIVE	0.000	-5.700	17.00	1.000
1.000	123.4	0.000	0.000	5AL_158_160_L_0							
116 D	6.255	5.9691E-02	30.95	107.6	91.75	107.6	PASSIVE	0.000	-5.750	17.50	1.000
1.000	125.1	0.000	0.000	5AL_158_160_L_0							
117 D	6.339	5.8168E-02	31.40	108.8	92.20	108.8	PASSIVE	0.000	-5.800	18.00	1.000
1.000	126.8	0.000	0.000	5AL_158_160_L_0							
118 D	6.424	5.6665E-02	31.85	110.0	92.65	110.0	PASSIVE	0.000	-5.850	18.50	1.000
1.000	128.5	0.000	0.000	5AL_158_160_L_0							
119 D	6.508	5.5182E-02	32.30	111.2	93.10	111.2	PASSIVE	0.000	-5.900	19.00	1.000
1.000	130.2	0.000	0.000	5AL_158_160_L_0							
120 D	6.592	5.3719E-02	32.75	112.3	93.55	112.3	PASSIVE	0.000	-5.950	19.50	1.000
1.000	131.8	0.000	0.000	5AL_158_160_L_0							
121 D	6.677	5.2275E-02	33.20	113.5	94.00	113.5	PASSIVE	0.000	-6.000	20.00	1.000
1.000	133.5	0.000	0.000	5AL_158_160_L_0							
122 D	6.761	5.0852E-02	33.65	114.7	94.45	114.7	PASSIVE	0.000	-6.050	20.50	1.000
1.000	135.2	0.000	0.000	5AL_158_160_L_0							
123 D	6.845	4.9449E-02	34.10	115.9	94.90	115.9	PASSIVE	0.000	-6.100	21.00	1.000
1.000	136.9	0.000	0.000	5AL_158_160_L_0							
124 D	6.930	4.8066E-02	34.55	117.1	95.35	117.1	PASSIVE	0.000	-6.150	21.50	1.000
1.000	138.6	0.000	0.000	5AL_158_160_L_0							
125 D	7.014	4.6703E-02	35.00	118.3	95.80	118.3	PASSIVE	0.000	-6.200	22.00	1.000
1.000	140.3	0.000	0.000	5AL_158_160_L_0							
126 D	7.098	4.5361E-02	35.45	119.5	96.25	119.5	PASSIVE	0.000	-6.250	22.50	1.000
1.000	142.0	0.000	0.000	5AL_158_160_L_0							
127 D	7.183	4.4039E-02	35.90	120.7	96.70	120.7	PASSIVE	0.000	-6.300	23.00	1.000
1.000	143.7	0.000	0.000	5AL_158_160_L_0							
128 D	7.267	4.2738E-02	36.35	121.8	97.15	121.8	PASSIVE	0.000	-6.350	23.50	1.000
1.000	145.3	0.000	0.000	5AL_158_160_L_0							
129 D	7.351	4.1457E-02	36.80	123.0	97.60	123.0	PASSIVE	0.000	-6.400	24.00	1.000
1.000	147.0	0.000	0.000	5AL_158_160_L_0							
130 D	7.436	4.0197E-02	37.25	124.2	98.05	124.2	PASSIVE	0.000	-6.450	24.50	1.000
1.000	148.7	0.000	0.000	5AL_158_160_L_0							
131 D	7.520	3.8958E-02	37.70	125.4	98.50	125.4	PASSIVE	0.000	-6.500	25.00	1.000
1.000	150.4	0.000	0.000	5AL_158_160_L_0							
132 D	7.604	3.7739E-02	38.15	126.6	98.95	126.6	PASSIVE	0.000	-6.550	25.50	1.000
1.000	152.1	0.000	0.000	5AL_158_160_L_0							
133 D	7.689	3.6541E-02	38.60	127.8	99.40	127.8	PASSIVE	0.000	-6.600	26.00	1.000
1.000	153.8	0.000	0.000	5AL_158_160_L_0							
134 D	7.773	3.5364E-02	39.05	129.0	99.85	129.0	PASSIVE	0.000	-6.650	26.50	1.000
1.000	155.5	0.000	0.000	5AL_158_160_L_0							
135 D	7.857	3.4207E-02	39.50	130.1	100.3	130.1	PASSIVE	0.000	-6.700	27.00	1.000
1.000	157.1	0.000	0.000	5AL_158_160_L_0							
136 D	7.942	3.3072E-02	39.95	131.3	100.8	131.3	PASSIVE	0.000	-6.750	27.50	1.000
1.000	158.8	0.000	0.000	5AL_158_160_L_0							
137 D	8.026	3.1957E-02	40.40	132.5	101.2	132.5	PASSIVE	0.000	-6.800	28.00	1.000
1.000	160.5	0.000	0.000	5AL_158_160_L_0							
138 D	8.110	3.0862E-02	40.85	133.7	101.7	133.7	PASSIVE	0.000	-6.850	28.50	1.000

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	268 di 401

1.000	162.2	0.000	0.000	SAL_158_160_L_0							
139 D	8.195	2.9789E-02	41.30	134.9	102.1	134.9	PASSIVE	0.000	-6.900	29.00	1.000
1.000	163.9	0.000	0.000	SAL_158_160_L_0							
140 D	8.279	2.8736E-02	41.75	136.1	102.6	136.1	PASSIVE	0.000	-6.950	29.50	1.000
1.000	165.6	0.000	0.000	SAL_158_160_L_0							
141 D	8.363	2.7703E-02	42.20	137.3	103.0	137.3	PASSIVE	0.000	-7.000	30.00	1.000
1.000	167.3	0.000	0.000	SAL_158_160_L_0							
142 D	8.448	2.6691E-02	42.65	138.5	103.5	138.5	PASSIVE	0.000	-7.050	30.50	1.000
1.000	169.0	0.000	0.000	SAL_158_160_L_0							
143 D	8.532	2.5700E-02	43.10	139.6	103.9	139.6	PASSIVE	0.000	-7.100	31.00	1.000
1.000	170.6	0.000	0.000	SAL_158_160_L_0							
144 D	8.616	2.4728E-02	43.55	140.8	104.4	140.8	PASSIVE	0.000	-7.150	31.50	1.000
1.000	172.3	0.000	0.000	SAL_158_160_L_0							
145 D	8.701	2.3777E-02	44.00	142.0	104.8	142.0	PASSIVE	0.000	-7.200	32.00	1.000
1.000	174.0	0.000	0.000	SAL_158_160_L_0							
146 D	8.785	2.2847E-02	44.45	143.2	105.3	143.2	PASSIVE	0.000	-7.250	32.50	1.000
1.000	175.7	0.000	0.000	SAL_158_160_L_0							
147 D	8.869	2.1936E-02	44.90	144.4	105.7	144.4	PASSIVE	0.000	-7.300	33.00	1.000
1.000	177.4	0.000	0.000	SAL_158_160_L_0							
148 D	8.954	2.1045E-02	45.35	145.6	106.2	145.6	PASSIVE	0.000	-7.350	33.50	1.000
1.000	179.1	0.000	0.000	SAL_158_160_L_0							
149 D	9.038	2.0174E-02	45.80	146.8	106.6	146.8	PASSIVE	0.000	-7.400	34.00	1.000
1.000	180.8	0.000	0.000	SAL_158_160_L_0							
150 D	9.122	1.9323E-02	46.25	147.9	107.1	147.9	PASSIVE	0.000	-7.450	34.50	1.000
1.000	182.4	0.000	0.000	SAL_158_160_L_0							
151 D	9.207	1.8491E-02	46.70	149.1	107.5	149.1	PASSIVE	0.000	-7.500	35.00	1.000
1.000	184.1	0.000	0.000	SAL_158_160_L_0							
152 D	9.291	1.7679E-02	47.15	150.3	108.0	150.3	PASSIVE	0.000	-7.550	35.50	1.000
1.000	185.8	0.000	0.000	SAL_158_160_L_0							
153 D	9.375	1.6886E-02	47.60	151.5	108.4	151.5	PASSIVE	0.000	-7.600	36.00	1.000
1.000	187.5	0.000	0.000	SAL_158_160_L_0							
154 D	9.460	1.6112E-02	48.05	152.7	108.9	152.7	PASSIVE	0.000	-7.650	36.50	1.000
1.000	189.2	0.000	0.000	SAL_158_160_L_0							
155 D	9.544	1.5356E-02	48.50	153.9	109.3	153.9	PASSIVE	0.000	-7.700	37.00	1.000
1.000	190.9	0.000	0.000	SAL_158_160_L_0							
156 D	9.628	1.4620E-02	48.95	155.1	109.8	155.1	PASSIVE	0.000	-7.750	37.50	1.000
1.000	192.6	0.000	0.000	SAL_158_160_L_0							
157 D	9.713	1.3901E-02	49.40	156.3	110.2	156.3	PASSIVE	0.000	-7.800	38.00	1.000
1.000	194.3	0.000	0.000	SAL_158_160_L_0							
158 D	9.797	1.3201E-02	49.85	157.4	110.7	157.4	PASSIVE	0.000	-7.850	38.50	1.000
1.000	195.9	0.000	0.000	SAL_158_160_L_0							
159 D	9.881	1.2518E-02	50.30	158.6	111.1	158.6	PASSIVE	0.000	-7.900	39.00	1.000
1.000	197.6	0.000	0.000	SAL_158_160_L_0							
160 D	9.966	1.1854E-02	50.75	159.8	111.6	159.8	PASSIVE	0.000	-7.950	39.50	1.000
1.000	199.3	0.000	0.000	SAL_158_160_L_0							
161 D	10.05	1.1206E-02	51.20	161.0	112.0	161.0	PASSIVE	0.000	-8.000	40.00	1.000
1.000	201.0	0.000	0.000	SAL_158_160_L_0							
162 D	10.13	1.0576E-02	51.65	162.2	112.5	162.2	PASSIVE	0.000	-8.050	40.50	1.000
1.000	202.7	0.000	0.000	SAL_158_160_L_0							
163 D	10.22	9.9628E-03	52.10	163.4	112.9	163.4	PASSIVE	0.000	-8.100	41.00	1.000
1.000	204.4	0.000	0.000	SAL_158_160_L_0							
164 D	10.30	9.3659E-03	52.55	164.6	113.4	164.6	PASSIVE	0.000	-8.150	41.50	1.000
1.000	206.1	0.000	0.000	SAL_158_160_L_0							
165 D	10.39	8.7852E-03	53.00	165.7	113.8	165.7	PASSIVE	0.000	-8.200	42.00	1.000
1.000	207.7	0.000	0.000	SAL_158_160_L_0							
166 D	10.47	8.2203E-03	53.45	166.9	114.3	166.9	PASSIVE	0.000	-8.250	42.50	1.000
1.000	209.4	0.000	0.000	SAL_158_160_L_0							
167 D	10.56	7.6710E-03	53.90	168.1	114.7	168.1	PASSIVE	0.000	-8.300	43.00	1.000
1.000	211.1	0.000	0.000	SAL_158_160_L_0							
168 D	10.64	7.1369E-03	54.35	169.3	115.2	169.3	PASSIVE	0.000	-8.350	43.50	1.000
1.000	212.8	0.000	0.000	SAL_158_160_L_0							
169 D	10.72	6.6175E-03	54.80	170.5	115.6	170.5	PASSIVE	0.000	-8.400	44.00	1.000
1.000	214.5	0.000	0.000	SAL_158_160_L_0							
170 D	10.81	6.1126E-03	55.25	171.7	116.1	171.7	PASSIVE	0.000	-8.450	44.50	1.000
1.000	216.2	0.000	0.000	SAL_158_160_L_0							
171 D	10.89	5.6217E-03	55.70	172.9	116.5	172.9	PASSIVE	0.000	-8.500	45.00	1.000
1.000	217.9	0.000	0.000	SAL_158_160_L_0							
172 D	10.98	5.1445E-03	56.15	174.1	117.0	174.1	PASSIVE	0.000	-8.550	45.50	1.000
1.000	219.6	0.000	0.000	SAL_158_160_L_0							
173 D	11.06	4.6804E-03	56.60	175.2	117.4	175.2	PASSIVE	0.000	-8.600	46.00	1.000
1.000	221.2	0.000	0.000	SAL_158_160_L_0							
174 D	11.15	4.2292E-03	57.05	176.4	117.9	176.4	PASSIVE	0.000	-8.650	46.50	1.000
1.000	222.9	0.000	0.000	SAL_158_160_L_0							
175 D	11.23	3.7902E-03	57.50	177.6	118.3	177.6	PASSIVE	0.000	-8.700	47.00	1.000
1.000	224.6	0.000	0.000	SAL_158_160_L_0							
176 D	11.31	3.3631E-03	57.95	178.8	118.8	178.8	PASSIVE	0.000	-8.750	47.50	1.000
1.000	226.3	0.000	0.000	SAL_158_160_L_0							
177 D	11.40	2.9474E-03	58.40	180.0	119.2	180.0	PASSIVE	0.000	-8.800	48.00	1.000
1.000	228.0	0.000	0.000	SAL_158_160_L_0							
178 D	11.48	2.5426E-03	58.85	181.2	119.7	181.2	PASSIVE	0.000	-8.850	48.50	1.000
1.000	229.7	0.000	0.000	SAL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	269 di 401

179 D	11.57	2.1481E-03	59.30	182.4	120.1	182.4	PASSIVE	0.000	-8.900	49.00	1.000
1.000	231.4	0.000	0.000	5AL_158_160_L_0							
180 D	11.65	1.7636E-03	59.75	183.5	120.6	183.5	PASSIVE	0.000	-8.950	49.50	1.000
1.000	233.0	0.000	0.000	5AL_158_160_L_0							
181 D	11.74	1.3883E-03	60.20	184.7	121.0	184.7	PASSIVE	0.000	-9.000	50.00	1.000
1.000	234.7	0.000	0.000	5AL_158_160_L_0							
182 D	11.82	1.0219E-03	60.65	185.9	121.5	185.9	PASSIVE	0.000	-9.050	50.50	1.000
1.000	236.4	0.000	0.000	5AL_158_160_L_0							
183 D	11.17	6.6362E-04	61.10	172.4	121.9	172.4	V-C	8.1356E+04	-9.100	51.00	1.000
1.000	223.4	0.000	0.000	5AL_158_160_L_0							
184 D	10.14	3.1302E-04	61.55	151.2	122.4	151.2	V-C	8.1356E+04	-9.150	51.50	1.000
1.000	202.7	0.000	0.000	5AL_158_160_L_0							
185 D	9.112	-3.0528E-05	62.00	130.2	122.8	130.2	V-C	8.1356E+04	-9.200	52.00	1.000
1.000	182.2	0.000	0.000	5AL_158_160_L_0							
186 D	8.098	-3.6763E-04	62.45	109.5	123.3	109.5	V-C	8.1356E+04	-9.250	52.50	1.000
1.000	162.0	0.000	0.000	5AL_158_160_L_0							
187 D	7.092	-6.9889E-04	62.90	88.83	123.7	88.83	V-C	8.1356E+04	-9.300	53.00	1.000
1.000	141.8	0.000	0.000	5AL_158_160_L_0							
188 D	5.795	-1.0249E-03	63.35	62.41	124.2	62.41	UL-RL	1.3017E+05	-9.350	53.50	1.000
1.000	115.9	0.000	0.000	5AL_158_160_L_0							
189 D	4.868	-1.3464E-03	63.80	43.36	124.6	43.36	UL-RL	1.3017E+05	-9.400	54.00	1.000
1.000	97.36	0.000	0.000	5AL_158_160_L_0							
190 D	4.490	-1.6637E-03	64.25	35.30	125.1	35.30	UL-RL	1.3017E+05	-9.450	54.50	1.000
1.000	89.80	0.000	0.000	5AL_158_160_L_0							
191 D	4.113	-1.9776E-03	64.70	27.26	125.5	27.26	UL-RL	1.3017E+05	-9.500	55.00	1.000
1.000	82.26	0.000	0.000	5AL_158_160_L_0							
192 D	3.793	-2.2886E-03	65.15	20.36	126.0	20.36	UL-RL	1.3017E+05	-9.550	55.50	1.000
1.000	75.86	0.000	0.000	5AL_158_160_L_0							
193 D	3.826	-2.5972E-03	65.60	20.51	126.4	20.51	ACTIVE	0.000	-9.600	56.00	1.000
1.000	76.51	0.000	0.000	5AL_158_160_L_0							
194 D	3.861	-2.9038E-03	66.05	20.73	126.9	20.73	ACTIVE	0.000	-9.650	56.50	1.000
1.000	77.23	0.000	0.000	5AL_158_160_L_0							
195 D	3.897	-3.2089E-03	66.50	20.94	127.3	20.94	ACTIVE	0.000	-9.700	57.00	1.000
1.000	77.95	0.000	0.000	5AL_158_160_L_0							
196 D	3.933	-3.5129E-03	66.95	21.16	127.8	21.16	ACTIVE	0.000	-9.750	57.50	1.000
1.000	78.66	0.000	0.000	5AL_158_160_L_0							
197 D	3.969	-3.8160E-03	67.40	21.38	128.2	21.38	ACTIVE	0.000	-9.800	58.00	1.000
1.000	79.38	0.000	0.000	5AL_158_160_L_0							
198 D	4.005	-4.1186E-03	67.85	21.60	128.7	21.60	ACTIVE	0.000	-9.850	58.50	1.000
1.000	80.10	0.000	0.000	5AL_158_160_L_0							
199 D	4.041	-4.4209E-03	68.30	21.81	129.1	21.81	ACTIVE	0.000	-9.900	59.00	1.000
1.000	80.81	0.000	0.000	5AL_158_160_L_0							
200 D	4.076	-4.7230E-03	68.75	22.03	129.6	22.03	ACTIVE	0.000	-9.950	59.50	1.000
1.000	81.53	0.000	0.000	5AL_158_160_L_0							
201 D	2.055	-5.0250E-03	69.20	22.25	130.0	22.25	ACTIVE	0.000	-10.00	60.00	1.000
1.000	82.25	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A2M2R1_956
Exe Time :21 June 2016 11:57:46

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.40914	-0.40914	-3.04168E-09	2.04573E-02
2	1.2503	-1.2503	-2.04573E-02	8.29738E-02
3	2.1144	-2.1144	-8.29738E-02	0.18869
4	3.0014	-3.0014	-0.18869	0.33876
5	3.9113	-3.9113	-0.33876	0.53433
6	4.8440	-4.8440	-0.53433	0.77653
7	5.7997	-5.7997	-0.77653	1.0665
8	6.7782	-6.7782	-1.0665	1.4054
9	7.7797	-7.7797	-1.4054	1.7944
10	8.8040	-8.8040	-1.7944	2.2346
11	9.8513	-9.8513	-2.2346	2.7272
12	10.921	-10.921	-2.7272	3.2732
13	12.014	-12.014	-3.2732	3.8740

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	270 di 401

14	13.130	-13.130	-3.8740	4.5305
15	14.269	-14.269	-4.5305	5.2439
16	15.431	-15.431	-5.2439	6.0155
17	16.616	-16.616	-6.0155	6.8463
18	17.823	-17.823	-6.8463	7.7374
19	19.053	-19.053	-7.7374	8.6901
20	20.307	-20.307	-8.6901	9.7054
21	21.583	-21.583	-9.7054	10.785
22	22.882	-22.882	-10.785	11.929
23	24.204	-24.204	-11.929	13.139
24	25.549	-25.549	-13.139	14.416
25	26.917	-26.917	-14.416	15.762
26	28.307	-28.307	-15.762	17.177
27	29.721	-29.721	-17.177	18.664
28	31.157	-31.157	-18.664	20.221
29	32.617	-32.617	-20.221	21.852
30	34.099	-34.099	-21.852	23.557
31	35.604	-35.604	-23.557	25.337
32	37.132	-37.132	-25.337	27.194
33	38.683	-38.683	-27.194	29.128
34	40.257	-40.257	-29.128	31.141
35	41.854	-41.854	-31.141	33.234
36	43.473	-43.473	-33.234	35.407
37	45.116	-45.116	-35.407	37.663
38	46.781	-46.781	-37.663	40.002
39	48.469	-48.469	-40.002	42.426
40	50.181	-50.181	-42.426	44.935
41	51.915	-51.915	-44.935	47.530
42	53.672	-53.672	-47.530	50.214
43	55.452	-55.452	-50.214	52.986
44	57.254	-57.254	-52.986	55.849
45	59.080	-59.080	-55.849	58.803
46	60.929	-60.929	-58.803	61.850
47	62.800	-62.800	-61.850	64.990
48	64.694	-64.694	-64.990	68.224
49	66.612	-66.612	-68.224	71.555
50	68.552	-68.552	-71.555	74.983
51	70.515	-70.515	-74.983	78.508
52	72.501	-72.501	-78.508	82.133
53	74.510	-74.510	-82.133	85.859
54	76.541	-76.541	-85.859	89.686
55	78.596	-78.596	-89.686	93.616
56	80.673	-80.673	-93.616	97.649
57	82.774	-82.774	-97.649	101.79
58	84.897	-84.897	-101.79	106.03
59	87.043	-87.043	-106.03	110.38
60	89.212	-89.212	-110.38	114.85
61	91.404	-91.404	-114.85	119.42
62	93.619	-93.619	-119.42	124.10
63	95.857	-95.857	-124.10	128.89
64	98.118	-98.118	-128.89	133.80
65	100.40	-100.40	-133.80	138.82
66	101.28	-101.28	-138.82	143.88
67	102.06	-102.06	-143.88	148.98
68	102.74	-102.74	-148.98	154.12
69	103.32	-103.32	-154.12	159.29
70	103.79	-103.79	-159.29	164.48
71	104.16	-104.16	-164.48	169.68
72	104.43	-104.43	-169.68	174.90
73	104.59	-104.59	-174.90	180.13
74	104.66	-104.66	-180.13	185.37
75	104.62	-104.62	-185.37	190.60
76	104.47	-104.47	-190.60	195.82
77	104.23	-104.23	-195.82	201.03
78	103.88	-103.88	-201.03	206.23
79	103.44	-103.44	-206.23	211.40
80	102.88	-102.88	-211.40	216.54
81	102.23	-102.23	-216.54	221.65
82	101.53	-101.53	-221.65	226.73
83	100.78	-100.78	-226.73	231.77
84	99.981	-99.981	-231.77	236.77
85	99.133	-99.133	-236.77	241.73
86	98.237	-98.237	-241.73	246.64
87	97.293	-97.293	-246.64	251.50
88	96.300	-96.300	-251.50	256.32
89	95.259	-95.259	-256.32	261.08
90	94.170	-94.170	-261.08	265.79
91	93.031	-93.031	-265.79	270.44
92	91.845	-91.845	-270.44	275.03
93	90.609	-90.609	-275.03	279.56
94	89.326	-89.326	-279.56	284.03

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	271 di 401

RELAZIONE DI CALCOLO

95	87.994	-87.994	-284.03	288.43
96	86.613	-86.613	-288.43	292.76
97	85.184	-85.184	-292.76	297.02
98	83.706	-83.706	-297.02	301.20
99	82.180	-82.180	-301.20	305.31
100	80.605	-80.605	-305.31	309.34
101	78.982	-78.982	-309.34	313.29
102	77.311	-77.311	-313.29	317.16
103	75.591	-75.591	-317.16	320.94
104	73.822	-73.822	-320.94	324.63
105	72.005	-72.005	-324.63	328.23
106	70.140	-70.140	-328.23	331.74
107	68.226	-68.226	-331.74	335.15
108	66.263	-66.263	-335.15	338.46
109	64.252	-64.252	-338.46	341.67
110	62.193	-62.193	-341.67	344.78
111	60.085	-60.085	-344.78	347.79
112	57.928	-57.928	-347.79	350.68
113	55.723	-55.723	-350.68	353.47
114	53.470	-53.470	-353.47	356.14
115	51.168	-51.168	-356.14	358.70
116	48.818	-48.818	-358.70	361.14
117	46.419	-46.419	-361.14	363.46
118	43.971	-43.971	-363.46	365.66
119	41.475	-41.475	-365.66	367.74
120	38.931	-38.931	-367.74	369.68
121	36.338	-36.338	-369.68	371.50
122	33.697	-33.697	-371.50	373.18
123	31.007	-31.007	-373.18	374.73
124	28.269	-28.269	-374.73	376.15
125	25.482	-25.482	-376.15	377.42
126	22.647	-22.647	-377.42	378.55
127	19.763	-19.763	-378.55	379.54
128	16.831	-16.831	-379.54	380.38
129	13.850	-13.850	-380.38	381.08
130	10.821	-10.821	-381.08	381.62
131	7.7430	-7.7430	-381.62	382.00
132	4.6168	-4.6168	-382.00	382.24
133	1.4421	-1.4421	-382.24	382.31
134	-1.7811	1.7811	-382.31	382.22
135	-5.0528	5.0528	-382.22	381.97
136	-8.3729	8.3729	-381.97	381.55
137	-11.742	11.742	-381.55	380.96
138	-15.159	15.159	-380.96	380.20
139	-18.624	18.624	-380.20	379.27
140	-22.138	22.138	-379.27	378.16
141	-25.701	25.701	-378.16	376.88
142	-29.312	29.312	-376.88	375.41
143	-32.972	32.972	-375.41	373.77
144	-36.680	36.680	-373.77	371.93
145	-40.436	40.436	-371.93	369.91
146	-44.241	44.241	-369.91	367.70
147	-48.095	48.095	-367.70	365.29
148	-51.997	51.997	-365.29	362.69
149	-55.947	55.947	-362.69	359.90
150	-59.946	59.946	-359.90	356.90
151	-63.994	63.994	-356.90	353.70
152	-68.090	68.090	-353.70	350.29
153	-72.234	72.234	-350.29	346.68
154	-76.427	76.427	-346.68	342.86
155	-80.669	80.669	-342.86	338.83
156	-84.958	84.958	-338.83	334.58
157	-89.297	89.297	-334.58	330.11
158	-93.684	93.684	-330.11	325.43
159	-98.119	98.119	-325.43	320.52
160	-102.60	102.60	-320.52	315.39
161	-107.14	107.14	-315.39	310.04
162	-111.72	111.72	-310.04	304.45
163	-116.35	116.35	-304.45	298.63
164	-121.02	121.02	-298.63	292.58
165	-125.75	125.75	-292.58	286.30
166	-130.52	130.52	-286.30	279.77
167	-135.35	135.35	-279.77	273.00
168	-140.22	140.22	-273.00	265.99
169	-145.14	145.14	-265.99	258.73
170	-150.11	150.11	-258.73	251.23
171	-155.13	155.13	-251.23	243.47
172	-160.19	160.19	-243.47	235.46
173	-165.31	165.31	-235.46	227.20
174	-170.47	170.47	-227.20	218.67
175	-175.68	175.68	-218.67	209.89



LINEA PESCARA - BARI
 RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:
 Lotto 1: Ripalta - Lesina
 PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOLLIO
LI00	01	D 09CL	VI0100 004	A	272 di 401

RELAZIONE DI CALCOLO

176	-180.94	180.94	-209.89	200.84
177	-186.25	186.25	-200.84	191.53
178	-191.60	191.60	-191.53	181.95
179	-197.01	197.01	-181.95	172.10
180	-202.46	202.46	-172.10	161.98
181	-207.96	207.96	-161.98	151.58
182	-213.52	213.52	-151.58	140.90
183	-218.38	218.38	-140.90	129.98
184	-222.17	222.17	-129.98	118.87
185	-224.91	224.91	-118.87	107.63
186	-225.69	225.69	-107.63	96.344
187	-223.36	223.36	-96.344	85.176
188	-217.74	217.74	-85.176	74.289
189	-209.40	209.40	-74.289	63.819
190	-199.12	199.12	-63.819	53.863
191	-186.91	186.91	-53.863	44.518
192	-172.86	172.86	-44.518	35.874
193	-157.49	157.49	-35.874	28.000
194	-140.79	140.79	-28.000	20.960
195	-122.79	122.79	-20.960	14.821
196	-103.44	103.44	-14.821	9.6492
197	-82.720	82.720	-9.6492	5.5132
198	-60.644	60.644	-5.5132	2.4809
199	-37.207	37.207	-2.4809	0.62057
200	-12.416	12.416	-0.62057	1.31561E-11

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.A2M2R1_956
 Exe Time :21 June 2016 11:57:46

FINAL INCREMENTAL ANALYSIS
 SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	4
3	CONVERGENCE :YES	14

END OF PROCESS FOR PROBLEM

paratia_mario
 NONLINEAR SOLUTION CPU TIME 0.06 [sec]
 DATABASE CREATION CPU TIME..... 0.23 [sec]

Design Assumption : SISMICA STR - File di Paratie - File di output (.out)

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICASTR_986
 Exe Time :21 June 2016 11:57:46

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*****
*
* PARATIE PLUS Non-Linear Spring Engine
*
* AN ELASTOPLASTIC FINITE ELEMENT PROGRAM
* FOR FLEXIBLE EARTH-RETAINING STRUCTURES
*
* Written by Ce.A.S. s.r.l. (ITALY)
* with the scientific supervision of
* Roberto Nova - full professor SOIL MECHANICS
* at Politecnico di Milano (ITALY)
*
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LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	273 di 401

RELAZIONE DI CALCOLO

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* RELEASE 2016 *Build date: Feb 29, 2016*
*
*
* Ce.A.S. S.R.L CENTRO DI ANALISI STRUTTURALE
* VIALE GIUSTINIANO 10
* 20129 M I L A N O (ITALIA)
* TEL. +39 02 2020221 (+39 035 23 67 19)
* FAX +39 02 29512533 (+39 035 42285 49)
* email bruno.becci@ceas.it
* Web Page www.ceas.it
*.....*
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JOB : paratia_mario.BaseDesignSection_28.SISMICASTR_986
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL_STRESS >
ACCEPTED <PARAM ITEM MAX 40 >
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*.....*
* WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED *
* BY THE PROGRAM. *
*.....*
```

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]

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| PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016* |
| paratia_mario.BaseDesignSection_28.SISMICASTR_986 |
| Exe Time :21 June 2016 11:57:46 |
|-----
```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

paratia_mario

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NO. OF NODAL POINTS (NUMNP) ..... 201
NO. OF COORDINATES (NCOORD) ..... 2
NO. OF NODE DOFS (NDOF) ..... 2
NO. OF EQUATIONS (NEQ) ..... 402
NO. OF CONSTRAINTS CARDS (NVINC) ..... 0
NO. OF ELEMENT GROUPS (NEG) ..... 3
NO. OF SOLUTION STEPS (NSTE) ..... 3
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 47
NO. OF LONG NAMES (LASTNAME) ..... 13
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH ..... 1
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF . 0
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IDOFA (01) = 2 Y-DISPL.F
IDOFA (02) = 4 X-ROT. F
```

RELEVANT ITEMS UNITS

```
STRESSES kPa
Y-DISPLACEMENTS m
ROTATIONS RADIANS
BEAM AND SLAB MOMENTS kN*m/m
BEAM SHEAR FORCES kN/m
ANCHOR FORCES kN/m
AXIAL FORCES IN TRUSSES kN/m
AXIAL FORCES SPRINGS kN/m
Y-REACTIONS kN/m
X-MOMENT REACTIONS kN*m/m
ETC.
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LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	274 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICASTR_986
Exe Time :21 June 2016 11:57:46

PREPROCESSOR DATA

NO. OF COMMANDS 47

```

1 : UNIT m kN
2 : TITLE paratia_mario
3 : DELTA 0.05
4 : option param itemax 40
5 : WALL LeftWall_32 0 -10 0 1
6 : SOIL 0_L LeftWall_32 -10 0 1 0
7 : SOIL 0_R LeftWall_32 -10 0 2 180
8 : LDATA 5AL_158_160_L_0 0 LeftWall_32
9 : ATREST 0.5933 0.5 1
10 : WEIGHT 19 9 10
11 : PERMEABILITY 1E-08
12 : RESISTANCE 10 25
13 : YOUNG 2.5E+05 4E+05
14 : ENDL
15 : MATERIAL S355_114 2.1E+08
16 : MATERIAL C3240_106 3.335E+07
17 : BEAM WallElement_33 LeftWall_32 -10 0 S355_114 0.1381 00 00
18 : STEP Stage1_31
19 : CHANGE 5AL_158_160_L_0 U-FRICT=25 LeftWall_32
20 : CHANGE 5AL_158_160_L_0 D-FRICT=25 LeftWall_32
21 : CHANGE 5AL_158_160_L_0 U-KA=0.406 LeftWall_32
22 : CHANGE 5AL_158_160_L_0 U-KP=3.396 LeftWall_32
23 : CHANGE 5AL_158_160_L_0 D-KA=0.406 LeftWall_32
24 : CHANGE 5AL_158_160_L_0 D-KP=3.396 LeftWall_32
25 : CHANGE 5AL_158_160_L_0 U-COHE=10 LeftWall_32
26 : CHANGE 5AL_158_160_L_0 D-COHE=10 LeftWall_32
27 : SETWALL LeftWall_32
28 : GEOM 0 0
29 : WATER -4 0 -10 0 0
30 : ENDSTEP
31 : STEP Stage2_168
32 : CHANGE 5AL_158_160_L_0 D-FRICT=25 LeftWall_32
33 : CHANGE 5AL_158_160_L_0 D-COHE=10 LeftWall_32
34 : SETWALL LeftWall_32
35 : GEOM 0 0
36 : SURCHARGE 57 0 0 0
37 : WATER -4 0 -10 0 0
38 : ADD WallElement_33
39 : ENDSTEP
40 : STEP Stage3_6035
41 : CHANGE 5AL_158_160_L_0 D-FRICT=25 LeftWall_32
42 : CHANGE 5AL_158_160_L_0 D-COHE=10 LeftWall_32
43 : SETWALL LeftWall_32
44 : GEOM 0 -3.2
45 : SURCHARGE 57 0 0 0
46 : WATER -4 0 -10 0 0
47 : ENDSTEP

```

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICASTR_986
Exe Time :21 June 2016 11:57:46

NODAL POINT DATA

NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD /
1	0.0000	0.0000 /	2	0.0000 -5.00000E-02 /	3	0.0000 -0.10000 /	4	0.0000 -0.15000 /
5	0.0000	-0.20000 /	6	0.0000 -0.25000 /	7	0.0000 -0.30000 /	8	0.0000 -0.35000 /
9	0.0000	-0.40000 /	10	0.0000 -0.45000 /	11	0.0000 -0.50000 /	12	0.0000 -0.55000 /
13	0.0000	-0.60000 /	14	0.0000 -0.65000 /	15	0.0000 -0.70000 /	16	0.0000 -0.75000 /
17	0.0000	-0.80000 /	18	0.0000 -0.85000 /	19	0.0000 -0.90000 /	20	0.0000 -0.95000 /
21	0.0000	-1.0000 /	22	0.0000 -1.0500 /	23	0.0000 -1.1000 /	24	0.0000 -1.1500 /



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	275 di 401

25	0.0000	-1.2000	/	26	0.0000	-1.2500	/	27	0.0000	-1.3000	/	28	0.0000	-1.3500	/
29	0.0000	-1.4000	/	30	0.0000	-1.4500	/	31	0.0000	-1.5000	/	32	0.0000	-1.5500	/
33	0.0000	-1.6000	/	34	0.0000	-1.6500	/	35	0.0000	-1.7000	/	36	0.0000	-1.7500	/
37	0.0000	-1.8000	/	38	0.0000	-1.8500	/	39	0.0000	-1.9000	/	40	0.0000	-1.9500	/
41	0.0000	-2.0000	/	42	0.0000	-2.0500	/	43	0.0000	-2.1000	/	44	0.0000	-2.1500	/
45	0.0000	-2.2000	/	46	0.0000	-2.2500	/	47	0.0000	-2.3000	/	48	0.0000	-2.3500	/
49	0.0000	-2.4000	/	50	0.0000	-2.4500	/	51	0.0000	-2.5000	/	52	0.0000	-2.5500	/
53	0.0000	-2.6000	/	54	0.0000	-2.6500	/	55	0.0000	-2.7000	/	56	0.0000	-2.7500	/
57	0.0000	-2.8000	/	58	0.0000	-2.8500	/	59	0.0000	-2.9000	/	60	0.0000	-2.9500	/
61	0.0000	-3.0000	/	62	0.0000	-3.0500	/	63	0.0000	-3.1000	/	64	0.0000	-3.1500	/
65	0.0000	-3.2000	/	66	0.0000	-3.2500	/	67	0.0000	-3.3000	/	68	0.0000	-3.3500	/
69	0.0000	-3.4000	/	70	0.0000	-3.4500	/	71	0.0000	-3.5000	/	72	0.0000	-3.5500	/
73	0.0000	-3.6000	/	74	0.0000	-3.6500	/	75	0.0000	-3.7000	/	76	0.0000	-3.7500	/
77	0.0000	-3.8000	/	78	0.0000	-3.8500	/	79	0.0000	-3.9000	/	80	0.0000	-3.9500	/
81	0.0000	-4.0000	/	82	0.0000	-4.0500	/	83	0.0000	-4.1000	/	84	0.0000	-4.1500	/
85	0.0000	-4.2000	/	86	0.0000	-4.2500	/	87	0.0000	-4.3000	/	88	0.0000	-4.3500	/
89	0.0000	-4.4000	/	90	0.0000	-4.4500	/	91	0.0000	-4.5000	/	92	0.0000	-4.5500	/
93	0.0000	-4.6000	/	94	0.0000	-4.6500	/	95	0.0000	-4.7000	/	96	0.0000	-4.7500	/
97	0.0000	-4.8000	/	98	0.0000	-4.8500	/	99	0.0000	-4.9000	/	100	0.0000	-4.9500	/
101	0.0000	-5.0000	/	102	0.0000	-5.0500	/	103	0.0000	-5.1000	/	104	0.0000	-5.1500	/
105	0.0000	-5.2000	/	106	0.0000	-5.2500	/	107	0.0000	-5.3000	/	108	0.0000	-5.3500	/
109	0.0000	-5.4000	/	110	0.0000	-5.4500	/	111	0.0000	-5.5000	/	112	0.0000	-5.5500	/
113	0.0000	-5.6000	/	114	0.0000	-5.6500	/	115	0.0000	-5.7000	/	116	0.0000	-5.7500	/
117	0.0000	-5.8000	/	118	0.0000	-5.8500	/	119	0.0000	-5.9000	/	120	0.0000	-5.9500	/
121	0.0000	-6.0000	/	122	0.0000	-6.0500	/	123	0.0000	-6.1000	/	124	0.0000	-6.1500	/
125	0.0000	-6.2000	/	126	0.0000	-6.2500	/	127	0.0000	-6.3000	/	128	0.0000	-6.3500	/
129	0.0000	-6.4000	/	130	0.0000	-6.4500	/	131	0.0000	-6.5000	/	132	0.0000	-6.5500	/
133	0.0000	-6.6000	/	134	0.0000	-6.6500	/	135	0.0000	-6.7000	/	136	0.0000	-6.7500	/
137	0.0000	-6.8000	/	138	0.0000	-6.8500	/	139	0.0000	-6.9000	/	140	0.0000	-6.9500	/
141	0.0000	-7.0000	/	142	0.0000	-7.0500	/	143	0.0000	-7.1000	/	144	0.0000	-7.1500	/
145	0.0000	-7.2000	/	146	0.0000	-7.2500	/	147	0.0000	-7.3000	/	148	0.0000	-7.3500	/
149	0.0000	-7.4000	/	150	0.0000	-7.4500	/	151	0.0000	-7.5000	/	152	0.0000	-7.5500	/
153	0.0000	-7.6000	/	154	0.0000	-7.6500	/	155	0.0000	-7.7000	/	156	0.0000	-7.7500	/
157	0.0000	-7.8000	/	158	0.0000	-7.8500	/	159	0.0000	-7.9000	/	160	0.0000	-7.9500	/
161	0.0000	-8.0000	/	162	0.0000	-8.0500	/	163	0.0000	-8.1000	/	164	0.0000	-8.1500	/
165	0.0000	-8.2000	/	166	0.0000	-8.2500	/	167	0.0000	-8.3000	/	168	0.0000	-8.3500	/
169	0.0000	-8.4000	/	170	0.0000	-8.4500	/	171	0.0000	-8.5000	/	172	0.0000	-8.5500	/
173	0.0000	-8.6000	/	174	0.0000	-8.6500	/	175	0.0000	-8.7000	/	176	0.0000	-8.7500	/
177	0.0000	-8.8000	/	178	0.0000	-8.8500	/	179	0.0000	-8.9000	/	180	0.0000	-8.9500	/
181	0.0000	-9.0000	/	182	0.0000	-9.0500	/	183	0.0000	-9.1000	/	184	0.0000	-9.1500	/
185	0.0000	-9.2000	/	186	0.0000	-9.2500	/	187	0.0000	-9.3000	/	188	0.0000	-9.3500	/
189	0.0000	-9.4000	/	190	0.0000	-9.4500	/	191	0.0000	-9.5000	/	192	0.0000	-9.5500	/
193	0.0000	-9.6000	/	194	0.0000	-9.6500	/	195	0.0000	-9.7000	/	196	0.0000	-9.7500	/
197	0.0000	-9.8000	/	198	0.0000	-9.8500	/	199	0.0000	-9.9000	/	200	0.0000	-9.9500	/
201	0.0000	-10.0000	/												

PARATIEPLUS (TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICASTR_986
Exe Time :21 June 2016 11:57:46

ELEMENT GROUP NO. 1

0_L
5 201 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage status

1 active
2 active
3 active

material set no. 1

prop(1) angle 0.00000
prop(2) layer as foreseen 1.00000

element data

el n mat area flag

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	276 di 401

1	1	1	0.2500E-01	0.000	0.000	0.000	1.000
2	2	1	0.5000E-01	0.000	0.000	0.000	1.000
3	3	1	0.5000E-01	0.000	0.000	0.000	1.000
4	4	1	0.5000E-01	0.000	0.000	0.000	1.000
5	5	1	0.5000E-01	0.000	0.000	0.000	1.000
6	6	1	0.5000E-01	0.000	0.000	0.000	1.000
7	7	1	0.5000E-01	0.000	0.000	0.000	1.000
8	8	1	0.5000E-01	0.000	0.000	0.000	1.000
9	9	1	0.5000E-01	0.000	0.000	0.000	1.000
10	10	1	0.5000E-01	0.000	0.000	0.000	1.000
11	11	1	0.5000E-01	0.000	0.000	0.000	1.000
12	12	1	0.5000E-01	0.000	0.000	0.000	1.000
13	13	1	0.5000E-01	0.000	0.000	0.000	1.000
14	14	1	0.5000E-01	0.000	0.000	0.000	1.000
15	15	1	0.5000E-01	0.000	0.000	0.000	1.000
16	16	1	0.5000E-01	0.000	0.000	0.000	1.000
17	17	1	0.5000E-01	0.000	0.000	0.000	1.000
18	18	1	0.5000E-01	0.000	0.000	0.000	1.000
19	19	1	0.5000E-01	0.000	0.000	0.000	1.000
20	20	1	0.5000E-01	0.000	0.000	0.000	1.000
21	21	1	0.5000E-01	0.000	0.000	0.000	1.000
22	22	1	0.5000E-01	0.000	0.000	0.000	1.000
23	23	1	0.5000E-01	0.000	0.000	0.000	1.000
24	24	1	0.5000E-01	0.000	0.000	0.000	1.000
25	25	1	0.5000E-01	0.000	0.000	0.000	1.000
26	26	1	0.5000E-01	0.000	0.000	0.000	1.000
27	27	1	0.5000E-01	0.000	0.000	0.000	1.000
28	28	1	0.5000E-01	0.000	0.000	0.000	1.000
29	29	1	0.5000E-01	0.000	0.000	0.000	1.000
30	30	1	0.5000E-01	0.000	0.000	0.000	1.000
31	31	1	0.5000E-01	0.000	0.000	0.000	1.000
32	32	1	0.5000E-01	0.000	0.000	0.000	1.000
33	33	1	0.5000E-01	0.000	0.000	0.000	1.000
34	34	1	0.5000E-01	0.000	0.000	0.000	1.000
35	35	1	0.5000E-01	0.000	0.000	0.000	1.000
36	36	1	0.5000E-01	0.000	0.000	0.000	1.000
37	37	1	0.5000E-01	0.000	0.000	0.000	1.000
38	38	1	0.5000E-01	0.000	0.000	0.000	1.000
39	39	1	0.5000E-01	0.000	0.000	0.000	1.000
40	40	1	0.5000E-01	0.000	0.000	0.000	1.000
41	41	1	0.5000E-01	0.000	0.000	0.000	1.000
42	42	1	0.5000E-01	0.000	0.000	0.000	1.000
43	43	1	0.5000E-01	0.000	0.000	0.000	1.000
44	44	1	0.5000E-01	0.000	0.000	0.000	1.000
45	45	1	0.5000E-01	0.000	0.000	0.000	1.000
46	46	1	0.5000E-01	0.000	0.000	0.000	1.000
47	47	1	0.5000E-01	0.000	0.000	0.000	1.000
48	48	1	0.5000E-01	0.000	0.000	0.000	1.000
49	49	1	0.5000E-01	0.000	0.000	0.000	1.000
50	50	1	0.5000E-01	0.000	0.000	0.000	1.000
51	51	1	0.5000E-01	0.000	0.000	0.000	1.000
52	52	1	0.5000E-01	0.000	0.000	0.000	1.000
53	53	1	0.5000E-01	0.000	0.000	0.000	1.000
54	54	1	0.5000E-01	0.000	0.000	0.000	1.000
55	55	1	0.5000E-01	0.000	0.000	0.000	1.000
56	56	1	0.5000E-01	0.000	0.000	0.000	1.000
57	57	1	0.5000E-01	0.000	0.000	0.000	1.000
58	58	1	0.5000E-01	0.000	0.000	0.000	1.000
59	59	1	0.5000E-01	0.000	0.000	0.000	1.000
60	60	1	0.5000E-01	0.000	0.000	0.000	1.000
61	61	1	0.5000E-01	0.000	0.000	0.000	1.000
62	62	1	0.5000E-01	0.000	0.000	0.000	1.000
63	63	1	0.5000E-01	0.000	0.000	0.000	1.000
64	64	1	0.5000E-01	0.000	0.000	0.000	1.000
65	65	1	0.5000E-01	0.000	0.000	0.000	1.000
66	66	1	0.5000E-01	0.000	0.000	0.000	1.000
67	67	1	0.5000E-01	0.000	0.000	0.000	1.000
68	68	1	0.5000E-01	0.000	0.000	0.000	1.000
69	69	1	0.5000E-01	0.000	0.000	0.000	1.000
70	70	1	0.5000E-01	0.000	0.000	0.000	1.000
71	71	1	0.5000E-01	0.000	0.000	0.000	1.000
72	72	1	0.5000E-01	0.000	0.000	0.000	1.000
73	73	1	0.5000E-01	0.000	0.000	0.000	1.000
74	74	1	0.5000E-01	0.000	0.000	0.000	1.000
75	75	1	0.5000E-01	0.000	0.000	0.000	1.000
76	76	1	0.5000E-01	0.000	0.000	0.000	1.000
77	77	1	0.5000E-01	0.000	0.000	0.000	1.000
78	78	1	0.5000E-01	0.000	0.000	0.000	1.000
79	79	1	0.5000E-01	0.000	0.000	0.000	1.000
80	80	1	0.5000E-01	0.000	0.000	0.000	1.000
81	81	1	0.5000E-01	0.000	0.000	0.000	1.000

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	277 di 401

RELAZIONE DI CALCOLO

82	82	1	0.5000E-01	0.000	0.000	0.000	1.000
83	83	1	0.5000E-01	0.000	0.000	0.000	1.000
84	84	1	0.5000E-01	0.000	0.000	0.000	1.000
85	85	1	0.5000E-01	0.000	0.000	0.000	1.000
86	86	1	0.5000E-01	0.000	0.000	0.000	1.000
87	87	1	0.5000E-01	0.000	0.000	0.000	1.000
88	88	1	0.5000E-01	0.000	0.000	0.000	1.000
89	89	1	0.5000E-01	0.000	0.000	0.000	1.000
90	90	1	0.5000E-01	0.000	0.000	0.000	1.000
91	91	1	0.5000E-01	0.000	0.000	0.000	1.000
92	92	1	0.5000E-01	0.000	0.000	0.000	1.000
93	93	1	0.5000E-01	0.000	0.000	0.000	1.000
94	94	1	0.5000E-01	0.000	0.000	0.000	1.000
95	95	1	0.5000E-01	0.000	0.000	0.000	1.000
96	96	1	0.5000E-01	0.000	0.000	0.000	1.000
97	97	1	0.5000E-01	0.000	0.000	0.000	1.000
98	98	1	0.5000E-01	0.000	0.000	0.000	1.000
99	99	1	0.5000E-01	0.000	0.000	0.000	1.000
100	100	1	0.5000E-01	0.000	0.000	0.000	1.000
101	101	1	0.5000E-01	0.000	0.000	0.000	1.000
102	102	1	0.5000E-01	0.000	0.000	0.000	1.000
103	103	1	0.5000E-01	0.000	0.000	0.000	1.000
104	104	1	0.5000E-01	0.000	0.000	0.000	1.000
105	105	1	0.5000E-01	0.000	0.000	0.000	1.000
106	106	1	0.5000E-01	0.000	0.000	0.000	1.000
107	107	1	0.5000E-01	0.000	0.000	0.000	1.000
108	108	1	0.5000E-01	0.000	0.000	0.000	1.000
109	109	1	0.5000E-01	0.000	0.000	0.000	1.000
110	110	1	0.5000E-01	0.000	0.000	0.000	1.000
111	111	1	0.5000E-01	0.000	0.000	0.000	1.000
112	112	1	0.5000E-01	0.000	0.000	0.000	1.000
113	113	1	0.5000E-01	0.000	0.000	0.000	1.000
114	114	1	0.5000E-01	0.000	0.000	0.000	1.000
115	115	1	0.5000E-01	0.000	0.000	0.000	1.000
116	116	1	0.5000E-01	0.000	0.000	0.000	1.000
117	117	1	0.5000E-01	0.000	0.000	0.000	1.000
118	118	1	0.5000E-01	0.000	0.000	0.000	1.000
119	119	1	0.5000E-01	0.000	0.000	0.000	1.000
120	120	1	0.5000E-01	0.000	0.000	0.000	1.000
121	121	1	0.5000E-01	0.000	0.000	0.000	1.000
122	122	1	0.5000E-01	0.000	0.000	0.000	1.000
123	123	1	0.5000E-01	0.000	0.000	0.000	1.000
124	124	1	0.5000E-01	0.000	0.000	0.000	1.000
125	125	1	0.5000E-01	0.000	0.000	0.000	1.000
126	126	1	0.5000E-01	0.000	0.000	0.000	1.000
127	127	1	0.5000E-01	0.000	0.000	0.000	1.000
128	128	1	0.5000E-01	0.000	0.000	0.000	1.000
129	129	1	0.5000E-01	0.000	0.000	0.000	1.000
130	130	1	0.5000E-01	0.000	0.000	0.000	1.000
131	131	1	0.5000E-01	0.000	0.000	0.000	1.000
132	132	1	0.5000E-01	0.000	0.000	0.000	1.000
133	133	1	0.5000E-01	0.000	0.000	0.000	1.000
134	134	1	0.5000E-01	0.000	0.000	0.000	1.000
135	135	1	0.5000E-01	0.000	0.000	0.000	1.000
136	136	1	0.5000E-01	0.000	0.000	0.000	1.000
137	137	1	0.5000E-01	0.000	0.000	0.000	1.000
138	138	1	0.5000E-01	0.000	0.000	0.000	1.000
139	139	1	0.5000E-01	0.000	0.000	0.000	1.000
140	140	1	0.5000E-01	0.000	0.000	0.000	1.000
141	141	1	0.5000E-01	0.000	0.000	0.000	1.000
142	142	1	0.5000E-01	0.000	0.000	0.000	1.000
143	143	1	0.5000E-01	0.000	0.000	0.000	1.000
144	144	1	0.5000E-01	0.000	0.000	0.000	1.000
145	145	1	0.5000E-01	0.000	0.000	0.000	1.000
146	146	1	0.5000E-01	0.000	0.000	0.000	1.000
147	147	1	0.5000E-01	0.000	0.000	0.000	1.000
148	148	1	0.5000E-01	0.000	0.000	0.000	1.000
149	149	1	0.5000E-01	0.000	0.000	0.000	1.000
150	150	1	0.5000E-01	0.000	0.000	0.000	1.000
151	151	1	0.5000E-01	0.000	0.000	0.000	1.000
152	152	1	0.5000E-01	0.000	0.000	0.000	1.000
153	153	1	0.5000E-01	0.000	0.000	0.000	1.000
154	154	1	0.5000E-01	0.000	0.000	0.000	1.000
155	155	1	0.5000E-01	0.000	0.000	0.000	1.000
156	156	1	0.5000E-01	0.000	0.000	0.000	1.000
157	157	1	0.5000E-01	0.000	0.000	0.000	1.000
158	158	1	0.5000E-01	0.000	0.000	0.000	1.000
159	159	1	0.5000E-01	0.000	0.000	0.000	1.000
160	160	1	0.5000E-01	0.000	0.000	0.000	1.000
161	161	1	0.5000E-01	0.000	0.000	0.000	1.000
162	162	1	0.5000E-01	0.000	0.000	0.000	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	278 di 401

RELAZIONE DI CALCOLO

163	163	1	0.5000E-01	0.000	0.000	0.000	1.000
164	164	1	0.5000E-01	0.000	0.000	0.000	1.000
165	165	1	0.5000E-01	0.000	0.000	0.000	1.000
166	166	1	0.5000E-01	0.000	0.000	0.000	1.000
167	167	1	0.5000E-01	0.000	0.000	0.000	1.000
168	168	1	0.5000E-01	0.000	0.000	0.000	1.000
169	169	1	0.5000E-01	0.000	0.000	0.000	1.000
170	170	1	0.5000E-01	0.000	0.000	0.000	1.000
171	171	1	0.5000E-01	0.000	0.000	0.000	1.000
172	172	1	0.5000E-01	0.000	0.000	0.000	1.000
173	173	1	0.5000E-01	0.000	0.000	0.000	1.000
174	174	1	0.5000E-01	0.000	0.000	0.000	1.000
175	175	1	0.5000E-01	0.000	0.000	0.000	1.000
176	176	1	0.5000E-01	0.000	0.000	0.000	1.000
177	177	1	0.5000E-01	0.000	0.000	0.000	1.000
178	178	1	0.5000E-01	0.000	0.000	0.000	1.000
179	179	1	0.5000E-01	0.000	0.000	0.000	1.000
180	180	1	0.5000E-01	0.000	0.000	0.000	1.000
181	181	1	0.5000E-01	0.000	0.000	0.000	1.000
182	182	1	0.5000E-01	0.000	0.000	0.000	1.000
183	183	1	0.5000E-01	0.000	0.000	0.000	1.000
184	184	1	0.5000E-01	0.000	0.000	0.000	1.000
185	185	1	0.5000E-01	0.000	0.000	0.000	1.000
186	186	1	0.5000E-01	0.000	0.000	0.000	1.000
187	187	1	0.5000E-01	0.000	0.000	0.000	1.000
188	188	1	0.5000E-01	0.000	0.000	0.000	1.000
189	189	1	0.5000E-01	0.000	0.000	0.000	1.000
190	190	1	0.5000E-01	0.000	0.000	0.000	1.000
191	191	1	0.5000E-01	0.000	0.000	0.000	1.000
192	192	1	0.5000E-01	0.000	0.000	0.000	1.000
193	193	1	0.5000E-01	0.000	0.000	0.000	1.000
194	194	1	0.5000E-01	0.000	0.000	0.000	1.000
195	195	1	0.5000E-01	0.000	0.000	0.000	1.000
196	196	1	0.5000E-01	0.000	0.000	0.000	1.000
197	197	1	0.5000E-01	0.000	0.000	0.000	1.000
198	198	1	0.5000E-01	0.000	0.000	0.000	1.000
199	199	1	0.5000E-01	0.000	0.000	0.000	1.000
200	200	1	0.4999E-01	0.000	0.000	0.000	1.000
201	201	1	0.2499E-01	0.000	0.000	0.000	1.000

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICASTR_986
Exe Time :21 June 2016 11:57:46

ELEMENT GROUP NO. 2

0_R
5 201 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active

material set no. 1

prop(1) angle 180.000
prop(2) layer as foreseen 1.00000

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.2500E-01	0.000	0.000	0.000	2.000
2	2	1	0.5000E-01	0.000	0.000	0.000	2.000
3	3	1	0.5000E-01	0.000	0.000	0.000	2.000
4	4	1	0.5000E-01	0.000	0.000	0.000	2.000
5	5	1	0.5000E-01	0.000	0.000	0.000	2.000
6	6	1	0.5000E-01	0.000	0.000	0.000	2.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	279 di 401

RELAZIONE DI CALCOLO

7	7	1	0.5000E-01	0.000	0.000	0.000	2.000
8	8	1	0.5000E-01	0.000	0.000	0.000	2.000
9	9	1	0.5000E-01	0.000	0.000	0.000	2.000
10	10	1	0.5000E-01	0.000	0.000	0.000	2.000
11	11	1	0.5000E-01	0.000	0.000	0.000	2.000
12	12	1	0.5000E-01	0.000	0.000	0.000	2.000
13	13	1	0.5000E-01	0.000	0.000	0.000	2.000
14	14	1	0.5000E-01	0.000	0.000	0.000	2.000
15	15	1	0.5000E-01	0.000	0.000	0.000	2.000
16	16	1	0.5000E-01	0.000	0.000	0.000	2.000
17	17	1	0.5000E-01	0.000	0.000	0.000	2.000
18	18	1	0.5000E-01	0.000	0.000	0.000	2.000
19	19	1	0.5000E-01	0.000	0.000	0.000	2.000
20	20	1	0.5000E-01	0.000	0.000	0.000	2.000
21	21	1	0.5000E-01	0.000	0.000	0.000	2.000
22	22	1	0.5000E-01	0.000	0.000	0.000	2.000
23	23	1	0.5000E-01	0.000	0.000	0.000	2.000
24	24	1	0.5000E-01	0.000	0.000	0.000	2.000
25	25	1	0.5000E-01	0.000	0.000	0.000	2.000
26	26	1	0.5000E-01	0.000	0.000	0.000	2.000
27	27	1	0.5000E-01	0.000	0.000	0.000	2.000
28	28	1	0.5000E-01	0.000	0.000	0.000	2.000
29	29	1	0.5000E-01	0.000	0.000	0.000	2.000
30	30	1	0.5000E-01	0.000	0.000	0.000	2.000
31	31	1	0.5000E-01	0.000	0.000	0.000	2.000
32	32	1	0.5000E-01	0.000	0.000	0.000	2.000
33	33	1	0.5000E-01	0.000	0.000	0.000	2.000
34	34	1	0.5000E-01	0.000	0.000	0.000	2.000
35	35	1	0.5000E-01	0.000	0.000	0.000	2.000
36	36	1	0.5000E-01	0.000	0.000	0.000	2.000
37	37	1	0.5000E-01	0.000	0.000	0.000	2.000
38	38	1	0.5000E-01	0.000	0.000	0.000	2.000
39	39	1	0.5000E-01	0.000	0.000	0.000	2.000
40	40	1	0.5000E-01	0.000	0.000	0.000	2.000
41	41	1	0.5000E-01	0.000	0.000	0.000	2.000
42	42	1	0.5000E-01	0.000	0.000	0.000	2.000
43	43	1	0.5000E-01	0.000	0.000	0.000	2.000
44	44	1	0.5000E-01	0.000	0.000	0.000	2.000
45	45	1	0.5000E-01	0.000	0.000	0.000	2.000
46	46	1	0.5000E-01	0.000	0.000	0.000	2.000
47	47	1	0.5000E-01	0.000	0.000	0.000	2.000
48	48	1	0.5000E-01	0.000	0.000	0.000	2.000
49	49	1	0.5000E-01	0.000	0.000	0.000	2.000
50	50	1	0.5000E-01	0.000	0.000	0.000	2.000
51	51	1	0.5000E-01	0.000	0.000	0.000	2.000
52	52	1	0.5000E-01	0.000	0.000	0.000	2.000
53	53	1	0.5000E-01	0.000	0.000	0.000	2.000
54	54	1	0.5000E-01	0.000	0.000	0.000	2.000
55	55	1	0.5000E-01	0.000	0.000	0.000	2.000
56	56	1	0.5000E-01	0.000	0.000	0.000	2.000
57	57	1	0.5000E-01	0.000	0.000	0.000	2.000
58	58	1	0.5000E-01	0.000	0.000	0.000	2.000
59	59	1	0.5000E-01	0.000	0.000	0.000	2.000
60	60	1	0.5000E-01	0.000	0.000	0.000	2.000
61	61	1	0.5000E-01	0.000	0.000	0.000	2.000
62	62	1	0.5000E-01	0.000	0.000	0.000	2.000
63	63	1	0.5000E-01	0.000	0.000	0.000	2.000
64	64	1	0.5000E-01	0.000	0.000	0.000	2.000
65	65	1	0.5000E-01	0.000	0.000	0.000	2.000
66	66	1	0.5000E-01	0.000	0.000	0.000	2.000
67	67	1	0.5000E-01	0.000	0.000	0.000	2.000
68	68	1	0.5000E-01	0.000	0.000	0.000	2.000
69	69	1	0.5000E-01	0.000	0.000	0.000	2.000
70	70	1	0.5000E-01	0.000	0.000	0.000	2.000
71	71	1	0.5000E-01	0.000	0.000	0.000	2.000
72	72	1	0.5000E-01	0.000	0.000	0.000	2.000
73	73	1	0.5000E-01	0.000	0.000	0.000	2.000
74	74	1	0.5000E-01	0.000	0.000	0.000	2.000
75	75	1	0.5000E-01	0.000	0.000	0.000	2.000
76	76	1	0.5000E-01	0.000	0.000	0.000	2.000
77	77	1	0.5000E-01	0.000	0.000	0.000	2.000
78	78	1	0.5000E-01	0.000	0.000	0.000	2.000
79	79	1	0.5000E-01	0.000	0.000	0.000	2.000
80	80	1	0.5000E-01	0.000	0.000	0.000	2.000
81	81	1	0.5000E-01	0.000	0.000	0.000	2.000
82	82	1	0.5000E-01	0.000	0.000	0.000	2.000
83	83	1	0.5000E-01	0.000	0.000	0.000	2.000
84	84	1	0.5000E-01	0.000	0.000	0.000	2.000
85	85	1	0.5000E-01	0.000	0.000	0.000	2.000
86	86	1	0.5000E-01	0.000	0.000	0.000	2.000
87	87	1	0.5000E-01	0.000	0.000	0.000	2.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	280 di 401

88	88	1	0.5000E-01	0.000	0.000	0.000	2.000
89	89	1	0.5000E-01	0.000	0.000	0.000	2.000
90	90	1	0.5000E-01	0.000	0.000	0.000	2.000
91	91	1	0.5000E-01	0.000	0.000	0.000	2.000
92	92	1	0.5000E-01	0.000	0.000	0.000	2.000
93	93	1	0.5000E-01	0.000	0.000	0.000	2.000
94	94	1	0.5000E-01	0.000	0.000	0.000	2.000
95	95	1	0.5000E-01	0.000	0.000	0.000	2.000
96	96	1	0.5000E-01	0.000	0.000	0.000	2.000
97	97	1	0.5000E-01	0.000	0.000	0.000	2.000
98	98	1	0.5000E-01	0.000	0.000	0.000	2.000
99	99	1	0.5000E-01	0.000	0.000	0.000	2.000
100	100	1	0.5000E-01	0.000	0.000	0.000	2.000
101	101	1	0.5000E-01	0.000	0.000	0.000	2.000
102	102	1	0.5000E-01	0.000	0.000	0.000	2.000
103	103	1	0.5000E-01	0.000	0.000	0.000	2.000
104	104	1	0.5000E-01	0.000	0.000	0.000	2.000
105	105	1	0.5000E-01	0.000	0.000	0.000	2.000
106	106	1	0.5000E-01	0.000	0.000	0.000	2.000
107	107	1	0.5000E-01	0.000	0.000	0.000	2.000
108	108	1	0.5000E-01	0.000	0.000	0.000	2.000
109	109	1	0.5000E-01	0.000	0.000	0.000	2.000
110	110	1	0.5000E-01	0.000	0.000	0.000	2.000
111	111	1	0.5000E-01	0.000	0.000	0.000	2.000
112	112	1	0.5000E-01	0.000	0.000	0.000	2.000
113	113	1	0.5000E-01	0.000	0.000	0.000	2.000
114	114	1	0.5000E-01	0.000	0.000	0.000	2.000
115	115	1	0.5000E-01	0.000	0.000	0.000	2.000
116	116	1	0.5000E-01	0.000	0.000	0.000	2.000
117	117	1	0.5000E-01	0.000	0.000	0.000	2.000
118	118	1	0.5000E-01	0.000	0.000	0.000	2.000
119	119	1	0.5000E-01	0.000	0.000	0.000	2.000
120	120	1	0.5000E-01	0.000	0.000	0.000	2.000
121	121	1	0.5000E-01	0.000	0.000	0.000	2.000
122	122	1	0.5000E-01	0.000	0.000	0.000	2.000
123	123	1	0.5000E-01	0.000	0.000	0.000	2.000
124	124	1	0.5000E-01	0.000	0.000	0.000	2.000
125	125	1	0.5000E-01	0.000	0.000	0.000	2.000
126	126	1	0.5000E-01	0.000	0.000	0.000	2.000
127	127	1	0.5000E-01	0.000	0.000	0.000	2.000
128	128	1	0.5000E-01	0.000	0.000	0.000	2.000
129	129	1	0.5000E-01	0.000	0.000	0.000	2.000
130	130	1	0.5000E-01	0.000	0.000	0.000	2.000
131	131	1	0.5000E-01	0.000	0.000	0.000	2.000
132	132	1	0.5000E-01	0.000	0.000	0.000	2.000
133	133	1	0.5000E-01	0.000	0.000	0.000	2.000
134	134	1	0.5000E-01	0.000	0.000	0.000	2.000
135	135	1	0.5000E-01	0.000	0.000	0.000	2.000
136	136	1	0.5000E-01	0.000	0.000	0.000	2.000
137	137	1	0.5000E-01	0.000	0.000	0.000	2.000
138	138	1	0.5000E-01	0.000	0.000	0.000	2.000
139	139	1	0.5000E-01	0.000	0.000	0.000	2.000
140	140	1	0.5000E-01	0.000	0.000	0.000	2.000
141	141	1	0.5000E-01	0.000	0.000	0.000	2.000
142	142	1	0.5000E-01	0.000	0.000	0.000	2.000
143	143	1	0.5000E-01	0.000	0.000	0.000	2.000
144	144	1	0.5000E-01	0.000	0.000	0.000	2.000
145	145	1	0.5000E-01	0.000	0.000	0.000	2.000
146	146	1	0.5000E-01	0.000	0.000	0.000	2.000
147	147	1	0.5000E-01	0.000	0.000	0.000	2.000
148	148	1	0.5000E-01	0.000	0.000	0.000	2.000
149	149	1	0.5000E-01	0.000	0.000	0.000	2.000
150	150	1	0.5000E-01	0.000	0.000	0.000	2.000
151	151	1	0.5000E-01	0.000	0.000	0.000	2.000
152	152	1	0.5000E-01	0.000	0.000	0.000	2.000
153	153	1	0.5000E-01	0.000	0.000	0.000	2.000
154	154	1	0.5000E-01	0.000	0.000	0.000	2.000
155	155	1	0.5000E-01	0.000	0.000	0.000	2.000
156	156	1	0.5000E-01	0.000	0.000	0.000	2.000
157	157	1	0.5000E-01	0.000	0.000	0.000	2.000
158	158	1	0.5000E-01	0.000	0.000	0.000	2.000
159	159	1	0.5000E-01	0.000	0.000	0.000	2.000
160	160	1	0.5000E-01	0.000	0.000	0.000	2.000
161	161	1	0.5000E-01	0.000	0.000	0.000	2.000
162	162	1	0.5000E-01	0.000	0.000	0.000	2.000
163	163	1	0.5000E-01	0.000	0.000	0.000	2.000
164	164	1	0.5000E-01	0.000	0.000	0.000	2.000
165	165	1	0.5000E-01	0.000	0.000	0.000	2.000
166	166	1	0.5000E-01	0.000	0.000	0.000	2.000
167	167	1	0.5000E-01	0.000	0.000	0.000	2.000
168	168	1	0.5000E-01	0.000	0.000	0.000	2.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	281 di 401

RELAZIONE DI CALCOLO

169	169	1	0.5000E-01	0.000	0.000	0.000	2.000
170	170	1	0.5000E-01	0.000	0.000	0.000	2.000
171	171	1	0.5000E-01	0.000	0.000	0.000	2.000
172	172	1	0.5000E-01	0.000	0.000	0.000	2.000
173	173	1	0.5000E-01	0.000	0.000	0.000	2.000
174	174	1	0.5000E-01	0.000	0.000	0.000	2.000
175	175	1	0.5000E-01	0.000	0.000	0.000	2.000
176	176	1	0.5000E-01	0.000	0.000	0.000	2.000
177	177	1	0.5000E-01	0.000	0.000	0.000	2.000
178	178	1	0.5000E-01	0.000	0.000	0.000	2.000
179	179	1	0.5000E-01	0.000	0.000	0.000	2.000
180	180	1	0.5000E-01	0.000	0.000	0.000	2.000
181	181	1	0.5000E-01	0.000	0.000	0.000	2.000
182	182	1	0.5000E-01	0.000	0.000	0.000	2.000
183	183	1	0.5000E-01	0.000	0.000	0.000	2.000
184	184	1	0.5000E-01	0.000	0.000	0.000	2.000
185	185	1	0.5000E-01	0.000	0.000	0.000	2.000
186	186	1	0.5000E-01	0.000	0.000	0.000	2.000
187	187	1	0.5000E-01	0.000	0.000	0.000	2.000
188	188	1	0.5000E-01	0.000	0.000	0.000	2.000
189	189	1	0.5000E-01	0.000	0.000	0.000	2.000
190	190	1	0.5000E-01	0.000	0.000	0.000	2.000
191	191	1	0.5000E-01	0.000	0.000	0.000	2.000
192	192	1	0.5000E-01	0.000	0.000	0.000	2.000
193	193	1	0.5000E-01	0.000	0.000	0.000	2.000
194	194	1	0.5000E-01	0.000	0.000	0.000	2.000
195	195	1	0.5000E-01	0.000	0.000	0.000	2.000
196	196	1	0.5000E-01	0.000	0.000	0.000	2.000
197	197	1	0.5000E-01	0.000	0.000	0.000	2.000
198	198	1	0.5000E-01	0.000	0.000	0.000	2.000
199	199	1	0.5000E-01	0.000	0.000	0.000	2.000
200	200	1	0.4999E-01	0.000	0.000	0.000	2.000
201	201	1	0.2499E-01	0.000	0.000	0.000	2.000

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection 28.SISMICASTR_986
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ELEMENT GROUP NO. 3

WallElement_33
2 200 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0
.....2D WALL ELEMENT.....

element group behaviour throughout stage analysis

stage status

1 inactive
2 active
3 active

material set no. 1

prop(1) young modulus 0.210000E+09
prop(2) modification time 0.00000
prop(3) new young modulus 0.00000
prop(4) poisson ratio 0.00000
prop(5) future0.168200E-43

no. of step variable items: 1
step inertia multiplier

1 1.000
2 1.000
3 1.000

element data

el	na	nb	mat	erc1	erc2	thick
1	1	2	1	0.000	0.000	0.1381
2	2	3	1	0.000	0.000	0.1381
3	3	4	1	0.000	0.000	0.1381

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	282 di 401

4	4	5	1	0.000	0.000	0.1381
5	5	6	1	0.000	0.000	0.1381
6	6	7	1	0.000	0.000	0.1381
7	7	8	1	0.000	0.000	0.1381
8	8	9	1	0.000	0.000	0.1381
9	9	10	1	0.000	0.000	0.1381
10	10	11	1	0.000	0.000	0.1381
11	11	12	1	0.000	0.000	0.1381
12	12	13	1	0.000	0.000	0.1381
13	13	14	1	0.000	0.000	0.1381
14	14	15	1	0.000	0.000	0.1381
15	15	16	1	0.000	0.000	0.1381
16	16	17	1	0.000	0.000	0.1381
17	17	18	1	0.000	0.000	0.1381
18	18	19	1	0.000	0.000	0.1381
19	19	20	1	0.000	0.000	0.1381
20	20	21	1	0.000	0.000	0.1381
21	21	22	1	0.000	0.000	0.1381
22	22	23	1	0.000	0.000	0.1381
23	23	24	1	0.000	0.000	0.1381
24	24	25	1	0.000	0.000	0.1381
25	25	26	1	0.000	0.000	0.1381
26	26	27	1	0.000	0.000	0.1381
27	27	28	1	0.000	0.000	0.1381
28	28	29	1	0.000	0.000	0.1381
29	29	30	1	0.000	0.000	0.1381
30	30	31	1	0.000	0.000	0.1381
31	31	32	1	0.000	0.000	0.1381
32	32	33	1	0.000	0.000	0.1381
33	33	34	1	0.000	0.000	0.1381
34	34	35	1	0.000	0.000	0.1381
35	35	36	1	0.000	0.000	0.1381
36	36	37	1	0.000	0.000	0.1381
37	37	38	1	0.000	0.000	0.1381
38	38	39	1	0.000	0.000	0.1381
39	39	40	1	0.000	0.000	0.1381
40	40	41	1	0.000	0.000	0.1381
41	41	42	1	0.000	0.000	0.1381
42	42	43	1	0.000	0.000	0.1381
43	43	44	1	0.000	0.000	0.1381
44	44	45	1	0.000	0.000	0.1381
45	45	46	1	0.000	0.000	0.1381
46	46	47	1	0.000	0.000	0.1381
47	47	48	1	0.000	0.000	0.1381
48	48	49	1	0.000	0.000	0.1381
49	49	50	1	0.000	0.000	0.1381
50	50	51	1	0.000	0.000	0.1381
51	51	52	1	0.000	0.000	0.1381
52	52	53	1	0.000	0.000	0.1381
53	53	54	1	0.000	0.000	0.1381
54	54	55	1	0.000	0.000	0.1381
55	55	56	1	0.000	0.000	0.1381
56	56	57	1	0.000	0.000	0.1381
57	57	58	1	0.000	0.000	0.1381
58	58	59	1	0.000	0.000	0.1381
59	59	60	1	0.000	0.000	0.1381
60	60	61	1	0.000	0.000	0.1381
61	61	62	1	0.000	0.000	0.1381
62	62	63	1	0.000	0.000	0.1381
63	63	64	1	0.000	0.000	0.1381
64	64	65	1	0.000	0.000	0.1381
65	65	66	1	0.000	0.000	0.1381
66	66	67	1	0.000	0.000	0.1381
67	67	68	1	0.000	0.000	0.1381
68	68	69	1	0.000	0.000	0.1381
69	69	70	1	0.000	0.000	0.1381
70	70	71	1	0.000	0.000	0.1381
71	71	72	1	0.000	0.000	0.1381
72	72	73	1	0.000	0.000	0.1381
73	73	74	1	0.000	0.000	0.1381
74	74	75	1	0.000	0.000	0.1381
75	75	76	1	0.000	0.000	0.1381
76	76	77	1	0.000	0.000	0.1381
77	77	78	1	0.000	0.000	0.1381
78	78	79	1	0.000	0.000	0.1381
79	79	80	1	0.000	0.000	0.1381
80	80	81	1	0.000	0.000	0.1381
81	81	82	1	0.000	0.000	0.1381
82	82	83	1	0.000	0.000	0.1381
83	83	84	1	0.000	0.000	0.1381
84	84	85	1	0.000	0.000	0.1381



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	283 di 401

RELAZIONE DI CALCOLO

85	85	86	1	0.000	0.000	0.1381
86	86	87	1	0.000	0.000	0.1381
87	87	88	1	0.000	0.000	0.1381
88	88	89	1	0.000	0.000	0.1381
89	89	90	1	0.000	0.000	0.1381
90	90	91	1	0.000	0.000	0.1381
91	91	92	1	0.000	0.000	0.1381
92	92	93	1	0.000	0.000	0.1381
93	93	94	1	0.000	0.000	0.1381
94	94	95	1	0.000	0.000	0.1381
95	95	96	1	0.000	0.000	0.1381
96	96	97	1	0.000	0.000	0.1381
97	97	98	1	0.000	0.000	0.1381
98	98	99	1	0.000	0.000	0.1381
99	99	100	1	0.000	0.000	0.1381
100	100	101	1	0.000	0.000	0.1381
101	101	102	1	0.000	0.000	0.1381
102	102	103	1	0.000	0.000	0.1381
103	103	104	1	0.000	0.000	0.1381
104	104	105	1	0.000	0.000	0.1381
105	105	106	1	0.000	0.000	0.1381
106	106	107	1	0.000	0.000	0.1381
107	107	108	1	0.000	0.000	0.1381
108	108	109	1	0.000	0.000	0.1381
109	109	110	1	0.000	0.000	0.1381
110	110	111	1	0.000	0.000	0.1381
111	111	112	1	0.000	0.000	0.1381
112	112	113	1	0.000	0.000	0.1381
113	113	114	1	0.000	0.000	0.1381
114	114	115	1	0.000	0.000	0.1381
115	115	116	1	0.000	0.000	0.1381
116	116	117	1	0.000	0.000	0.1381
117	117	118	1	0.000	0.000	0.1381
118	118	119	1	0.000	0.000	0.1381
119	119	120	1	0.000	0.000	0.1381
120	120	121	1	0.000	0.000	0.1381
121	121	122	1	0.000	0.000	0.1381
122	122	123	1	0.000	0.000	0.1381
123	123	124	1	0.000	0.000	0.1381
124	124	125	1	0.000	0.000	0.1381
125	125	126	1	0.000	0.000	0.1381
126	126	127	1	0.000	0.000	0.1381
127	127	128	1	0.000	0.000	0.1381
128	128	129	1	0.000	0.000	0.1381
129	129	130	1	0.000	0.000	0.1381
130	130	131	1	0.000	0.000	0.1381
131	131	132	1	0.000	0.000	0.1381
132	132	133	1	0.000	0.000	0.1381
133	133	134	1	0.000	0.000	0.1381
134	134	135	1	0.000	0.000	0.1381
135	135	136	1	0.000	0.000	0.1381
136	136	137	1	0.000	0.000	0.1381
137	137	138	1	0.000	0.000	0.1381
138	138	139	1	0.000	0.000	0.1381
139	139	140	1	0.000	0.000	0.1381
140	140	141	1	0.000	0.000	0.1381
141	141	142	1	0.000	0.000	0.1381
142	142	143	1	0.000	0.000	0.1381
143	143	144	1	0.000	0.000	0.1381
144	144	145	1	0.000	0.000	0.1381
145	145	146	1	0.000	0.000	0.1381
146	146	147	1	0.000	0.000	0.1381
147	147	148	1	0.000	0.000	0.1381
148	148	149	1	0.000	0.000	0.1381
149	149	150	1	0.000	0.000	0.1381
150	150	151	1	0.000	0.000	0.1381
151	151	152	1	0.000	0.000	0.1381
152	152	153	1	0.000	0.000	0.1381
153	153	154	1	0.000	0.000	0.1381
154	154	155	1	0.000	0.000	0.1381
155	155	156	1	0.000	0.000	0.1381
156	156	157	1	0.000	0.000	0.1381
157	157	158	1	0.000	0.000	0.1381
158	158	159	1	0.000	0.000	0.1381
159	159	160	1	0.000	0.000	0.1381
160	160	161	1	0.000	0.000	0.1381
161	161	162	1	0.000	0.000	0.1381
162	162	163	1	0.000	0.000	0.1381
163	163	164	1	0.000	0.000	0.1381
164	164	165	1	0.000	0.000	0.1381
165	165	166	1	0.000	0.000	0.1381



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	284 di 401

166	166	167	1	0.000	0.000	0.1381
167	167	168	1	0.000	0.000	0.1381
168	168	169	1	0.000	0.000	0.1381
169	169	170	1	0.000	0.000	0.1381
170	170	171	1	0.000	0.000	0.1381
171	171	172	1	0.000	0.000	0.1381
172	172	173	1	0.000	0.000	0.1381
173	173	174	1	0.000	0.000	0.1381
174	174	175	1	0.000	0.000	0.1381
175	175	176	1	0.000	0.000	0.1381
176	176	177	1	0.000	0.000	0.1381
177	177	178	1	0.000	0.000	0.1381
178	178	179	1	0.000	0.000	0.1381
179	179	180	1	0.000	0.000	0.1381
180	180	181	1	0.000	0.000	0.1381
181	181	182	1	0.000	0.000	0.1381
182	182	183	1	0.000	0.000	0.1381
183	183	184	1	0.000	0.000	0.1381
184	184	185	1	0.000	0.000	0.1381
185	185	186	1	0.000	0.000	0.1381
186	186	187	1	0.000	0.000	0.1381
187	187	188	1	0.000	0.000	0.1381
188	188	189	1	0.000	0.000	0.1381
189	189	190	1	0.000	0.000	0.1381
190	190	191	1	0.000	0.000	0.1381
191	191	192	1	0.000	0.000	0.1381
192	192	193	1	0.000	0.000	0.1381
193	193	194	1	0.000	0.000	0.1381
194	194	195	1	0.000	0.000	0.1381
195	195	196	1	0.000	0.000	0.1381
196	196	197	1	0.000	0.000	0.1381
197	197	198	1	0.000	0.000	0.1381
198	198	199	1	0.000	0.000	0.1381
199	199	200	1	0.000	0.000	0.1381
200	200	201	1	0.000	0.000	0.1381

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICASTR_986
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NO. OF NODAL LOADS (NLOAD) 0
NO. OF LOAD CURVES (NLCUR) 6
MAXIMUM POINTS/LCURVE (NPTM)..... 5

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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LOAD DATA

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
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LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	285 di 401

RELAZIONE DI CALCOLO

0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
4.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

PARATIEPLUS (TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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LOAD BALANCE

STEP	1	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	1	TOTAL APPLIED LOAD IN DIR.	4	X-ROT.F	0.0000000
STEP	2	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	2	TOTAL APPLIED LOAD IN DIR.	4	X-ROT.F	0.0000000
STEP	3	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	3	TOTAL APPLIED LOAD IN DIR.	4	X-ROT.F	0.0000000

LOAD INPUT SECTION COMPLETED



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	286 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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NO. OF LAYERS 1
NO. OF DATA PER LAYER..... 100

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO. 1<NAME	>= 10.000	(BOTH WALLS)	
ITEM NO. 2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO. 3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO. 4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO. 5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO. 6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO. 7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO. 8<U-COHE	>= 10.000	(BOTH WALLS)	
ITEM NO. 9<U-FRICT	>= 25.000	(BOTH WALLS)	
ITEM NO. 10<U-KA	>= 0.40600	WALL NO.	1
ITEM NO. 11<U-KP	>= 3.3960	WALL NO.	1
ITEM NO. 12<K0-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO. 13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO. 14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO. 16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO. 17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO. 18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO. 27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO. 52<D-NATURE>	>= 1.0000	(BOTH WALLS)	
ITEM NO. 53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO. 58<D-COHE	>= 10.000	(BOTH WALLS)	
ITEM NO. 59<D-FRICT	>= 25.000	(BOTH WALLS)	
ITEM NO. 60<D-KA	>= 0.40600	WALL NO.	1
ITEM NO. 61<D-KP	>= 3.3960	WALL NO.	1
ITEM NO. 77<D-PERM	>= 0.10000E-07	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 2

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 2

ITEM NO. 1<NAME	>= 10.000	(BOTH WALLS)	
ITEM NO. 2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO. 3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO. 4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO. 5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO. 6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO. 7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO. 8<U-COHE	>= 10.000	(BOTH WALLS)	
ITEM NO. 9<U-FRICT	>= 25.000	(BOTH WALLS)	
ITEM NO. 10<U-KA	>= 0.40600	WALL NO.	1
ITEM NO. 11<U-KP	>= 3.3960	WALL NO.	1
ITEM NO. 12<K0-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO. 13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO. 14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO. 16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO. 17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO. 18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO. 27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO. 52<D-NATURE>	>= 1.0000	(BOTH WALLS)	

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	287 di 401

RELAZIONE DI CALCOLO

ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 10.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 25.0000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.40600 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.3960 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-07 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO. 1<NAME >= 10.0000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 19.0000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 10.0000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 25.0000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.40600 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.3960 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.59330 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 0.25000E+06 (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.40000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-07 (BOTH WALLS)
 ITEM NO. 52<D-NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 10.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 25.0000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.40600 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.3960 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-07 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 3 VALUES

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+-----+
|                PARATIEPLUS(TM)  NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*
|
|
|                paratia_mario.BaseDesignSection 28.SISMICASTR_986
|                Exe Time :21 June 2016      11:57:46
|
+-----+
  
```

PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-4.000	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-10.00	-10.00
WATER_BEHAVIOUR_FLAG (LINING OPT)		0.000	0.000
PORE_UPDATE_FLAG		0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)		0.000	0.000
lateral thrusts reduction elevatio		0.000	0.000
Downhill reduction factor for effe		0.000	0.000
Downhill reduction factor for pore		0.000	0.000
Uphill reduction factor for effect		0.000	0.000
Uphill reduction factor for pore p		0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]		0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]		0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]		0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]		0.000	0.000
UPHILL DELTA/PHI RATIO		0.000	0.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	289 di 401

RELAZIONE DI CALCOLO

SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

=====end of step 3

LEFT-HAND WALL

LOWER LEVEL -10.00000
UPPER LEVEL 0.00000

RIGHT-HAND WALL

LOWER LEVEL -10.00000
UPPER LEVEL 0.00000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 3748

NO. OF D.P.W FOR THIS AREA 18840
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 40

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM= 5652. RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 6.817 RMMAX = 0.000
RTSMAL=0.1000E-04 RMSMAL= 0.000
RDT = 5652. RDR = 0.000
RATIOT= 0.000 RATIO= 0.000
MAX UN= 0.000 IEQ= 402 NODE 201 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM= 5652. RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 6.817 RMMAX = 0.000
RTSMAL=0.1000E-04 RMSMAL= 0.000
RDT = 5652. RDR = 0.000
RATIOT= 0.000 RATIO= 0.000
MAX UN= 0.000 IEQ= 402 NODE 201 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM= 5652. RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 6.817 RMMAX = 0.000
RTSMAL=0.1000E-04 RMSMAL= 0.000
RDT = 5652. RDR = 0.000
RATIOT= 0.000 RATIO= 0.000
MAX UN= 0.000 IEQ= 402 NODE 201 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

| PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016* |
| |
| paratia_mario.BaseDesignSection_28.SISMICASTR_986 |
Exe Time :21 June 2016 11:57:46

paratia_mario
SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

Y-DISPL.F X-ROT. F
(02) (04) {



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	290 di 401

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICASTR_986
Exe Time :21 June 2016 11:57:46

paratia_mario

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.9432E+05	0.000	0.000	1.000
1.000	0.000	0.000	0.000	5AL_158_160_L_0							
2 D	2.8182E-02	0.000	0.9500	0.5636	0.9500	0.5636	V-C	2.9432E+05	-5.0000E-02	0.000	1.000
1.000	0.5636	0.000	0.000	5AL_158_160_L_0							
3 D	5.6364E-02	0.000	1.900	1.127	1.900	1.127	V-C	2.9432E+05	-0.1000	0.000	1.000
1.000	1.127	0.000	0.000	5AL_158_160_L_0							
4 D	8.4545E-02	0.000	2.850	1.691	2.850	1.691	V-C	2.9432E+05	-0.1500	0.000	1.000
1.000	1.691	0.000	0.000	5AL_158_160_L_0							
5 D	0.1127	0.000	3.800	2.255	3.800	2.255	V-C	2.9432E+05	-0.2000	0.000	1.000
1.000	2.255	0.000	0.000	5AL_158_160_L_0							
6 D	0.1409	0.000	4.750	2.818	4.750	2.818	V-C	2.9432E+05	-0.2500	0.000	1.000
1.000	2.818	0.000	0.000	5AL_158_160_L_0							
7 D	0.1691	0.000	5.700	3.382	5.700	3.382	V-C	2.9432E+05	-0.3000	0.000	1.000
1.000	3.382	0.000	0.000	5AL_158_160_L_0							
8 D	0.1973	0.000	6.650	3.945	6.650	3.945	V-C	2.9432E+05	-0.3500	0.000	1.000
1.000	3.945	0.000	0.000	5AL_158_160_L_0							
9 D	0.2255	0.000	7.600	4.509	7.600	4.509	V-C	2.9432E+05	-0.4000	0.000	1.000
1.000	4.509	0.000	0.000	5AL_158_160_L_0							
10 D	0.2536	0.000	8.550	5.073	8.550	5.073	V-C	2.9432E+05	-0.4500	0.000	1.000
1.000	5.073	0.000	0.000	5AL_158_160_L_0							
11 D	0.2818	0.000	9.500	5.636	9.500	5.636	V-C	2.9432E+05	-0.5000	0.000	1.000
1.000	5.636	0.000	0.000	5AL_158_160_L_0							
12 D	0.3100	0.000	10.45	6.200	10.45	6.200	V-C	2.9432E+05	-0.5500	0.000	1.000
1.000	6.200	0.000	0.000	5AL_158_160_L_0							
13 D	0.3382	0.000	11.40	6.764	11.40	6.764	V-C	2.9432E+05	-0.6000	0.000	1.000
1.000	6.764	0.000	0.000	5AL_158_160_L_0							
14 D	0.3664	0.000	12.35	7.327	12.35	7.327	V-C	2.9432E+05	-0.6500	0.000	1.000
1.000	7.327	0.000	0.000	5AL_158_160_L_0							
15 D	0.3945	0.000	13.30	7.891	13.30	7.891	V-C	2.9432E+05	-0.7000	0.000	1.000
1.000	7.891	0.000	0.000	5AL_158_160_L_0							
16 D	0.4227	0.000	14.25	8.455	14.25	8.455	V-C	2.9432E+05	-0.7500	0.000	1.000
1.000	8.455	0.000	0.000	5AL_158_160_L_0							
17 D	0.4509	0.000	15.20	9.018	15.20	9.018	V-C	2.9432E+05	-0.8000	0.000	1.000
1.000	9.018	0.000	0.000	5AL_158_160_L_0							
18 D	0.4791	0.000	16.15	9.582	16.15	9.582	V-C	2.9432E+05	-0.8500	0.000	1.000
1.000	9.582	0.000	0.000	5AL_158_160_L_0							
19 D	0.5073	0.000	17.10	10.15	17.10	10.15	V-C	2.9432E+05	-0.9000	0.000	1.000
1.000	10.15	0.000	0.000	5AL_158_160_L_0							
20 D	0.5355	0.000	18.05	10.71	18.05	10.71	V-C	2.9432E+05	-0.9500	0.000	1.000
1.000	10.71	0.000	0.000	5AL_158_160_L_0							
21 D	0.5636	0.000	19.00	11.27	19.00	11.27	V-C	2.9432E+05	-1.000	0.000	1.000
1.000	11.27	0.000	0.000	5AL_158_160_L_0							
22 D	0.5918	0.000	19.95	11.84	19.95	11.84	V-C	2.9432E+05	-1.050	0.000	1.000
1.000	11.84	0.000	0.000	5AL_158_160_L_0							
23 D	0.6200	0.000	20.90	12.40	20.90	12.40	V-C	2.9432E+05	-1.100	0.000	1.000
1.000	12.40	0.000	0.000	5AL_158_160_L_0							
24 D	0.6482	0.000	21.85	12.96	21.85	12.96	V-C	2.9432E+05	-1.150	0.000	1.000
1.000	12.96	0.000	0.000	5AL_158_160_L_0							
25 D	0.6764	0.000	22.80	13.53	22.80	13.53	V-C	2.9432E+05	-1.200	0.000	1.000
1.000	13.53	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI				COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO	
RELAZIONE DI CALCOLO				L100	01	D 09CL	VI0100 004	A	291 di 401	
26 D	0.7045	0.000	23.75	14.09	23.75	14.09	V-C 2.9432E+05	-1.250	0.000	1.000
1.000	14.09	0.000	0.000	5AL_158_160_L_0						
27 D	0.7327	0.000	24.70	14.65	24.70	14.65	V-C 2.9432E+05	-1.300	0.000	1.000
1.000	14.65	0.000	0.000	5AL_158_160_L_0						
28 D	0.7609	0.000	25.65	15.22	25.65	15.22	V-C 2.9432E+05	-1.350	0.000	1.000
1.000	15.22	0.000	0.000	5AL_158_160_L_0						
29 D	0.7891	0.000	26.60	15.78	26.60	15.78	V-C 2.9432E+05	-1.400	0.000	1.000
1.000	15.78	0.000	0.000	5AL_158_160_L_0						
30 D	0.8173	0.000	27.55	16.35	27.55	16.35	V-C 2.9432E+05	-1.450	0.000	1.000
1.000	16.35	0.000	0.000	5AL_158_160_L_0						
31 D	0.8455	0.000	28.50	16.91	28.50	16.91	V-C 2.9432E+05	-1.500	0.000	1.000
1.000	16.91	0.000	0.000	5AL_158_160_L_0						
32 D	0.8736	0.000	29.45	17.47	29.45	17.47	V-C 2.9432E+05	-1.550	0.000	1.000
1.000	17.47	0.000	0.000	5AL_158_160_L_0						
33 D	0.9018	0.000	30.40	18.04	30.40	18.04	V-C 2.9432E+05	-1.600	0.000	1.000
1.000	18.04	0.000	0.000	5AL_158_160_L_0						
34 D	0.9300	0.000	31.35	18.60	31.35	18.60	V-C 2.9432E+05	-1.650	0.000	1.000
1.000	18.60	0.000	0.000	5AL_158_160_L_0						
35 D	0.9582	0.000	32.30	19.16	32.30	19.16	V-C 2.9432E+05	-1.700	0.000	1.000
1.000	19.16	0.000	0.000	5AL_158_160_L_0						
36 D	0.9864	0.000	33.25	19.73	33.25	19.73	V-C 2.9432E+05	-1.750	0.000	1.000
1.000	19.73	0.000	0.000	5AL_158_160_L_0						
37 D	1.015	0.000	34.20	20.29	34.20	20.29	V-C 2.9432E+05	-1.800	0.000	1.000
1.000	20.29	0.000	0.000	5AL_158_160_L_0						
38 D	1.043	0.000	35.15	20.85	35.15	20.85	V-C 2.9432E+05	-1.850	0.000	1.000
1.000	20.85	0.000	0.000	5AL_158_160_L_0						
39 D	1.071	0.000	36.10	21.42	36.10	21.42	V-C 2.9432E+05	-1.900	0.000	1.000
1.000	21.42	0.000	0.000	5AL_158_160_L_0						
40 D	1.099	0.000	37.05	21.98	37.05	21.98	V-C 2.9432E+05	-1.950	0.000	1.000
1.000	21.98	0.000	0.000	5AL_158_160_L_0						
41 D	1.127	0.000	38.00	22.55	38.00	22.55	V-C 2.9432E+05	-2.000	0.000	1.000
1.000	22.55	0.000	0.000	5AL_158_160_L_0						
42 D	1.155	0.000	38.95	23.11	38.95	23.11	V-C 2.9432E+05	-2.050	0.000	1.000
1.000	23.11	0.000	0.000	5AL_158_160_L_0						
43 D	1.184	0.000	39.90	23.67	39.90	23.67	V-C 2.9432E+05	-2.100	0.000	1.000
1.000	23.67	0.000	0.000	5AL_158_160_L_0						
44 D	1.212	0.000	40.85	24.24	40.85	24.24	V-C 2.9432E+05	-2.150	0.000	1.000
1.000	24.24	0.000	0.000	5AL_158_160_L_0						
45 D	1.240	0.000	41.80	24.80	41.80	24.80	V-C 2.9432E+05	-2.200	0.000	1.000
1.000	24.80	0.000	0.000	5AL_158_160_L_0						
46 D	1.268	0.000	42.75	25.36	42.75	25.36	V-C 2.9432E+05	-2.250	0.000	1.000
1.000	25.36	0.000	0.000	5AL_158_160_L_0						
47 D	1.296	0.000	43.70	25.93	43.70	25.93	V-C 2.9432E+05	-2.300	0.000	1.000
1.000	25.93	0.000	0.000	5AL_158_160_L_0						
48 D	1.325	0.000	44.65	26.49	44.65	26.49	V-C 2.9432E+05	-2.350	0.000	1.000
1.000	26.49	0.000	0.000	5AL_158_160_L_0						
49 D	1.353	0.000	45.60	27.05	45.60	27.05	V-C 2.9432E+05	-2.400	0.000	1.000
1.000	27.05	0.000	0.000	5AL_158_160_L_0						
50 D	1.381	0.000	46.55	27.62	46.55	27.62	V-C 2.9432E+05	-2.450	0.000	1.000
1.000	27.62	0.000	0.000	5AL_158_160_L_0						
51 D	1.409	0.000	47.50	28.18	47.50	28.18	V-C 2.9432E+05	-2.500	0.000	1.000
1.000	28.18	0.000	0.000	5AL_158_160_L_0						
52 D	1.437	0.000	48.45	28.75	48.45	28.75	V-C 2.9432E+05	-2.550	0.000	1.000
1.000	28.75	0.000	0.000	5AL_158_160_L_0						
53 D	1.465	0.000	49.40	29.31	49.40	29.31	V-C 2.9432E+05	-2.600	0.000	1.000
1.000	29.31	0.000	0.000	5AL_158_160_L_0						
54 D	1.494	0.000	50.35	29.87	50.35	29.87	V-C 2.9432E+05	-2.650	0.000	1.000
1.000	29.87	0.000	0.000	5AL_158_160_L_0						
55 D	1.522	0.000	51.30	30.44	51.30	30.44	V-C 2.9432E+05	-2.700	0.000	1.000
1.000	30.44	0.000	0.000	5AL_158_160_L_0						
56 D	1.550	0.000	52.25	31.00	52.25	31.00	V-C 2.9432E+05	-2.750	0.000	1.000
1.000	31.00	0.000	0.000	5AL_158_160_L_0						
57 D	1.578	0.000	53.20	31.56	53.20	31.56	V-C 2.9432E+05	-2.800	0.000	1.000
1.000	31.56	0.000	0.000	5AL_158_160_L_0						
58 D	1.606	0.000	54.15	32.13	54.15	32.13	V-C 2.9432E+05	-2.850	0.000	1.000
1.000	32.13	0.000	0.000	5AL_158_160_L_0						
59 D	1.635	0.000	55.10	32.69	55.10	32.69	V-C 2.9432E+05	-2.900	0.000	1.000
1.000	32.69	0.000	0.000	5AL_158_160_L_0						
60 D	1.663	0.000	56.05	33.25	56.05	33.25	V-C 2.9432E+05	-2.950	0.000	1.000
1.000	33.25	0.000	0.000	5AL_158_160_L_0						
61 D	1.691	0.000	57.00	33.82	57.00	33.82	V-C 2.9432E+05	-3.000	0.000	1.000
1.000	33.82	0.000	0.000	5AL_158_160_L_0						
62 D	1.719	0.000	57.95	34.38	57.95	34.38	V-C 2.9432E+05	-3.050	0.000	1.000
1.000	34.38	0.000	0.000	5AL_158_160_L_0						
63 D	1.747	0.000	58.90	34.95	58.90	34.95	V-C 2.9432E+05	-3.100	0.000	1.000
1.000	34.95	0.000	0.000	5AL_158_160_L_0						
64 D	1.775	0.000	59.85	35.51	59.85	35.51	V-C 2.9432E+05	-3.150	0.000	1.000
1.000	35.51	0.000	0.000	5AL_158_160_L_0						
65 D	1.804	0.000	60.80	36.07	60.80	36.07	V-C 2.9432E+05	-3.200	0.000	1.000
1.000	36.07	0.000	0.000	5AL_158_160_L_0						
66 D	1.832	0.000	61.75	36.64	61.75	36.64	V-C 2.9432E+05	-3.250	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	292 di 401

1.000	36.64	0.000	0.000	SAL_158_160_L_0							
67 D	1.860	0.000	62.70	37.20	62.70	37.20	V-C	2.9432E+05	-3.300	0.000	1.000
1.000	37.20	0.000	0.000	SAL_158_160_L_0							
68 D	1.888	0.000	63.65	37.76	63.65	37.76	V-C	2.9432E+05	-3.350	0.000	1.000
1.000	37.76	0.000	0.000	SAL_158_160_L_0							
69 D	1.916	0.000	64.60	38.33	64.60	38.33	V-C	2.9432E+05	-3.400	0.000	1.000
1.000	38.33	0.000	0.000	SAL_158_160_L_0							
70 D	1.945	0.000	65.55	38.89	65.55	38.89	V-C	2.9432E+05	-3.450	0.000	1.000
1.000	38.89	0.000	0.000	SAL_158_160_L_0							
71 D	1.973	0.000	66.50	39.45	66.50	39.45	V-C	2.9432E+05	-3.500	0.000	1.000
1.000	39.45	0.000	0.000	SAL_158_160_L_0							
72 D	2.001	0.000	67.45	40.02	67.45	40.02	V-C	2.9432E+05	-3.550	0.000	1.000
1.000	40.02	0.000	0.000	SAL_158_160_L_0							
73 D	2.029	0.000	68.40	40.58	68.40	40.58	V-C	2.9432E+05	-3.600	0.000	1.000
1.000	40.58	0.000	0.000	SAL_158_160_L_0							
74 D	2.057	0.000	69.35	41.15	69.35	41.15	V-C	2.9432E+05	-3.650	0.000	1.000
1.000	41.15	0.000	0.000	SAL_158_160_L_0							
75 D	2.085	0.000	70.30	41.71	70.30	41.71	V-C	2.9432E+05	-3.700	0.000	1.000
1.000	41.71	0.000	0.000	SAL_158_160_L_0							
76 D	2.114	0.000	71.25	42.27	71.25	42.27	V-C	2.9432E+05	-3.750	0.000	1.000
1.000	42.27	0.000	0.000	SAL_158_160_L_0							
77 D	2.142	0.000	72.20	42.84	72.20	42.84	V-C	2.9432E+05	-3.800	0.000	1.000
1.000	42.84	0.000	0.000	SAL_158_160_L_0							
78 D	2.170	0.000	73.15	43.40	73.15	43.40	V-C	2.9432E+05	-3.850	0.000	1.000
1.000	43.40	0.000	0.000	SAL_158_160_L_0							
79 D	2.198	0.000	74.10	43.96	74.10	43.96	V-C	2.9432E+05	-3.900	0.000	1.000
1.000	43.96	0.000	0.000	SAL_158_160_L_0							
80 D	2.226	0.000	75.05	44.53	75.05	44.53	V-C	2.9432E+05	-3.950	0.000	1.000
1.000	44.53	0.000	0.000	SAL_158_160_L_0							
81 D	2.255	0.000	76.00	45.09	76.00	45.09	V-C	2.9432E+05	-4.000	0.000	1.000
1.000	45.09	0.000	0.000	SAL_158_160_L_0							
82 D	2.293	0.000	76.45	45.36	76.45	45.36	V-C	2.9432E+05	-4.050	0.5000	1.000
1.000	45.86	0.000	0.000	SAL_158_160_L_0							
83 D	2.331	0.000	76.90	45.62	76.90	45.62	V-C	2.9432E+05	-4.100	1.000	1.000
1.000	46.62	0.000	0.000	SAL_158_160_L_0							
84 D	2.370	0.000	77.35	45.89	77.35	45.89	V-C	2.9432E+05	-4.150	1.500	1.000
1.000	47.39	0.000	0.000	SAL_158_160_L_0							
85 D	2.408	0.000	77.80	46.16	77.80	46.16	V-C	2.9432E+05	-4.200	2.000	1.000
1.000	48.16	0.000	0.000	SAL_158_160_L_0							
86 D	2.446	0.000	78.25	46.43	78.25	46.43	V-C	2.9432E+05	-4.250	2.500	1.000
1.000	48.93	0.000	0.000	SAL_158_160_L_0							
87 D	2.485	0.000	78.70	46.69	78.70	46.69	V-C	2.9432E+05	-4.300	3.000	1.000
1.000	49.69	0.000	0.000	SAL_158_160_L_0							
88 D	2.523	0.000	79.15	46.96	79.15	46.96	V-C	2.9432E+05	-4.350	3.500	1.000
1.000	50.46	0.000	0.000	SAL_158_160_L_0							
89 D	2.561	0.000	79.60	47.23	79.60	47.23	V-C	2.9432E+05	-4.400	4.000	1.000
1.000	51.23	0.000	0.000	SAL_158_160_L_0							
90 D	2.600	0.000	80.05	47.49	80.05	47.49	V-C	2.9432E+05	-4.450	4.500	1.000
1.000	51.99	0.000	0.000	SAL_158_160_L_0							
91 D	2.638	0.000	80.50	47.76	80.50	47.76	V-C	2.9432E+05	-4.500	5.000	1.000
1.000	52.76	0.000	0.000	SAL_158_160_L_0							
92 D	2.676	0.000	80.95	48.03	80.95	48.03	V-C	2.9432E+05	-4.550	5.500	1.000
1.000	53.53	0.000	0.000	SAL_158_160_L_0							
93 D	2.715	0.000	81.40	48.29	81.40	48.29	V-C	2.9432E+05	-4.600	6.000	1.000
1.000	54.29	0.000	0.000	SAL_158_160_L_0							
94 D	2.753	0.000	81.85	48.56	81.85	48.56	V-C	2.9432E+05	-4.650	6.500	1.000
1.000	55.06	0.000	0.000	SAL_158_160_L_0							
95 D	2.791	0.000	82.30	48.83	82.30	48.83	V-C	2.9432E+05	-4.700	7.000	1.000
1.000	55.83	0.000	0.000	SAL_158_160_L_0							
96 D	2.830	0.000	82.75	49.10	82.75	49.10	V-C	2.9432E+05	-4.750	7.500	1.000
1.000	56.60	0.000	0.000	SAL_158_160_L_0							
97 D	2.868	0.000	83.20	49.36	83.20	49.36	V-C	2.9432E+05	-4.800	8.000	1.000
1.000	57.36	0.000	0.000	SAL_158_160_L_0							
98 D	2.906	0.000	83.65	49.63	83.65	49.63	V-C	2.9432E+05	-4.850	8.500	1.000
1.000	58.13	0.000	0.000	SAL_158_160_L_0							
99 D	2.945	0.000	84.10	49.90	84.10	49.90	V-C	2.9432E+05	-4.900	9.000	1.000
1.000	58.90	0.000	0.000	SAL_158_160_L_0							
100 D	2.983	0.000	84.55	50.16	84.55	50.16	V-C	2.9432E+05	-4.950	9.500	1.000
1.000	59.66	0.000	0.000	SAL_158_160_L_0							
101 D	3.022	0.000	85.00	50.43	85.00	50.43	V-C	2.9432E+05	-5.000	10.00	1.000
1.000	60.43	0.000	0.000	SAL_158_160_L_0							
102 D	3.060	0.000	85.45	50.70	85.45	50.70	V-C	2.9432E+05	-5.050	10.50	1.000
1.000	61.20	0.000	0.000	SAL_158_160_L_0							
103 D	3.098	0.000	85.90	50.96	85.90	50.96	V-C	2.9432E+05	-5.100	11.00	1.000
1.000	61.96	0.000	0.000	SAL_158_160_L_0							
104 D	3.137	0.000	86.35	51.23	86.35	51.23	V-C	2.9432E+05	-5.150	11.50	1.000
1.000	62.73	0.000	0.000	SAL_158_160_L_0							
105 D	3.175	0.000	86.80	51.50	86.80	51.50	V-C	2.9432E+05	-5.200	12.00	1.000
1.000	63.50	0.000	0.000	SAL_158_160_L_0							
106 D	3.213	0.000	87.25	51.77	87.25	51.77	V-C	2.9432E+05	-5.250	12.50	1.000
1.000	64.27	0.000	0.000	SAL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	293 di 401

107 D	3.252	0.000	87.70	52.03	87.70	52.03	V-C	2.9432E+05	-5.300	13.00	1.000
1.000	65.03	0.000	0.000	5AL_158_160_L_0							
108 D	3.290	0.000	88.15	52.30	88.15	52.30	V-C	2.9432E+05	-5.350	13.50	1.000
1.000	65.80	0.000	0.000	5AL_158_160_L_0							
109 D	3.328	0.000	88.60	52.57	88.60	52.57	V-C	2.9432E+05	-5.400	14.00	1.000
1.000	66.57	0.000	0.000	5AL_158_160_L_0							
110 D	3.367	0.000	89.05	52.83	89.05	52.83	V-C	2.9432E+05	-5.450	14.50	1.000
1.000	67.33	0.000	0.000	5AL_158_160_L_0							
111 D	3.405	0.000	89.50	53.10	89.50	53.10	V-C	2.9432E+05	-5.500	15.00	1.000
1.000	68.10	0.000	0.000	5AL_158_160_L_0							
112 D	3.443	0.000	89.95	53.37	89.95	53.37	V-C	2.9432E+05	-5.550	15.50	1.000
1.000	68.87	0.000	0.000	5AL_158_160_L_0							
113 D	3.482	0.000	90.40	53.63	90.40	53.63	V-C	2.9432E+05	-5.600	16.00	1.000
1.000	69.63	0.000	0.000	5AL_158_160_L_0							
114 D	3.520	0.000	90.85	53.90	90.85	53.90	V-C	2.9432E+05	-5.650	16.50	1.000
1.000	70.40	0.000	0.000	5AL_158_160_L_0							
115 D	3.558	0.000	91.30	54.17	91.30	54.17	V-C	2.9432E+05	-5.700	17.00	1.000
1.000	71.17	0.000	0.000	5AL_158_160_L_0							
116 D	3.597	0.000	91.75	54.44	91.75	54.44	V-C	2.9432E+05	-5.750	17.50	1.000
1.000	71.94	0.000	0.000	5AL_158_160_L_0							
117 D	3.635	0.000	92.20	54.70	92.20	54.70	V-C	2.9432E+05	-5.800	18.00	1.000
1.000	72.70	0.000	0.000	5AL_158_160_L_0							
118 D	3.673	0.000	92.65	54.97	92.65	54.97	V-C	2.9432E+05	-5.850	18.50	1.000
1.000	73.47	0.000	0.000	5AL_158_160_L_0							
119 D	3.712	0.000	93.10	55.24	93.10	55.24	V-C	2.9432E+05	-5.900	19.00	1.000
1.000	74.24	0.000	0.000	5AL_158_160_L_0							
120 D	3.750	0.000	93.55	55.50	93.55	55.50	V-C	2.9432E+05	-5.950	19.50	1.000
1.000	75.00	0.000	0.000	5AL_158_160_L_0							
121 D	3.789	0.000	94.00	55.77	94.00	55.77	V-C	2.9432E+05	-6.000	20.00	1.000
1.000	75.77	0.000	0.000	5AL_158_160_L_0							
122 D	3.827	0.000	94.45	56.04	94.45	56.04	V-C	2.9432E+05	-6.050	20.50	1.000
1.000	76.54	0.000	0.000	5AL_158_160_L_0							
123 D	3.865	0.000	94.90	56.30	94.90	56.30	V-C	2.9432E+05	-6.100	21.00	1.000
1.000	77.30	0.000	0.000	5AL_158_160_L_0							
124 D	3.904	0.000	95.35	56.57	95.35	56.57	V-C	2.9432E+05	-6.150	21.50	1.000
1.000	78.07	0.000	0.000	5AL_158_160_L_0							
125 D	3.942	0.000	95.80	56.84	95.80	56.84	V-C	2.9432E+05	-6.200	22.00	1.000
1.000	78.84	0.000	0.000	5AL_158_160_L_0							
126 D	3.980	0.000	96.25	57.11	96.25	57.11	V-C	2.9432E+05	-6.250	22.50	1.000
1.000	79.61	0.000	0.000	5AL_158_160_L_0							
127 D	4.019	0.000	96.70	57.37	96.70	57.37	V-C	2.9432E+05	-6.300	23.00	1.000
1.000	80.37	0.000	0.000	5AL_158_160_L_0							
128 D	4.057	0.000	97.15	57.64	97.15	57.64	V-C	2.9432E+05	-6.350	23.50	1.000
1.000	81.14	0.000	0.000	5AL_158_160_L_0							
129 D	4.095	0.000	97.60	57.91	97.60	57.91	V-C	2.9432E+05	-6.400	24.00	1.000
1.000	81.91	0.000	0.000	5AL_158_160_L_0							
130 D	4.134	0.000	98.05	58.17	98.05	58.17	V-C	2.9432E+05	-6.450	24.50	1.000
1.000	82.67	0.000	0.000	5AL_158_160_L_0							
131 D	4.172	0.000	98.50	58.44	98.50	58.44	V-C	2.9432E+05	-6.500	25.00	1.000
1.000	83.44	0.000	0.000	5AL_158_160_L_0							
132 D	4.210	0.000	98.95	58.71	98.95	58.71	V-C	2.9432E+05	-6.550	25.50	1.000
1.000	84.21	0.000	0.000	5AL_158_160_L_0							
133 D	4.249	0.000	99.40	58.97	99.40	58.97	V-C	2.9432E+05	-6.600	26.00	1.000
1.000	84.97	0.000	0.000	5AL_158_160_L_0							
134 D	4.287	0.000	99.85	59.24	99.85	59.24	V-C	2.9432E+05	-6.650	26.50	1.000
1.000	85.74	0.000	0.000	5AL_158_160_L_0							
135 D	4.325	0.000	100.3	59.51	100.3	59.51	V-C	2.9432E+05	-6.700	27.00	1.000
1.000	86.51	0.000	0.000	5AL_158_160_L_0							
136 D	4.364	0.000	100.8	59.78	100.8	59.78	V-C	2.9432E+05	-6.750	27.50	1.000
1.000	87.28	0.000	0.000	5AL_158_160_L_0							
137 D	4.402	0.000	101.2	60.04	101.2	60.04	V-C	2.9432E+05	-6.800	28.00	1.000
1.000	88.04	0.000	0.000	5AL_158_160_L_0							
138 D	4.440	0.000	101.7	60.31	101.7	60.31	V-C	2.9432E+05	-6.850	28.50	1.000
1.000	88.81	0.000	0.000	5AL_158_160_L_0							
139 D	4.479	0.000	102.1	60.58	102.1	60.58	V-C	2.9432E+05	-6.900	29.00	1.000
1.000	89.58	0.000	0.000	5AL_158_160_L_0							
140 D	4.517	0.000	102.6	60.84	102.6	60.84	V-C	2.9432E+05	-6.950	29.50	1.000
1.000	90.34	0.000	0.000	5AL_158_160_L_0							
141 D	4.556	0.000	103.0	61.11	103.0	61.11	V-C	2.9432E+05	-7.000	30.00	1.000
1.000	91.11	0.000	0.000	5AL_158_160_L_0							
142 D	4.594	0.000	103.5	61.38	103.5	61.38	V-C	2.9432E+05	-7.050	30.50	1.000
1.000	91.88	0.000	0.000	5AL_158_160_L_0							
143 D	4.632	0.000	103.9	61.64	103.9	61.64	V-C	2.9432E+05	-7.100	31.00	1.000
1.000	92.64	0.000	0.000	5AL_158_160_L_0							
144 D	4.671	0.000	104.4	61.91	104.4	61.91	V-C	2.9432E+05	-7.150	31.50	1.000
1.000	93.41	0.000	0.000	5AL_158_160_L_0							
145 D	4.709	0.000	104.8	62.18	104.8	62.18	V-C	2.9432E+05	-7.200	32.00	1.000
1.000	94.18	0.000	0.000	5AL_158_160_L_0							
146 D	4.747	0.000	105.3	62.44	105.3	62.44	V-C	2.9432E+05	-7.250	32.50	1.000
1.000	94.94	0.000	0.000	5AL_158_160_L_0							
147 D	4.786	0.000	105.7	62.71	105.7	62.71	V-C	2.9432E+05	-7.300	33.00	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	294 di 401

1.000	95.71	0.000	0.000	5AL_158_160_L_0							
148 D	4.824	0.000	106.2	62.98	106.2	62.98	V-C	2.9432E+05	-7.350	33.50	1.000
1.000	96.48	0.000	0.000	5AL_158_160_L_0							
149 D	4.862	0.000	106.6	63.25	106.6	63.25	V-C	2.9432E+05	-7.400	34.00	1.000
1.000	97.25	0.000	0.000	5AL_158_160_L_0							
150 D	4.901	0.000	107.1	63.51	107.1	63.51	V-C	2.9432E+05	-7.450	34.50	1.000
1.000	98.01	0.000	0.000	5AL_158_160_L_0							
151 D	4.939	0.000	107.5	63.78	107.5	63.78	V-C	2.9432E+05	-7.500	35.00	1.000
1.000	98.78	0.000	0.000	5AL_158_160_L_0							
152 D	4.977	0.000	108.0	64.05	108.0	64.05	V-C	2.9432E+05	-7.550	35.50	1.000
1.000	99.55	0.000	0.000	5AL_158_160_L_0							
153 D	5.016	0.000	108.4	64.31	108.4	64.31	V-C	2.9432E+05	-7.600	36.00	1.000
1.000	100.3	0.000	0.000	5AL_158_160_L_0							
154 D	5.054	0.000	108.9	64.58	108.9	64.58	V-C	2.9432E+05	-7.650	36.50	1.000
1.000	101.1	0.000	0.000	5AL_158_160_L_0							
155 D	5.092	0.000	109.3	64.85	109.3	64.85	V-C	2.9432E+05	-7.700	37.00	1.000
1.000	101.8	0.000	0.000	5AL_158_160_L_0							
156 D	5.131	0.000	109.8	65.11	109.8	65.11	V-C	2.9432E+05	-7.750	37.50	1.000
1.000	102.6	0.000	0.000	5AL_158_160_L_0							
157 D	5.169	0.000	110.2	65.38	110.2	65.38	V-C	2.9432E+05	-7.800	38.00	1.000
1.000	103.4	0.000	0.000	5AL_158_160_L_0							
158 D	5.207	0.000	110.7	65.65	110.7	65.65	V-C	2.9432E+05	-7.850	38.50	1.000
1.000	104.1	0.000	0.000	5AL_158_160_L_0							
159 D	5.246	0.000	111.1	65.92	111.1	65.92	V-C	2.9432E+05	-7.900	39.00	1.000
1.000	104.9	0.000	0.000	5AL_158_160_L_0							
160 D	5.284	0.000	111.6	66.18	111.6	66.18	V-C	2.9432E+05	-7.950	39.50	1.000
1.000	105.7	0.000	0.000	5AL_158_160_L_0							
161 D	5.322	0.000	112.0	66.45	112.0	66.45	V-C	2.9432E+05	-8.000	40.00	1.000
1.000	106.4	0.000	0.000	5AL_158_160_L_0							
162 D	5.361	0.000	112.5	66.72	112.5	66.72	V-C	2.9432E+05	-8.050	40.50	1.000
1.000	107.2	0.000	0.000	5AL_158_160_L_0							
163 D	5.399	0.000	112.9	66.98	112.9	66.98	V-C	2.9432E+05	-8.100	41.00	1.000
1.000	108.0	0.000	0.000	5AL_158_160_L_0							
164 D	5.438	0.000	113.4	67.25	113.4	67.25	V-C	2.9432E+05	-8.150	41.50	1.000
1.000	108.8	0.000	0.000	5AL_158_160_L_0							
165 D	5.476	0.000	113.8	67.52	113.8	67.52	V-C	2.9432E+05	-8.200	42.00	1.000
1.000	109.5	0.000	0.000	5AL_158_160_L_0							
166 D	5.514	0.000	114.3	67.78	114.3	67.78	V-C	2.9432E+05	-8.250	42.50	1.000
1.000	110.3	0.000	0.000	5AL_158_160_L_0							
167 D	5.553	0.000	114.7	68.05	114.7	68.05	V-C	2.9432E+05	-8.300	43.00	1.000
1.000	111.1	0.000	0.000	5AL_158_160_L_0							
168 D	5.591	0.000	115.2	68.32	115.2	68.32	V-C	2.9432E+05	-8.350	43.50	1.000
1.000	111.8	0.000	0.000	5AL_158_160_L_0							
169 D	5.629	0.000	115.6	68.59	115.6	68.59	V-C	2.9432E+05	-8.400	44.00	1.000
1.000	112.6	0.000	0.000	5AL_158_160_L_0							
170 D	5.668	0.000	116.1	68.85	116.1	68.85	V-C	2.9432E+05	-8.450	44.50	1.000
1.000	113.4	0.000	0.000	5AL_158_160_L_0							
171 D	5.706	0.000	116.5	69.12	116.5	69.12	V-C	2.9432E+05	-8.500	45.00	1.000
1.000	114.1	0.000	0.000	5AL_158_160_L_0							
172 D	5.744	0.000	117.0	69.39	117.0	69.39	V-C	2.9432E+05	-8.550	45.50	1.000
1.000	114.9	0.000	0.000	5AL_158_160_L_0							
173 D	5.783	0.000	117.4	69.65	117.4	69.65	V-C	2.9432E+05	-8.600	46.00	1.000
1.000	115.7	0.000	0.000	5AL_158_160_L_0							
174 D	5.821	0.000	117.9	69.92	117.9	69.92	V-C	2.9432E+05	-8.650	46.50	1.000
1.000	116.4	0.000	0.000	5AL_158_160_L_0							
175 D	5.859	0.000	118.3	70.19	118.3	70.19	V-C	2.9432E+05	-8.700	47.00	1.000
1.000	117.2	0.000	0.000	5AL_158_160_L_0							
176 D	5.898	0.000	118.8	70.45	118.8	70.45	V-C	2.9432E+05	-8.750	47.50	1.000
1.000	118.0	0.000	0.000	5AL_158_160_L_0							
177 D	5.936	0.000	119.2	70.72	119.2	70.72	V-C	2.9432E+05	-8.800	48.00	1.000
1.000	118.7	0.000	0.000	5AL_158_160_L_0							
178 D	5.974	0.000	119.7	70.99	119.7	70.99	V-C	2.9432E+05	-8.850	48.50	1.000
1.000	119.5	0.000	0.000	5AL_158_160_L_0							
179 D	6.013	0.000	120.1	71.26	120.1	71.26	V-C	2.9432E+05	-8.900	49.00	1.000
1.000	120.3	0.000	0.000	5AL_158_160_L_0							
180 D	6.051	0.000	120.6	71.52	120.6	71.52	V-C	2.9432E+05	-8.950	49.50	1.000
1.000	121.0	0.000	0.000	5AL_158_160_L_0							
181 D	6.089	0.000	121.0	71.79	121.0	71.79	V-C	2.9432E+05	-9.000	50.00	1.000
1.000	121.8	0.000	0.000	5AL_158_160_L_0							
182 D	6.128	0.000	121.5	72.06	121.5	72.06	V-C	2.9432E+05	-9.050	50.50	1.000
1.000	122.6	0.000	0.000	5AL_158_160_L_0							
183 D	6.166	0.000	121.9	72.32	121.9	72.32	V-C	2.9432E+05	-9.100	51.00	1.000
1.000	123.3	0.000	0.000	5AL_158_160_L_0							
184 D	6.205	0.000	122.4	72.59	122.4	72.59	V-C	2.9432E+05	-9.150	51.50	1.000
1.000	124.1	0.000	0.000	5AL_158_160_L_0							
185 D	6.243	0.000	122.8	72.86	122.8	72.86	V-C	2.9432E+05	-9.200	52.00	1.000
1.000	124.9	0.000	0.000	5AL_158_160_L_0							
186 D	6.281	0.000	123.3	73.12	123.3	73.12	V-C	2.9432E+05	-9.250	52.50	1.000
1.000	125.6	0.000	0.000	5AL_158_160_L_0							
187 D	6.320	0.000	123.7	73.39	123.7	73.39	V-C	2.9432E+05	-9.300	53.00	1.000
1.000	126.4	0.000	0.000	5AL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	295 di 401

188 D	6.358	0.000	124.2	73.66	124.2	73.66	V-C	2.9432E+05	-9.350	53.50	1.000
1.000	127.2	0.000	0.000	5AL_158_160_L_0							
189 D	6.396	0.000	124.6	73.93	124.6	73.93	V-C	2.9432E+05	-9.400	54.00	1.000
1.000	127.9	0.000	0.000	5AL_158_160_L_0							
190 D	6.435	0.000	125.1	74.19	125.1	74.19	V-C	2.9432E+05	-9.450	54.50	1.000
1.000	128.7	0.000	0.000	5AL_158_160_L_0							
191 D	6.473	0.000	125.5	74.46	125.5	74.46	V-C	2.9432E+05	-9.500	55.00	1.000
1.000	129.5	0.000	0.000	5AL_158_160_L_0							
192 D	6.511	0.000	126.0	74.73	126.0	74.73	V-C	2.9432E+05	-9.550	55.50	1.000
1.000	130.2	0.000	0.000	5AL_158_160_L_0							
193 D	6.550	0.000	126.4	74.99	126.4	74.99	V-C	2.9432E+05	-9.600	56.00	1.000
1.000	131.0	0.000	0.000	5AL_158_160_L_0							
194 D	6.588	0.000	126.9	75.26	126.9	75.26	V-C	2.9432E+05	-9.650	56.50	1.000
1.000	131.8	0.000	0.000	5AL_158_160_L_0							
195 D	6.626	0.000	127.3	75.53	127.3	75.53	V-C	2.9432E+05	-9.700	57.00	1.000
1.000	132.5	0.000	0.000	5AL_158_160_L_0							
196 D	6.665	0.000	127.8	75.79	127.8	75.79	V-C	2.9432E+05	-9.750	57.50	1.000
1.000	133.3	0.000	0.000	5AL_158_160_L_0							
197 D	6.703	0.000	128.2	76.06	128.2	76.06	V-C	2.9432E+05	-9.800	58.00	1.000
1.000	134.1	0.000	0.000	5AL_158_160_L_0							
198 D	6.741	0.000	128.7	76.33	128.7	76.33	V-C	2.9432E+05	-9.850	58.50	1.000
1.000	134.8	0.000	0.000	5AL_158_160_L_0							
199 D	6.780	0.000	129.1	76.60	129.1	76.60	V-C	2.9432E+05	-9.900	59.00	1.000
1.000	135.6	0.000	0.000	5AL_158_160_L_0							
200 D	6.817	0.000	129.6	76.86	129.6	76.86	V-C	2.9432E+05	-9.950	59.50	1.000
1.000	136.4	0.000	0.000	5AL_158_160_L_0							
201 D	3.427	0.000	130.0	77.13	130.0	77.13	V-C	2.9432E+05	-10.00	60.00	1.000
1.000	137.1	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection 28.SISMICASTR_986
Exe Time :21 June 2016 11:57:46

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

O_R
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
UFACTOR	Peq		Su_a	Su_p	LAYER						
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.3890E+05	0.000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	5AL_158_160_L_0						
2 D	2.8182E-02	0.000	0.9500	0.5636	0.9500	0.5636	V-C	2.3890E+05	-5.0000E-02	0.000	1.000
1.000	0.5636	0.000	0.000	0.000	5AL_158_160_L_0						
3 D	5.6364E-02	0.000	1.900	1.127	1.900	1.127	V-C	2.3890E+05	-0.1000	0.000	1.000
1.000	1.127	0.000	0.000	0.000	5AL_158_160_L_0						
4 D	8.4545E-02	0.000	2.850	1.691	2.850	1.691	V-C	2.3890E+05	-0.1500	0.000	1.000
1.000	1.691	0.000	0.000	0.000	5AL_158_160_L_0						
5 D	0.1127	0.000	3.800	2.255	3.800	2.255	V-C	2.3890E+05	-0.2000	0.000	1.000
1.000	2.255	0.000	0.000	0.000	5AL_158_160_L_0						
6 D	0.1409	0.000	4.750	2.818	4.750	2.818	V-C	2.3890E+05	-0.2500	0.000	1.000
1.000	2.818	0.000	0.000	0.000	5AL_158_160_L_0						
7 D	0.1691	0.000	5.700	3.382	5.700	3.382	V-C	2.3890E+05	-0.3000	0.000	1.000
1.000	3.382	0.000	0.000	0.000	5AL_158_160_L_0						
8 D	0.1973	0.000	6.650	3.945	6.650	3.945	V-C	2.3890E+05	-0.3500	0.000	1.000
1.000	3.945	0.000	0.000	0.000	5AL_158_160_L_0						
9 D	0.2255	0.000	7.600	4.509	7.600	4.509	V-C	2.3890E+05	-0.4000	0.000	1.000
1.000	4.509	0.000	0.000	0.000	5AL_158_160_L_0						
10 D	0.2536	0.000	8.550	5.073	8.550	5.073	V-C	2.3890E+05	-0.4500	0.000	1.000
1.000	5.073	0.000	0.000	0.000	5AL_158_160_L_0						
11 D	0.2818	0.000	9.500	5.636	9.500	5.636	V-C	2.3890E+05	-0.5000	0.000	1.000
1.000	5.636	0.000	0.000	0.000	5AL_158_160_L_0						
12 D	0.3100	0.000	10.45	6.200	10.45	6.200	V-C	2.3890E+05	-0.5500	0.000	1.000
1.000	6.200	0.000	0.000	0.000	5AL_158_160_L_0						
13 D	0.3382	0.000	11.40	6.764	11.40	6.764	V-C	2.3890E+05	-0.6000	0.000	1.000
1.000	6.764	0.000	0.000	0.000	5AL_158_160_L_0						
14 D	0.3664	0.000	12.35	7.327	12.35	7.327	V-C	2.3890E+05	-0.6500	0.000	1.000

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RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	296 di 401

1.000	7.327	0.000	0.000	5AL_158_160_L_0							
15 D	0.3945	0.000	13.30	7.891	13.30	7.891	V-C	2.3890E+05	-0.7000	0.000	1.000
1.000	7.891	0.000	0.000	5AL_158_160_L_0							
16 D	0.4227	0.000	14.25	8.455	14.25	8.455	V-C	2.3890E+05	-0.7500	0.000	1.000
1.000	8.455	0.000	0.000	5AL_158_160_L_0							
17 D	0.4509	0.000	15.20	9.018	15.20	9.018	V-C	2.3890E+05	-0.8000	0.000	1.000
1.000	9.018	0.000	0.000	5AL_158_160_L_0							
18 D	0.4791	0.000	16.15	9.582	16.15	9.582	V-C	2.3890E+05	-0.8500	0.000	1.000
1.000	9.582	0.000	0.000	5AL_158_160_L_0							
19 D	0.5073	0.000	17.10	10.15	17.10	10.15	V-C	2.3890E+05	-0.9000	0.000	1.000
1.000	10.15	0.000	0.000	5AL_158_160_L_0							
20 D	0.5355	0.000	18.05	10.71	18.05	10.71	V-C	2.3890E+05	-0.9500	0.000	1.000
1.000	10.71	0.000	0.000	5AL_158_160_L_0							
21 D	0.5636	0.000	19.00	11.27	19.00	11.27	V-C	2.3890E+05	-1.000	0.000	1.000
1.000	11.27	0.000	0.000	5AL_158_160_L_0							
22 D	0.5918	0.000	19.95	11.84	19.95	11.84	V-C	2.3890E+05	-1.050	0.000	1.000
1.000	11.84	0.000	0.000	5AL_158_160_L_0							
23 D	0.6200	0.000	20.90	12.40	20.90	12.40	V-C	2.3890E+05	-1.100	0.000	1.000
1.000	12.40	0.000	0.000	5AL_158_160_L_0							
24 D	0.6482	0.000	21.85	12.96	21.85	12.96	V-C	2.3890E+05	-1.150	0.000	1.000
1.000	12.96	0.000	0.000	5AL_158_160_L_0							
25 D	0.6764	0.000	22.80	13.53	22.80	13.53	V-C	2.3890E+05	-1.200	0.000	1.000
1.000	13.53	0.000	0.000	5AL_158_160_L_0							
26 D	0.7045	0.000	23.75	14.09	23.75	14.09	V-C	2.3890E+05	-1.250	0.000	1.000
1.000	14.09	0.000	0.000	5AL_158_160_L_0							
27 D	0.7327	0.000	24.70	14.65	24.70	14.65	V-C	2.3890E+05	-1.300	0.000	1.000
1.000	14.65	0.000	0.000	5AL_158_160_L_0							
28 D	0.7609	0.000	25.65	15.22	25.65	15.22	V-C	2.3890E+05	-1.350	0.000	1.000
1.000	15.22	0.000	0.000	5AL_158_160_L_0							
29 D	0.7891	0.000	26.60	15.78	26.60	15.78	V-C	2.3890E+05	-1.400	0.000	1.000
1.000	15.78	0.000	0.000	5AL_158_160_L_0							
30 D	0.8173	0.000	27.55	16.35	27.55	16.35	V-C	2.3890E+05	-1.450	0.000	1.000
1.000	16.35	0.000	0.000	5AL_158_160_L_0							
31 D	0.8455	0.000	28.50	16.91	28.50	16.91	V-C	2.3890E+05	-1.500	0.000	1.000
1.000	16.91	0.000	0.000	5AL_158_160_L_0							
32 D	0.8736	0.000	29.45	17.47	29.45	17.47	V-C	2.3890E+05	-1.550	0.000	1.000
1.000	17.47	0.000	0.000	5AL_158_160_L_0							
33 D	0.9018	0.000	30.40	18.04	30.40	18.04	V-C	2.3890E+05	-1.600	0.000	1.000
1.000	18.04	0.000	0.000	5AL_158_160_L_0							
34 D	0.9300	0.000	31.35	18.60	31.35	18.60	V-C	2.3890E+05	-1.650	0.000	1.000
1.000	18.60	0.000	0.000	5AL_158_160_L_0							
35 D	0.9582	0.000	32.30	19.16	32.30	19.16	V-C	2.3890E+05	-1.700	0.000	1.000
1.000	19.16	0.000	0.000	5AL_158_160_L_0							
36 D	0.9864	0.000	33.25	19.73	33.25	19.73	V-C	2.3890E+05	-1.750	0.000	1.000
1.000	19.73	0.000	0.000	5AL_158_160_L_0							
37 D	1.015	0.000	34.20	20.29	34.20	20.29	V-C	2.3890E+05	-1.800	0.000	1.000
1.000	20.29	0.000	0.000	5AL_158_160_L_0							
38 D	1.043	0.000	35.15	20.85	35.15	20.85	V-C	2.3890E+05	-1.850	0.000	1.000
1.000	20.85	0.000	0.000	5AL_158_160_L_0							
39 D	1.071	0.000	36.10	21.42	36.10	21.42	V-C	2.3890E+05	-1.900	0.000	1.000
1.000	21.42	0.000	0.000	5AL_158_160_L_0							
40 D	1.099	0.000	37.05	21.98	37.05	21.98	V-C	2.3890E+05	-1.950	0.000	1.000
1.000	21.98	0.000	0.000	5AL_158_160_L_0							
41 D	1.127	0.000	38.00	22.55	38.00	22.55	V-C	2.3890E+05	-2.000	0.000	1.000
1.000	22.55	0.000	0.000	5AL_158_160_L_0							
42 D	1.155	0.000	38.95	23.11	38.95	23.11	V-C	2.3890E+05	-2.050	0.000	1.000
1.000	23.11	0.000	0.000	5AL_158_160_L_0							
43 D	1.184	0.000	39.90	23.67	39.90	23.67	V-C	2.3890E+05	-2.100	0.000	1.000
1.000	23.67	0.000	0.000	5AL_158_160_L_0							
44 D	1.212	0.000	40.85	24.24	40.85	24.24	V-C	2.3890E+05	-2.150	0.000	1.000
1.000	24.24	0.000	0.000	5AL_158_160_L_0							
45 D	1.240	0.000	41.80	24.80	41.80	24.80	V-C	2.3890E+05	-2.200	0.000	1.000
1.000	24.80	0.000	0.000	5AL_158_160_L_0							
46 D	1.268	0.000	42.75	25.36	42.75	25.36	V-C	2.3890E+05	-2.250	0.000	1.000
1.000	25.36	0.000	0.000	5AL_158_160_L_0							
47 D	1.296	0.000	43.70	25.93	43.70	25.93	V-C	2.3890E+05	-2.300	0.000	1.000
1.000	25.93	0.000	0.000	5AL_158_160_L_0							
48 D	1.325	0.000	44.65	26.49	44.65	26.49	V-C	2.3890E+05	-2.350	0.000	1.000
1.000	26.49	0.000	0.000	5AL_158_160_L_0							
49 D	1.353	0.000	45.60	27.05	45.60	27.05	V-C	2.3890E+05	-2.400	0.000	1.000
1.000	27.05	0.000	0.000	5AL_158_160_L_0							
50 D	1.381	0.000	46.55	27.62	46.55	27.62	V-C	2.3890E+05	-2.450	0.000	1.000
1.000	27.62	0.000	0.000	5AL_158_160_L_0							
51 D	1.409	0.000	47.50	28.18	47.50	28.18	V-C	2.3890E+05	-2.500	0.000	1.000
1.000	28.18	0.000	0.000	5AL_158_160_L_0							
52 D	1.437	0.000	48.45	28.75	48.45	28.75	V-C	2.3890E+05	-2.550	0.000	1.000
1.000	28.75	0.000	0.000	5AL_158_160_L_0							
53 D	1.465	0.000	49.40	29.31	49.40	29.31	V-C	2.3890E+05	-2.600	0.000	1.000
1.000	29.31	0.000	0.000	5AL_158_160_L_0							
54 D	1.494	0.000	50.35	29.87	50.35	29.87	V-C	2.3890E+05	-2.650	0.000	1.000
1.000	29.87	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI						COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
RELAZIONE DI CALCOLO						L100	01	D 09CL	VI0100 004	A	297 di 401
55 D	1.522	0.000	51.30	30.44	51.30	30.44	V-C	2.3890E+05	-2.700	0.000	1.000
1.000	30.44	0.000	0.000	5AL_158_160_L_0							
56 D	1.550	0.000	52.25	31.00	52.25	31.00	V-C	2.3890E+05	-2.750	0.000	1.000
1.000	31.00	0.000	0.000	SAL_158_160_L_0							
57 D	1.578	0.000	53.20	31.56	53.20	31.56	V-C	2.3890E+05	-2.800	0.000	1.000
1.000	31.56	0.000	0.000	SAL_158_160_L_0							
58 D	1.606	0.000	54.15	32.13	54.15	32.13	V-C	2.3890E+05	-2.850	0.000	1.000
1.000	32.13	0.000	0.000	SAL_158_160_L_0							
59 D	1.635	0.000	55.10	32.69	55.10	32.69	V-C	2.3890E+05	-2.900	0.000	1.000
1.000	32.69	0.000	0.000	SAL_158_160_L_0							
60 D	1.663	0.000	56.05	33.25	56.05	33.25	V-C	2.3890E+05	-2.950	0.000	1.000
1.000	33.25	0.000	0.000	SAL_158_160_L_0							
61 D	1.691	0.000	57.00	33.82	57.00	33.82	V-C	2.3890E+05	-3.000	0.000	1.000
1.000	33.82	0.000	0.000	SAL_158_160_L_0							
62 D	1.719	0.000	57.95	34.38	57.95	34.38	V-C	2.3890E+05	-3.050	0.000	1.000
1.000	34.38	0.000	0.000	SAL_158_160_L_0							
63 D	1.747	0.000	58.90	34.95	58.90	34.95	V-C	2.3890E+05	-3.100	0.000	1.000
1.000	34.95	0.000	0.000	SAL_158_160_L_0							
64 D	1.775	0.000	59.85	35.51	59.85	35.51	V-C	2.3890E+05	-3.150	0.000	1.000
1.000	35.51	0.000	0.000	SAL_158_160_L_0							
65 D	1.804	0.000	60.80	36.07	60.80	36.07	V-C	2.3890E+05	-3.200	0.000	1.000
1.000	36.07	0.000	0.000	SAL_158_160_L_0							
66 D	1.832	0.000	61.75	36.64	61.75	36.64	V-C	2.3890E+05	-3.250	0.000	1.000
1.000	36.64	0.000	0.000	SAL_158_160_L_0							
67 D	1.860	0.000	62.70	37.20	62.70	37.20	V-C	2.3890E+05	-3.300	0.000	1.000
1.000	37.20	0.000	0.000	SAL_158_160_L_0							
68 D	1.888	0.000	63.65	37.76	63.65	37.76	V-C	2.3890E+05	-3.350	0.000	1.000
1.000	37.76	0.000	0.000	SAL_158_160_L_0							
69 D	1.916	0.000	64.60	38.33	64.60	38.33	V-C	2.3890E+05	-3.400	0.000	1.000
1.000	38.33	0.000	0.000	SAL_158_160_L_0							
70 D	1.945	0.000	65.55	38.89	65.55	38.89	V-C	2.3890E+05	-3.450	0.000	1.000
1.000	38.89	0.000	0.000	SAL_158_160_L_0							
71 D	1.973	0.000	66.50	39.45	66.50	39.45	V-C	2.3890E+05	-3.500	0.000	1.000
1.000	39.45	0.000	0.000	SAL_158_160_L_0							
72 D	2.001	0.000	67.45	40.02	67.45	40.02	V-C	2.3890E+05	-3.550	0.000	1.000
1.000	40.02	0.000	0.000	SAL_158_160_L_0							
73 D	2.029	0.000	68.40	40.58	68.40	40.58	V-C	2.3890E+05	-3.600	0.000	1.000
1.000	40.58	0.000	0.000	SAL_158_160_L_0							
74 D	2.057	0.000	69.35	41.15	69.35	41.15	V-C	2.3890E+05	-3.650	0.000	1.000
1.000	41.15	0.000	0.000	SAL_158_160_L_0							
75 D	2.085	0.000	70.30	41.71	70.30	41.71	V-C	2.3890E+05	-3.700	0.000	1.000
1.000	41.71	0.000	0.000	SAL_158_160_L_0							
76 D	2.114	0.000	71.25	42.27	71.25	42.27	V-C	2.3890E+05	-3.750	0.000	1.000
1.000	42.27	0.000	0.000	SAL_158_160_L_0							
77 D	2.142	0.000	72.20	42.84	72.20	42.84	V-C	2.3890E+05	-3.800	0.000	1.000
1.000	42.84	0.000	0.000	SAL_158_160_L_0							
78 D	2.170	0.000	73.15	43.40	73.15	43.40	V-C	2.3890E+05	-3.850	0.000	1.000
1.000	43.40	0.000	0.000	SAL_158_160_L_0							
79 D	2.198	0.000	74.10	43.96	74.10	43.96	V-C	2.3890E+05	-3.900	0.000	1.000
1.000	43.96	0.000	0.000	SAL_158_160_L_0							
80 D	2.226	0.000	75.05	44.53	75.05	44.53	V-C	2.3890E+05	-3.950	0.000	1.000
1.000	44.53	0.000	0.000	SAL_158_160_L_0							
81 D	2.255	0.000	76.00	45.09	76.00	45.09	V-C	2.3890E+05	-4.000	0.000	1.000
1.000	45.09	0.000	0.000	SAL_158_160_L_0							
82 D	2.293	0.000	76.45	45.36	76.45	45.36	V-C	2.3890E+05	-4.050	0.5000	1.000
1.000	45.86	0.000	0.000	SAL_158_160_L_0							
83 D	2.331	0.000	76.90	45.62	76.90	45.62	V-C	2.3890E+05	-4.100	1.000	1.000
1.000	46.62	0.000	0.000	SAL_158_160_L_0							
84 D	2.370	0.000	77.35	45.89	77.35	45.89	V-C	2.3890E+05	-4.150	1.500	1.000
1.000	47.39	0.000	0.000	SAL_158_160_L_0							
85 D	2.408	0.000	77.80	46.16	77.80	46.16	V-C	2.3890E+05	-4.200	2.000	1.000
1.000	48.16	0.000	0.000	SAL_158_160_L_0							
86 D	2.446	0.000	78.25	46.43	78.25	46.43	V-C	2.3890E+05	-4.250	2.500	1.000
1.000	48.93	0.000	0.000	SAL_158_160_L_0							
87 D	2.485	0.000	78.70	46.69	78.70	46.69	V-C	2.3890E+05	-4.300	3.000	1.000
1.000	49.69	0.000	0.000	SAL_158_160_L_0							
88 D	2.523	0.000	79.15	46.96	79.15	46.96	V-C	2.3890E+05	-4.350	3.500	1.000
1.000	50.46	0.000	0.000	SAL_158_160_L_0							
89 D	2.561	0.000	79.60	47.23	79.60	47.23	V-C	2.3890E+05	-4.400	4.000	1.000
1.000	51.23	0.000	0.000	SAL_158_160_L_0							
90 D	2.600	0.000	80.05	47.49	80.05	47.49	V-C	2.3890E+05	-4.450	4.500	1.000
1.000	51.99	0.000	0.000	SAL_158_160_L_0							
91 D	2.638	0.000	80.50	47.76	80.50	47.76	V-C	2.3890E+05	-4.500	5.000	1.000
1.000	52.76	0.000	0.000	SAL_158_160_L_0							
92 D	2.676	0.000	80.95	48.03	80.95	48.03	V-C	2.3890E+05	-4.550	5.500	1.000
1.000	53.53	0.000	0.000	SAL_158_160_L_0							
93 D	2.715	0.000	81.40	48.29	81.40	48.29	V-C	2.3890E+05	-4.600	6.000	1.000
1.000	54.29	0.000	0.000	SAL_158_160_L_0							
94 D	2.753	0.000	81.85	48.56	81.85	48.56	V-C	2.3890E+05	-4.650	6.500	1.000
1.000	55.06	0.000	0.000	SAL_158_160_L_0							
95 D	2.791	0.000	82.30	48.83	82.30	48.83	V-C	2.3890E+05	-4.700	7.000	1.000

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	298 di 401

RELAZIONE DI CALCOLO

1.000	55.83	0.000	0.000	5AL_158_160_L_0							
96 D	2.830	0.000	82.75	49.10	82.75	49.10	V-C	2.3890E+05	-4.750	7.500	1.000
1.000	56.60	0.000	0.000	5AL_158_160_L_0							
97 D	2.868	0.000	83.20	49.36	83.20	49.36	V-C	2.3890E+05	-4.800	8.000	1.000
1.000	57.36	0.000	0.000	5AL_158_160_L_0							
98 D	2.906	0.000	83.65	49.63	83.65	49.63	V-C	2.3890E+05	-4.850	8.500	1.000
1.000	58.13	0.000	0.000	5AL_158_160_L_0							
99 D	2.945	0.000	84.10	49.90	84.10	49.90	V-C	2.3890E+05	-4.900	9.000	1.000
1.000	58.90	0.000	0.000	5AL_158_160_L_0							
100 D	2.983	0.000	84.55	50.16	84.55	50.16	V-C	2.3890E+05	-4.950	9.500	1.000
1.000	59.66	0.000	0.000	5AL_158_160_L_0							
101 D	3.022	0.000	85.00	50.43	85.00	50.43	V-C	2.3890E+05	-5.000	10.00	1.000
1.000	60.43	0.000	0.000	5AL_158_160_L_0							
102 D	3.060	0.000	85.45	50.70	85.45	50.70	V-C	2.3890E+05	-5.050	10.50	1.000
1.000	61.20	0.000	0.000	5AL_158_160_L_0							
103 D	3.098	0.000	85.90	50.96	85.90	50.96	V-C	2.3890E+05	-5.100	11.00	1.000
1.000	61.96	0.000	0.000	5AL_158_160_L_0							
104 D	3.137	0.000	86.35	51.23	86.35	51.23	V-C	2.3890E+05	-5.150	11.50	1.000
1.000	62.73	0.000	0.000	5AL_158_160_L_0							
105 D	3.175	0.000	86.80	51.50	86.80	51.50	V-C	2.3890E+05	-5.200	12.00	1.000
1.000	63.50	0.000	0.000	5AL_158_160_L_0							
106 D	3.213	0.000	87.25	51.77	87.25	51.77	V-C	2.3890E+05	-5.250	12.50	1.000
1.000	64.27	0.000	0.000	5AL_158_160_L_0							
107 D	3.252	0.000	87.70	52.03	87.70	52.03	V-C	2.3890E+05	-5.300	13.00	1.000
1.000	65.03	0.000	0.000	5AL_158_160_L_0							
108 D	3.290	0.000	88.15	52.30	88.15	52.30	V-C	2.3890E+05	-5.350	13.50	1.000
1.000	65.80	0.000	0.000	5AL_158_160_L_0							
109 D	3.328	0.000	88.60	52.57	88.60	52.57	V-C	2.3890E+05	-5.400	14.00	1.000
1.000	66.57	0.000	0.000	5AL_158_160_L_0							
110 D	3.367	0.000	89.05	52.83	89.05	52.83	V-C	2.3890E+05	-5.450	14.50	1.000
1.000	67.33	0.000	0.000	5AL_158_160_L_0							
111 D	3.405	0.000	89.50	53.10	89.50	53.10	V-C	2.3890E+05	-5.500	15.00	1.000
1.000	68.10	0.000	0.000	5AL_158_160_L_0							
112 D	3.443	0.000	89.95	53.37	89.95	53.37	V-C	2.3890E+05	-5.550	15.50	1.000
1.000	68.87	0.000	0.000	5AL_158_160_L_0							
113 D	3.482	0.000	90.40	53.63	90.40	53.63	V-C	2.3890E+05	-5.600	16.00	1.000
1.000	69.63	0.000	0.000	5AL_158_160_L_0							
114 D	3.520	0.000	90.85	53.90	90.85	53.90	V-C	2.3890E+05	-5.650	16.50	1.000
1.000	70.40	0.000	0.000	5AL_158_160_L_0							
115 D	3.558	0.000	91.30	54.17	91.30	54.17	V-C	2.3890E+05	-5.700	17.00	1.000
1.000	71.17	0.000	0.000	5AL_158_160_L_0							
116 D	3.597	0.000	91.75	54.44	91.75	54.44	V-C	2.3890E+05	-5.750	17.50	1.000
1.000	71.94	0.000	0.000	5AL_158_160_L_0							
117 D	3.635	0.000	92.20	54.70	92.20	54.70	V-C	2.3890E+05	-5.800	18.00	1.000
1.000	72.70	0.000	0.000	5AL_158_160_L_0							
118 D	3.673	0.000	92.65	54.97	92.65	54.97	V-C	2.3890E+05	-5.850	18.50	1.000
1.000	73.47	0.000	0.000	5AL_158_160_L_0							
119 D	3.712	0.000	93.10	55.24	93.10	55.24	V-C	2.3890E+05	-5.900	19.00	1.000
1.000	74.24	0.000	0.000	5AL_158_160_L_0							
120 D	3.750	0.000	93.55	55.50	93.55	55.50	V-C	2.3890E+05	-5.950	19.50	1.000
1.000	75.00	0.000	0.000	5AL_158_160_L_0							
121 D	3.789	0.000	94.00	55.77	94.00	55.77	V-C	2.3890E+05	-6.000	20.00	1.000
1.000	75.77	0.000	0.000	5AL_158_160_L_0							
122 D	3.827	0.000	94.45	56.04	94.45	56.04	V-C	2.3890E+05	-6.050	20.50	1.000
1.000	76.54	0.000	0.000	5AL_158_160_L_0							
123 D	3.865	0.000	94.90	56.30	94.90	56.30	V-C	2.3890E+05	-6.100	21.00	1.000
1.000	77.30	0.000	0.000	5AL_158_160_L_0							
124 D	3.904	0.000	95.35	56.57	95.35	56.57	V-C	2.3890E+05	-6.150	21.50	1.000
1.000	78.07	0.000	0.000	5AL_158_160_L_0							
125 D	3.942	0.000	95.80	56.84	95.80	56.84	V-C	2.3890E+05	-6.200	22.00	1.000
1.000	78.84	0.000	0.000	5AL_158_160_L_0							
126 D	3.980	0.000	96.25	57.11	96.25	57.11	V-C	2.3890E+05	-6.250	22.50	1.000
1.000	79.61	0.000	0.000	5AL_158_160_L_0							
127 D	4.019	0.000	96.70	57.37	96.70	57.37	V-C	2.3890E+05	-6.300	23.00	1.000
1.000	80.37	0.000	0.000	5AL_158_160_L_0							
128 D	4.057	0.000	97.15	57.64	97.15	57.64	V-C	2.3890E+05	-6.350	23.50	1.000
1.000	81.14	0.000	0.000	5AL_158_160_L_0							
129 D	4.095	0.000	97.60	57.91	97.60	57.91	V-C	2.3890E+05	-6.400	24.00	1.000
1.000	81.91	0.000	0.000	5AL_158_160_L_0							
130 D	4.134	0.000	98.05	58.17	98.05	58.17	V-C	2.3890E+05	-6.450	24.50	1.000
1.000	82.67	0.000	0.000	5AL_158_160_L_0							
131 D	4.172	0.000	98.50	58.44	98.50	58.44	V-C	2.3890E+05	-6.500	25.00	1.000
1.000	83.44	0.000	0.000	5AL_158_160_L_0							
132 D	4.210	0.000	98.95	58.71	98.95	58.71	V-C	2.3890E+05	-6.550	25.50	1.000
1.000	84.21	0.000	0.000	5AL_158_160_L_0							
133 D	4.249	0.000	99.40	58.97	99.40	58.97	V-C	2.3890E+05	-6.600	26.00	1.000
1.000	84.97	0.000	0.000	5AL_158_160_L_0							
134 D	4.287	0.000	99.85	59.24	99.85	59.24	V-C	2.3890E+05	-6.650	26.50	1.000
1.000	85.74	0.000	0.000	5AL_158_160_L_0							
135 D	4.325	0.000	100.3	59.51	100.3	59.51	V-C	2.3890E+05	-6.700	27.00	1.000
1.000	86.51	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 C04	A	299 di 401

136 D	4.364	0.000	100.8	59.78	100.8	59.78	V-C	2.3890E+05	-6.750	27.50	1.000
1.000	87.28	0.000	0.000	5AL_158_160_L_0							
137 D	4.402	0.000	101.2	60.04	101.2	60.04	V-C	2.3890E+05	-6.800	28.00	1.000
1.000	88.04	0.000	0.000	5AL_158_160_L_0							
138 D	4.440	0.000	101.7	60.31	101.7	60.31	V-C	2.3890E+05	-6.850	28.50	1.000
1.000	88.81	0.000	0.000	5AL_158_160_L_0							
139 D	4.479	0.000	102.1	60.58	102.1	60.58	V-C	2.3890E+05	-6.900	29.00	1.000
1.000	89.58	0.000	0.000	5AL_158_160_L_0							
140 D	4.517	0.000	102.6	60.84	102.6	60.84	V-C	2.3890E+05	-6.950	29.50	1.000
1.000	90.34	0.000	0.000	5AL_158_160_L_0							
141 D	4.556	0.000	103.0	61.11	103.0	61.11	V-C	2.3890E+05	-7.000	30.00	1.000
1.000	91.11	0.000	0.000	5AL_158_160_L_0							
142 D	4.594	0.000	103.5	61.38	103.5	61.38	V-C	2.3890E+05	-7.050	30.50	1.000
1.000	91.88	0.000	0.000	5AL_158_160_L_0							
143 D	4.632	0.000	103.9	61.64	103.9	61.64	V-C	2.3890E+05	-7.100	31.00	1.000
1.000	92.64	0.000	0.000	5AL_158_160_L_0							
144 D	4.671	0.000	104.4	61.91	104.4	61.91	V-C	2.3890E+05	-7.150	31.50	1.000
1.000	93.41	0.000	0.000	5AL_158_160_L_0							
145 D	4.709	0.000	104.8	62.18	104.8	62.18	V-C	2.3890E+05	-7.200	32.00	1.000
1.000	94.18	0.000	0.000	5AL_158_160_L_0							
146 D	4.747	0.000	105.3	62.44	105.3	62.44	V-C	2.3890E+05	-7.250	32.50	1.000
1.000	94.94	0.000	0.000	5AL_158_160_L_0							
147 D	4.786	0.000	105.7	62.71	105.7	62.71	V-C	2.3890E+05	-7.300	33.00	1.000
1.000	95.71	0.000	0.000	5AL_158_160_L_0							
148 D	4.824	0.000	106.2	62.98	106.2	62.98	V-C	2.3890E+05	-7.350	33.50	1.000
1.000	96.48	0.000	0.000	5AL_158_160_L_0							
149 D	4.862	0.000	106.6	63.25	106.6	63.25	V-C	2.3890E+05	-7.400	34.00	1.000
1.000	97.25	0.000	0.000	5AL_158_160_L_0							
150 D	4.901	0.000	107.1	63.51	107.1	63.51	V-C	2.3890E+05	-7.450	34.50	1.000
1.000	98.01	0.000	0.000	5AL_158_160_L_0							
151 D	4.939	0.000	107.5	63.78	107.5	63.78	V-C	2.3890E+05	-7.500	35.00	1.000
1.000	98.78	0.000	0.000	5AL_158_160_L_0							
152 D	4.977	0.000	108.0	64.05	108.0	64.05	V-C	2.3890E+05	-7.550	35.50	1.000
1.000	99.55	0.000	0.000	5AL_158_160_L_0							
153 D	5.016	0.000	108.4	64.31	108.4	64.31	V-C	2.3890E+05	-7.600	36.00	1.000
1.000	100.3	0.000	0.000	5AL_158_160_L_0							
154 D	5.054	0.000	108.9	64.58	108.9	64.58	V-C	2.3890E+05	-7.650	36.50	1.000
1.000	101.1	0.000	0.000	5AL_158_160_L_0							
155 D	5.092	0.000	109.3	64.85	109.3	64.85	V-C	2.3890E+05	-7.700	37.00	1.000
1.000	101.8	0.000	0.000	5AL_158_160_L_0							
156 D	5.131	0.000	109.8	65.11	109.8	65.11	V-C	2.3890E+05	-7.750	37.50	1.000
1.000	102.6	0.000	0.000	5AL_158_160_L_0							
157 D	5.169	0.000	110.2	65.38	110.2	65.38	V-C	2.3890E+05	-7.800	38.00	1.000
1.000	103.4	0.000	0.000	5AL_158_160_L_0							
158 D	5.207	0.000	110.7	65.65	110.7	65.65	V-C	2.3890E+05	-7.850	38.50	1.000
1.000	104.1	0.000	0.000	5AL_158_160_L_0							
159 D	5.246	0.000	111.1	65.92	111.1	65.92	V-C	2.3890E+05	-7.900	39.00	1.000
1.000	104.9	0.000	0.000	5AL_158_160_L_0							
160 D	5.284	0.000	111.6	66.18	111.6	66.18	V-C	2.3890E+05	-7.950	39.50	1.000
1.000	105.7	0.000	0.000	5AL_158_160_L_0							
161 D	5.322	0.000	112.0	66.45	112.0	66.45	V-C	2.3890E+05	-8.000	40.00	1.000
1.000	106.4	0.000	0.000	5AL_158_160_L_0							
162 D	5.361	0.000	112.5	66.72	112.5	66.72	V-C	2.3890E+05	-8.050	40.50	1.000
1.000	107.2	0.000	0.000	5AL_158_160_L_0							
163 D	5.399	0.000	112.9	66.98	112.9	66.98	V-C	2.3890E+05	-8.100	41.00	1.000
1.000	108.0	0.000	0.000	5AL_158_160_L_0							
164 D	5.438	0.000	113.4	67.25	113.4	67.25	V-C	2.3890E+05	-8.150	41.50	1.000
1.000	108.8	0.000	0.000	5AL_158_160_L_0							
165 D	5.476	0.000	113.8	67.52	113.8	67.52	V-C	2.3890E+05	-8.200	42.00	1.000
1.000	109.5	0.000	0.000	5AL_158_160_L_0							
166 D	5.514	0.000	114.3	67.78	114.3	67.78	V-C	2.3890E+05	-8.250	42.50	1.000
1.000	110.3	0.000	0.000	5AL_158_160_L_0							
167 D	5.553	0.000	114.7	68.05	114.7	68.05	V-C	2.3890E+05	-8.300	43.00	1.000
1.000	111.1	0.000	0.000	5AL_158_160_L_0							
168 D	5.591	0.000	115.2	68.32	115.2	68.32	V-C	2.3890E+05	-8.350	43.50	1.000
1.000	111.8	0.000	0.000	5AL_158_160_L_0							
169 D	5.629	0.000	115.6	68.59	115.6	68.59	V-C	2.3890E+05	-8.400	44.00	1.000
1.000	112.6	0.000	0.000	5AL_158_160_L_0							
170 D	5.668	0.000	116.1	68.85	116.1	68.85	V-C	2.3890E+05	-8.450	44.50	1.000
1.000	113.4	0.000	0.000	5AL_158_160_L_0							
171 D	5.706	0.000	116.5	69.12	116.5	69.12	V-C	2.3890E+05	-8.500	45.00	1.000
1.000	114.1	0.000	0.000	5AL_158_160_L_0							
172 D	5.744	0.000	117.0	69.39	117.0	69.39	V-C	2.3890E+05	-8.550	45.50	1.000
1.000	114.9	0.000	0.000	5AL_158_160_L_0							
173 D	5.783	0.000	117.4	69.65	117.4	69.65	V-C	2.3890E+05	-8.600	46.00	1.000
1.000	115.7	0.000	0.000	5AL_158_160_L_0							
174 D	5.821	0.000	117.9	69.92	117.9	69.92	V-C	2.3890E+05	-8.650	46.50	1.000
1.000	116.4	0.000	0.000	5AL_158_160_L_0							
175 D	5.859	0.000	118.3	70.19	118.3	70.19	V-C	2.3890E+05	-8.700	47.00	1.000
1.000	117.2	0.000	0.000	5AL_158_160_L_0							
176 D	5.898	0.000	118.8	70.45	118.8	70.45	V-C	2.3890E+05	-8.750	47.50	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100.004	A	300 di 401

1.000	118.0	0.000	0.000	SAL_158_160_L_0							
177 D	5.936	0.000	119.2	70.72	119.2	70.72	V-C	2.3890E+05	-8.800	48.00	1.000
1.000	118.7	0.000	0.000	SAL_158_160_L_0							
178 D	5.974	0.000	119.7	70.99	119.7	70.99	V-C	2.3890E+05	-8.850	48.50	1.000
1.000	119.5	0.000	0.000	SAL_158_160_L_0							
179 D	6.013	0.000	120.1	71.26	120.1	71.26	V-C	2.3890E+05	-8.900	49.00	1.000
1.000	120.3	0.000	0.000	SAL_158_160_L_0							
180 D	6.051	0.000	120.6	71.52	120.6	71.52	V-C	2.3890E+05	-8.950	49.50	1.000
1.000	121.0	0.000	0.000	SAL_158_160_L_0							
181 D	6.089	0.000	121.0	71.79	121.0	71.79	V-C	2.3890E+05	-9.000	50.00	1.000
1.000	121.8	0.000	0.000	SAL_158_160_L_0							
182 D	6.128	0.000	121.5	72.06	121.5	72.06	V-C	2.3890E+05	-9.050	50.50	1.000
1.000	122.6	0.000	0.000	SAL_158_160_L_0							
183 D	6.166	0.000	121.9	72.32	121.9	72.32	V-C	2.3890E+05	-9.100	51.00	1.000
1.000	123.3	0.000	0.000	SAL_158_160_L_0							
184 D	6.205	0.000	122.4	72.59	122.4	72.59	V-C	2.3890E+05	-9.150	51.50	1.000
1.000	124.1	0.000	0.000	SAL_158_160_L_0							
185 D	6.243	0.000	122.8	72.86	122.8	72.86	V-C	2.3890E+05	-9.200	52.00	1.000
1.000	124.9	0.000	0.000	SAL_158_160_L_0							
186 D	6.281	0.000	123.3	73.12	123.3	73.12	V-C	2.3890E+05	-9.250	52.50	1.000
1.000	125.6	0.000	0.000	SAL_158_160_L_0							
187 D	6.320	0.000	123.7	73.39	123.7	73.39	V-C	2.3890E+05	-9.300	53.00	1.000
1.000	126.4	0.000	0.000	SAL_158_160_L_0							
188 D	6.358	0.000	124.2	73.66	124.2	73.66	V-C	2.3890E+05	-9.350	53.50	1.000
1.000	127.2	0.000	0.000	SAL_158_160_L_0							
189 D	6.396	0.000	124.6	73.93	124.6	73.93	V-C	2.3890E+05	-9.400	54.00	1.000
1.000	127.9	0.000	0.000	SAL_158_160_L_0							
190 D	6.435	0.000	125.1	74.19	125.1	74.19	V-C	2.3890E+05	-9.450	54.50	1.000
1.000	128.7	0.000	0.000	SAL_158_160_L_0							
191 D	6.473	0.000	125.5	74.46	125.5	74.46	V-C	2.3890E+05	-9.500	55.00	1.000
1.000	129.5	0.000	0.000	SAL_158_160_L_0							
192 D	6.511	0.000	126.0	74.73	126.0	74.73	V-C	2.3890E+05	-9.550	55.50	1.000
1.000	130.2	0.000	0.000	SAL_158_160_L_0							
193 D	6.550	0.000	126.4	74.99	126.4	74.99	V-C	2.3890E+05	-9.600	56.00	1.000
1.000	131.0	0.000	0.000	SAL_158_160_L_0							
194 D	6.588	0.000	126.9	75.26	126.9	75.26	V-C	2.3890E+05	-9.650	56.50	1.000
1.000	131.8	0.000	0.000	SAL_158_160_L_0							
195 D	6.626	0.000	127.3	75.53	127.3	75.53	V-C	2.3890E+05	-9.700	57.00	1.000
1.000	132.5	0.000	0.000	SAL_158_160_L_0							
196 D	6.665	0.000	127.8	75.79	127.8	75.79	V-C	2.3890E+05	-9.750	57.50	1.000
1.000	133.3	0.000	0.000	SAL_158_160_L_0							
197 D	6.703	0.000	128.2	76.06	128.2	76.06	V-C	2.3890E+05	-9.800	58.00	1.000
1.000	134.1	0.000	0.000	SAL_158_160_L_0							
198 D	6.741	0.000	128.7	76.33	128.7	76.33	V-C	2.3890E+05	-9.850	58.50	1.000
1.000	134.8	0.000	0.000	SAL_158_160_L_0							
199 D	6.780	0.000	129.1	76.60	129.1	76.60	V-C	2.3890E+05	-9.900	59.00	1.000
1.000	135.6	0.000	0.000	SAL_158_160_L_0							
200 D	6.817	0.000	129.6	76.86	129.6	76.86	V-C	2.3890E+05	-9.950	59.50	1.000
1.000	136.4	0.000	0.000	SAL_158_160_L_0							
201 D	3.427	0.000	130.0	77.13	130.0	77.13	V-C	2.3890E+05	-10.00	60.00	1.000
1.000	137.1	0.000	0.000	SAL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICASTR_986
Exe Time :21 June 2016 11:57:46

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
----	----	----	----	----

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM= 8370. RIMNOR= 0.000
RENORM= 570.4 REMNOR= 0.000 RATIO =0.2611 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 8.507 RMMAX = 0.000
RTSMAL=0.1000E-04 RMSMAL= 0.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	301 di 401

RELAZIONE DI CALCOLO

RDT = 8370. RDR = 0.000
 RATIO=0.2611 RATIO= 0.000
 MAX UN= 1.691 IEQ= 371 NODE 186 DOF 1 Y-DISPL.F
 MIN UN= 0.000 IEQ= 2 NODE 1 DOF 2 X-ROT. F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM= 8370. RIMNOR= 0.000
 RENORM=0.6102E-18 REMNOR=0.1458E-21 RATIO =0.8539E-11 TOLER =0.1000E-03 CONVERGED !
 REMAX = 8.507 RMMAX = 0.000
 RTSMAL=0.1000E-04 RMSMAL= 0.000
 RDT = 8370. RDR = 0.000
 RATIO=0.8539E-11 RATIO= 0.000
 MAX UN=0.9814E-10 IEQ= 169 NODE 85 DOF 1 Y-DISPL.F
 MIN UN=-.1660E-09 IEQ= 281 NODE 141 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

 PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICASTR_986
 Exe Time :21 June 2016 11:57:46

paratia_mario
 SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F (02)	X-ROT. F (04)
1	4.7644076E-05	1.2022912E-15
2	4.7644076E-05	1.2017316E-15
3	4.7644076E-05	1.2008242E-15
4	4.7644076E-05	1.1979229E-15
5	4.7644076E-05	1.1932089E-15
6	4.7644076E-05	1.1866834E-15
7	4.7644076E-05	1.1793663E-15
8	4.7644076E-05	1.1708143E-15
9	4.7644076E-05	1.1609455E-15
10	4.7644076E-05	1.1517979E-15
11	4.7644076E-05	1.1421977E-15
12	4.7644076E-05	1.1323382E-15
13	4.7644076E-05	1.1230361E-15
14	4.7644076E-05	1.1155178E-15
15	4.7644076E-05	1.1068383E-15
16	4.7644076E-05	1.0946834E-15
17	4.7644076E-05	1.0781103E-15
18	4.7644076E-05	1.0575952E-15
19	4.7644076E-05	1.0342916E-15
20	4.7644076E-05	1.0084063E-15
21	4.7644076E-05	9.7907522E-16
22	4.7644076E-05	9.4645598E-16
23	4.7644076E-05	9.1251198E-16
24	4.7644076E-05	8.7751427E-16
25	4.7644076E-05	8.3990940E-16
26	4.7644076E-05	8.0023946E-16
27	4.7644076E-05	7.5916175E-16
28	4.7644076E-05	7.1888364E-16
29	4.7644076E-05	6.8158200E-16
30	4.7644076E-05	6.4653008E-16
31	4.7644076E-05	6.1409042E-16
32	4.7644076E-05	5.8558437E-16
33	4.7644076E-05	5.6034956E-16
34	4.7644076E-05	5.3524859E-16
35	4.7644076E-05	5.0742695E-16
36	4.7644076E-05	4.7769101E-16
37	4.7644076E-05	4.4769249E-16
38	4.7644076E-05	4.1735854E-16
39	4.7644076E-05	3.8628768E-16
40	4.7644076E-05	3.5424273E-16
41	4.7644076E-05	3.2194198E-16
42	4.7644076E-05	2.8995632E-16
43	4.7644076E-05	2.5757933E-16
44	4.7644076E-05	2.2458740E-16
45	4.7644076E-05	1.9235949E-16

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	302 di 401

46	4.7644076E-05	1.6117512E-16
47	4.7644076E-05	1.2956047E-16
48	4.7644076E-05	9.8333749E-17
49	4.7644076E-05	6.8052321E-17
50	4.7644076E-05	4.0891363E-17
51	4.7644076E-05	1.6805134E-17
52	4.7644076E-05	-5.0652570E-18
53	4.7644076E-05	-2.4535156E-17
54	4.7644076E-05	-4.0467846E-17
55	4.7644076E-05	-5.3246185E-17
56	4.7644076E-05	-6.5228313E-17
57	4.7644076E-05	-7.8237045E-17
58	4.7644076E-05	-9.3536154E-17
59	4.7644076E-05	-1.1290102E-16
60	4.7644076E-05	-1.3580310E-16
61	4.7644076E-05	-1.6272858E-16
62	4.7644076E-05	-1.8996408E-16
63	4.7644076E-05	-2.1827870E-16
64	4.7644076E-05	-2.5072006E-16
65	4.7644076E-05	-2.8748806E-16
66	4.7644076E-05	-3.2767639E-16
67	4.7644076E-05	-3.6960452E-16
68	4.7644076E-05	-4.1330126E-16
69	4.7644076E-05	-4.5864632E-16
70	4.7644076E-05	-5.0311216E-16
71	4.7644076E-05	-5.4532998E-16
72	4.7644076E-05	-5.8272817E-16
73	4.7644076E-05	-6.1566420E-16
74	4.7644076E-05	-6.4681299E-16
75	4.7644076E-05	-6.7476000E-16
76	4.7644076E-05	-6.9779082E-16
77	4.7644076E-05	-7.1317802E-16
78	4.7644076E-05	-7.2269190E-16
79	4.7644076E-05	-7.2923438E-16
80	4.7644076E-05	-7.3226507E-16
81	4.7644076E-05	-7.2860249E-16
82	4.7644076E-05	-7.1545146E-16
83	4.7644076E-05	-6.9414350E-16
84	4.7644076E-05	-6.6602201E-16
85	4.7644076E-05	-6.3318593E-16
86	4.7644076E-05	-5.9950451E-16
87	4.7644076E-05	-5.6677007E-16
88	4.7644076E-05	-5.3395771E-16
89	4.7644076E-05	-5.0026613E-16
90	4.7644076E-05	-4.6257316E-16
91	4.7644076E-05	-4.2081613E-16
92	4.7644076E-05	-3.7756663E-16
93	4.7644076E-05	-3.3417483E-16
94	4.7644076E-05	-2.9192482E-16
95	4.7644076E-05	-2.4841952E-16
96	4.7644076E-05	-2.0362164E-16
97	4.7644076E-05	-1.5760064E-16
98	4.7644076E-05	-1.1323306E-16
99	4.7644076E-05	-7.1044041E-17
100	4.7644076E-05	-2.9580085E-17
101	4.7644076E-05	1.1821192E-17
102	4.7644076E-05	5.1475886E-17
103	4.7644076E-05	8.6182214E-17
104	4.7644076E-05	1.1468318E-16
105	4.7644076E-05	1.4175943E-16
106	4.7644076E-05	1.7009099E-16
107	4.7644076E-05	1.9925772E-16
108	4.7644076E-05	2.2675919E-16
109	4.7644076E-05	2.4918523E-16
110	4.7644076E-05	2.6579724E-16
111	4.7644076E-05	2.7553643E-16
112	4.7644076E-05	2.7887882E-16
113	4.7644076E-05	2.7528401E-16
114	4.7644076E-05	2.6416925E-16
115	4.7644076E-05	2.4544135E-16
116	4.7644076E-05	2.2180405E-16
117	4.7644076E-05	1.9447538E-16
118	4.7644076E-05	1.6316904E-16
119	4.7644076E-05	1.2709391E-16
120	4.7644076E-05	8.8667409E-17
121	4.7644076E-05	5.1159096E-17
122	4.7644076E-05	1.6474791E-17
123	4.7644076E-05	-1.8111258E-17
124	4.7644076E-05	-5.2051869E-17
125	4.7644076E-05	-8.1936885E-17
126	4.7644076E-05	-1.0353792E-16

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	303 di 401

RELAZIONE DI CALCOLO

127	4.7644076E-05	-1.1754446E-16
128	4.7644076E-05	-1.2659246E-16
129	4.7644076E-05	-1.3409548E-16
130	4.7644076E-05	-1.3997558E-16
131	4.7644076E-05	-1.4291648E-16
132	4.7644076E-05	-1.4049735E-16
133	4.7644076E-05	-1.3271820E-16
134	4.7644076E-05	-1.2257753E-16
135	4.7644076E-05	-1.1153899E-16
136	4.7644076E-05	-9.9180782E-17
137	4.7644076E-05	-8.5282665E-17
138	4.7644076E-05	-7.0579867E-17
139	4.7644076E-05	-5.6322609E-17
140	4.7644076E-05	-4.2492255E-17
141	4.7644076E-05	-2.7911430E-17
142	4.7644076E-05	-9.9424727E-18
143	4.7644076E-05	1.0870821E-17
144	4.7644076E-05	3.0830305E-17
145	4.7644076E-05	4.7820092E-17
146	4.7644076E-05	6.4410079E-17
147	4.7644076E-05	8.4306883E-17
148	4.7644076E-05	1.0691250E-16
149	4.7644076E-05	1.2998568E-16
150	4.7644076E-05	1.5204241E-16
151	4.7644076E-05	1.7059413E-16
152	4.7644076E-05	1.8765846E-16
153	4.7644076E-05	2.0502432E-16
154	4.7644076E-05	2.2208696E-16
155	4.7644076E-05	2.3745722E-16
156	4.7644076E-05	2.4809087E-16
157	4.7644076E-05	2.5482139E-16
158	4.7644076E-05	2.6053039E-16
159	4.7644076E-05	2.6775050E-16
160	4.7644076E-05	2.7584475E-16
161	4.7644076E-05	2.8134877E-16
162	4.7644076E-05	2.8413212E-16
163	4.7644076E-05	2.8555683E-16
164	4.7644076E-05	2.8614806E-16
165	4.7644076E-05	2.8350193E-16
166	4.7644076E-05	2.7638685E-16
167	4.7644076E-05	2.6515350E-16
168	4.7644076E-05	2.5132992E-16
169	4.7644076E-05	2.3641537E-16
170	4.7644076E-05	2.2192263E-16
171	4.7644076E-05	2.0822780E-16
172	4.7644076E-05	1.9655230E-16
173	4.7644076E-05	1.8703165E-16
174	4.7644076E-05	1.7702142E-16
175	4.7644076E-05	1.6613874E-16
176	4.7644076E-05	1.5678580E-16
177	4.7644076E-05	1.4925737E-16
178	4.7644076E-05	1.4292834E-16
179	4.7644076E-05	1.3869317E-16
180	4.7644076E-05	1.3437669E-16
181	4.7644076E-05	1.2738528E-16
182	4.7644076E-05	1.1664999E-16
183	4.7644076E-05	1.0192517E-16
184	4.7644076E-05	8.4871007E-17
185	4.7644076E-05	6.6214260E-17
186	4.7644076E-05	4.6730808E-17
187	4.7644076E-05	2.7013575E-17
188	4.7644076E-05	5.2329695E-18
189	4.7644076E-05	-1.8146834E-17
190	4.7644076E-05	-4.2673520E-17
191	4.7644076E-05	-6.6288798E-17
192	4.7644076E-05	-8.9456844E-17
193	4.7644076E-05	-1.1272653E-16
194	4.7644076E-05	-1.3522542E-16
195	4.7644076E-05	-1.5734484E-16
196	4.7644076E-05	-1.7770412E-16
197	4.7644076E-05	-1.9660482E-16
198	4.7644076E-05	-2.1183616E-16
199	4.7644076E-05	-2.2177017E-16
200	4.7644076E-05	-2.2668635E-16
201	4.7644076E-05	-2.2756580E-16



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	304 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICASTR_986
Exe Time :21 June 2016 11:57:46

paratia_mario

STRESS RESULTS FOR GROUP NO. 1

Q L
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
1 D	0.2846	-4.7644E-05	57.00	11.38	57.00	33.82	UL-RL	4.7091E+05	0.000	0.000	1.000
1.000	11.38	0.000	0.000	5AL_158_160_L_0	11.95	57.95					
2 D	0.5973	-4.7644E-05	57.95	11.95	57.95	34.38	UL-RL	4.7091E+05	-5.0000E-02	0.000	1.000
1.000	11.95	0.000	0.000	5AL_158_160_L_0	12.51	58.90					
3 D	0.6255	-4.7644E-05	58.90	12.51	58.90	34.95	UL-RL	4.7091E+05	-0.1000	0.000	1.000
1.000	12.51	0.000	0.000	5AL_158_160_L_0	13.07	59.85					
4 D	0.6537	-4.7644E-05	59.85	13.07	59.85	35.51	UL-RL	4.7091E+05	-0.1500	0.000	1.000
1.000	13.07	0.000	0.000	5AL_158_160_L_0	13.64	60.80					
5 D	0.6818	-4.7644E-05	60.80	13.64	60.80	36.07	UL-RL	4.7091E+05	-0.2000	0.000	1.000
1.000	13.64	0.000	0.000	5AL_158_160_L_0	14.20	61.75					
6 D	0.7100	-4.7644E-05	61.75	14.20	61.75	36.64	UL-RL	4.7091E+05	-0.2500	0.000	1.000
1.000	14.20	0.000	0.000	5AL_158_160_L_0	14.76	62.70					
7 D	0.7382	-4.7644E-05	62.70	14.76	62.70	37.20	UL-RL	4.7091E+05	-0.3000	0.000	1.000
1.000	14.76	0.000	0.000	5AL_158_160_L_0	15.33	63.65					
8 D	0.7664	-4.7644E-05	63.65	15.33	63.65	37.76	UL-RL	4.7091E+05	-0.3500	0.000	1.000
1.000	15.33	0.000	0.000	5AL_158_160_L_0	15.89	64.60					
9 D	0.7946	-4.7644E-05	64.60	15.89	64.60	38.33	UL-RL	4.7091E+05	-0.4000	0.000	1.000
1.000	15.89	0.000	0.000	5AL_158_160_L_0	16.45	65.55					
10 D	0.8227	-4.7644E-05	65.55	16.45	65.55	38.89	UL-RL	4.7091E+05	-0.4500	0.000	1.000
1.000	16.45	0.000	0.000	5AL_158_160_L_0	17.02	66.50					
11 D	0.8509	-4.7644E-05	66.50	17.02	66.50	39.45	UL-RL	4.7091E+05	-0.5000	0.000	1.000
1.000	17.02	0.000	0.000	5AL_158_160_L_0	17.58	67.45					
12 D	0.8791	-4.7644E-05	67.45	17.58	67.45	40.02	UL-RL	4.7091E+05	-0.5500	0.000	1.000
1.000	17.58	0.000	0.000	5AL_158_160_L_0	18.15	68.40					
13 D	0.9073	-4.7644E-05	68.40	18.15	68.40	40.58	UL-RL	4.7091E+05	-0.6000	0.000	1.000
1.000	18.15	0.000	0.000	5AL_158_160_L_0	18.71	69.35					
14 D	0.9355	-4.7644E-05	69.35	18.71	69.35	41.15	UL-RL	4.7091E+05	-0.6500	0.000	1.000
1.000	18.71	0.000	0.000	5AL_158_160_L_0	19.27	70.30					
15 D	0.9637	-4.7644E-05	70.30	19.27	70.30	41.71	UL-RL	4.7091E+05	-0.7000	0.000	1.000
1.000	19.27	0.000	0.000	5AL_158_160_L_0	19.84	71.25					
16 D	0.9918	-4.7644E-05	71.25	19.84	71.25	42.27	UL-RL	4.7091E+05	-0.7500	0.000	1.000
1.000	19.84	0.000	0.000	5AL_158_160_L_0	20.40	72.20					
17 D	1.020	-4.7644E-05	72.20	20.40	72.20	42.84	UL-RL	4.7091E+05	-0.8000	0.000	1.000
1.000	20.40	0.000	0.000	5AL_158_160_L_0	20.96	73.15					
18 D	1.048	-4.7644E-05	73.15	20.96	73.15	43.40	UL-RL	4.7091E+05	-0.8500	0.000	1.000
1.000	20.96	0.000	0.000	5AL_158_160_L_0	21.53	74.10					
19 D	1.076	-4.7644E-05	74.10	21.53	74.10	43.96	UL-RL	4.7091E+05	-0.9000	0.000	1.000
1.000	21.53	0.000	0.000	5AL_158_160_L_0	22.09	75.05					
20 D	1.105	-4.7644E-05	75.05	22.09	75.05	44.53	UL-RL	4.7091E+05	-0.9500	0.000	1.000
1.000	22.09	0.000	0.000	5AL_158_160_L_0	22.65	76.00					
21 D	1.133	-4.7644E-05	76.00	22.65	76.00	45.09	UL-RL	4.7091E+05	-1.000	0.000	1.000
1.000	22.65	0.000	0.000	5AL_158_160_L_0	23.22	76.95					
22 D	1.161	-4.7644E-05	76.95	23.22	76.95	45.65	UL-RL	4.7091E+05	-1.050	0.000	1.000
1.000	23.22	0.000	0.000	5AL_158_160_L_0	23.78	77.90					
23 D	1.189	-4.7644E-05	77.90	23.78	77.90	46.22	UL-RL	4.7091E+05	-1.100	0.000	1.000
1.000	23.78	0.000	0.000	5AL_158_160_L_0	24.35	78.85					
24 D	1.217	-4.7644E-05	78.85	24.35	78.85	46.78	UL-RL	4.7091E+05	-1.150	0.000	1.000
1.000	24.35	0.000	0.000	5AL_158_160_L_0	24.91	79.80					
25 D	1.245	-4.7644E-05	79.80	24.91	79.80	47.35	UL-RL	4.7091E+05	-1.200	0.000	1.000
1.000	24.91	0.000	0.000	5AL_158_160_L_0	25.47	80.75					
26 D	1.274	-4.7644E-05	80.75	25.47	80.75	47.91	UL-RL	4.7091E+05	-1.250	0.000	1.000
1.000	25.47	0.000	0.000	5AL_158_160_L_0	26.04	81.70					
27 D	1.302	-4.7644E-05	81.70	26.04	81.70	48.47	UL-RL	4.7091E+05	-1.300	0.000	1.000
1.000	26.04	0.000	0.000	5AL_158_160_L_0	26.60	82.65					
28 D	1.330	-4.7644E-05	82.65	26.60	82.65	49.04	UL-RL	4.7091E+05	-1.350	0.000	1.000

OPERE PROVVISORIALI					COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO	
RELAZIONE DI CALCOLO					L100	01	D 09CL	VI0100 004	A	305 di 401	
1.000	26.60	0.000	0.000	SAL_158_160_L_0							
29 D	1.358	-4.7644E-05	83.60	27.16	83.60	49.60	UL-RL	4.7091E+05	-1.400	0.000	1.000
1.000	27.16	0.000	0.000	SAL_158_160_L_0							
30 D	1.386	-4.7644E-05	84.55	27.73	84.55	50.16	UL-RL	4.7091E+05	-1.450	0.000	1.000
1.000	27.73	0.000	0.000	SAL_158_160_L_0							
31 D	1.415	-4.7644E-05	85.50	28.29	85.50	50.73	UL-RL	4.7091E+05	-1.500	0.000	1.000
1.000	28.29	0.000	0.000	SAL_158_160_L_0							
32 D	1.443	-4.7644E-05	86.45	28.85	86.45	51.29	UL-RL	4.7091E+05	-1.550	0.000	1.000
1.000	28.85	0.000	0.000	SAL_158_160_L_0							
33 D	1.471	-4.7644E-05	87.40	29.42	87.40	51.85	UL-RL	4.7091E+05	-1.600	0.000	1.000
1.000	29.42	0.000	0.000	SAL_158_160_L_0							
34 D	1.499	-4.7644E-05	88.35	29.98	88.35	52.42	UL-RL	4.7091E+05	-1.650	0.000	1.000
1.000	29.98	0.000	0.000	SAL_158_160_L_0							
35 D	1.527	-4.7644E-05	89.30	30.55	89.30	52.98	UL-RL	4.7091E+05	-1.700	0.000	1.000
1.000	30.55	0.000	0.000	SAL_158_160_L_0							
36 D	1.555	-4.7644E-05	90.25	31.11	90.25	53.55	UL-RL	4.7091E+05	-1.750	0.000	1.000
1.000	31.11	0.000	0.000	SAL_158_160_L_0							
37 D	1.584	-4.7644E-05	91.20	31.67	91.20	54.11	UL-RL	4.7091E+05	-1.800	0.000	1.000
1.000	31.67	0.000	0.000	SAL_158_160_L_0							
38 D	1.612	-4.7644E-05	92.15	32.24	92.15	54.67	UL-RL	4.7091E+05	-1.850	0.000	1.000
1.000	32.24	0.000	0.000	SAL_158_160_L_0							
39 D	1.640	-4.7644E-05	93.10	32.80	93.10	55.24	UL-RL	4.7091E+05	-1.900	0.000	1.000
1.000	32.80	0.000	0.000	SAL_158_160_L_0							
40 D	1.668	-4.7644E-05	94.05	33.36	94.05	55.80	UL-RL	4.7091E+05	-1.950	0.000	1.000
1.000	33.36	0.000	0.000	SAL_158_160_L_0							
41 D	1.696	-4.7644E-05	95.00	33.93	95.00	56.36	UL-RL	4.7091E+05	-2.000	0.000	1.000
1.000	33.93	0.000	0.000	SAL_158_160_L_0							
42 D	1.725	-4.7644E-05	95.95	34.49	95.95	56.93	UL-RL	4.7091E+05	-2.050	0.000	1.000
1.000	34.49	0.000	0.000	SAL_158_160_L_0							
43 D	1.753	-4.7644E-05	96.90	35.05	96.90	57.49	UL-RL	4.7091E+05	-2.100	0.000	1.000
1.000	35.05	0.000	0.000	SAL_158_160_L_0							
44 D	1.781	-4.7644E-05	97.85	35.62	97.85	58.05	UL-RL	4.7091E+05	-2.150	0.000	1.000
1.000	35.62	0.000	0.000	SAL_158_160_L_0							
45 D	1.809	-4.7644E-05	98.80	36.18	98.80	58.62	UL-RL	4.7091E+05	-2.200	0.000	1.000
1.000	36.18	0.000	0.000	SAL_158_160_L_0							
46 D	1.837	-4.7644E-05	99.75	36.75	99.75	59.18	UL-RL	4.7091E+05	-2.250	0.000	1.000
1.000	36.75	0.000	0.000	SAL_158_160_L_0							
47 D	1.865	-4.7644E-05	100.7	37.31	100.7	59.75	UL-RL	4.7091E+05	-2.300	0.000	1.000
1.000	37.31	0.000	0.000	SAL_158_160_L_0							
48 D	1.894	-4.7644E-05	101.6	37.87	101.6	60.31	UL-RL	4.7091E+05	-2.350	0.000	1.000
1.000	37.87	0.000	0.000	SAL_158_160_L_0							
49 D	1.922	-4.7644E-05	102.6	38.44	102.6	60.87	UL-RL	4.7091E+05	-2.400	0.000	1.000
1.000	38.44	0.000	0.000	SAL_158_160_L_0							
50 D	1.950	-4.7644E-05	103.5	39.00	103.5	61.44	UL-RL	4.7091E+05	-2.450	0.000	1.000
1.000	39.00	0.000	0.000	SAL_158_160_L_0							
51 D	1.978	-4.7644E-05	104.5	39.56	104.5	62.00	UL-RL	4.7091E+05	-2.500	0.000	1.000
1.000	39.56	0.000	0.000	SAL_158_160_L_0							
52 D	2.006	-4.7644E-05	105.4	40.13	105.4	62.56	UL-RL	4.7091E+05	-2.550	0.000	1.000
1.000	40.13	0.000	0.000	SAL_158_160_L_0							
53 D	2.035	-4.7644E-05	106.4	40.69	106.4	63.13	UL-RL	4.7091E+05	-2.600	0.000	1.000
1.000	40.69	0.000	0.000	SAL_158_160_L_0							
54 D	2.063	-4.7644E-05	107.3	41.25	107.3	63.69	UL-RL	4.7091E+05	-2.650	0.000	1.000
1.000	41.25	0.000	0.000	SAL_158_160_L_0							
55 D	2.091	-4.7644E-05	108.3	41.82	108.3	64.25	UL-RL	4.7091E+05	-2.700	0.000	1.000
1.000	41.82	0.000	0.000	SAL_158_160_L_0							
56 D	2.119	-4.7644E-05	109.2	42.38	109.2	64.82	UL-RL	4.7091E+05	-2.750	0.000	1.000
1.000	42.38	0.000	0.000	SAL_158_160_L_0							
57 D	2.147	-4.7644E-05	110.2	42.95	110.2	65.38	UL-RL	4.7091E+05	-2.800	0.000	1.000
1.000	42.95	0.000	0.000	SAL_158_160_L_0							
58 D	2.175	-4.7644E-05	111.1	43.51	111.1	65.95	UL-RL	4.7091E+05	-2.850	0.000	1.000
1.000	43.51	0.000	0.000	SAL_158_160_L_0							
59 D	2.204	-4.7644E-05	112.1	44.07	112.1	66.51	UL-RL	4.7091E+05	-2.900	0.000	1.000
1.000	44.07	0.000	0.000	SAL_158_160_L_0							
60 D	2.232	-4.7644E-05	113.0	44.64	113.0	67.07	UL-RL	4.7091E+05	-2.950	0.000	1.000
1.000	44.64	0.000	0.000	SAL_158_160_L_0							
61 D	2.260	-4.7644E-05	114.0	45.20	114.0	67.64	UL-RL	4.7091E+05	-3.000	0.000	1.000
1.000	45.20	0.000	0.000	SAL_158_160_L_0							
62 D	2.288	-4.7644E-05	114.9	45.76	114.9	68.20	UL-RL	4.7091E+05	-3.050	0.000	1.000
1.000	45.76	0.000	0.000	SAL_158_160_L_0							
63 D	2.316	-4.7644E-05	115.9	46.33	115.9	68.76	UL-RL	4.7091E+05	-3.100	0.000	1.000
1.000	46.33	0.000	0.000	SAL_158_160_L_0							
64 D	2.345	-4.7644E-05	116.8	46.89	116.8	69.33	UL-RL	4.7091E+05	-3.150	0.000	1.000
1.000	46.89	0.000	0.000	SAL_158_160_L_0							
65 D	2.373	-4.7644E-05	117.8	47.45	117.8	69.89	UL-RL	4.7091E+05	-3.200	0.000	1.000
1.000	47.45	0.000	0.000	SAL_158_160_L_0							
66 D	2.401	-4.7644E-05	118.7	48.02	118.7	70.45	UL-RL	4.7091E+05	-3.250	0.000	1.000
1.000	48.02	0.000	0.000	SAL_158_160_L_0							
67 D	2.429	-4.7644E-05	119.7	48.58	119.7	71.02	UL-RL	4.7091E+05	-3.300	0.000	1.000
1.000	48.58	0.000	0.000	SAL_158_160_L_0							
68 D	2.457	-4.7644E-05	120.6	49.15	120.6	71.58	UL-RL	4.7091E+05	-3.350	0.000	1.000
1.000	49.15	0.000	0.000	SAL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	305 di 401

69 D	2.485	-4.7644E-05	121.6	49.71	121.6	72.15	UL-RL	4.7091E+05	-3.400	0.000	1.000
1.000	49.71	0.000	0.000	5AL_158_160_L_0							
70 D	2.514	-4.7644E-05	122.5	50.27	122.5	72.71	UL-RL	4.7091E+05	-3.450	0.000	1.000
1.000	50.27	0.000	0.000	5AL_158_160_L_0							
71 D	2.542	-4.7644E-05	123.5	50.84	123.5	73.27	UL-RL	4.7091E+05	-3.500	0.000	1.000
1.000	50.84	0.000	0.000	5AL_158_160_L_0							
72 D	2.570	-4.7644E-05	124.4	51.40	124.4	73.84	UL-RL	4.7091E+05	-3.550	0.000	1.000
1.000	51.40	0.000	0.000	5AL_158_160_L_0							
73 D	2.598	-4.7644E-05	125.4	51.96	125.4	74.40	UL-RL	4.7091E+05	-3.600	0.000	1.000
1.000	51.96	0.000	0.000	5AL_158_160_L_0							
74 D	2.626	-4.7644E-05	126.3	52.53	126.3	74.96	UL-RL	4.7091E+05	-3.650	0.000	1.000
1.000	52.53	0.000	0.000	5AL_158_160_L_0							
75 D	2.655	-4.7644E-05	127.3	53.09	127.3	75.53	UL-RL	4.7091E+05	-3.700	0.000	1.000
1.000	53.09	0.000	0.000	5AL_158_160_L_0							
76 D	2.683	-4.7644E-05	128.2	53.65	128.2	76.09	UL-RL	4.7091E+05	-3.750	0.000	1.000
1.000	53.65	0.000	0.000	5AL_158_160_L_0							
77 D	2.711	-4.7644E-05	129.2	54.22	129.2	76.65	UL-RL	4.7091E+05	-3.800	0.000	1.000
1.000	54.22	0.000	0.000	5AL_158_160_L_0							
78 D	2.739	-4.7644E-05	130.1	54.78	130.1	77.22	UL-RL	4.7091E+05	-3.850	0.000	1.000
1.000	54.78	0.000	0.000	5AL_158_160_L_0							
79 D	2.767	-4.7644E-05	131.1	55.35	131.1	77.78	UL-RL	4.7091E+05	-3.900	0.000	1.000
1.000	55.35	0.000	0.000	5AL_158_160_L_0							
80 D	2.795	-4.7644E-05	132.0	55.91	132.0	78.35	UL-RL	4.7091E+05	-3.950	0.000	1.000
1.000	55.91	0.000	0.000	5AL_158_160_L_0							
81 D	2.824	-4.7644E-05	133.0	56.47	133.0	78.91	UL-RL	4.7091E+05	-4.000	0.000	1.000
1.000	56.47	0.000	0.000	5AL_158_160_L_0							
82 D	2.862	-4.7644E-05	133.4	56.74	133.4	79.18	UL-RL	4.7091E+05	-4.050	0.5000	1.000
1.000	57.24	0.000	0.000	5AL_158_160_L_0							
83 D	2.900	-4.7644E-05	133.9	57.01	133.9	79.44	UL-RL	4.7091E+05	-4.100	1.000	1.000
1.000	58.01	0.000	0.000	5AL_158_160_L_0							
84 D	2.939	-4.7644E-05	134.3	57.27	134.3	79.71	UL-RL	4.7091E+05	-4.150	1.500	1.000
1.000	58.77	0.000	0.000	5AL_158_160_L_0							
85 D	2.977	-4.7644E-05	134.8	57.54	134.8	79.98	UL-RL	4.7091E+05	-4.200	2.000	1.000
1.000	59.54	0.000	0.000	5AL_158_160_L_0							
86 D	3.015	-4.7644E-05	135.2	57.81	135.2	80.24	UL-RL	4.7091E+05	-4.250	2.500	1.000
1.000	60.31	0.000	0.000	5AL_158_160_L_0							
87 D	3.054	-4.7644E-05	135.7	58.07	135.7	80.51	UL-RL	4.7091E+05	-4.300	3.000	1.000
1.000	61.07	0.000	0.000	5AL_158_160_L_0							
88 D	3.092	-4.7644E-05	136.1	58.34	136.1	80.78	UL-RL	4.7091E+05	-4.350	3.500	1.000
1.000	61.84	0.000	0.000	5AL_158_160_L_0							
89 D	3.130	-4.7644E-05	136.6	58.61	136.6	81.04	UL-RL	4.7091E+05	-4.400	4.000	1.000
1.000	62.61	0.000	0.000	5AL_158_160_L_0							
90 D	3.169	-4.7644E-05	137.0	58.88	137.0	81.31	UL-RL	4.7091E+05	-4.450	4.500	1.000
1.000	63.38	0.000	0.000	5AL_158_160_L_0							
91 D	3.207	-4.7644E-05	137.5	59.14	137.5	81.58	UL-RL	4.7091E+05	-4.500	5.000	1.000
1.000	64.14	0.000	0.000	5AL_158_160_L_0							
92 D	3.245	-4.7644E-05	137.9	59.41	137.9	81.85	UL-RL	4.7091E+05	-4.550	5.500	1.000
1.000	64.91	0.000	0.000	5AL_158_160_L_0							
93 D	3.284	-4.7644E-05	138.4	59.68	138.4	82.11	UL-RL	4.7091E+05	-4.600	6.000	1.000
1.000	65.68	0.000	0.000	5AL_158_160_L_0							
94 D	3.322	-4.7644E-05	138.9	59.94	138.9	82.38	UL-RL	4.7091E+05	-4.650	6.500	1.000
1.000	66.44	0.000	0.000	5AL_158_160_L_0							
95 D	3.361	-4.7644E-05	139.3	60.21	139.3	82.65	UL-RL	4.7091E+05	-4.700	7.000	1.000
1.000	67.21	0.000	0.000	5AL_158_160_L_0							
96 D	3.399	-4.7644E-05	139.8	60.48	139.8	82.91	UL-RL	4.7091E+05	-4.750	7.500	1.000
1.000	67.98	0.000	0.000	5AL_158_160_L_0							
97 D	3.437	-4.7644E-05	140.2	60.74	140.2	83.18	UL-RL	4.7091E+05	-4.800	8.000	1.000
1.000	68.74	0.000	0.000	5AL_158_160_L_0							
98 D	3.476	-4.7644E-05	140.6	61.01	140.6	83.45	UL-RL	4.7091E+05	-4.850	8.500	1.000
1.000	69.51	0.000	0.000	5AL_158_160_L_0							
99 D	3.514	-4.7644E-05	141.1	61.28	141.1	83.71	UL-RL	4.7091E+05	-4.900	9.000	1.000
1.000	70.28	0.000	0.000	5AL_158_160_L_0							
100 D	3.552	-4.7644E-05	141.6	61.55	141.6	83.98	UL-RL	4.7091E+05	-4.950	9.500	1.000
1.000	71.05	0.000	0.000	5AL_158_160_L_0							
101 D	3.591	-4.7644E-05	142.0	61.81	142.0	84.25	UL-RL	4.7091E+05	-5.000	10.00	1.000
1.000	71.81	0.000	0.000	5AL_158_160_L_0							
102 D	3.629	-4.7644E-05	142.5	62.08	142.5	84.52	UL-RL	4.7091E+05	-5.050	10.50	1.000
1.000	72.58	0.000	0.000	5AL_158_160_L_0							
103 D	3.667	-4.7644E-05	142.9	62.35	142.9	84.78	UL-RL	4.7091E+05	-5.100	11.00	1.000
1.000	73.35	0.000	0.000	5AL_158_160_L_0							
104 D	3.706	-4.7644E-05	143.4	62.61	143.4	85.05	UL-RL	4.7091E+05	-5.150	11.50	1.000
1.000	74.11	0.000	0.000	5AL_158_160_L_0							
105 D	3.744	-4.7644E-05	143.8	62.88	143.8	85.32	UL-RL	4.7091E+05	-5.200	12.00	1.000
1.000	74.88	0.000	0.000	5AL_158_160_L_0							
106 D	3.782	-4.7644E-05	144.3	63.15	144.3	85.58	UL-RL	4.7091E+05	-5.250	12.50	1.000
1.000	75.65	0.000	0.000	5AL_158_160_L_0							
107 D	3.821	-4.7644E-05	144.7	63.41	144.7	85.85	UL-RL	4.7091E+05	-5.300	13.00	1.000
1.000	76.41	0.000	0.000	5AL_158_160_L_0							
108 D	3.859	-4.7644E-05	145.2	63.68	145.2	86.12	UL-RL	4.7091E+05	-5.350	13.50	1.000
1.000	77.18	0.000	0.000	5AL_158_160_L_0							
109 D	3.897	-4.7644E-05	145.6	63.95	145.6	86.38	UL-RL	4.7091E+05	-5.400	14.00	1.000

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	307 di 401

RELAZIONE DI CALCOLO

1.000	77.95	0.000	0.000	SAL_158_160_L_0							
110 D	3.936	-4.7644E-05	146.1	64.22	146.1	86.65	UL-RL	4.7091E+05	-5.450	14.50	1.000
1.000	78.72	0.000	0.000	SAL_158_160_L_0							
111 D	3.974	-4.7644E-05	146.5	64.48	146.5	86.92	UL-RL	4.7091E+05	-5.500	15.00	1.000
1.000	79.48	0.000	0.000	SAL_158_160_L_0							
112 D	4.012	-4.7644E-05	147.0	64.75	147.0	87.19	UL-RL	4.7091E+05	-5.550	15.50	1.000
1.000	80.25	0.000	0.000	SAL_158_160_L_0							
113 D	4.051	-4.7644E-05	147.4	65.02	147.4	87.45	UL-RL	4.7091E+05	-5.600	16.00	1.000
1.000	81.02	0.000	0.000	SAL_158_160_L_0							
114 D	4.089	-4.7644E-05	147.9	65.28	147.9	87.72	UL-RL	4.7091E+05	-5.650	16.50	1.000
1.000	81.78	0.000	0.000	SAL_158_160_L_0							
115 D	4.128	-4.7644E-05	148.3	65.55	148.3	87.99	UL-RL	4.7091E+05	-5.700	17.00	1.000
1.000	82.55	0.000	0.000	SAL_158_160_L_0							
116 D	4.166	-4.7644E-05	148.8	65.82	148.8	88.25	UL-RL	4.7091E+05	-5.750	17.50	1.000
1.000	83.32	0.000	0.000	SAL_158_160_L_0							
117 D	4.204	-4.7644E-05	149.2	66.08	149.2	88.52	UL-RL	4.7091E+05	-5.800	18.00	1.000
1.000	84.08	0.000	0.000	SAL_158_160_L_0							
118 D	4.243	-4.7644E-05	149.7	66.35	149.7	88.79	UL-RL	4.7091E+05	-5.850	18.50	1.000
1.000	84.85	0.000	0.000	SAL_158_160_L_0							
119 D	4.281	-4.7644E-05	150.1	66.62	150.1	89.05	UL-RL	4.7091E+05	-5.900	19.00	1.000
1.000	85.62	0.000	0.000	SAL_158_160_L_0							
120 D	4.319	-4.7644E-05	150.6	66.89	150.6	89.32	UL-RL	4.7091E+05	-5.950	19.50	1.000
1.000	86.39	0.000	0.000	SAL_158_160_L_0							
121 D	4.358	-4.7644E-05	151.0	67.15	151.0	89.59	UL-RL	4.7091E+05	-6.000	20.00	1.000
1.000	87.15	0.000	0.000	SAL_158_160_L_0							
122 D	4.396	-4.7644E-05	151.5	67.42	151.5	89.86	UL-RL	4.7091E+05	-6.050	20.50	1.000
1.000	87.92	0.000	0.000	SAL_158_160_L_0							
123 D	4.434	-4.7644E-05	151.9	67.69	151.9	90.12	UL-RL	4.7091E+05	-6.100	21.00	1.000
1.000	88.69	0.000	0.000	SAL_158_160_L_0							
124 D	4.473	-4.7644E-05	152.4	67.95	152.4	90.39	UL-RL	4.7091E+05	-6.150	21.50	1.000
1.000	89.45	0.000	0.000	SAL_158_160_L_0							
125 D	4.511	-4.7644E-05	152.8	68.22	152.8	90.66	UL-RL	4.7091E+05	-6.200	22.00	1.000
1.000	90.22	0.000	0.000	SAL_158_160_L_0							
126 D	4.549	-4.7644E-05	153.3	68.49	153.3	90.92	UL-RL	4.7091E+05	-6.250	22.50	1.000
1.000	90.99	0.000	0.000	SAL_158_160_L_0							
127 D	4.588	-4.7644E-05	153.7	68.75	153.7	91.19	UL-RL	4.7091E+05	-6.300	23.00	1.000
1.000	91.75	0.000	0.000	SAL_158_160_L_0							
128 D	4.626	-4.7644E-05	154.2	69.02	154.2	91.46	UL-RL	4.7091E+05	-6.350	23.50	1.000
1.000	92.52	0.000	0.000	SAL_158_160_L_0							
129 D	4.664	-4.7644E-05	154.6	69.29	154.6	91.72	UL-RL	4.7091E+05	-6.400	24.00	1.000
1.000	93.29	0.000	0.000	SAL_158_160_L_0							
130 D	4.703	-4.7644E-05	155.1	69.56	155.1	91.99	UL-RL	4.7091E+05	-6.450	24.50	1.000
1.000	94.06	0.000	0.000	SAL_158_160_L_0							
131 D	4.741	-4.7644E-05	155.5	69.82	155.5	92.26	UL-RL	4.7091E+05	-6.500	25.00	1.000
1.000	94.82	0.000	0.000	SAL_158_160_L_0							
132 D	4.779	-4.7644E-05	156.0	70.09	156.0	92.53	UL-RL	4.7091E+05	-6.550	25.50	1.000
1.000	95.59	0.000	0.000	SAL_158_160_L_0							
133 D	4.818	-4.7644E-05	156.4	70.36	156.4	92.79	UL-RL	4.7091E+05	-6.600	26.00	1.000
1.000	96.36	0.000	0.000	SAL_158_160_L_0							
134 D	4.856	-4.7644E-05	156.9	70.62	156.9	93.06	UL-RL	4.7091E+05	-6.650	26.50	1.000
1.000	97.12	0.000	0.000	SAL_158_160_L_0							
135 D	4.895	-4.7644E-05	157.3	70.89	157.3	93.33	UL-RL	4.7091E+05	-6.700	27.00	1.000
1.000	97.89	0.000	0.000	SAL_158_160_L_0							
136 D	4.933	-4.7644E-05	157.8	71.16	157.8	93.59	UL-RL	4.7091E+05	-6.750	27.50	1.000
1.000	98.66	0.000	0.000	SAL_158_160_L_0							
137 D	4.971	-4.7644E-05	158.2	71.42	158.2	93.86	UL-RL	4.7091E+05	-6.800	28.00	1.000
1.000	99.42	0.000	0.000	SAL_158_160_L_0							
138 D	5.010	-4.7644E-05	158.7	71.69	158.7	94.13	UL-RL	4.7091E+05	-6.850	28.50	1.000
1.000	100.2	0.000	0.000	SAL_158_160_L_0							
139 D	5.048	-4.7644E-05	159.1	71.96	159.1	94.39	UL-RL	4.7091E+05	-6.900	29.00	1.000
1.000	101.0	0.000	0.000	SAL_158_160_L_0							
140 D	5.086	-4.7644E-05	159.6	72.23	159.6	94.66	UL-RL	4.7091E+05	-6.950	29.50	1.000
1.000	101.7	0.000	0.000	SAL_158_160_L_0							
141 D	5.125	-4.7644E-05	160.0	72.49	160.0	94.93	UL-RL	4.7091E+05	-7.000	30.00	1.000
1.000	102.5	0.000	0.000	SAL_158_160_L_0							
142 D	5.163	-4.7644E-05	160.5	72.76	160.5	95.20	UL-RL	4.7091E+05	-7.050	30.50	1.000
1.000	103.3	0.000	0.000	SAL_158_160_L_0							
143 D	5.201	-4.7644E-05	160.9	73.03	160.9	95.46	UL-RL	4.7091E+05	-7.100	31.00	1.000
1.000	104.0	0.000	0.000	SAL_158_160_L_0							
144 D	5.240	-4.7644E-05	161.4	73.29	161.4	95.73	UL-RL	4.7091E+05	-7.150	31.50	1.000
1.000	104.8	0.000	0.000	SAL_158_160_L_0							
145 D	5.278	-4.7644E-05	161.8	73.56	161.8	96.00	UL-RL	4.7091E+05	-7.200	32.00	1.000
1.000	105.6	0.000	0.000	SAL_158_160_L_0							
146 D	5.316	-4.7644E-05	162.3	73.83	162.3	96.26	UL-RL	4.7091E+05	-7.250	32.50	1.000
1.000	106.3	0.000	0.000	SAL_158_160_L_0							
147 D	5.355	-4.7644E-05	162.7	74.09	162.7	96.53	UL-RL	4.7091E+05	-7.300	33.00	1.000
1.000	107.1	0.000	0.000	SAL_158_160_L_0							
148 D	5.393	-4.7644E-05	163.2	74.36	163.2	96.80	UL-RL	4.7091E+05	-7.350	33.50	1.000
1.000	107.9	0.000	0.000	SAL_158_160_L_0							
149 D	5.431	-4.7644E-05	163.6	74.63	163.6	97.06	UL-RL	4.7091E+05	-7.400	34.00	1.000
1.000	108.6	0.000	0.000	SAL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	308 di 401

150 D	5.470	-4.7644E-05	164.1	74.90	164.1	97.33	UL-RL	4.7091E+05	-7.450	34.50	1.000
1.000	109.4	0.000	0.000	5AL_158_160_L_0							
151 D	5.508	-4.7644E-05	164.5	75.16	164.5	97.60	UL-RL	4.7091E+05	-7.500	35.00	1.000
1.000	110.2	0.000	0.000	5AL_158_160_L_0							
152 D	5.546	-4.7644E-05	165.0	75.43	165.0	97.86	UL-RL	4.7091E+05	-7.550	35.50	1.000
1.000	110.9	0.000	0.000	5AL_158_160_L_0							
153 D	5.585	-4.7644E-05	165.4	75.70	165.4	98.13	UL-RL	4.7091E+05	-7.600	36.00	1.000
1.000	111.7	0.000	0.000	5AL_158_160_L_0							
154 D	5.623	-4.7644E-05	165.9	75.96	165.9	98.40	UL-RL	4.7091E+05	-7.650	36.50	1.000
1.000	112.5	0.000	0.000	5AL_158_160_L_0							
155 D	5.662	-4.7644E-05	166.3	76.23	166.3	98.67	UL-RL	4.7091E+05	-7.700	37.00	1.000
1.000	113.2	0.000	0.000	5AL_158_160_L_0							
156 D	5.700	-4.7644E-05	166.8	76.50	166.8	98.93	UL-RL	4.7091E+05	-7.750	37.50	1.000
1.000	114.0	0.000	0.000	5AL_158_160_L_0							
157 D	5.738	-4.7644E-05	167.2	76.76	167.2	99.20	UL-RL	4.7091E+05	-7.800	38.00	1.000
1.000	114.8	0.000	0.000	5AL_158_160_L_0							
158 D	5.777	-4.7644E-05	167.7	77.03	167.7	99.47	UL-RL	4.7091E+05	-7.850	38.50	1.000
1.000	115.5	0.000	0.000	5AL_158_160_L_0							
159 D	5.815	-4.7644E-05	168.1	77.30	168.1	99.73	UL-RL	4.7091E+05	-7.900	39.00	1.000
1.000	116.3	0.000	0.000	5AL_158_160_L_0							
160 D	5.853	-4.7644E-05	168.6	77.56	168.6	100.0	UL-RL	4.7091E+05	-7.950	39.50	1.000
1.000	117.1	0.000	0.000	5AL_158_160_L_0							
161 D	5.892	-4.7644E-05	169.0	77.83	169.0	100.3	UL-RL	4.7091E+05	-8.000	40.00	1.000
1.000	117.8	0.000	0.000	5AL_158_160_L_0							
162 D	5.930	-4.7644E-05	169.5	78.10	169.5	100.5	UL-RL	4.7091E+05	-8.050	40.50	1.000
1.000	118.6	0.000	0.000	5AL_158_160_L_0							
163 D	5.968	-4.7644E-05	169.9	78.37	169.9	100.8	UL-RL	4.7091E+05	-8.100	41.00	1.000
1.000	119.4	0.000	0.000	5AL_158_160_L_0							
164 D	6.007	-4.7644E-05	170.4	78.63	170.4	101.1	UL-RL	4.7091E+05	-8.150	41.50	1.000
1.000	120.1	0.000	0.000	5AL_158_160_L_0							
165 D	6.045	-4.7644E-05	170.8	78.90	170.8	101.3	UL-RL	4.7091E+05	-8.200	42.00	1.000
1.000	120.9	0.000	0.000	5AL_158_160_L_0							
166 D	6.083	-4.7644E-05	171.3	79.17	171.3	101.6	UL-RL	4.7091E+05	-8.250	42.50	1.000
1.000	121.7	0.000	0.000	5AL_158_160_L_0							
167 D	6.122	-4.7644E-05	171.7	79.43	171.7	101.9	UL-RL	4.7091E+05	-8.300	43.00	1.000
1.000	122.4	0.000	0.000	5AL_158_160_L_0							
168 D	6.160	-4.7644E-05	172.2	79.70	172.2	102.1	UL-RL	4.7091E+05	-8.350	43.50	1.000
1.000	123.2	0.000	0.000	5AL_158_160_L_0							
169 D	6.198	-4.7644E-05	172.6	79.97	172.6	102.4	UL-RL	4.7091E+05	-8.400	44.00	1.000
1.000	124.0	0.000	0.000	5AL_158_160_L_0							
170 D	6.237	-4.7644E-05	173.1	80.23	173.1	102.7	UL-RL	4.7091E+05	-8.450	44.50	1.000
1.000	124.7	0.000	0.000	5AL_158_160_L_0							
171 D	6.275	-4.7644E-05	173.5	80.50	173.5	102.9	UL-RL	4.7091E+05	-8.500	45.00	1.000
1.000	125.5	0.000	0.000	5AL_158_160_L_0							
172 D	6.313	-4.7644E-05	174.0	80.77	174.0	103.2	UL-RL	4.7091E+05	-8.550	45.50	1.000
1.000	126.3	0.000	0.000	5AL_158_160_L_0							
173 D	6.352	-4.7644E-05	174.4	81.04	174.4	103.5	UL-RL	4.7091E+05	-8.600	46.00	1.000
1.000	127.0	0.000	0.000	5AL_158_160_L_0							
174 D	6.390	-4.7644E-05	174.9	81.30	174.9	103.7	UL-RL	4.7091E+05	-8.650	46.50	1.000
1.000	127.8	0.000	0.000	5AL_158_160_L_0							
175 D	6.428	-4.7644E-05	175.3	81.57	175.3	104.0	UL-RL	4.7091E+05	-8.700	47.00	1.000
1.000	128.6	0.000	0.000	5AL_158_160_L_0							
176 D	6.467	-4.7644E-05	175.8	81.84	175.8	104.3	UL-RL	4.7091E+05	-8.750	47.50	1.000
1.000	129.3	0.000	0.000	5AL_158_160_L_0							
177 D	6.505	-4.7644E-05	176.2	82.10	176.2	104.5	UL-RL	4.7091E+05	-8.800	48.00	1.000
1.000	130.1	0.000	0.000	5AL_158_160_L_0							
178 D	6.544	-4.7644E-05	176.7	82.37	176.7	104.8	UL-RL	4.7091E+05	-8.850	48.50	1.000
1.000	130.9	0.000	0.000	5AL_158_160_L_0							
179 D	6.582	-4.7644E-05	177.1	82.64	177.1	105.1	UL-RL	4.7091E+05	-8.900	49.00	1.000
1.000	131.6	0.000	0.000	5AL_158_160_L_0							
180 D	6.620	-4.7644E-05	177.6	82.90	177.6	105.3	UL-RL	4.7091E+05	-8.950	49.50	1.000
1.000	132.4	0.000	0.000	5AL_158_160_L_0							
181 D	6.659	-4.7644E-05	178.0	83.17	178.0	105.6	UL-RL	4.7091E+05	-9.000	50.00	1.000
1.000	133.2	0.000	0.000	5AL_158_160_L_0							
182 D	6.697	-4.7644E-05	178.5	83.44	178.5	105.9	UL-RL	4.7091E+05	-9.050	50.50	1.000
1.000	133.9	0.000	0.000	5AL_158_160_L_0							
183 D	6.735	-4.7644E-05	178.9	83.71	178.9	106.1	UL-RL	4.7091E+05	-9.100	51.00	1.000
1.000	134.7	0.000	0.000	5AL_158_160_L_0							
184 D	6.774	-4.7644E-05	179.4	83.97	179.4	106.4	UL-RL	4.7091E+05	-9.150	51.50	1.000
1.000	135.5	0.000	0.000	5AL_158_160_L_0							
185 D	6.812	-4.7644E-05	179.8	84.24	179.8	106.7	UL-RL	4.7091E+05	-9.200	52.00	1.000
1.000	136.2	0.000	0.000	5AL_158_160_L_0							
186 D	6.850	-4.7644E-05	180.3	84.51	180.3	106.9	UL-RL	4.7091E+05	-9.250	52.50	1.000
1.000	137.0	0.000	0.000	5AL_158_160_L_0							
187 D	6.889	-4.7644E-05	180.7	84.77	180.7	107.2	UL-RL	4.7091E+05	-9.300	53.00	1.000
1.000	137.8	0.000	0.000	5AL_158_160_L_0							
188 D	6.927	-4.7644E-05	181.2	85.04	181.2	107.5	UL-RL	4.7091E+05	-9.350	53.50	1.000
1.000	138.5	0.000	0.000	5AL_158_160_L_0							
189 D	6.965	-4.7644E-05	181.6	85.31	181.6	107.7	UL-RL	4.7091E+05	-9.400	54.00	1.000
1.000	139.3	0.000	0.000	5AL_158_160_L_0							
190 D	7.004	-4.7644E-05	182.1	85.57	182.1	108.0	UL-RL	4.7091E+05	-9.450	54.50	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	309 di 401

RELAZIONE DI CALCOLO

1.000	140.1	0.000	0.000	5AL_158_160_L_0							
191 D	7.042	-4.7644E-05	182.5	85.84	182.5	108.3	UL-RL	4.7091E+05	-9.500	55.00	1.000
1.000	140.8	0.000	0.000	5AL_158_160_L_0							
192 D	7.080	-4.7644E-05	183.0	86.11	183.0	108.5	UL-RL	4.7091E+05	-9.550	55.50	1.000
1.000	141.6	0.000	0.000	5AL_158_160_L_0							
193 D	7.119	-4.7644E-05	183.4	86.38	183.4	108.8	UL-RL	4.7091E+05	-9.600	56.00	1.000
1.000	142.4	0.000	0.000	5AL_158_160_L_0							
194 D	7.157	-4.7644E-05	183.9	86.64	183.9	109.1	UL-RL	4.7091E+05	-9.650	56.50	1.000
1.000	143.1	0.000	0.000	5AL_158_160_L_0							
195 D	7.195	-4.7644E-05	184.3	86.91	184.3	109.3	UL-RL	4.7091E+05	-9.700	57.00	1.000
1.000	143.9	0.000	0.000	5AL_158_160_L_0							
196 D	7.234	-4.7644E-05	184.8	87.18	184.8	109.6	UL-RL	4.7091E+05	-9.750	57.50	1.000
1.000	144.7	0.000	0.000	5AL_158_160_L_0							
197 D	7.272	-4.7644E-05	185.2	87.44	185.2	109.9	UL-RL	4.7091E+05	-9.800	58.00	1.000
1.000	145.4	0.000	0.000	5AL_158_160_L_0							
198 D	7.311	-4.7644E-05	185.7	87.71	185.7	110.1	UL-RL	4.7091E+05	-9.850	58.50	1.000
1.000	146.2	0.000	0.000	5AL_158_160_L_0							
199 D	7.349	-4.7644E-05	186.1	87.98	186.1	110.4	UL-RL	4.7091E+05	-9.900	59.00	1.000
1.000	147.0	0.000	0.000	5AL_158_160_L_0							
200 D	7.386	-4.7644E-05	186.6	88.24	186.6	110.7	UL-RL	4.7091E+05	-9.950	59.50	1.000
1.000	147.7	0.000	0.000	5AL_158_160_L_0							
201 D	3.711	-4.7644E-05	187.0	88.51	187.0	110.9	UL-RL	4.7091E+05	-10.00	60.00	1.000
1.000	148.5	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICASTR_986
Exe Time :21 June 2016 11:57:46

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

OR :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
UFACTOR	Peq	Su_a	Su_p	LAYER							
1 D	0.2846	4.7644E-05	0.000	11.38	0.000	11.38	V-C	2.3890E+05	0.000	0.000	1.000
1.000	11.38	0.000	0.000	5AL_158_160_L_0							
2 D	0.5973	4.7644E-05	0.9500	11.95	0.9500	11.95	V-C	2.3890E+05	-5.0000E-02	0.000	1.000
1.000	11.95	0.000	0.000	5AL_158_160_L_0							
3 D	0.6255	4.7644E-05	1.900	12.51	1.900	12.51	V-C	2.3890E+05	-0.1000	0.000	1.000
1.000	12.51	0.000	0.000	5AL_158_160_L_0							
4 D	0.6537	4.7644E-05	2.850	13.07	2.850	13.07	V-C	2.3890E+05	-0.1500	0.000	1.000
1.000	13.07	0.000	0.000	5AL_158_160_L_0							
5 D	0.6818	4.7644E-05	3.800	13.64	3.800	13.64	V-C	2.3890E+05	-0.2000	0.000	1.000
1.000	13.64	0.000	0.000	5AL_158_160_L_0							
6 D	0.7100	4.7644E-05	4.750	14.20	4.750	14.20	V-C	2.3890E+05	-0.2500	0.000	1.000
1.000	14.20	0.000	0.000	5AL_158_160_L_0							
7 D	0.7382	4.7644E-05	5.700	14.76	5.700	14.76	V-C	2.3890E+05	-0.3000	0.000	1.000
1.000	14.76	0.000	0.000	5AL_158_160_L_0							
8 D	0.7664	4.7644E-05	6.650	15.33	6.650	15.33	V-C	2.3890E+05	-0.3500	0.000	1.000
1.000	15.33	0.000	0.000	5AL_158_160_L_0							
9 D	0.7946	4.7644E-05	7.600	15.89	7.600	15.89	V-C	2.3890E+05	-0.4000	0.000	1.000
1.000	15.89	0.000	0.000	5AL_158_160_L_0							
10 D	0.8227	4.7644E-05	8.550	16.45	8.550	16.45	V-C	2.3890E+05	-0.4500	0.000	1.000
1.000	16.45	0.000	0.000	5AL_158_160_L_0							
11 D	0.8509	4.7644E-05	9.500	17.02	9.500	17.02	V-C	2.3890E+05	-0.5000	0.000	1.000
1.000	17.02	0.000	0.000	5AL_158_160_L_0							
12 D	0.8791	4.7644E-05	10.45	17.58	10.45	17.58	V-C	2.3890E+05	-0.5500	0.000	1.000
1.000	17.58	0.000	0.000	5AL_158_160_L_0							
13 D	0.9073	4.7644E-05	11.40	18.15	11.40	18.15	V-C	2.3890E+05	-0.6000	0.000	1.000
1.000	18.15	0.000	0.000	5AL_158_160_L_0							
14 D	0.9355	4.7644E-05	12.35	18.71	12.35	18.71	V-C	2.3890E+05	-0.6500	0.000	1.000
1.000	18.71	0.000	0.000	5AL_158_160_L_0							
15 D	0.9637	4.7644E-05	13.30	19.27	13.30	19.27	V-C	2.3890E+05	-0.7000	0.000	1.000
1.000	19.27	0.000	0.000	5AL_158_160_L_0							
16 D	0.9918	4.7644E-05	14.25	19.84	14.25	19.84	V-C	2.3890E+05	-0.7500	0.000	1.000
1.000	19.84	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100.004	A	310 di 401

17 D	1.020	4.7644E-05	15.20	20.40	15.20	20.40	V-C	2.3890E+05	-0.8000	0.000	1.000
1.000	20.40	0.000	0.000	SAL_158_160_L_0							
18 D	1.048	4.7644E-05	16.15	20.96	16.15	20.96	V-C	2.3890E+05	-0.8500	0.000	1.000
1.000	20.96	0.000	0.000	SAL_158_160_L_0							
19 D	1.076	4.7644E-05	17.10	21.53	17.10	21.53	V-C	2.3890E+05	-0.9000	0.000	1.000
1.000	21.53	0.000	0.000	SAL_158_160_L_0							
20 D	1.105	4.7644E-05	18.05	22.09	18.05	22.09	V-C	2.3890E+05	-0.9500	0.000	1.000
1.000	22.09	0.000	0.000	SAL_158_160_L_0							
21 D	1.133	4.7644E-05	19.00	22.65	19.00	22.65	V-C	2.3890E+05	-1.000	0.000	1.000
1.000	22.65	0.000	0.000	SAL_158_160_L_0							
22 D	1.161	4.7644E-05	19.95	23.22	19.95	23.22	V-C	2.3890E+05	-1.050	0.000	1.000
1.000	23.22	0.000	0.000	SAL_158_160_L_0							
23 D	1.189	4.7644E-05	20.90	23.78	20.90	23.78	V-C	2.3890E+05	-1.100	0.000	1.000
1.000	23.78	0.000	0.000	SAL_158_160_L_0							
24 D	1.217	4.7644E-05	21.85	24.35	21.85	24.35	V-C	2.3890E+05	-1.150	0.000	1.000
1.000	24.35	0.000	0.000	SAL_158_160_L_0							
25 D	1.245	4.7644E-05	22.80	24.91	22.80	24.91	V-C	2.3890E+05	-1.200	0.000	1.000
1.000	24.91	0.000	0.000	SAL_158_160_L_0							
26 D	1.274	4.7644E-05	23.75	25.47	23.75	25.47	V-C	2.3890E+05	-1.250	0.000	1.000
1.000	25.47	0.000	0.000	SAL_158_160_L_0							
27 D	1.302	4.7644E-05	24.70	26.04	24.70	26.04	V-C	2.3890E+05	-1.300	0.000	1.000
1.000	26.04	0.000	0.000	SAL_158_160_L_0							
28 D	1.330	4.7644E-05	25.65	26.60	25.65	26.60	V-C	2.3890E+05	-1.350	0.000	1.000
1.000	26.60	0.000	0.000	SAL_158_160_L_0							
29 D	1.358	4.7644E-05	26.60	27.16	26.60	27.16	V-C	2.3890E+05	-1.400	0.000	1.000
1.000	27.16	0.000	0.000	SAL_158_160_L_0							
30 D	1.386	4.7644E-05	27.55	27.73	27.55	27.73	V-C	2.3890E+05	-1.450	0.000	1.000
1.000	27.73	0.000	0.000	SAL_158_160_L_0							
31 D	1.415	4.7644E-05	28.50	28.29	28.50	28.29	V-C	2.3890E+05	-1.500	0.000	1.000
1.000	28.29	0.000	0.000	SAL_158_160_L_0							
32 D	1.443	4.7644E-05	29.45	28.85	29.45	28.85	V-C	2.3890E+05	-1.550	0.000	1.000
1.000	28.85	0.000	0.000	SAL_158_160_L_0							
33 D	1.471	4.7644E-05	30.40	29.42	30.40	29.42	V-C	2.3890E+05	-1.600	0.000	1.000
1.000	29.42	0.000	0.000	SAL_158_160_L_0							
34 D	1.499	4.7644E-05	31.35	29.98	31.35	29.98	V-C	2.3890E+05	-1.650	0.000	1.000
1.000	29.98	0.000	0.000	SAL_158_160_L_0							
35 D	1.527	4.7644E-05	32.30	30.55	32.30	30.55	V-C	2.3890E+05	-1.700	0.000	1.000
1.000	30.55	0.000	0.000	SAL_158_160_L_0							
36 D	1.555	4.7644E-05	33.25	31.11	33.25	31.11	V-C	2.3890E+05	-1.750	0.000	1.000
1.000	31.11	0.000	0.000	SAL_158_160_L_0							
37 D	1.584	4.7644E-05	34.20	31.67	34.20	31.67	V-C	2.3890E+05	-1.800	0.000	1.000
1.000	31.67	0.000	0.000	SAL_158_160_L_0							
38 D	1.612	4.7644E-05	35.15	32.24	35.15	32.24	V-C	2.3890E+05	-1.850	0.000	1.000
1.000	32.24	0.000	0.000	SAL_158_160_L_0							
39 D	1.640	4.7644E-05	36.10	32.80	36.10	32.80	V-C	2.3890E+05	-1.900	0.000	1.000
1.000	32.80	0.000	0.000	SAL_158_160_L_0							
40 D	1.668	4.7644E-05	37.05	33.36	37.05	33.36	V-C	2.3890E+05	-1.950	0.000	1.000
1.000	33.36	0.000	0.000	SAL_158_160_L_0							
41 D	1.696	4.7644E-05	38.00	33.93	38.00	33.93	V-C	2.3890E+05	-2.000	0.000	1.000
1.000	33.93	0.000	0.000	SAL_158_160_L_0							
42 D	1.725	4.7644E-05	38.95	34.49	38.95	34.49	V-C	2.3890E+05	-2.050	0.000	1.000
1.000	34.49	0.000	0.000	SAL_158_160_L_0							
43 D	1.753	4.7644E-05	39.90	35.05	39.90	35.05	V-C	2.3890E+05	-2.100	0.000	1.000
1.000	35.05	0.000	0.000	SAL_158_160_L_0							
44 D	1.781	4.7644E-05	40.85	35.62	40.85	35.62	V-C	2.3890E+05	-2.150	0.000	1.000
1.000	35.62	0.000	0.000	SAL_158_160_L_0							
45 D	1.809	4.7644E-05	41.80	36.18	41.80	36.18	V-C	2.3890E+05	-2.200	0.000	1.000
1.000	36.18	0.000	0.000	SAL_158_160_L_0							
46 D	1.837	4.7644E-05	42.75	36.75	42.75	36.75	V-C	2.3890E+05	-2.250	0.000	1.000
1.000	36.75	0.000	0.000	SAL_158_160_L_0							
47 D	1.865	4.7644E-05	43.70	37.31	43.70	37.31	V-C	2.3890E+05	-2.300	0.000	1.000
1.000	37.31	0.000	0.000	SAL_158_160_L_0							
48 D	1.894	4.7644E-05	44.65	37.87	44.65	37.87	V-C	2.3890E+05	-2.350	0.000	1.000
1.000	37.87	0.000	0.000	SAL_158_160_L_0							
49 D	1.922	4.7644E-05	45.60	38.44	45.60	38.44	V-C	2.3890E+05	-2.400	0.000	1.000
1.000	38.44	0.000	0.000	SAL_158_160_L_0							
50 D	1.950	4.7644E-05	46.55	39.00	46.55	39.00	V-C	2.3890E+05	-2.450	0.000	1.000
1.000	39.00	0.000	0.000	SAL_158_160_L_0							
51 D	1.978	4.7644E-05	47.50	39.56	47.50	39.56	V-C	2.3890E+05	-2.500	0.000	1.000
1.000	39.56	0.000	0.000	SAL_158_160_L_0							
52 D	2.006	4.7644E-05	48.45	40.13	48.45	40.13	V-C	2.3890E+05	-2.550	0.000	1.000
1.000	40.13	0.000	0.000	SAL_158_160_L_0							
53 D	2.035	4.7644E-05	49.40	40.69	49.40	40.69	V-C	2.3890E+05	-2.600	0.000	1.000
1.000	40.69	0.000	0.000	SAL_158_160_L_0							
54 D	2.063	4.7644E-05	50.35	41.25	50.35	41.25	V-C	2.3890E+05	-2.650	0.000	1.000
1.000	41.25	0.000	0.000	SAL_158_160_L_0							
55 D	2.091	4.7644E-05	51.30	41.82	51.30	41.82	V-C	2.3890E+05	-2.700	0.000	1.000
1.000	41.82	0.000	0.000	SAL_158_160_L_0							
56 D	2.119	4.7644E-05	52.25	42.38	52.25	42.38	V-C	2.3890E+05	-2.750	0.000	1.000
1.000	42.38	0.000	0.000	SAL_158_160_L_0							
57 D	2.147	4.7644E-05	53.20	42.95	53.20	42.95	V-C	2.3890E+05	-2.800	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	311 di 401

1.000	42.95	0.000	0.000	5AL_158_160_L_0							
58 D	2.175	4.7644E-05	54.15	43.51	54.15	43.51	V-C	2.3890E+05	-2.850	0.000	1.000
1.000	43.51	0.000	0.000	5AL_158_160_L_0							
59 D	2.204	4.7644E-05	55.10	44.07	55.10	44.07	V-C	2.3890E+05	-2.900	0.000	1.000
1.000	44.07	0.000	0.000	5AL_158_160_L_0							
60 D	2.232	4.7644E-05	56.05	44.64	56.05	44.64	V-C	2.3890E+05	-2.950	0.000	1.000
1.000	44.64	0.000	0.000	5AL_158_160_L_0							
61 D	2.260	4.7644E-05	57.00	45.20	57.00	45.20	V-C	2.3890E+05	-3.000	0.000	1.000
1.000	45.20	0.000	0.000	5AL_158_160_L_0							
62 D	2.288	4.7644E-05	57.95	45.76	57.95	45.76	V-C	2.3890E+05	-3.050	0.000	1.000
1.000	45.76	0.000	0.000	5AL_158_160_L_0							
63 D	2.316	4.7644E-05	58.90	46.33	58.90	46.33	V-C	2.3890E+05	-3.100	0.000	1.000
1.000	46.33	0.000	0.000	5AL_158_160_L_0							
64 D	2.345	4.7644E-05	59.85	46.89	59.85	46.89	V-C	2.3890E+05	-3.150	0.000	1.000
1.000	46.89	0.000	0.000	5AL_158_160_L_0							
65 D	2.373	4.7644E-05	60.80	47.45	60.80	47.45	V-C	2.3890E+05	-3.200	0.000	1.000
1.000	47.45	0.000	0.000	5AL_158_160_L_0							
66 D	2.401	4.7644E-05	61.75	48.02	61.75	48.02	V-C	2.3890E+05	-3.250	0.000	1.000
1.000	48.02	0.000	0.000	5AL_158_160_L_0							
67 D	2.429	4.7644E-05	62.70	48.58	62.70	48.58	V-C	2.3890E+05	-3.300	0.000	1.000
1.000	48.58	0.000	0.000	5AL_158_160_L_0							
68 D	2.457	4.7644E-05	63.65	49.15	63.65	49.15	V-C	2.3890E+05	-3.350	0.000	1.000
1.000	49.15	0.000	0.000	5AL_158_160_L_0							
69 D	2.485	4.7644E-05	64.60	49.71	64.60	49.71	V-C	2.3890E+05	-3.400	0.000	1.000
1.000	49.71	0.000	0.000	5AL_158_160_L_0							
70 D	2.514	4.7644E-05	65.55	50.27	65.55	50.27	V-C	2.3890E+05	-3.450	0.000	1.000
1.000	50.27	0.000	0.000	5AL_158_160_L_0							
71 D	2.542	4.7644E-05	66.50	50.84	66.50	50.84	V-C	2.3890E+05	-3.500	0.000	1.000
1.000	50.84	0.000	0.000	5AL_158_160_L_0							
72 D	2.570	4.7644E-05	67.45	51.40	67.45	51.40	V-C	2.3890E+05	-3.550	0.000	1.000
1.000	51.40	0.000	0.000	5AL_158_160_L_0							
73 D	2.598	4.7644E-05	68.40	51.96	68.40	51.96	V-C	2.3890E+05	-3.600	0.000	1.000
1.000	51.96	0.000	0.000	5AL_158_160_L_0							
74 D	2.626	4.7644E-05	69.35	52.53	69.35	52.53	V-C	2.3890E+05	-3.650	0.000	1.000
1.000	52.53	0.000	0.000	5AL_158_160_L_0							
75 D	2.655	4.7644E-05	70.30	53.09	70.30	53.09	V-C	2.3890E+05	-3.700	0.000	1.000
1.000	53.09	0.000	0.000	5AL_158_160_L_0							
76 D	2.683	4.7644E-05	71.25	53.65	71.25	53.65	V-C	2.3890E+05	-3.750	0.000	1.000
1.000	53.65	0.000	0.000	5AL_158_160_L_0							
77 D	2.711	4.7644E-05	72.20	54.22	72.20	54.22	V-C	2.3890E+05	-3.800	0.000	1.000
1.000	54.22	0.000	0.000	5AL_158_160_L_0							
78 D	2.739	4.7644E-05	73.15	54.78	73.15	54.78	V-C	2.3890E+05	-3.850	0.000	1.000
1.000	54.78	0.000	0.000	5AL_158_160_L_0							
79 D	2.767	4.7644E-05	74.10	55.35	74.10	55.35	V-C	2.3890E+05	-3.900	0.000	1.000
1.000	55.35	0.000	0.000	5AL_158_160_L_0							
80 D	2.795	4.7644E-05	75.05	55.91	75.05	55.91	V-C	2.3890E+05	-3.950	0.000	1.000
1.000	55.91	0.000	0.000	5AL_158_160_L_0							
81 D	2.824	4.7644E-05	76.00	56.47	76.00	56.47	V-C	2.3890E+05	-4.000	0.000	1.000
1.000	56.47	0.000	0.000	5AL_158_160_L_0							
82 D	2.862	4.7644E-05	76.45	56.74	76.45	56.74	V-C	2.3890E+05	-4.050	0.5000	1.000
1.000	57.24	0.000	0.000	5AL_158_160_L_0							
83 D	2.900	4.7644E-05	76.90	57.01	76.90	57.01	V-C	2.3890E+05	-4.100	1.000	1.000
1.000	58.01	0.000	0.000	5AL_158_160_L_0							
84 D	2.939	4.7644E-05	77.35	57.27	77.35	57.27	V-C	2.3890E+05	-4.150	1.500	1.000
1.000	58.77	0.000	0.000	5AL_158_160_L_0							
85 D	2.977	4.7644E-05	77.80	57.54	77.80	57.54	V-C	2.3890E+05	-4.200	2.000	1.000
1.000	59.54	0.000	0.000	5AL_158_160_L_0							
86 D	3.015	4.7644E-05	78.25	57.81	78.25	57.81	V-C	2.3890E+05	-4.250	2.500	1.000
1.000	60.31	0.000	0.000	5AL_158_160_L_0							
87 D	3.054	4.7644E-05	78.70	58.07	78.70	58.07	V-C	2.3890E+05	-4.300	3.000	1.000
1.000	61.07	0.000	0.000	5AL_158_160_L_0							
88 D	3.092	4.7644E-05	79.15	58.34	79.15	58.34	V-C	2.3890E+05	-4.350	3.500	1.000
1.000	61.84	0.000	0.000	5AL_158_160_L_0							
89 D	3.130	4.7644E-05	79.60	58.61	79.60	58.61	V-C	2.3890E+05	-4.400	4.000	1.000
1.000	62.61	0.000	0.000	5AL_158_160_L_0							
90 D	3.169	4.7644E-05	80.05	58.88	80.05	58.88	V-C	2.3890E+05	-4.450	4.500	1.000
1.000	63.38	0.000	0.000	5AL_158_160_L_0							
91 D	3.207	4.7644E-05	80.50	59.14	80.50	59.14	V-C	2.3890E+05	-4.500	5.000	1.000
1.000	64.14	0.000	0.000	5AL_158_160_L_0							
92 D	3.245	4.7644E-05	80.95	59.41	80.95	59.41	V-C	2.3890E+05	-4.550	5.500	1.000
1.000	64.91	0.000	0.000	5AL_158_160_L_0							
93 D	3.284	4.7644E-05	81.40	59.68	81.40	59.68	V-C	2.3890E+05	-4.600	6.000	1.000
1.000	65.68	0.000	0.000	5AL_158_160_L_0							
94 D	3.322	4.7644E-05	81.85	59.94	81.85	59.94	V-C	2.3890E+05	-4.650	6.500	1.000
1.000	66.44	0.000	0.000	5AL_158_160_L_0							
95 D	3.361	4.7644E-05	82.30	60.21	82.30	60.21	V-C	2.3890E+05	-4.700	7.000	1.000
1.000	67.21	0.000	0.000	5AL_158_160_L_0							
96 D	3.399	4.7644E-05	82.75	60.48	82.75	60.48	V-C	2.3890E+05	-4.750	7.500	1.000
1.000	67.98	0.000	0.000	5AL_158_160_L_0							
97 D	3.437	4.7644E-05	83.20	60.74	83.20	60.74	V-C	2.3890E+05	-4.800	8.000	1.000
1.000	68.74	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	312 di 401

98 D	3.476	4.7644E-05	83.65	61.01	83.65	61.01	V-C	2.3890E+05	-4.850	8.500	1.000
1.000	69.51	0.000	0.000	5AL_158_160_L_0							
99 D	3.514	4.7644E-05	84.10	61.28	84.10	61.28	V-C	2.3890E+05	-4.900	9.000	1.000
1.000	70.28	0.000	0.000	5AL_158_160_L_0							
100 D	3.552	4.7644E-05	84.55	61.55	84.55	61.55	V-C	2.3890E+05	-4.950	9.500	1.000
1.000	71.05	0.000	0.000	5AL_158_160_L_0							
101 D	3.591	4.7644E-05	85.00	61.81	85.00	61.81	V-C	2.3890E+05	-5.000	10.000	1.000
1.000	71.81	0.000	0.000	5AL_158_160_L_0							
102 D	3.629	4.7644E-05	85.45	62.08	85.45	62.08	V-C	2.3890E+05	-5.050	10.500	1.000
1.000	72.58	0.000	0.000	5AL_158_160_L_0							
103 D	3.667	4.7644E-05	85.90	62.35	85.90	62.35	V-C	2.3890E+05	-5.100	11.000	1.000
1.000	73.35	0.000	0.000	5AL_158_160_L_0							
104 D	3.706	4.7644E-05	86.35	62.61	86.35	62.61	V-C	2.3890E+05	-5.150	11.500	1.000
1.000	74.11	0.000	0.000	5AL_158_160_L_0							
105 D	3.744	4.7644E-05	86.80	62.88	86.80	62.88	V-C	2.3890E+05	-5.200	12.000	1.000
1.000	74.88	0.000	0.000	5AL_158_160_L_0							
106 D	3.782	4.7644E-05	87.25	63.15	87.25	63.15	V-C	2.3890E+05	-5.250	12.500	1.000
1.000	75.65	0.000	0.000	5AL_158_160_L_0							
107 D	3.821	4.7644E-05	87.70	63.41	87.70	63.41	V-C	2.3890E+05	-5.300	13.000	1.000
1.000	76.41	0.000	0.000	5AL_158_160_L_0							
108 D	3.859	4.7644E-05	88.15	63.68	88.15	63.68	V-C	2.3890E+05	-5.350	13.500	1.000
1.000	77.18	0.000	0.000	5AL_158_160_L_0							
109 D	3.897	4.7644E-05	88.60	63.95	88.60	63.95	V-C	2.3890E+05	-5.400	14.000	1.000
1.000	77.95	0.000	0.000	5AL_158_160_L_0							
110 D	3.936	4.7644E-05	89.05	64.22	89.05	64.22	V-C	2.3890E+05	-5.450	14.500	1.000
1.000	78.72	0.000	0.000	5AL_158_160_L_0							
111 D	3.974	4.7644E-05	89.50	64.48	89.50	64.48	V-C	2.3890E+05	-5.500	15.000	1.000
1.000	79.48	0.000	0.000	5AL_158_160_L_0							
112 D	4.012	4.7644E-05	89.95	64.75	89.95	64.75	V-C	2.3890E+05	-5.550	15.500	1.000
1.000	80.25	0.000	0.000	5AL_158_160_L_0							
113 D	4.051	4.7644E-05	90.40	65.02	90.40	65.02	V-C	2.3890E+05	-5.600	16.000	1.000
1.000	81.02	0.000	0.000	5AL_158_160_L_0							
114 D	4.089	4.7644E-05	90.85	65.28	90.85	65.28	V-C	2.3890E+05	-5.650	16.500	1.000
1.000	81.78	0.000	0.000	5AL_158_160_L_0							
115 D	4.128	4.7644E-05	91.30	65.55	91.30	65.55	V-C	2.3890E+05	-5.700	17.000	1.000
1.000	82.55	0.000	0.000	5AL_158_160_L_0							
116 D	4.166	4.7644E-05	91.75	65.82	91.75	65.82	V-C	2.3890E+05	-5.750	17.500	1.000
1.000	83.32	0.000	0.000	5AL_158_160_L_0							
117 D	4.204	4.7644E-05	92.20	66.08	92.20	66.08	V-C	2.3890E+05	-5.800	18.000	1.000
1.000	84.08	0.000	0.000	5AL_158_160_L_0							
118 D	4.243	4.7644E-05	92.65	66.35	92.65	66.35	V-C	2.3890E+05	-5.850	18.500	1.000
1.000	84.85	0.000	0.000	5AL_158_160_L_0							
119 D	4.281	4.7644E-05	93.10	66.62	93.10	66.62	V-C	2.3890E+05	-5.900	19.000	1.000
1.000	85.62	0.000	0.000	5AL_158_160_L_0							
120 D	4.319	4.7644E-05	93.55	66.89	93.55	66.89	V-C	2.3890E+05	-5.950	19.500	1.000
1.000	86.39	0.000	0.000	5AL_158_160_L_0							
121 D	4.358	4.7644E-05	94.00	67.15	94.00	67.15	V-C	2.3890E+05	-6.000	20.000	1.000
1.000	87.15	0.000	0.000	5AL_158_160_L_0							
122 D	4.396	4.7644E-05	94.45	67.42	94.45	67.42	V-C	2.3890E+05	-6.050	20.500	1.000
1.000	87.92	0.000	0.000	5AL_158_160_L_0							
123 D	4.434	4.7644E-05	94.90	67.69	94.90	67.69	V-C	2.3890E+05	-6.100	21.000	1.000
1.000	88.69	0.000	0.000	5AL_158_160_L_0							
124 D	4.473	4.7644E-05	95.35	67.95	95.35	67.95	V-C	2.3890E+05	-6.150	21.500	1.000
1.000	89.45	0.000	0.000	5AL_158_160_L_0							
125 D	4.511	4.7644E-05	95.80	68.22	95.80	68.22	V-C	2.3890E+05	-6.200	22.000	1.000
1.000	90.22	0.000	0.000	5AL_158_160_L_0							
126 D	4.549	4.7644E-05	96.25	68.49	96.25	68.49	V-C	2.3890E+05	-6.250	22.500	1.000
1.000	90.99	0.000	0.000	5AL_158_160_L_0							
127 D	4.588	4.7644E-05	96.70	68.75	96.70	68.75	V-C	2.3890E+05	-6.300	23.000	1.000
1.000	91.75	0.000	0.000	5AL_158_160_L_0							
128 D	4.626	4.7644E-05	97.15	69.02	97.15	69.02	V-C	2.3890E+05	-6.350	23.500	1.000
1.000	92.52	0.000	0.000	5AL_158_160_L_0							
129 D	4.664	4.7644E-05	97.60	69.29	97.60	69.29	V-C	2.3890E+05	-6.400	24.000	1.000
1.000	93.29	0.000	0.000	5AL_158_160_L_0							
130 D	4.703	4.7644E-05	98.05	69.56	98.05	69.56	V-C	2.3890E+05	-6.450	24.500	1.000
1.000	94.06	0.000	0.000	5AL_158_160_L_0							
131 D	4.741	4.7644E-05	98.50	69.82	98.50	69.82	V-C	2.3890E+05	-6.500	25.000	1.000
1.000	94.82	0.000	0.000	5AL_158_160_L_0							
132 D	4.779	4.7644E-05	98.95	70.09	98.95	70.09	V-C	2.3890E+05	-6.550	25.500	1.000
1.000	95.59	0.000	0.000	5AL_158_160_L_0							
133 D	4.818	4.7644E-05	99.40	70.36	99.40	70.36	V-C	2.3890E+05	-6.600	26.000	1.000
1.000	96.36	0.000	0.000	5AL_158_160_L_0							
134 D	4.856	4.7644E-05	99.85	70.62	99.85	70.62	V-C	2.3890E+05	-6.650	26.500	1.000
1.000	97.12	0.000	0.000	5AL_158_160_L_0							
135 D	4.895	4.7644E-05	100.3	70.89	100.3	70.89	V-C	2.3890E+05	-6.700	27.000	1.000
1.000	97.89	0.000	0.000	5AL_158_160_L_0							
136 D	4.933	4.7644E-05	100.8	71.16	100.8	71.16	V-C	2.3890E+05	-6.750	27.500	1.000
1.000	98.66	0.000	0.000	5AL_158_160_L_0							
137 D	4.971	4.7644E-05	101.2	71.42	101.2	71.42	V-C	2.3890E+05	-6.800	28.000	1.000
1.000	99.42	0.000	0.000	5AL_158_160_L_0							
138 D	5.010	4.7644E-05	101.7	71.69	101.7	71.69	V-C	2.3890E+05	-6.850	28.500	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	313 di 401

1.000	100.2	0.000	0.000	SAL_158_160_L_0							
139 D	5.048	4.7644E-05	102.1	71.96	102.1	71.96	V-C	2.3890E+05	-6.900	29.00	1.000
1.000	101.0	0.000	0.000	SAL_158_160_L_0							
140 D	5.086	4.7644E-05	102.6	72.23	102.6	72.23	V-C	2.3890E+05	-6.950	29.50	1.000
1.000	101.7	0.000	0.000	SAL_158_160_L_0							
141 D	5.125	4.7644E-05	103.0	72.49	103.0	72.49	V-C	2.3890E+05	-7.000	30.00	1.000
1.000	102.5	0.000	0.000	SAL_158_160_L_0							
142 D	5.163	4.7644E-05	103.5	72.76	103.5	72.76	V-C	2.3890E+05	-7.050	30.50	1.000
1.000	103.3	0.000	0.000	SAL_158_160_L_0							
143 D	5.201	4.7644E-05	103.9	73.03	103.9	73.03	V-C	2.3890E+05	-7.100	31.00	1.000
1.000	104.0	0.000	0.000	SAL_158_160_L_0							
144 D	5.240	4.7644E-05	104.4	73.29	104.4	73.29	V-C	2.3890E+05	-7.150	31.50	1.000
1.000	104.8	0.000	0.000	SAL_158_160_L_0							
145 D	5.278	4.7644E-05	104.8	73.56	104.8	73.56	V-C	2.3890E+05	-7.200	32.00	1.000
1.000	105.6	0.000	0.000	SAL_158_160_L_0							
146 D	5.316	4.7644E-05	105.3	73.83	105.3	73.83	V-C	2.3890E+05	-7.250	32.50	1.000
1.000	106.3	0.000	0.000	SAL_158_160_L_0							
147 D	5.355	4.7644E-05	105.7	74.09	105.7	74.09	V-C	2.3890E+05	-7.300	33.00	1.000
1.000	107.1	0.000	0.000	SAL_158_160_L_0							
148 D	5.393	4.7644E-05	106.2	74.36	106.2	74.36	V-C	2.3890E+05	-7.350	33.50	1.000
1.000	107.9	0.000	0.000	SAL_158_160_L_0							
149 D	5.431	4.7644E-05	106.6	74.63	106.6	74.63	V-C	2.3890E+05	-7.400	34.00	1.000
1.000	108.6	0.000	0.000	SAL_158_160_L_0							
150 D	5.470	4.7644E-05	107.1	74.90	107.1	74.90	V-C	2.3890E+05	-7.450	34.50	1.000
1.000	109.4	0.000	0.000	SAL_158_160_L_0							
151 D	5.508	4.7644E-05	107.5	75.16	107.5	75.16	V-C	2.3890E+05	-7.500	35.00	1.000
1.000	110.2	0.000	0.000	SAL_158_160_L_0							
152 D	5.546	4.7644E-05	108.0	75.43	108.0	75.43	V-C	2.3890E+05	-7.550	35.50	1.000
1.000	110.9	0.000	0.000	SAL_158_160_L_0							
153 D	5.585	4.7644E-05	108.4	75.70	108.4	75.70	V-C	2.3890E+05	-7.600	36.00	1.000
1.000	111.7	0.000	0.000	SAL_158_160_L_0							
154 D	5.623	4.7644E-05	108.9	75.96	108.9	75.96	V-C	2.3890E+05	-7.650	36.50	1.000
1.000	112.5	0.000	0.000	SAL_158_160_L_0							
155 D	5.662	4.7644E-05	109.3	76.23	109.3	76.23	V-C	2.3890E+05	-7.700	37.00	1.000
1.000	113.2	0.000	0.000	SAL_158_160_L_0							
156 D	5.700	4.7644E-05	109.8	76.50	109.8	76.50	V-C	2.3890E+05	-7.750	37.50	1.000
1.000	114.0	0.000	0.000	SAL_158_160_L_0							
157 D	5.738	4.7644E-05	110.2	76.76	110.2	76.76	V-C	2.3890E+05	-7.800	38.00	1.000
1.000	114.8	0.000	0.000	SAL_158_160_L_0							
158 D	5.777	4.7644E-05	110.7	77.03	110.7	77.03	V-C	2.3890E+05	-7.850	38.50	1.000
1.000	115.5	0.000	0.000	SAL_158_160_L_0							
159 D	5.815	4.7644E-05	111.1	77.30	111.1	77.30	V-C	2.3890E+05	-7.900	39.00	1.000
1.000	116.3	0.000	0.000	SAL_158_160_L_0							
160 D	5.853	4.7644E-05	111.6	77.56	111.6	77.56	V-C	2.3890E+05	-7.950	39.50	1.000
1.000	117.1	0.000	0.000	SAL_158_160_L_0							
161 D	5.892	4.7644E-05	112.0	77.83	112.0	77.83	V-C	2.3890E+05	-8.000	40.00	1.000
1.000	117.8	0.000	0.000	SAL_158_160_L_0							
162 D	5.930	4.7644E-05	112.5	78.10	112.5	78.10	V-C	2.3890E+05	-8.050	40.50	1.000
1.000	118.6	0.000	0.000	SAL_158_160_L_0							
163 D	5.968	4.7644E-05	112.9	78.37	112.9	78.37	V-C	2.3890E+05	-8.100	41.00	1.000
1.000	119.4	0.000	0.000	SAL_158_160_L_0							
164 D	6.007	4.7644E-05	113.4	78.63	113.4	78.63	V-C	2.3890E+05	-8.150	41.50	1.000
1.000	120.1	0.000	0.000	SAL_158_160_L_0							
165 D	6.045	4.7644E-05	113.8	78.90	113.8	78.90	V-C	2.3890E+05	-8.200	42.00	1.000
1.000	120.9	0.000	0.000	SAL_158_160_L_0							
166 D	6.083	4.7644E-05	114.3	79.17	114.3	79.17	V-C	2.3890E+05	-8.250	42.50	1.000
1.000	121.7	0.000	0.000	SAL_158_160_L_0							
167 D	6.122	4.7644E-05	114.7	79.43	114.7	79.43	V-C	2.3890E+05	-8.300	43.00	1.000
1.000	122.4	0.000	0.000	SAL_158_160_L_0							
168 D	6.160	4.7644E-05	115.2	79.70	115.2	79.70	V-C	2.3890E+05	-8.350	43.50	1.000
1.000	123.2	0.000	0.000	SAL_158_160_L_0							
169 D	6.198	4.7644E-05	115.6	79.97	115.6	79.97	V-C	2.3890E+05	-8.400	44.00	1.000
1.000	124.0	0.000	0.000	SAL_158_160_L_0							
170 D	6.237	4.7644E-05	116.1	80.23	116.1	80.23	V-C	2.3890E+05	-8.450	44.50	1.000
1.000	124.7	0.000	0.000	SAL_158_160_L_0							
171 D	6.275	4.7644E-05	116.5	80.50	116.5	80.50	V-C	2.3890E+05	-8.500	45.00	1.000
1.000	125.5	0.000	0.000	SAL_158_160_L_0							
172 D	6.313	4.7644E-05	117.0	80.77	117.0	80.77	V-C	2.3890E+05	-8.550	45.50	1.000
1.000	126.3	0.000	0.000	SAL_158_160_L_0							
173 D	6.352	4.7644E-05	117.4	81.04	117.4	81.04	V-C	2.3890E+05	-8.600	46.00	1.000
1.000	127.0	0.000	0.000	SAL_158_160_L_0							
174 D	6.390	4.7644E-05	117.9	81.30	117.9	81.30	V-C	2.3890E+05	-8.650	46.50	1.000
1.000	127.8	0.000	0.000	SAL_158_160_L_0							
175 D	6.428	4.7644E-05	118.3	81.57	118.3	81.57	V-C	2.3890E+05	-8.700	47.00	1.000
1.000	128.6	0.000	0.000	SAL_158_160_L_0							
176 D	6.467	4.7644E-05	118.8	81.84	118.8	81.84	V-C	2.3890E+05	-8.750	47.50	1.000
1.000	129.3	0.000	0.000	SAL_158_160_L_0							
177 D	6.505	4.7644E-05	119.2	82.10	119.2	82.10	V-C	2.3890E+05	-8.800	48.00	1.000
1.000	130.1	0.000	0.000	SAL_158_160_L_0							
178 D	6.544	4.7644E-05	119.7	82.37	119.7	82.37	V-C	2.3890E+05	-8.850	48.50	1.000
1.000	130.9	0.000	0.000	SAL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	314 di 401

179 D	6.582	4.7644E-05	120.1	82.64	120.1	82.64	V-C	2.3890E+05	-8.900	49.00	1.000
1.000	131.6	0.000	0.000	SAL_158_160_L_0							
180 D	6.620	4.7644E-05	120.6	82.90	120.6	82.90	V-C	2.3890E+05	-8.950	49.50	1.000
1.000	132.4	0.000	0.000	SAL_158_160_L_0							
181 D	6.659	4.7644E-05	121.0	83.17	121.0	83.17	V-C	2.3890E+05	-9.000	50.00	1.000
1.000	133.2	0.000	0.000	SAL_158_160_L_0							
182 D	6.697	4.7644E-05	121.5	83.44	121.5	83.44	V-C	2.3890E+05	-9.050	50.50	1.000
1.000	133.9	0.000	0.000	SAL_158_160_L_0							
183 D	6.735	4.7644E-05	121.9	83.71	121.9	83.71	V-C	2.3890E+05	-9.100	51.00	1.000
1.000	134.7	0.000	0.000	SAL_158_160_L_0							
184 D	6.774	4.7644E-05	122.4	83.97	122.4	83.97	V-C	2.3890E+05	-9.150	51.50	1.000
1.000	135.5	0.000	0.000	SAL_158_160_L_0							
185 D	6.812	4.7644E-05	122.8	84.24	122.8	84.24	V-C	2.3890E+05	-9.200	52.00	1.000
1.000	136.2	0.000	0.000	SAL_158_160_L_0							
186 D	6.850	4.7644E-05	123.3	84.51	123.3	84.51	V-C	2.3890E+05	-9.250	52.50	1.000
1.000	137.0	0.000	0.000	SAL_158_160_L_0							
187 D	6.889	4.7644E-05	123.7	84.77	123.7	84.77	V-C	2.3890E+05	-9.300	53.00	1.000
1.000	137.8	0.000	0.000	SAL_158_160_L_0							
188 D	6.927	4.7644E-05	124.2	85.04	124.2	85.04	V-C	2.3890E+05	-9.350	53.50	1.000
1.000	138.5	0.000	0.000	SAL_158_160_L_0							
189 D	6.965	4.7644E-05	124.6	85.31	124.6	85.31	V-C	2.3890E+05	-9.400	54.00	1.000
1.000	139.3	0.000	0.000	SAL_158_160_L_0							
190 D	7.004	4.7644E-05	125.1	85.57	125.1	85.57	V-C	2.3890E+05	-9.450	54.50	1.000
1.000	140.1	0.000	0.000	SAL_158_160_L_0							
191 D	7.042	4.7644E-05	125.5	85.84	125.5	85.84	V-C	2.3890E+05	-9.500	55.00	1.000
1.000	140.8	0.000	0.000	SAL_158_160_L_0							
192 D	7.080	4.7644E-05	126.0	86.11	126.0	86.11	V-C	2.3890E+05	-9.550	55.50	1.000
1.000	141.6	0.000	0.000	SAL_158_160_L_0							
193 D	7.119	4.7644E-05	126.4	86.38	126.4	86.38	V-C	2.3890E+05	-9.600	56.00	1.000
1.000	142.4	0.000	0.000	SAL_158_160_L_0							
194 D	7.157	4.7644E-05	126.9	86.64	126.9	86.64	V-C	2.3890E+05	-9.650	56.50	1.000
1.000	143.1	0.000	0.000	SAL_158_160_L_0							
195 D	7.195	4.7644E-05	127.3	86.91	127.3	86.91	V-C	2.3890E+05	-9.700	57.00	1.000
1.000	143.9	0.000	0.000	SAL_158_160_L_0							
196 D	7.234	4.7644E-05	127.8	87.18	127.8	87.18	V-C	2.3890E+05	-9.750	57.50	1.000
1.000	144.7	0.000	0.000	SAL_158_160_L_0							
197 D	7.272	4.7644E-05	128.2	87.44	128.2	87.44	V-C	2.3890E+05	-9.800	58.00	1.000
1.000	145.4	0.000	0.000	SAL_158_160_L_0							
198 D	7.311	4.7644E-05	128.7	87.71	128.7	87.71	V-C	2.3890E+05	-9.850	58.50	1.000
1.000	146.2	0.000	0.000	SAL_158_160_L_0							
199 D	7.349	4.7644E-05	129.1	87.98	129.1	87.98	V-C	2.3890E+05	-9.900	59.00	1.000
1.000	147.0	0.000	0.000	SAL_158_160_L_0							
200 D	7.386	4.7644E-05	129.6	88.24	129.6	88.24	V-C	2.3890E+05	-9.950	59.50	1.000
1.000	147.7	0.000	0.000	SAL_158_160_L_0							
201 D	3.711	4.7644E-05	130.0	88.51	130.0	88.51	V-C	2.3890E+05	-10.00	60.00	1.000
1.000	148.5	0.000	0.000	SAL_158_160_L_0							

PARATIEPLUS (TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICASTR_986
Exe Time :21 June 2016 11:57:46

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1-1.17673E-11	1.17673E-11	4.64102E-14	-8.16674E-13	
2-5.39395E-11	5.39395E-11	-7.17094E-13	-2.34368E-12	
3-2.56270E-11	2.56270E-11	1.20997E-12	-3.94652E-12	
4-2.32230E-11	2.32230E-11	3.43283E-12	-5.86727E-12	
5-1.74654E-11	1.74654E-11	5.95411E-12	-6.28168E-12	
6-4.10727E-11	4.10727E-11	6.10635E-12	-6.88669E-12	
7 2.43499E-12	-2.43499E-12	7.61971E-12	-7.49796E-12	
8 1.67044E-11	-1.67044E-11	9.43399E-12	-9.32636E-12	
9 2.34462E-11	-2.34462E-11	9.84951E-12	-7.58581E-12	
10 8.70478E-12	-8.70478E-12	9.42614E-12	-8.43257E-12	
11-3.36974E-11	3.36974E-11	8.53332E-12	-1.02182E-11	
12 7.23598E-11	-7.23598E-11	1.04828E-11	-7.22865E-12	
13-2.60465E-12	2.60465E-12	7.53571E-12	-5.84695E-12	



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	315 di 401

RELAZIONE DI CALCOLO

14-6.05100E-11 6.05100E-11 6.99505E-12-9.65676E-12
 15-9.54049E-11 9.54049E-11 8.23246E-12-1.35484E-11
 16-9.51599E-11 9.51599E-11 1.31478E-11-1.73601E-11
 17-6.53245E-11 6.53245E-11 1.71618E-11-2.11556E-11
 18-8.24663E-11 8.24663E-11 1.96690E-11-2.34171E-11
 19-6.41423E-11 6.41423E-11 2.19715E-11-2.51786E-11
 20-7.73274E-11 7.73274E-11 2.52006E-11-2.87248E-11
 21-7.76314E-11 7.76314E-11 2.78100E-11-3.16915E-11
 22-4.89897E-11 4.89897E-11 2.98032E-11-3.22526E-11
 23-4.95970E-11 4.95970E-11 3.16727E-11-3.30611E-11
 24-7.66724E-11 7.66724E-11 3.32829E-11-3.62071E-11
 25-1.20416E-11 1.20416E-11 3.65429E-11-3.60536E-11
 26 4.23821E-11-4.23821E-11 3.72074E-11-3.83625E-11
 27 3.97377E-11-3.97377E-11 3.93461E-11-3.49946E-11
 28 1.71024E-11-1.71024E-11 3.51490E-11-3.42939E-11
 29 6.87061E-11-6.87061E-11 3.32806E-11-3.07548E-11
 30 3.09249E-11-3.09249E-11 3.16808E-11-2.75879E-11
 31 7.90315E-11-7.90315E-11 2.82382E-11-2.44686E-11
 32 5.24426E-11-5.24426E-11 2.44603E-11-2.20200E-11
 33-4.42851E-11 4.42851E-11 2.27678E-11-2.35860E-11
 34-6.83580E-11 6.83580E-11 2.51148E-11-2.61680E-11
 35-1.07819E-11 1.07819E-11 2.66807E-11-2.75836E-11
 36 1.77479E-11-1.77479E-11 2.86720E-11-2.72389E-11
 37-1.99306E-11 1.99306E-11 2.73165E-11-2.81311E-11
 38-5.18149E-11 5.18149E-11 2.73308E-11-2.99215E-11
 39-1.68290E-11 1.68290E-11 2.91871E-11-2.98467E-11
 40-3.92438E-11 3.92438E-11 2.87529E-11-3.07151E-11
 41 3.14048E-11-3.14048E-11 2.98091E-11-2.86027E-11
 42-2.85466E-11 2.85466E-11 2.92344E-11-3.06617E-11
 43-1.10036E-11 1.10036E-11 3.02544E-11-3.04407E-11
 44 6.19511E-11-6.19511E-11 3.17734E-11-2.83121E-11
 45 1.75113E-11-1.75113E-11 2.88500E-11-2.87020E-11
 46 1.27843E-11-1.27843E-11 2.96807E-11-2.79501E-11
 47-7.23664E-12 7.23664E-12 2.94077E-11-2.75867E-11
 48 4.82056E-11-4.82056E-11 2.99679E-11-2.64662E-11
 49 9.95856E-11-9.95856E-11 2.71862E-11-2.29346E-11
 50-3.67551E-12 3.67551E-12 2.27974E-11-2.17079E-11
 51 5.08660E-11-5.08660E-11 2.15842E-11-1.86771E-11
 52 7.99095E-11-7.99095E-11 1.93398E-11-1.58900E-11
 53 6.36787E-11-6.36787E-11 1.72503E-11-1.27931E-11
 54 1.80297E-11-1.80297E-11 1.27909E-11-1.07980E-11
 55 2.24924E-12-2.24924E-12 1.07089E-11-1.13240E-11
 56-3.97818E-11 3.97818E-11 1.12817E-11-1.29070E-11
 57-4.45480E-11 4.45480E-11 1.21758E-11-1.65756E-11
 58-1.19887E-10 1.19887E-10 1.55854E-11-2.06703E-11
 59-3.39509E-11 3.39509E-11 1.97462E-11-2.23532E-11
 60-4.38344E-11 4.38344E-11 2.28557E-11-2.61388E-11
 61-6.99810E-13 6.99810E-13 2.44841E-11-2.56104E-11
 62-7.69366E-11 7.69366E-11 2.50324E-11-2.72422E-11
 63-8.58014E-11 8.58014E-11 2.79770E-11-3.13575E-11
 64-7.85108E-11 7.85108E-11 3.20396E-11-3.59652E-11
 65-7.12232E-11 7.12232E-11 3.52534E-11-3.86326E-11
 66-2.35608E-11 2.35608E-11 3.79880E-11-3.95298E-11
 67-5.51246E-11 5.51246E-11 3.92809E-11-4.14915E-11
 68-7.09044E-12 7.09044E-12 4.20824E-11-4.13455E-11
 69-7.31679E-12 7.31679E-12 4.10478E-11-4.15956E-11
 70 6.65085E-11-6.65085E-11 3.96104E-11-3.81040E-11
 71 9.13993E-11-9.13993E-11 3.70542E-11-3.13929E-11
 72 2.78148E-11-2.78148E-11 2.99918E-11-3.00563E-11
 73 1.64141E-11-1.64141E-11 2.98625E-11-2.75866E-11
 74 9.72576E-11-9.72576E-11 2.83601E-11-2.33153E-11
 75 1.10744E-10-1.10744E-10 2.40980E-11-1.81970E-11
 76 1.54855E-10-1.54855E-10 1.75573E-11-1.12697E-11
 77 9.19685E-11-9.19685E-11 1.09309E-11-7.24199E-12
 78 3.44060E-11-3.44060E-11 7.02742E-12-5.04455E-12
 79 1.09835E-10-1.09835E-10 6.01425E-12 2.05077E-13
 80 1.65739E-10-1.65739E-10 3.38356E-14 7.34363E-12
 81 1.65304E-10-1.65304E-10-7.55254E-12 1.67272E-11
 82 1.38930E-10-1.38930E-10-1.64457E-11 2.34973E-11
 83 1.32524E-10-1.32524E-10-2.28327E-11 2.89132E-11
 84 6.86370E-11-6.86370E-11-2.86875E-11 3.17555E-11
 85-4.72587E-11 4.72587E-11-3.11648E-11 3.04389E-11
 86-5.97432E-12 5.97432E-12-3.08405E-11 3.01780E-11
 87 1.48264E-11-1.48264E-11-3.03725E-11 3.02044E-11
 88 7.68916E-11-7.68916E-11-2.91747E-11 3.35096E-11
 89 1.11498E-10-1.11498E-10-3.24600E-11 3.69435E-11
 90 7.40125E-11-7.40125E-11-3.64195E-11 3.99383E-11
 91 2.69999E-11-2.69999E-11-3.94465E-11 4.02508E-11
 92-4.27135E-12 4.27135E-12-3.94826E-11 4.10880E-11
 93-1.50368E-11 1.50368E-11-3.88846E-11 3.95556E-11
 94 2.31634E-11-2.31634E-11-3.87222E-11 4.16994E-11

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	316 di 401

95 1.91175E-12-1.91175E-12-4.16230E-11 4.04453E-11
 96 2.86486E-11-2.86486E-11-4.22688E-11 4.27917E-11
 97-6.93055E-11 6.93055E-11-4.23249E-11 3.99510E-11
 98-2.95869E-11 2.95869E-11-4.00284E-11 3.72679E-11
 99-1.24949E-11 1.24949E-11-3.81645E-11 3.82673E-11
 100-2.02215E-12 2.02215E-12-3.82325E-11 3.81314E-11
 101-6.83395E-11 6.83395E-11-3.87921E-11 3.42837E-11
 102-9.99644E-11 9.99644E-11-3.48323E-11 2.85608E-11
 103-3.27253E-11 3.27253E-11-2.77654E-11 2.54142E-11
 104 2.34476E-11-2.34476E-11-2.51357E-11 2.43072E-11
 105 4.33507E-11-4.33507E-11-2.56528E-11 2.60014E-11
 106 1.01209E-11-1.01209E-11-2.55397E-11 2.80466E-11
 107-9.09039E-11 9.09039E-11-2.66778E-11 2.39515E-11
 108-8.39795E-11 8.39795E-11-2.35307E-11 1.84222E-11
 109-1.39298E-10 1.39298E-10-1.83796E-11 1.23536E-11
 110-1.08520E-10 1.08520E-10-1.13280E-11 6.44776E-12
 111-1.46241E-10 1.46241E-10-6.07532E-12 5.82282E-13
 112-1.36442E-10 1.36442E-10 3.00273E-14-7.21590E-12
 113-1.43587E-10 1.43587E-10 6.82310E-12-1.36386E-11
 114-1.49965E-10 1.49965E-10 1.41231E-11-2.08666E-11
 115-2.78572E-11 2.78572E-11 2.14849E-11-2.16044E-11
 116-5.32371E-11 5.32371E-11 2.29415E-11-2.68766E-11
 117-8.20656E-11 8.20656E-11 2.61596E-11-3.13543E-11
 118-5.63377E-11 5.63377E-11 3.24092E-11-3.43166E-11
 119-2.91734E-11 2.91734E-11 3.43204E-11-3.59511E-11
 120 4.21365E-11-4.21365E-11 3.61119E-11-3.23680E-11
 121 4.70937E-11-4.70937E-11 3.21928E-11-3.11114E-11
 122 4.71224E-12-4.71224E-12 3.11833E-11-3.31304E-11
 123 3.37287E-11-3.37287E-11 3.31827E-11-3.00411E-11
 124 1.04280E-10-1.04280E-10 2.99293E-11-2.56339E-11
 125 1.88255E-10-1.88255E-10 2.46623E-11-1.52495E-11
 126 1.23159E-10-1.23159E-10 1.61195E-11-9.59774E-12
 127 2.44954E-11-2.44954E-11 8.53308E-12-7.49020E-12
 128 3.85290E-11-3.85290E-11 7.43304E-12-6.96178E-12
 129-7.42497E-13 7.42497E-13 5.68713E-12-4.99665E-12
 130 8.20238E-11-8.20238E-11 4.81787E-12-1.27819E-12
 131 1.16162E-10-1.16162E-10 1.08718E-12 4.90284E-12
 132 4.53629E-11-4.53629E-11-6.39864E-12 8.12109E-12
 133 6.11706E-11-6.11706E-11-8.62113E-12 1.00426E-11
 134 3.07791E-11-3.07791E-11-1.00978E-11 1.07272E-11
 135 3.03927E-11-3.03927E-11-1.09567E-11 1.17378E-11
 136 5.39526E-11-5.39526E-11-1.08030E-11 1.47739E-11
 137-7.65854E-12 7.65854E-12-1.46189E-11 1.25989E-11
 138 2.69643E-11-2.69643E-11-1.28899E-11 1.33286E-11
 139-4.38443E-11 4.38443E-11-1.37668E-11 1.15746E-11
 140-3.15130E-11 3.15130E-11-1.32592E-11 1.34994E-11
 141 1.22533E-10-1.22533E-10-1.37830E-11 1.88182E-11
 142 3.83678E-11-3.83678E-11-1.81568E-11 2.00751E-11
 143-5.29336E-11 5.29336E-11-1.95572E-11 1.72743E-11
 144-6.52868E-11 6.52868E-11-1.73378E-11 1.35277E-11
 145 5.24726E-11-5.24726E-11-1.40388E-11 1.64877E-11
 146 7.09379E-11-7.09379E-11-1.73714E-11 1.98269E-11
 147 3.95186E-11-3.95186E-11-1.93502E-11 2.22357E-11
 148-5.65946E-11 5.65946E-11-2.22861E-11 2.09115E-11
 149-3.23149E-11 3.23149E-11-2.16389E-11 1.85679E-11
 150-7.56156E-11 7.56156E-11-1.92683E-11 1.51237E-11
 151 6.75783E-12-6.75783E-12-1.41898E-11 1.70951E-11
 152-2.13707E-11 2.13707E-11-1.58176E-11 1.56585E-11
 153 3.25418E-11-3.25418E-11-1.52828E-11 1.67280E-11
 154-7.16506E-11 7.16506E-11-1.60493E-11 1.24667E-11
 155-1.17726E-10 1.17726E-10-1.28154E-11 6.20151E-12
 156-4.37167E-11 4.37167E-11-7.69201E-12 4.62487E-12
 157 6.85918E-12-6.85918E-12-5.34265E-12 5.68561E-12
 158 1.97381E-11-1.97381E-11-7.49269E-12 5.93301E-12
 159-1.62058E-11 1.62058E-11-7.12162E-12 7.58463E-12
 160-7.67438E-11 7.67438E-11-6.97856E-12 3.32327E-12
 161-3.20436E-11 3.20436E-11-2.76700E-12 1.74195E-12
 162 1.03984E-11-1.03984E-11-1.03935E-12 1.55927E-12
 163-6.97195E-11 6.97195E-11-8.58827E-13 1.01334E-13
 164-7.13940E-11 7.13940E-11 6.29089E-13-4.19879E-12
 165-1.01758E-10 1.01758E-10 3.88226E-12-8.60638E-12
 166-3.58828E-11 3.58828E-11 9.53744E-12-1.18479E-11
 167-5.04628E-11 5.04628E-11 1.04367E-11-1.55064E-11
 168-1.22762E-11 1.22762E-11 1.47717E-11-1.32028E-11
 169-4.38433E-11 4.38433E-11 1.26085E-11-1.38912E-11
 170 1.28532E-11-1.28532E-11 1.37354E-11-1.16375E-11
 171 1.88761E-12-1.88761E-12 1.13092E-11-1.01234E-11
 172 2.47355E-11-2.47355E-11 1.01204E-11-7.95347E-12
 173-3.40228E-11 3.40228E-11 8.04284E-12-1.02897E-11
 174 1.36092E-11-1.36092E-11 1.07163E-11-9.49017E-12
 175-2.37082E-12 2.37082E-12 8.93417E-12-8.50701E-12



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	317 di 401

RELAZIONE DI CALCOLO

176 6.70595E-11-6.70595E-11 8.69678E-12-5.34381E-12
 177 6.59942E-12-6.59942E-12 6.11793E-12-5.04455E-12
 178 3.35066E-11-3.35066E-11 3.77199E-12-3.36995E-12
 179-6.56289E-11 6.56289E-11 3.08986E-12-4.73422E-12
 180-8.23132E-11 8.23132E-11 3.84255E-12-9.59530E-12
 181-7.65854E-11 7.65854E-11 7.69726E-12-1.18903E-11
 182-7.60691E-11 7.60691E-11 1.14689E-11-1.61705E-11
 183-4.12822E-11 4.12822E-11 1.55010E-11-1.53823E-11
 184-9.60001E-12 9.60001E-12 1.65747E-11-1.77823E-11
 185-1.11595E-11 1.11595E-11 1.79433E-11-1.77736E-11
 186-9.47580E-12 9.47580E-12 1.70618E-11-1.86270E-11
 187-3.23311E-12 3.23311E-12 1.96520E-11-2.07226E-11
 188 7.76922E-13-7.76922E-13 2.11132E-11-2.14382E-11
 189-5.68806E-12 5.68806E-12 2.13693E-11-2.36546E-11
 190 3.04584E-11-3.04584E-11 2.33056E-11-2.06913E-11
 191-3.37856E-13 3.37856E-13 2.06096E-11-2.15360E-11
 192-1.27753E-11 1.27753E-11 2.13683E-11-2.09281E-11
 193 2.99511E-11-2.99511E-11 2.17207E-11-2.02232E-11
 194 2.78416E-11-2.78416E-11 2.18675E-11-1.90202E-11
 195 1.67098E-11-1.67098E-11 1.79833E-11-1.95125E-11
 196 5.05108E-11-5.05108E-11 1.86073E-11-1.64456E-11
 197 5.36543E-11-5.36543E-11 1.59919E-11-1.25815E-11
 198 9.07940E-11-9.07940E-11 1.13276E-11-6.44863E-12
 199 9.89620E-11-9.89620E-11 7.71266E-12-1.85507E-12
 200 6.88378E-11-6.88378E-11 2.28538E-12 2.32867E-14

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 336.8 REMNOR=0.1458E-21 RATIO =0.2412 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.2412 RATOR= 0.000
 MAX UN= 2.373 IEQ= 129 NODE 65 DOF 1 Y-DISPL.F
 MIN UN=-.2381E-11 IEQ= 96 NODE 48 DOF 2 X-ROT. F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 67.34 REMNOR=0.2017E-20 RATIO =0.1079 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.1079 RATOR= 0.000
 MAX UN= 1.189 IEQ= 79 NODE 40 DOF 1 Y-DISPL.F
 MIN UN=-.4340E-09 IEQ= 221 NODE 111 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 926.4 REMNOR=0.2545E-17 RATIO =0.4001 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.4001 RATOR= 0.000
 MAX UN= 13.26 IEQ= 131 NODE 66 DOF 1 Y-DISPL.F
 MIN UN=-.2365E-07 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 787.5 REMNOR=0.5857E-17 RATIO =0.3689 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.3689 RATOR= 0.000
 MAX UN= 12.30 IEQ= 181 NODE 91 DOF 1 Y-DISPL.F
 MIN UN=-.1549 IEQ= 235 NODE 118 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 497.8 REMNOR=0.5697E-17 RATIO =0.2933 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.2933 RATOR= 0.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	318 di 401

MAX UN= 10.64 IEQ= 205 NODE 103 DOF 1 Y-DISPL.F
 MIN UN=-.7762 IEQ= 227 NODE 114 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 132.8 REMNOR=0.7850E-17 RATIO =0.1515 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.1515 RATOR= 0.000
 MAX UN= 5.552 IEQ= 229 NODE 115 DOF 1 Y-DISPL.F
 MIN UN=-.6633 IEQ= 247 NODE 124 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 7 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM= 13.26 REMNOR=0.5816E-17 RATIO =0.4787E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.4787E-01 RATOR= 0.000
 MAX UN= 2.205 IEQ= 245 NODE 123 DOF 1 Y-DISPL.F
 MIN UN=-.1885 IEQ= 269 NODE 135 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 8 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM=0.1419 REMNOR=0.4612E-17 RATIO =0.4951E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.4951E-02 RATOR= 0.000
 MAX UN=0.3428 IEQ= 229 NODE 115 DOF 1 Y-DISPL.F
 MIN UN=-.1837E-01 IEQ= 287 NODE 144 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 9 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5788. RIMNOR=0.2102E-18
 RENORM=0.2374E-13 REMNOR=0.4924E-17 RATIO =0.2025E-08 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 7.386 RMMAX =0.4279E-10
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-15
 RDT = 5788. RDR =0.1000E-15
 RATIO=0.2025E-08 RATOR= 0.000
 MAX UN=0.4668E-07 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F
 MIN UN=-.4213E-07 IEQ= 39 NODE 20 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICASTR_986
 Exe Time :21 June 2016 11:57:46

paratia_mario
 SOLUTION REACHED USING 9 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F (02)	X-ROT. F (04)
1	5.9423760E-02	-1.2997294E-02
2	5.8773895E-02	-1.2997287E-02
3	5.8124032E-02	-1.2997251E-02
4	5.7474171E-02	-1.2997157E-02
5	5.6824317E-02	-1.2996973E-02
6	5.6174476E-02	-1.2996669E-02
7	5.5524653E-02	-1.2996210E-02
8	5.4874858E-02	-1.2995563E-02
9	5.4225101E-02	-1.2994693E-02
10	5.3575393E-02	-1.2993564E-02
11	5.2925748E-02	-1.2992139E-02

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	319 di 401

RELAZIONE DI CALCOLO

12	5.2276183E-02	-1.2990380E-02
13	5.1626716E-02	-1.2988247E-02
14	5.0977366E-02	-1.2985700E-02
15	5.0328154E-02	-1.2982698E-02
16	4.9679104E-02	-1.2979199E-02
17	4.9030243E-02	-1.2975160E-02
18	4.8381598E-02	-1.2970535E-02
19	4.7733198E-02	-1.2965280E-02
20	4.7085080E-02	-1.2959347E-02
21	4.6437278E-02	-1.2952690E-02
22	4.5789826E-02	-1.2945260E-02
23	4.5142766E-02	-1.2937007E-02
24	4.4496140E-02	-1.2927881E-02
25	4.3849993E-02	-1.2917829E-02
26	4.3204373E-02	-1.2906799E-02
27	4.2559331E-02	-1.2894737E-02
28	4.1914918E-02	-1.2881588E-02
29	4.1271191E-02	-1.2867297E-02
30	4.0628208E-02	-1.2851806E-02
31	3.9986031E-02	-1.2835058E-02
32	3.9344724E-02	-1.2816992E-02
33	3.8704355E-02	-1.2797550E-02
34	3.8065006E-02	-1.2776670E-02
35	3.7426726E-02	-1.2754290E-02
36	3.6789603E-02	-1.2730346E-02
37	3.6153718E-02	-1.2704775E-02
38	3.5519154E-02	-1.2677511E-02
39	3.4885996E-02	-1.2648487E-02
40	3.4254336E-02	-1.2617636E-02
41	3.3624264E-02	-1.2584890E-02
42	3.2995879E-02	-1.2550179E-02
43	3.2369280E-02	-1.2513433E-02
44	3.1744571E-02	-1.2474580E-02
45	3.1121859E-02	-1.2433547E-02
46	3.0501254E-02	-1.2390260E-02
47	2.9882872E-02	-1.2344646E-02
48	2.9266830E-02	-1.2296627E-02
49	2.8653250E-02	-1.2246128E-02
50	2.8042259E-02	-1.2193071E-02
51	2.7433987E-02	-1.2137375E-02
52	2.6828567E-02	-1.2078963E-02
53	2.6226138E-02	-1.2017751E-02
54	2.5626840E-02	-1.1953659E-02
55	2.5030821E-02	-1.1886603E-02
56	2.4438231E-02	-1.1816499E-02
57	2.3849223E-02	-1.1743263E-02
58	2.3263970E-02	-1.1666808E-02
59	2.2682609E-02	-1.1587045E-02
60	2.2105322E-02	-1.1503887E-02
61	2.1532279E-02	-1.1417245E-02
62	2.0963657E-02	-1.1327027E-02
63	2.0399637E-02	-1.1233144E-02
64	1.9840405E-02	-1.1135501E-02
65	1.9286151E-02	-1.1034006E-02
66	1.8737070E-02	-1.0928564E-02
67	1.8193361E-02	-1.0819134E-02
68	1.7655223E-02	-1.0705732E-02
69	1.7122854E-02	-1.0588381E-02
70	1.6596450E-02	-1.0467115E-02
71	1.6076207E-02	-1.0341971E-02
72	1.5562317E-02	-1.0212998E-02
73	1.5054970E-02	-1.0080251E-02
74	1.4554354E-02	-9.9437913E-03
75	1.4060652E-02	-9.8036899E-03
76	1.3574044E-02	-9.6600247E-03
77	1.3094707E-02	-9.5128815E-03
78	1.2622812E-02	-9.3623535E-03
79	1.2158536E-02	-9.2085450E-03
80	1.1702020E-02	-9.0515587E-03
81	1.1253431E-02	-8.8915141E-03
82	1.0812918E-02	-8.7285354E-03
83	1.0380616E-02	-8.5627492E-03
84	9.9566785E-03	-8.3942956E-03
85	9.5412281E-03	-8.2233086E-03
86	9.1343875E-03	-8.0499290E-03
87	8.7362727E-03	-7.8743012E-03
88	8.3469924E-03	-7.6965734E-03
89	7.9666403E-03	-7.5168937E-03
90	7.5953252E-03	-7.3354249E-03
91	7.2331250E-03	-7.1523224E-03
92	6.8801175E-03	-6.9677488E-03

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	320 di 401

93	6.5363719E-03	-6.7818707E-03
94	6.2019427E-03	-6.5948542E-03
95	5.8768957E-03	-6.4068806E-03
96	5.5612677E-03	-6.2181234E-03
97	5.2550934E-03	-6.0287636E-03
98	4.9583983E-03	-5.8389859E-03
99	4.6711930E-03	-5.6489746E-03
100	4.3934957E-03	-5.4589294E-03
101	4.1252974E-03	-5.2690420E-03
102	3.8665855E-03	-5.0795115E-03
103	3.6173369E-03	-4.8905410E-03
104	3.3775139E-03	-4.7023331E-03
105	3.1470825E-03	-4.5151056E-03
106	2.9259835E-03	-4.3290684E-03
107	2.7141522E-03	-4.1444391E-03
108	2.5115125E-03	-3.9614388E-03
109	2.3179774E-03	-3.7802922E-03
110	2.1334449E-03	-3.6012242E-03
111	1.9578126E-03	-3.4244740E-03
112	1.7909550E-03	-3.2502737E-03
113	1.6327388E-03	-3.0788627E-03
114	1.4830182E-03	-2.9104840E-03
115	1.3416330E-03	-2.7453809E-03
116	1.2084184E-03	-2.5838104E-03
117	1.0831889E-03	-2.4260181E-03
118	9.6574975E-04	-2.2722369E-03
119	8.5589492E-04	-2.1226758E-03
120	7.5340675E-04	-1.9775180E-03
121	6.5806482E-04	-1.8369341E-03
122	5.6963474E-04	-1.7010664E-03
123	4.8787746E-04	-1.5700417E-03
124	4.1254802E-04	-1.4439700E-03
125	3.4339502E-04	-1.3229431E-03
126	2.8016681E-04	-1.2070460E-03
127	2.2260386E-04	-1.0963428E-03
128	1.7044505E-04	-9.9088791E-04
129	1.2342694E-04	-8.9072053E-04
130	8.1284570E-05	-7.9585904E-04
131	4.3752060E-05	-7.0629198E-04
132	1.0566951E-05	-6.2198424E-04
133	-1.8532911E-05	-5.4286930E-04
134	-4.3805062E-05	-4.6885935E-04
135	-6.5502125E-05	-3.9984614E-04
136	-8.3871199E-05	-3.3570292E-04
137	-9.9151680E-05	-2.7629281E-04
138	-1.1157683E-04	-2.2146341E-04
139	-1.2137168E-04	-1.7105382E-04
140	-1.2875305E-04	-1.2489509E-04
141	-1.3392920E-04	-8.2810973E-05
142	-1.3709919E-04	-4.4622675E-05
143	-1.3845331E-04	-1.0145127E-05
144	-1.3817244E-04	2.0808336E-05
145	-1.3642809E-04	4.8425389E-05
146	-1.3338231E-04	7.2893811E-05
147	-1.2918804E-04	9.4398746E-05
148	-1.2398875E-04	1.1312491E-04
149	-1.1791883E-04	1.2925396E-04
150	-1.1110367E-04	1.4296440E-04
151	-1.0365979E-04	1.5443110E-04
152	-9.5694944E-05	1.6382484E-04
153	-8.7308945E-05	1.7131070E-04
154	-7.8593011E-05	1.7704836E-04
155	-6.9630692E-05	1.8119107E-04
156	-6.0498040E-05	1.8388559E-04
157	-5.1263747E-05	1.8527214E-04
158	-4.1990218E-05	1.8548412E-04
159	-3.2732798E-05	1.8464832E-04
160	-2.3540850E-05	1.8288470E-04
161	-1.4457904E-05	1.8030651E-04
162	-5.5218220E-06	1.7702025E-04
163	3.2341676E-06	1.7312607E-04
164	1.1782211E-05	1.6871747E-04
165	2.0098795E-05	1.6388169E-04
166	2.8164612E-05	1.5869983E-04
167	3.5964415E-05	1.5324691E-04
168	4.3486102E-05	1.4759247E-04
169	5.0721365E-05	1.4180015E-04
170	5.7664791E-05	1.3592830E-04
171	6.4313756E-05	1.3003010E-04
172	7.0668166E-05	1.2415376E-04
173	7.6730339E-05	1.1834264E-04



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	321 di 401

RELAZIONE DI CALCOLO

174 8.2504291E-05 1.1263587E-04
 175 8.7996241E-05 1.0706796E-04
 176 9.3213909E-05 1.0166936E-04
 177 9.8166442E-05 9.6466644E-05
 178 1.0286431E-04 9.1482537E-05
 179 1.0731876E-04 8.6736538E-05
 180 1.1154220E-04 8.2244487E-05
 181 1.1554765E-04 7.8019142E-05
 182 1.1934872E-04 7.4070244E-05
 183 1.2295947E-04 7.0404594E-05
 184 1.2639404E-04 6.7026488E-05
 185 1.2966694E-04 6.3937407E-05
 186 1.3279259E-04 6.1136441E-05
 187 1.3578533E-04 5.8620325E-05
 188 1.3865933E-04 5.6383497E-05
 189 1.4142826E-04 5.4418363E-05
 190 1.4410553E-04 5.2715111E-05
 191 1.4670394E-04 5.1261969E-05
 192 1.4923567E-04 5.0045212E-05
 193 1.5171219E-04 4.9049209E-05
 194 1.5414403E-04 4.8256531E-05
 195 1.5654091E-04 4.7647875E-05
 196 1.5891153E-04 4.7202177E-05
 197 1.6126347E-04 4.6896609E-05
 198 1.6360312E-04 4.6706599E-05
 199 1.6593566E-04 4.6605839E-05
 200 1.6826477E-04 4.6566299E-05
 201 1.7059188E-04 4.6558225E-05

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICASTR_986
 Exe Time :21 June 2016 11:57:46

paratia_mario

STRESS RESULTS FOR GROUP NO. 1

Q_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
 CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
UFACITOR	Peq	Su_a	Su_p	LAYER							
1 D	0.2600	-5.9424E-02	57.00	10.40	57.00	33.82	ACTIVE	0.000	0.000	0.000	1.000
1.000	10.40	0.000	0.000	5AL_158_160_L_0							
2 D	0.5392	-5.8774E-02	57.95	10.78	57.95	34.38	ACTIVE	0.000	-5.0000E-02	0.000	1.000
1.000	10.78	0.000	0.000	5AL_158_160_L_0							
3 D	0.5585	-5.8124E-02	58.90	11.17	58.90	34.95	ACTIVE	0.000	-0.1000	0.000	1.000
1.000	11.17	0.000	0.000	5AL_158_160_L_0							
4 D	0.5778	-5.7474E-02	59.85	11.56	59.85	35.51	ACTIVE	0.000	-0.1500	0.000	1.000
1.000	11.56	0.000	0.000	5AL_158_160_L_0							
5 D	0.5971	-5.6824E-02	60.80	11.94	60.80	36.07	ACTIVE	0.000	-0.2000	0.000	1.000
1.000	11.94	0.000	0.000	5AL_158_160_L_0							
6 D	0.6163	-5.6174E-02	61.75	12.33	61.75	36.64	ACTIVE	0.000	-0.2500	0.000	1.000
1.000	12.33	0.000	0.000	5AL_158_160_L_0							
7 D	0.6356	-5.5525E-02	62.70	12.71	62.70	37.20	ACTIVE	0.000	-0.3000	0.000	1.000
1.000	12.71	0.000	0.000	5AL_158_160_L_0							
8 D	0.6549	-5.4875E-02	63.65	13.10	63.65	37.76	ACTIVE	0.000	-0.3500	0.000	1.000
1.000	13.10	0.000	0.000	5AL_158_160_L_0							
9 D	0.6742	-5.4225E-02	64.60	13.48	64.60	38.33	ACTIVE	0.000	-0.4000	0.000	1.000
1.000	13.48	0.000	0.000	5AL_158_160_L_0							
10 D	0.6935	-5.3575E-02	65.55	13.87	65.55	38.89	ACTIVE	0.000	-0.4500	0.000	1.000
1.000	13.87	0.000	0.000	5AL_158_160_L_0							
11 D	0.7128	-5.2926E-02	66.50	14.26	66.50	39.45	ACTIVE	0.000	-0.5000	0.000	1.000
1.000	14.26	0.000	0.000	5AL_158_160_L_0							
12 D	0.7321	-5.2276E-02	67.45	14.64	67.45	40.02	ACTIVE	0.000	-0.5500	0.000	1.000
1.000	14.64	0.000	0.000	5AL_158_160_L_0							
13 D	0.7513	-5.1627E-02	68.40	15.03	68.40	40.58	ACTIVE	0.000	-0.6000	0.000	1.000
1.000	15.03	0.000	0.000	5AL_158_160_L_0							
14 D	0.7706	-5.0977E-02	69.35	15.41	69.35	41.15	ACTIVE	0.000	-0.6500	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VID100 004	A	322 di 401

1.000	15.41	0.000	0.000	5AL_158_160_L_0							
15 D	0.7899	-5.0328E-02	70.30	15.80	70.30	41.71	ACTIVE	0.000	-0.7000	0.000	1.000
1.000	15.80	0.000	0.000	5AL_158_160_L_0							
16 D	0.8092	-4.9679E-02	71.25	16.18	71.25	42.27	ACTIVE	0.000	-0.7500	0.000	1.000
1.000	16.18	0.000	0.000	5AL_158_160_L_0							
17 D	0.8285	-4.9030E-02	72.20	16.57	72.20	42.84	ACTIVE	0.000	-0.8000	0.000	1.000
1.000	16.57	0.000	0.000	5AL_158_160_L_0							
18 D	0.8478	-4.8382E-02	73.15	16.96	73.15	43.40	ACTIVE	0.000	-0.8500	0.000	1.000
1.000	16.96	0.000	0.000	5AL_158_160_L_0							
19 D	0.8670	-4.7733E-02	74.10	17.34	74.10	43.96	ACTIVE	0.000	-0.9000	0.000	1.000
1.000	17.34	0.000	0.000	5AL_158_160_L_0							
20 D	0.8863	-4.7085E-02	75.05	17.73	75.05	44.53	ACTIVE	0.000	-0.9500	0.000	1.000
1.000	17.73	0.000	0.000	5AL_158_160_L_0							
21 D	0.9056	-4.6437E-02	76.00	18.11	76.00	45.09	ACTIVE	0.000	-1.000	0.000	1.000
1.000	18.11	0.000	0.000	5AL_158_160_L_0							
22 D	0.9249	-4.5790E-02	76.95	18.50	76.95	45.65	ACTIVE	0.000	-1.050	0.000	1.000
1.000	18.50	0.000	0.000	5AL_158_160_L_0							
23 D	0.9442	-4.5143E-02	77.90	18.88	77.90	46.22	ACTIVE	0.000	-1.100	0.000	1.000
1.000	18.88	0.000	0.000	5AL_158_160_L_0							
24 D	0.9635	-4.4496E-02	78.85	19.27	78.85	46.78	ACTIVE	0.000	-1.150	0.000	1.000
1.000	19.27	0.000	0.000	5AL_158_160_L_0							
25 D	0.9828	-4.3850E-02	79.80	19.66	79.80	47.35	ACTIVE	0.000	-1.200	0.000	1.000
1.000	19.66	0.000	0.000	5AL_158_160_L_0							
26 D	1.002	-4.3204E-02	80.75	20.04	80.75	47.91	ACTIVE	0.000	-1.250	0.000	1.000
1.000	20.04	0.000	0.000	5AL_158_160_L_0							
27 D	1.021	-4.2559E-02	81.70	20.43	81.70	48.47	ACTIVE	0.000	-1.300	0.000	1.000
1.000	20.43	0.000	0.000	5AL_158_160_L_0							
28 D	1.041	-4.1915E-02	82.65	20.81	82.65	49.04	ACTIVE	0.000	-1.350	0.000	1.000
1.000	20.81	0.000	0.000	5AL_158_160_L_0							
29 D	1.060	-4.1271E-02	83.60	21.20	83.60	49.60	ACTIVE	0.000	-1.400	0.000	1.000
1.000	21.20	0.000	0.000	5AL_158_160_L_0							
30 D	1.079	-4.0628E-02	84.55	21.58	84.55	50.16	ACTIVE	0.000	-1.450	0.000	1.000
1.000	21.58	0.000	0.000	5AL_158_160_L_0							
31 D	1.098	-3.9986E-02	85.50	21.97	85.50	50.73	ACTIVE	0.000	-1.500	0.000	1.000
1.000	21.97	0.000	0.000	5AL_158_160_L_0							
32 D	1.118	-3.9345E-02	86.45	22.36	86.45	51.29	ACTIVE	0.000	-1.550	0.000	1.000
1.000	22.36	0.000	0.000	5AL_158_160_L_0							
33 D	1.137	-3.8704E-02	87.40	22.74	87.40	51.85	ACTIVE	0.000	-1.600	0.000	1.000
1.000	22.74	0.000	0.000	5AL_158_160_L_0							
34 D	1.156	-3.8065E-02	88.35	23.13	88.35	52.42	ACTIVE	0.000	-1.650	0.000	1.000
1.000	23.13	0.000	0.000	5AL_158_160_L_0							
35 D	1.176	-3.7427E-02	89.30	23.51	89.30	52.98	ACTIVE	0.000	-1.700	0.000	1.000
1.000	23.51	0.000	0.000	5AL_158_160_L_0							
36 D	1.195	-3.6790E-02	90.25	23.90	90.25	53.55	ACTIVE	0.000	-1.750	0.000	1.000
1.000	23.90	0.000	0.000	5AL_158_160_L_0							
37 D	1.214	-3.6154E-02	91.20	24.28	91.20	54.11	ACTIVE	0.000	-1.800	0.000	1.000
1.000	24.28	0.000	0.000	5AL_158_160_L_0							
38 D	1.233	-3.5519E-02	92.15	24.67	92.15	54.67	ACTIVE	0.000	-1.850	0.000	1.000
1.000	24.67	0.000	0.000	5AL_158_160_L_0							
39 D	1.253	-3.4886E-02	93.10	25.05	93.10	55.24	ACTIVE	0.000	-1.900	0.000	1.000
1.000	25.05	0.000	0.000	5AL_158_160_L_0							
40 D	1.272	-3.4254E-02	94.05	25.44	94.05	55.80	ACTIVE	0.000	-1.950	0.000	1.000
1.000	25.44	0.000	0.000	5AL_158_160_L_0							
41 D	1.291	-3.3624E-02	95.00	25.83	95.00	56.36	ACTIVE	0.000	-2.000	0.000	1.000
1.000	25.83	0.000	0.000	5AL_158_160_L_0							
42 D	1.311	-3.2996E-02	95.95	26.21	95.95	56.93	ACTIVE	0.000	-2.050	0.000	1.000
1.000	26.21	0.000	0.000	5AL_158_160_L_0							
43 D	1.330	-3.2369E-02	96.90	26.60	96.90	57.49	ACTIVE	0.000	-2.100	0.000	1.000
1.000	26.60	0.000	0.000	5AL_158_160_L_0							
44 D	1.349	-3.1745E-02	97.85	26.98	97.85	58.05	ACTIVE	0.000	-2.150	0.000	1.000
1.000	26.98	0.000	0.000	5AL_158_160_L_0							
45 D	1.368	-3.1122E-02	98.80	27.37	98.80	58.62	ACTIVE	0.000	-2.200	0.000	1.000
1.000	27.37	0.000	0.000	5AL_158_160_L_0							
46 D	1.388	-3.0501E-02	99.75	27.75	99.75	59.18	ACTIVE	0.000	-2.250	0.000	1.000
1.000	27.75	0.000	0.000	5AL_158_160_L_0							
47 D	1.407	-2.9883E-02	100.7	28.14	100.7	59.75	ACTIVE	0.000	-2.300	0.000	1.000
1.000	28.14	0.000	0.000	5AL_158_160_L_0							
48 D	1.426	-2.9267E-02	101.6	28.53	101.6	60.31	ACTIVE	0.000	-2.350	0.000	1.000
1.000	28.53	0.000	0.000	5AL_158_160_L_0							
49 D	1.446	-2.8653E-02	102.6	28.91	102.6	60.87	ACTIVE	0.000	-2.400	0.000	1.000
1.000	28.91	0.000	0.000	5AL_158_160_L_0							
50 D	1.465	-2.8042E-02	103.5	29.30	103.5	61.44	ACTIVE	0.000	-2.450	0.000	1.000
1.000	29.30	0.000	0.000	5AL_158_160_L_0							
51 D	1.484	-2.7434E-02	104.5	29.68	104.5	62.00	ACTIVE	0.000	-2.500	0.000	1.000
1.000	29.68	0.000	0.000	5AL_158_160_L_0							
52 D	1.503	-2.6829E-02	105.4	30.07	105.4	62.56	ACTIVE	0.000	-2.550	0.000	1.000
1.000	30.07	0.000	0.000	5AL_158_160_L_0							
53 D	1.523	-2.6226E-02	106.4	30.45	106.4	63.13	ACTIVE	0.000	-2.600	0.000	1.000
1.000	30.45	0.000	0.000	5AL_158_160_L_0							
54 D	1.542	-2.5627E-02	107.3	30.84	107.3	63.69	ACTIVE	0.000	-2.650	0.000	1.000
1.000	30.84	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI						COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
RELAZIONE DI CALCOLO						L100	01	D 09CL	VI0100.004	A	323 di 401
55 D	1.561	-2.5031E-02	108.3	31.23	108.3	64.25	ACTIVE	0.000	-2.700	0.000	1.000
1.000	31.23	0.000	0.000	SAL_158_160_L_0							
56 D	1.581	-2.4438E-02	109.2	31.61	109.2	64.82	ACTIVE	0.000	-2.750	0.000	1.000
1.000	31.61	0.000	0.000	SAL_158_160_L_0							
57 D	1.600	-2.3849E-02	110.2	32.00	110.2	65.38	ACTIVE	0.000	-2.800	0.000	1.000
1.000	32.00	0.000	0.000	SAL_158_160_L_0							
58 D	1.619	-2.3264E-02	111.1	32.38	111.1	65.95	ACTIVE	0.000	-2.850	0.000	1.000
1.000	32.38	0.000	0.000	SAL_158_160_L_0							
59 D	1.638	-2.2683E-02	112.1	32.77	112.1	66.51	ACTIVE	0.000	-2.900	0.000	1.000
1.000	32.77	0.000	0.000	SAL_158_160_L_0							
60 D	1.658	-2.2105E-02	113.0	33.15	113.0	67.07	ACTIVE	0.000	-2.950	0.000	1.000
1.000	33.15	0.000	0.000	SAL_158_160_L_0							
61 D	1.677	-2.1532E-02	114.0	33.54	114.0	67.64	ACTIVE	0.000	-3.000	0.000	1.000
1.000	33.54	0.000	0.000	SAL_158_160_L_0							
62 D	1.696	-2.0964E-02	114.9	33.93	114.9	68.20	ACTIVE	0.000	-3.050	0.000	1.000
1.000	33.93	0.000	0.000	SAL_158_160_L_0							
63 D	1.716	-2.0400E-02	115.9	34.31	115.9	68.76	ACTIVE	0.000	-3.100	0.000	1.000
1.000	34.31	0.000	0.000	SAL_158_160_L_0							
64 D	1.735	-1.9840E-02	116.8	34.70	116.8	69.33	ACTIVE	0.000	-3.150	0.000	1.000
1.000	34.70	0.000	0.000	SAL_158_160_L_0							
65 D	1.754	-1.9286E-02	117.8	35.08	117.8	69.89	ACTIVE	0.000	-3.200	0.000	1.000
1.000	35.08	0.000	0.000	SAL_158_160_L_0							
66 D	1.773	-1.8737E-02	118.7	35.47	118.7	70.45	ACTIVE	0.000	-3.250	0.000	1.000
1.000	35.47	0.000	0.000	SAL_158_160_L_0							
67 D	1.793	-1.8193E-02	119.7	35.85	119.7	71.02	ACTIVE	0.000	-3.300	0.000	1.000
1.000	35.85	0.000	0.000	SAL_158_160_L_0							
68 D	1.812	-1.7655E-02	120.6	36.24	120.6	71.58	ACTIVE	0.000	-3.350	0.000	1.000
1.000	36.24	0.000	0.000	SAL_158_160_L_0							
69 D	1.831	-1.7123E-02	121.6	36.63	121.6	72.15	ACTIVE	0.000	-3.400	0.000	1.000
1.000	36.63	0.000	0.000	SAL_158_160_L_0							
70 D	1.851	-1.6596E-02	122.5	37.01	122.5	72.71	ACTIVE	0.000	-3.450	0.000	1.000
1.000	37.01	0.000	0.000	SAL_158_160_L_0							
71 D	1.870	-1.6076E-02	123.5	37.40	123.5	73.27	ACTIVE	0.000	-3.500	0.000	1.000
1.000	37.40	0.000	0.000	SAL_158_160_L_0							
72 D	1.889	-1.5562E-02	124.4	37.78	124.4	73.84	ACTIVE	0.000	-3.550	0.000	1.000
1.000	37.78	0.000	0.000	SAL_158_160_L_0							
73 D	1.908	-1.5055E-02	125.4	38.17	125.4	74.40	ACTIVE	0.000	-3.600	0.000	1.000
1.000	38.17	0.000	0.000	SAL_158_160_L_0							
74 D	1.928	-1.4554E-02	126.3	38.55	126.3	74.96	ACTIVE	0.000	-3.650	0.000	1.000
1.000	38.55	0.000	0.000	SAL_158_160_L_0							
75 D	1.947	-1.4061E-02	127.3	38.94	127.3	75.53	ACTIVE	0.000	-3.700	0.000	1.000
1.000	38.94	0.000	0.000	SAL_158_160_L_0							
76 D	1.966	-1.3574E-02	128.2	39.33	128.2	76.09	ACTIVE	0.000	-3.750	0.000	1.000
1.000	39.33	0.000	0.000	SAL_158_160_L_0							
77 D	1.986	-1.3095E-02	129.2	39.71	129.2	76.65	ACTIVE	0.000	-3.800	0.000	1.000
1.000	39.71	0.000	0.000	SAL_158_160_L_0							
78 D	2.005	-1.2623E-02	130.1	40.10	130.1	77.22	ACTIVE	0.000	-3.850	0.000	1.000
1.000	40.10	0.000	0.000	SAL_158_160_L_0							
79 D	2.024	-1.2159E-02	131.1	40.48	131.1	77.78	ACTIVE	0.000	-3.900	0.000	1.000
1.000	40.48	0.000	0.000	SAL_158_160_L_0							
80 D	2.043	-1.1702E-02	132.0	40.87	132.0	78.35	ACTIVE	0.000	-3.950	0.000	1.000
1.000	40.87	0.000	0.000	SAL_158_160_L_0							
81 D	2.063	-1.1253E-02	133.0	41.25	133.0	78.91	ACTIVE	0.000	-4.000	0.000	1.000
1.000	41.25	0.000	0.000	SAL_158_160_L_0							
82 D	2.097	-1.0813E-02	133.4	41.44	133.4	79.18	ACTIVE	0.000	-4.050	0.5000	1.000
1.000	41.44	0.000	0.000	SAL_158_160_L_0							
83 D	2.131	-1.0381E-02	133.9	41.62	133.9	79.44	ACTIVE	0.000	-4.100	1.000	1.000
1.000	41.62	0.000	0.000	SAL_158_160_L_0							
84 D	2.165	-9.9567E-03	134.3	41.80	134.3	79.71	ACTIVE	0.000	-4.150	1.500	1.000
1.000	41.80	0.000	0.000	SAL_158_160_L_0							
85 D	2.199	-9.5412E-03	134.8	41.99	134.8	79.98	ACTIVE	0.000	-4.200	2.000	1.000
1.000	41.99	0.000	0.000	SAL_158_160_L_0							
86 D	2.233	-9.1344E-03	135.2	42.17	135.2	80.24	ACTIVE	0.000	-4.250	2.500	1.000
1.000	42.17	0.000	0.000	SAL_158_160_L_0							
87 D	2.268	-8.7363E-03	135.7	42.35	135.7	80.51	ACTIVE	0.000	-4.300	3.000	1.000
1.000	42.35	0.000	0.000	SAL_158_160_L_0							
88 D	2.302	-8.3470E-03	136.1	42.53	136.1	80.78	ACTIVE	0.000	-4.350	3.500	1.000
1.000	42.53	0.000	0.000	SAL_158_160_L_0							
89 D	2.336	-7.9666E-03	136.6	42.72	136.6	81.04	ACTIVE	0.000	-4.400	4.000	1.000
1.000	42.72	0.000	0.000	SAL_158_160_L_0							
90 D	2.370	-7.5953E-03	137.0	42.90	137.0	81.31	ACTIVE	0.000	-4.450	4.500	1.000
1.000	42.90	0.000	0.000	SAL_158_160_L_0							
91 D	2.404	-7.2331E-03	137.5	43.08	137.5	81.58	ACTIVE	0.000	-4.500	5.000	1.000
1.000	43.08	0.000	0.000	SAL_158_160_L_0							
92 D	2.438	-6.8801E-03	137.9	43.26	137.9	81.85	ACTIVE	0.000	-4.550	5.500	1.000
1.000	43.26	0.000	0.000	SAL_158_160_L_0							
93 D	2.472	-6.5364E-03	138.4	43.45	138.4	82.11	ACTIVE	0.000	-4.600	6.000	1.000
1.000	43.45	0.000	0.000	SAL_158_160_L_0							
94 D	2.506	-6.2019E-03	138.9	43.63	138.9	82.38	ACTIVE	0.000	-4.650	6.500	1.000
1.000	43.63	0.000	0.000	SAL_158_160_L_0							
95 D	2.541	-5.8769E-03	139.3	43.81	139.3	82.65	ACTIVE	0.000	-4.700	7.000	1.000
1.000	43.81	0.000	0.000	SAL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	324 di 401

1.000	50.81	0.000	0.000	5AL_158_160_L_0							
96 D	2.575	-5.5613E-03	139.8	43.99	139.8	82.91	ACTIVE	0.000	-4.750	7.500	1.000
1.000	51.49	0.000	0.000	5AL_158_160_L_0							
97 D	2.609	-5.2551E-03	140.2	44.18	140.2	83.18	ACTIVE	0.000	-4.800	8.000	1.000
1.000	52.18	0.000	0.000	5AL_158_160_L_0							
98 D	2.643	-4.9584E-03	140.6	44.36	140.6	83.45	ACTIVE	0.000	-4.850	8.500	1.000
1.000	52.86	0.000	0.000	5AL_158_160_L_0							
99 D	2.677	-4.6712E-03	141.1	44.54	141.1	83.71	ACTIVE	0.000	-4.900	9.000	1.000
1.000	53.54	0.000	0.000	5AL_158_160_L_0							
100 D	2.711	-4.3935E-03	141.6	44.73	141.6	83.98	ACTIVE	0.000	-4.950	9.500	1.000
1.000	54.23	0.000	0.000	5AL_158_160_L_0							
101 D	2.745	-4.1253E-03	142.0	44.91	142.0	84.25	ACTIVE	0.000	-5.000	10.00	1.000
1.000	54.91	0.000	0.000	5AL_158_160_L_0							
102 D	2.780	-3.8666E-03	142.5	45.09	142.5	84.52	ACTIVE	0.000	-5.050	10.50	1.000
1.000	55.59	0.000	0.000	5AL_158_160_L_0							
103 D	2.814	-3.6173E-03	142.9	45.27	142.9	84.78	ACTIVE	0.000	-5.100	11.00	1.000
1.000	56.27	0.000	0.000	5AL_158_160_L_0							
104 D	2.848	-3.3775E-03	143.4	45.46	143.4	85.05	ACTIVE	0.000	-5.150	11.50	1.000
1.000	56.96	0.000	0.000	5AL_158_160_L_0							
105 D	2.882	-3.1471E-03	143.8	45.64	143.8	85.32	ACTIVE	0.000	-5.200	12.00	1.000
1.000	57.64	0.000	0.000	5AL_158_160_L_0							
106 D	2.916	-2.9260E-03	144.3	45.82	144.3	85.58	ACTIVE	0.000	-5.250	12.50	1.000
1.000	58.32	0.000	0.000	5AL_158_160_L_0							
107 D	2.950	-2.7142E-03	144.7	46.00	144.7	85.85	ACTIVE	0.000	-5.300	13.00	1.000
1.000	59.00	0.000	0.000	5AL_158_160_L_0							
108 D	2.984	-2.5115E-03	145.2	46.19	145.2	86.12	ACTIVE	0.000	-5.350	13.50	1.000
1.000	59.69	0.000	0.000	5AL_158_160_L_0							
109 D	3.019	-2.3180E-03	145.6	46.37	145.6	86.38	ACTIVE	0.000	-5.400	14.00	1.000
1.000	60.37	0.000	0.000	5AL_158_160_L_0							
110 D	3.053	-2.1334E-03	146.1	46.55	146.1	86.65	ACTIVE	0.000	-5.450	14.50	1.000
1.000	61.05	0.000	0.000	5AL_158_160_L_0							
111 D	3.087	-1.9578E-03	146.5	46.74	146.5	87.10	ACTIVE	0.000	-5.500	15.00	1.000
1.000	61.74	0.000	0.000	5AL_158_160_L_0							
112 D	3.121	-1.7910E-03	147.0	46.92	147.0	88.82	ACTIVE	0.000	-5.550	15.50	1.000
1.000	62.42	0.000	0.000	5AL_158_160_L_0							
113 D	3.155	-1.6327E-03	147.4	47.10	147.4	90.26	ACTIVE	0.000	-5.600	16.00	1.000
1.000	63.10	0.000	0.000	5AL_158_160_L_0							
114 D	3.189	-1.4830E-03	147.9	47.28	147.9	91.43	ACTIVE	0.000	-5.650	16.50	1.000
1.000	63.78	0.000	0.000	5AL_158_160_L_0							
115 D	3.223	-1.3416E-03	148.3	47.47	148.3	92.37	ACTIVE	0.000	-5.700	17.00	1.000
1.000	64.47	0.000	0.000	5AL_158_160_L_0							
116 D	3.257	-1.2084E-03	148.8	47.65	148.8	93.09	ACTIVE	0.000	-5.750	17.50	1.000
1.000	65.15	0.000	0.000	5AL_158_160_L_0							
117 D	3.292	-1.0832E-03	149.2	47.83	149.2	93.61	ACTIVE	0.000	-5.800	18.00	1.000
1.000	65.83	0.000	0.000	5AL_158_160_L_0							
118 D	3.326	-9.6575E-04	149.7	48.01	149.7	93.95	ACTIVE	0.000	-5.850	18.50	1.000
1.000	66.51	0.000	0.000	5AL_158_160_L_0							
119 D	3.360	-8.5589E-04	150.1	48.20	150.1	94.13	ACTIVE	0.000	-5.900	19.00	1.000
1.000	67.20	0.000	0.000	5AL_158_160_L_0							
120 D	3.394	-7.5341E-04	150.6	48.38	150.6	94.17	ACTIVE	0.000	-5.950	19.50	1.000
1.000	67.88	0.000	0.000	5AL_158_160_L_0							
121 D	3.428	-6.5806E-04	151.0	48.56	151.0	94.08	ACTIVE	0.000	-6.000	20.00	1.000
1.000	68.56	0.000	0.000	5AL_158_160_L_0							
122 D	3.462	-5.6963E-04	151.5	48.75	151.5	93.88	ACTIVE	0.000	-6.050	20.50	1.000
1.000	69.25	0.000	0.000	5AL_158_160_L_0							
123 D	3.496	-4.8788E-04	151.9	48.93	151.9	93.58	ACTIVE	0.000	-6.100	21.00	1.000
1.000	69.93	0.000	0.000	5AL_158_160_L_0							
124 D	3.531	-4.1255E-04	152.4	49.11	152.4	94.81	ACTIVE	0.000	-6.150	21.50	1.000
1.000	70.61	0.000	0.000	5AL_158_160_L_0							
125 D	3.565	-3.4340E-04	152.8	49.29	152.8	96.05	ACTIVE	0.000	-6.200	22.00	1.000
1.000	71.29	0.000	0.000	5AL_158_160_L_0							
126 D	3.599	-2.8017E-04	153.3	49.48	153.3	97.04	ACTIVE	0.000	-6.250	22.50	1.000
1.000	71.98	0.000	0.000	5AL_158_160_L_0							
127 D	3.633	-2.2260E-04	153.7	49.66	153.7	97.80	ACTIVE	0.000	-6.300	23.00	1.000
1.000	72.66	0.000	0.000	5AL_158_160_L_0							
128 D	3.667	-1.7045E-04	154.2	49.84	154.2	98.35	ACTIVE	0.000	-6.350	23.50	1.000
1.000	73.34	0.000	0.000	5AL_158_160_L_0							
129 D	3.897	-1.2343E-04	154.6	53.95	154.6	98.70	UL-RL	1.4716E+05	-6.400	24.00	1.000
1.000	77.95	0.000	0.000	5AL_158_160_L_0							
130 D	4.248	-8.1285E-05	155.1	60.47	155.1	98.89	UL-RL	1.4716E+05	-6.450	24.50	1.000
1.000	84.97	0.000	0.000	5AL_158_160_L_0							
131 D	4.570	-4.3752E-05	155.5	66.40	155.5	98.92	UL-RL	1.4716E+05	-6.500	25.00	1.000
1.000	91.40	0.000	0.000	5AL_158_160_L_0							
132 D	4.864	-1.0567E-05	156.0	71.77	156.0	98.81	UL-RL	1.4716E+05	-6.550	25.50	1.000
1.000	97.27	0.000	0.000	5AL_158_160_L_0							
133 D	5.131	1.8533E-05	156.4	76.62	156.4	98.59	UL-RL	1.4716E+05	-6.600	26.00	1.000
1.000	102.6	0.000	0.000	5AL_158_160_L_0							
134 D	5.373	4.3805E-05	156.9	80.96	156.9	98.26	UL-RL	1.4716E+05	-6.650	26.50	1.000
1.000	107.5	0.000	0.000	5AL_158_160_L_0							
135 D	5.565	6.5502E-05	157.3	84.31	157.3	98.72	UL-RL	1.4716E+05	-6.700	27.00	1.000
1.000	111.3	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI				COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOLLIO	
RELAZIONE DI CALCOLO				L100	01	D 09CL	VI0100 004	A	325 di 401	
136 D	5.728	8.3871E-05	157.8	87.06	157.8	99.35	UL-RL 1.4716E+05	-6.750	27.50	1.000
1.000	114.6	0.000	0.000	5AL_158_160_L_0						
137 D	5.873	9.9152E-05	158.2	89.46	158.2	99.80	UL-RL 1.4716E+05	-6.800	28.00	1.000
1.000	117.5	0.000	0.000	5AL_158_160_L_0						
138 D	6.003	1.1158E-04	158.7	91.56	158.7	100.1	UL-RL 1.4716E+05	-6.850	28.50	1.000
1.000	120.1	0.000	0.000	5AL_158_160_L_0						
139 D	6.118	1.2137E-04	159.1	93.36	159.1	100.2	UL-RL 1.4716E+05	-6.900	29.00	1.000
1.000	122.4	0.000	0.000	5AL_158_160_L_0						
140 D	6.219	1.2875E-04	159.6	94.88	159.6	100.2	UL-RL 1.4716E+05	-6.950	29.50	1.000
1.000	124.4	0.000	0.000	5AL_158_160_L_0						
141 D	6.308	1.3393E-04	160.0	96.16	160.0	100.0	UL-RL 1.4716E+05	-7.000	30.00	1.000
1.000	126.2	0.000	0.000	5AL_158_160_L_0						
142 D	6.385	1.3710E-04	160.5	97.20	160.5	99.77	UL-RL 1.4716E+05	-7.050	30.50	1.000
1.000	127.7	0.000	0.000	5AL_158_160_L_0						
143 D	6.452	1.3845E-04	160.9	98.04	160.9	99.42	UL-RL 1.4716E+05	-7.100	31.00	1.000
1.000	129.0	0.000	0.000	5AL_158_160_L_0						
144 D	6.495	1.3817E-04	161.4	98.40	161.4	99.45	UL-RL 1.4716E+05	-7.150	31.50	1.000
1.000	129.9	0.000	0.000	5AL_158_160_L_0						
145 D	6.530	1.3643E-04	161.8	98.60	161.8	99.40	UL-RL 1.4716E+05	-7.200	32.00	1.000
1.000	130.6	0.000	0.000	5AL_158_160_L_0						
146 D	6.559	1.3338E-04	162.3	98.68	162.3	99.25	UL-RL 1.4716E+05	-7.250	32.50	1.000
1.000	131.2	0.000	0.000	5AL_158_160_L_0						
147 D	6.582	1.2919E-04	162.7	98.64	162.7	99.00	UL-RL 1.4716E+05	-7.300	33.00	1.000
1.000	131.6	0.000	0.000	5AL_158_160_L_0						
148 D	6.600	1.2399E-04	163.2	98.50	163.2	98.67	UL-RL 1.4716E+05	-7.350	33.50	1.000
1.000	132.0	0.000	0.000	5AL_158_160_L_0						
149 D	6.613	1.1792E-04	163.6	98.27	163.6	98.27	UL-RL 1.4716E+05	-7.400	34.00	1.000
1.000	132.3	0.000	0.000	5AL_158_160_L_0						
150 D	6.620	1.1110E-04	164.1	97.91	164.1	97.91	V-C 9.1974E+04	-7.450	34.50	1.000
1.000	132.4	0.000	0.000	5AL_158_160_L_0						
151 D	6.621	1.0366E-04	164.5	97.43	164.5	97.60	UL-RL 1.4716E+05	-7.500	35.00	1.000
1.000	132.4	0.000	0.000	5AL_158_160_L_0						
152 D	6.601	9.5695E-05	165.0	96.52	165.0	97.86	UL-RL 1.4716E+05	-7.550	35.50	1.000
1.000	132.0	0.000	0.000	5AL_158_160_L_0						
153 D	6.578	8.7309E-05	165.4	95.56	165.4	98.13	UL-RL 1.4716E+05	-7.600	36.00	1.000
1.000	131.6	0.000	0.000	5AL_158_160_L_0						
154 D	6.552	7.8593E-05	165.9	94.54	165.9	98.40	UL-RL 1.4716E+05	-7.650	36.50	1.000
1.000	131.0	0.000	0.000	5AL_158_160_L_0						
155 D	6.524	6.9631E-05	166.3	93.49	166.3	98.67	UL-RL 1.4716E+05	-7.700	37.00	1.000
1.000	130.5	0.000	0.000	5AL_158_160_L_0						
156 D	6.496	6.0498E-05	166.8	92.41	166.8	98.93	UL-RL 1.4716E+05	-7.750	37.50	1.000
1.000	129.9	0.000	0.000	5AL_158_160_L_0						
157 D	6.466	5.1264E-05	167.2	91.32	167.2	99.20	UL-RL 1.4716E+05	-7.800	38.00	1.000
1.000	129.3	0.000	0.000	5AL_158_160_L_0						
158 D	6.436	4.1990E-05	167.7	90.22	167.7	99.47	UL-RL 1.4716E+05	-7.850	38.50	1.000
1.000	128.7	0.000	0.000	5AL_158_160_L_0						
159 D	6.406	3.2733E-05	168.1	89.13	168.1	99.73	UL-RL 1.4716E+05	-7.900	39.00	1.000
1.000	128.1	0.000	0.000	5AL_158_160_L_0						
160 D	6.377	2.3541E-05	168.6	88.04	168.6	100.0	UL-RL 1.4716E+05	-7.950	39.50	1.000
1.000	127.5	0.000	0.000	5AL_158_160_L_0						
161 D	6.349	1.4458E-05	169.0	86.97	169.0	100.3	UL-RL 1.4716E+05	-8.000	40.00	1.000
1.000	127.0	0.000	0.000	5AL_158_160_L_0						
162 D	6.321	5.5218E-06	169.5	85.92	169.5	100.5	UL-RL 1.4716E+05	-8.050	40.50	1.000
1.000	126.4	0.000	0.000	5AL_158_160_L_0						
163 D	6.295	-3.2342E-06	169.9	84.90	169.9	100.8	UL-RL 1.4716E+05	-8.100	41.00	1.000
1.000	125.9	0.000	0.000	5AL_158_160_L_0						
164 D	6.271	-1.1782E-05	170.4	83.91	170.4	101.1	UL-RL 1.4716E+05	-8.150	41.50	1.000
1.000	125.4	0.000	0.000	5AL_158_160_L_0						
165 D	6.248	-2.0099E-05	170.8	82.95	170.8	101.3	UL-RL 1.4716E+05	-8.200	42.00	1.000
1.000	125.0	0.000	0.000	5AL_158_160_L_0						
166 D	6.227	-2.8165E-05	171.3	82.03	171.3	101.6	UL-RL 1.4716E+05	-8.250	42.50	1.000
1.000	124.5	0.000	0.000	5AL_158_160_L_0						
167 D	6.208	-3.5964E-05	171.7	81.15	171.7	101.9	UL-RL 1.4716E+05	-8.300	43.00	1.000
1.000	124.2	0.000	0.000	5AL_158_160_L_0						
168 D	6.191	-4.3486E-05	172.2	80.31	172.2	102.1	UL-RL 1.4716E+05	-8.350	43.50	1.000
1.000	123.8	0.000	0.000	5AL_158_160_L_0						
169 D	6.176	-5.0721E-05	172.6	79.51	172.6	102.4	UL-RL 1.4716E+05	-8.400	44.00	1.000
1.000	123.5	0.000	0.000	5AL_158_160_L_0						
170 D	6.163	-5.7665E-05	173.1	78.76	173.1	102.7	UL-RL 1.4716E+05	-8.450	44.50	1.000
1.000	123.3	0.000	0.000	5AL_158_160_L_0						
171 D	6.152	-6.4314E-05	173.5	78.05	173.5	102.9	UL-RL 1.4716E+05	-8.500	45.00	1.000
1.000	123.0	0.000	0.000	5AL_158_160_L_0						
172 D	6.144	-7.0668E-05	174.0	77.38	174.0	103.2	UL-RL 1.4716E+05	-8.550	45.50	1.000
1.000	122.9	0.000	0.000	5AL_158_160_L_0						
173 D	6.138	-7.6730E-05	174.4	76.76	174.4	103.5	UL-RL 1.4716E+05	-8.600	46.00	1.000
1.000	122.8	0.000	0.000	5AL_158_160_L_0						
174 D	6.134	-8.2504E-05	174.9	76.17	174.9	103.7	UL-RL 1.4716E+05	-8.650	46.50	1.000
1.000	122.7	0.000	0.000	5AL_158_160_L_0						
175 D	6.132	-8.7996E-05	175.3	75.63	175.3	104.0	UL-RL 1.4716E+05	-8.700	47.00	1.000
1.000	122.6	0.000	0.000	5AL_158_160_L_0						
176 D	6.132	-9.3214E-05	175.8	75.13	175.8	104.3	UL-RL 1.4716E+05	-8.750	47.50	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VD100 004	A	326 di 401

1.000	122.6	0.000	0.000	5AL_158_160_L_0							
177 D	6.133	-9.8166E-05	176.2	74.67	176.2	104.5	UL-RL	1.4716E+05	-8.800	48.00	1.000
1.000	122.7	0.000	0.000	5AL_158_160_L_0							
178 D	6.137	-1.0286E-04	176.7	74.24	176.7	104.8	UL-RL	1.4716E+05	-8.850	48.50	1.000
1.000	122.7	0.000	0.000	5AL_158_160_L_0							
179 D	6.143	-1.0732E-04	177.1	73.86	177.1	105.1	UL-RL	1.4716E+05	-8.900	49.00	1.000
1.000	122.9	0.000	0.000	5AL_158_160_L_0							
180 D	6.150	-1.1154E-04	177.6	73.50	177.6	105.3	UL-RL	1.4716E+05	-8.950	49.50	1.000
1.000	123.0	0.000	0.000	5AL_158_160_L_0							
181 D	6.159	-1.1555E-04	178.0	73.18	178.0	105.6	UL-RL	1.4716E+05	-9.000	50.00	1.000
1.000	123.2	0.000	0.000	5AL_158_160_L_0							
182 D	6.169	-1.1935E-04	178.5	72.89	178.5	105.9	UL-RL	1.4716E+05	-9.050	50.50	1.000
1.000	123.4	0.000	0.000	5AL_158_160_L_0							
183 D	6.181	-1.2296E-04	178.9	72.62	178.9	106.1	UL-RL	1.4716E+05	-9.100	51.00	1.000
1.000	123.6	0.000	0.000	5AL_158_160_L_0							
184 D	6.194	-1.2639E-04	179.4	72.38	179.4	106.4	UL-RL	1.4716E+05	-9.150	51.50	1.000
1.000	123.9	0.000	0.000	5AL_158_160_L_0							
185 D	6.208	-1.2967E-04	179.8	72.17	179.8	106.7	UL-RL	1.4716E+05	-9.200	52.00	1.000
1.000	124.2	0.000	0.000	5AL_158_160_L_0							
186 D	6.224	-1.3279E-04	180.3	71.98	180.3	106.9	UL-RL	1.4716E+05	-9.250	52.50	1.000
1.000	124.5	0.000	0.000	5AL_158_160_L_0							
187 D	6.240	-1.3579E-04	180.7	71.80	180.7	107.2	UL-RL	1.4716E+05	-9.300	53.00	1.000
1.000	124.8	0.000	0.000	5AL_158_160_L_0							
188 D	6.257	-1.3866E-04	181.2	71.65	181.2	107.5	UL-RL	1.4716E+05	-9.350	53.50	1.000
1.000	125.1	0.000	0.000	5AL_158_160_L_0							
189 D	6.275	-1.4143E-04	181.6	71.51	181.6	107.7	UL-RL	1.4716E+05	-9.400	54.00	1.000
1.000	125.5	0.000	0.000	5AL_158_160_L_0							
190 D	6.294	-1.4411E-04	182.1	71.38	182.1	108.0	UL-RL	1.4716E+05	-9.450	54.50	1.000
1.000	125.9	0.000	0.000	5AL_158_160_L_0							
191 D	6.313	-1.4670E-04	182.5	71.26	182.5	108.3	UL-RL	1.4716E+05	-9.500	55.00	1.000
1.000	126.3	0.000	0.000	5AL_158_160_L_0							
192 D	6.333	-1.4924E-04	183.0	71.16	183.0	108.5	UL-RL	1.4716E+05	-9.550	55.50	1.000
1.000	126.7	0.000	0.000	5AL_158_160_L_0							
193 D	6.353	-1.5171E-04	183.4	71.06	183.4	108.8	UL-RL	1.4716E+05	-9.600	56.00	1.000
1.000	127.1	0.000	0.000	5AL_158_160_L_0							
194 D	6.374	-1.5414E-04	183.9	70.97	183.9	109.1	UL-RL	1.4716E+05	-9.650	56.50	1.000
1.000	127.5	0.000	0.000	5AL_158_160_L_0							
195 D	6.394	-1.5654E-04	184.3	70.88	184.3	109.3	UL-RL	1.4716E+05	-9.700	57.00	1.000
1.000	127.9	0.000	0.000	5AL_158_160_L_0							
196 D	6.415	-1.5891E-04	184.8	70.80	184.8	109.6	UL-RL	1.4716E+05	-9.750	57.50	1.000
1.000	128.3	0.000	0.000	5AL_158_160_L_0							
197 D	6.436	-1.6126E-04	185.2	70.72	185.2	109.9	UL-RL	1.4716E+05	-9.800	58.00	1.000
1.000	128.7	0.000	0.000	5AL_158_160_L_0							
198 D	6.457	-1.6360E-04	185.7	70.65	185.7	110.1	UL-RL	1.4716E+05	-9.850	58.50	1.000
1.000	129.1	0.000	0.000	5AL_158_160_L_0							
199 D	6.479	-1.6594E-04	186.1	70.57	186.1	110.4	UL-RL	1.4716E+05	-9.900	59.00	1.000
1.000	129.6	0.000	0.000	5AL_158_160_L_0							
200 D	6.498	-1.6826E-04	186.6	70.49	186.6	110.7	UL-RL	1.4716E+05	-9.950	59.50	1.000
1.000	130.0	0.000	0.000	5AL_158_160_L_0							
201 D	3.259	-1.7059E-04	187.0	70.42	187.0	110.9	UL-RL	1.4716E+05	-10.00	60.00	1.000
1.000	130.4	0.000	0.000	5AL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	327 di 401

RELAZIONE DI CALCOLO

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_20.SISMICASTR_986
Exe Time :21 June 2016 11:57:46

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

O R
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
UFACTOR	Peq		Su_a	Su_p	LAYER						
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-5.0000E-02	0.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.1000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.1500	0.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.2500	0.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-0.3000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.3500	0.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.4500	0.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-0.5000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.5500	0.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.6500	0.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-0.7000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.7500	0.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.8500	0.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--	-0.9000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.9500	0.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--	-1.000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.050	0.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--	-1.100	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.150	0.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.250	0.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--	-1.300	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-1.350	0.000	1.000
15	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
16	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
17	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
18	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
19	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
20	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
21	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
22	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
23	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
24	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
25	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
26	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
27	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
28	0.000	--	--	--	--	--	REMOVED	--			

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	328 di 401

1.000	0.000	0.000	0.000	not available							
29	0.000	--	--	--	--	REMOVED	--	-1.400	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
30	0.000	--	--	--	--	REMOVED	--	-1.450	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
31	0.000	--	--	--	--	REMOVED	--	-1.500	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
32	0.000	--	--	--	--	REMOVED	--	-1.550	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
33	0.000	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
34	0.000	--	--	--	--	REMOVED	--	-1.650	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
35	0.000	--	--	--	--	REMOVED	--	-1.700	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
36	0.000	--	--	--	--	REMOVED	--	-1.750	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
37	0.000	--	--	--	--	REMOVED	--	-1.800	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
38	0.000	--	--	--	--	REMOVED	--	-1.850	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
39	0.000	--	--	--	--	REMOVED	--	-1.900	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
40	0.000	--	--	--	--	REMOVED	--	-1.950	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
41	0.000	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
42	0.000	--	--	--	--	REMOVED	--	-2.050	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
43	0.000	--	--	--	--	REMOVED	--	-2.100	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
44	0.000	--	--	--	--	REMOVED	--	-2.150	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
45	0.000	--	--	--	--	REMOVED	--	-2.200	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
46	0.000	--	--	--	--	REMOVED	--	-2.250	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
47	0.000	--	--	--	--	REMOVED	--	-2.300	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
48	0.000	--	--	--	--	REMOVED	--	-2.350	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
49	0.000	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
50	0.000	--	--	--	--	REMOVED	--	-2.450	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
51	0.000	--	--	--	--	REMOVED	--	-2.500	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
52	0.000	--	--	--	--	REMOVED	--	-2.550	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
53	0.000	--	--	--	--	REMOVED	--	-2.600	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
54	0.000	--	--	--	--	REMOVED	--	-2.650	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
55	0.000	--	--	--	--	REMOVED	--	-2.700	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
56	0.000	--	--	--	--	REMOVED	--	-2.750	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
57	0.000	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
58	0.000	--	--	--	--	REMOVED	--	-2.850	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
59	0.000	--	--	--	--	REMOVED	--	-2.900	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
60	0.000	--	--	--	--	REMOVED	--	-2.950	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
61	0.000	--	--	--	--	REMOVED	--	-3.000	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
62	0.000	--	--	--	--	REMOVED	--	-3.050	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
63	0.000	--	--	--	--	REMOVED	--	-3.100	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
64	0.000	--	--	--	--	REMOVED	--	-3.150	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
65	0.000	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
66 D	2.004	1.8737E-02	0.9500	40.08	61.75	48.02	PASSIVE	0.000	-3.250	0.000	1.000
1.000	40.08	0.000	0.000	5AL_158_160_L_0							
67 D	2.165	1.8193E-02	1.900	43.31	62.70	48.58	PASSIVE	0.000	-3.300	0.000	1.000
1.000	43.31	0.000	0.000	5AL_158_160_L_0							
68 D	2.327	1.7655E-02	2.850	46.53	63.65	49.15	PASSIVE	0.000	-3.350	0.000	1.000
1.000	46.53	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	329 di 401

69 D	2.488	1.7123E-02	3.800	49.76	64.60	49.76	PASSIVE	0.000	-3.400	0.000	1.000
1.000	49.76	0.000	0.000	5AL_158_160_L_0							
70 D	2.649	1.6596E-02	4.750	52.99	65.55	52.99	PASSIVE	0.000	-3.450	0.000	1.000
1.000	52.99	0.000	0.000	5AL_158_160_L_0							
71 D	2.811	1.6076E-02	5.700	56.21	66.50	56.21	PASSIVE	0.000	-3.500	0.000	1.000
1.000	56.21	0.000	0.000	5AL_158_160_L_0							
72 D	2.972	1.5562E-02	6.650	59.44	67.45	59.44	PASSIVE	0.000	-3.550	0.000	1.000
1.000	59.44	0.000	0.000	5AL_158_160_L_0							
73 D	3.133	1.5055E-02	7.600	62.67	68.40	62.67	PASSIVE	0.000	-3.600	0.000	1.000
1.000	62.67	0.000	0.000	5AL_158_160_L_0							
74 D	3.295	1.4554E-02	8.550	65.89	69.35	65.89	PASSIVE	0.000	-3.650	0.000	1.000
1.000	65.89	0.000	0.000	5AL_158_160_L_0							
75 D	3.456	1.4061E-02	9.500	69.12	70.30	69.12	PASSIVE	0.000	-3.700	0.000	1.000
1.000	69.12	0.000	0.000	5AL_158_160_L_0							
76 D	3.617	1.3574E-02	10.45	72.34	71.25	72.34	PASSIVE	0.000	-3.750	0.000	1.000
1.000	72.34	0.000	0.000	5AL_158_160_L_0							
77 D	3.779	1.3095E-02	11.40	75.57	72.20	75.57	PASSIVE	0.000	-3.800	0.000	1.000
1.000	75.57	0.000	0.000	5AL_158_160_L_0							
78 D	3.940	1.2623E-02	12.35	78.80	73.15	78.80	PASSIVE	0.000	-3.850	0.000	1.000
1.000	78.80	0.000	0.000	5AL_158_160_L_0							
79 D	4.101	1.2159E-02	13.30	82.02	74.10	82.02	PASSIVE	0.000	-3.900	0.000	1.000
1.000	82.02	0.000	0.000	5AL_158_160_L_0							
80 D	4.262	1.1702E-02	14.25	85.25	75.05	85.25	PASSIVE	0.000	-3.950	0.000	1.000
1.000	85.25	0.000	0.000	5AL_158_160_L_0							
81 D	4.424	1.1253E-02	15.20	88.48	76.00	88.48	PASSIVE	0.000	-4.000	0.000	1.000
1.000	88.48	0.000	0.000	5AL_158_160_L_0							
82 D	4.525	1.0813E-02	15.65	90.00	76.45	90.00	PASSIVE	0.000	-4.050	0.5000	1.000
1.000	90.50	0.000	0.000	5AL_158_160_L_0							
83 D	4.627	1.0381E-02	16.10	91.53	76.90	91.53	PASSIVE	0.000	-4.100	1.000	1.000
1.000	92.53	0.000	0.000	5AL_158_160_L_0							
84 D	4.728	9.9567E-03	16.55	93.06	77.35	93.06	PASSIVE	0.000	-4.150	1.500	1.000
1.000	94.56	0.000	0.000	5AL_158_160_L_0							
85 D	4.829	9.5412E-03	17.00	94.59	77.80	94.59	PASSIVE	0.000	-4.200	2.000	1.000
1.000	96.59	0.000	0.000	5AL_158_160_L_0							
86 D	4.931	9.1344E-03	17.45	96.12	78.25	96.12	PASSIVE	0.000	-4.250	2.500	1.000
1.000	98.62	0.000	0.000	5AL_158_160_L_0							
87 D	5.032	8.7363E-03	17.90	97.64	78.70	97.64	PASSIVE	0.000	-4.300	3.000	1.000
1.000	100.6	0.000	0.000	5AL_158_160_L_0							
88 D	5.134	8.3470E-03	18.35	99.17	79.15	99.17	PASSIVE	0.000	-4.350	3.500	1.000
1.000	102.7	0.000	0.000	5AL_158_160_L_0							
89 D	5.235	7.9666E-03	18.80	100.7	79.60	100.7	PASSIVE	0.000	-4.400	4.000	1.000
1.000	104.7	0.000	0.000	5AL_158_160_L_0							
90 D	5.336	7.5953E-03	19.25	102.2	80.05	102.2	PASSIVE	0.000	-4.450	4.500	1.000
1.000	106.7	0.000	0.000	5AL_158_160_L_0							
91 D	5.438	7.2331E-03	19.70	103.8	80.50	103.8	PASSIVE	0.000	-4.500	5.000	1.000
1.000	108.8	0.000	0.000	5AL_158_160_L_0							
92 D	5.539	6.8801E-03	20.15	105.3	80.95	105.3	PASSIVE	0.000	-4.550	5.500	1.000
1.000	110.8	0.000	0.000	5AL_158_160_L_0							
93 D	5.641	6.5364E-03	20.60	106.8	81.40	106.8	PASSIVE	0.000	-4.600	6.000	1.000
1.000	112.8	0.000	0.000	5AL_158_160_L_0							
94 D	5.742	6.2019E-03	21.05	108.3	81.85	108.3	PASSIVE	0.000	-4.650	6.500	1.000
1.000	114.8	0.000	0.000	5AL_158_160_L_0							
95 D	5.844	5.8769E-03	21.50	109.9	82.30	109.9	PASSIVE	0.000	-4.700	7.000	1.000
1.000	116.9	0.000	0.000	5AL_158_160_L_0							
96 D	5.945	5.5613E-03	21.95	111.4	82.75	111.4	PASSIVE	0.000	-4.750	7.500	1.000
1.000	118.9	0.000	0.000	5AL_158_160_L_0							
97 D	6.046	5.2551E-03	22.40	112.9	83.20	112.9	PASSIVE	0.000	-4.800	8.000	1.000
1.000	120.9	0.000	0.000	5AL_158_160_L_0							
98 D	6.148	4.9584E-03	22.85	114.5	83.65	114.5	PASSIVE	0.000	-4.850	8.500	1.000
1.000	123.0	0.000	0.000	5AL_158_160_L_0							
99 D	6.249	4.6712E-03	23.30	116.0	84.10	116.0	PASSIVE	0.000	-4.900	9.000	1.000
1.000	125.0	0.000	0.000	5AL_158_160_L_0							
100 D	6.351	4.3935E-03	23.75	117.5	84.55	117.5	PASSIVE	0.000	-4.950	9.500	1.000
1.000	127.0	0.000	0.000	5AL_158_160_L_0							
101 D	6.452	4.1253E-03	24.20	119.0	85.00	119.0	PASSIVE	0.000	-5.000	10.00	1.000
1.000	129.0	0.000	0.000	5AL_158_160_L_0							
102 D	6.553	3.8666E-03	24.65	120.6	85.45	120.6	PASSIVE	0.000	-5.050	10.50	1.000
1.000	131.1	0.000	0.000	5AL_158_160_L_0							
103 D	6.655	3.6173E-03	25.10	122.1	85.90	122.1	PASSIVE	0.000	-5.100	11.00	1.000
1.000	133.1	0.000	0.000	5AL_158_160_L_0							
104 D	6.756	3.3775E-03	25.55	123.6	86.35	123.6	PASSIVE	0.000	-5.150	11.50	1.000
1.000	135.1	0.000	0.000	5AL_158_160_L_0							
105 D	6.858	3.1471E-03	26.00	125.2	86.80	125.2	PASSIVE	0.000	-5.200	12.00	1.000
1.000	137.2	0.000	0.000	5AL_158_160_L_0							
106 D	6.959	2.9260E-03	26.45	126.7	87.25	126.7	PASSIVE	0.000	-5.250	12.50	1.000
1.000	139.2	0.000	0.000	5AL_158_160_L_0							
107 D	7.060	2.7142E-03	26.90	128.2	87.70	128.2	PASSIVE	0.000	-5.300	13.00	1.000
1.000	141.2	0.000	0.000	5AL_158_160_L_0							
108 D	7.162	2.5115E-03	27.35	129.7	88.15	129.7	PASSIVE	0.000	-5.350	13.50	1.000
1.000	143.2	0.000	0.000	5AL_158_160_L_0							
109 D	7.263	2.3180E-03	27.80	131.3	88.60	131.3	PASSIVE	0.000	-5.400	14.00	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	330 di 401

1.000	145.3	0.000	0.000	5AL_158_160_L_0							
110 D	7.365	2.1334E-03	28.25	132.8	89.05	132.8	PASSIVE	0.000	-5.450	14.50	1.000
1.000	147.3	0.000	0.000	5AL_158_160_L_0							
111 D	7.466	1.9578E-03	28.70	134.3	89.50	134.3	PASSIVE	0.000	-5.500	15.00	1.000
1.000	149.3	0.000	0.000	5AL_158_160_L_0							
112 D	7.568	1.7910E-03	29.15	135.8	89.95	135.8	PASSIVE	0.000	-5.550	15.50	1.000
1.000	151.4	0.000	0.000	5AL_158_160_L_0							
113 D	7.669	1.6327E-03	29.60	137.4	90.40	137.4	PASSIVE	0.000	-5.600	16.00	1.000
1.000	153.4	0.000	0.000	5AL_158_160_L_0							
114 D	7.770	1.4830E-03	30.05	138.9	90.85	138.9	PASSIVE	0.000	-5.650	16.50	1.000
1.000	155.4	0.000	0.000	5AL_158_160_L_0							
115 D	7.872	1.3416E-03	30.50	140.4	91.30	140.4	PASSIVE	0.000	-5.700	17.00	1.000
1.000	157.4	0.000	0.000	5AL_158_160_L_0							
116 D	7.786	1.2084E-03	30.95	138.2	91.75	138.2	V-C	7.4657E+04	-5.750	17.50	1.000
1.000	155.7	0.000	0.000	5AL_158_160_L_0							
117 D	7.358	1.0832E-03	31.40	129.2	92.20	129.2	V-C	7.4657E+04	-5.800	18.00	1.000
1.000	147.2	0.000	0.000	5AL_158_160_L_0							
118 D	6.959	9.6575E-04	31.85	120.7	92.65	120.7	V-C	7.4657E+04	-5.850	18.50	1.000
1.000	139.2	0.000	0.000	5AL_158_160_L_0							
119 D	6.589	8.5589E-04	32.30	112.8	93.10	112.8	V-C	7.4657E+04	-5.900	19.00	1.000
1.000	131.8	0.000	0.000	5AL_158_160_L_0							
120 D	6.246	7.5341E-04	32.75	105.4	93.55	105.4	V-C	7.4657E+04	-5.950	19.50	1.000
1.000	124.9	0.000	0.000	5AL_158_160_L_0							
121 D	5.929	6.5806E-04	33.20	98.58	94.00	98.58	V-C	7.4657E+04	-6.000	20.00	1.000
1.000	118.6	0.000	0.000	5AL_158_160_L_0							
122 D	5.639	5.6963E-04	33.65	92.27	94.45	92.27	V-C	7.4657E+04	-6.050	20.50	1.000
1.000	112.8	0.000	0.000	5AL_158_160_L_0							
123 D	5.373	4.8788E-04	34.10	86.46	94.90	86.46	V-C	7.4657E+04	-6.100	21.00	1.000
1.000	107.5	0.000	0.000	5AL_158_160_L_0							
124 D	5.131	4.1255E-04	34.55	81.12	95.35	81.12	V-C	7.4657E+04	-6.150	21.50	1.000
1.000	102.6	0.000	0.000	5AL_158_160_L_0							
125 D	4.912	3.4340E-04	35.00	76.25	95.80	76.25	V-C	7.4657E+04	-6.200	22.00	1.000
1.000	98.25	0.000	0.000	5AL_158_160_L_0							
126 D	4.716	2.8017E-04	35.45	71.82	96.25	71.82	V-C	7.4657E+04	-6.250	22.50	1.000
1.000	94.32	0.000	0.000	5AL_158_160_L_0							
127 D	4.512	2.2260E-04	35.90	67.24	96.70	68.75	UL-RL	1.1945E+05	-6.300	23.00	1.000
1.000	90.24	0.000	0.000	5AL_158_160_L_0							
128 D	4.240	1.7045E-04	36.35	61.31	97.15	69.02	UL-RL	1.1945E+05	-6.350	23.50	1.000
1.000	84.81	0.000	0.000	5AL_158_160_L_0							
129 D	4.000	1.2343E-04	36.80	55.99	97.60	69.29	UL-RL	1.1945E+05	-6.400	24.00	1.000
1.000	79.99	0.000	0.000	5AL_158_160_L_0							
130 D	3.788	8.1285E-05	37.25	51.26	98.05	69.56	UL-RL	1.1945E+05	-6.450	24.50	1.000
1.000	75.76	0.000	0.000	5AL_158_160_L_0							
131 D	3.604	4.3752E-05	37.70	47.07	98.50	69.82	UL-RL	1.1945E+05	-6.500	25.00	1.000
1.000	72.07	0.000	0.000	5AL_158_160_L_0							
132 D	3.445	1.0567E-05	38.15	43.41	98.95	70.09	UL-RL	1.1945E+05	-6.550	25.50	1.000
1.000	68.91	0.000	0.000	5AL_158_160_L_0							
133 D	3.311	-1.8533E-05	38.60	40.23	99.40	70.36	UL-RL	1.1945E+05	-6.600	26.00	1.000
1.000	66.23	0.000	0.000	5AL_158_160_L_0							
134 D	3.200	-4.3805E-05	39.05	37.51	99.85	70.62	UL-RL	1.1945E+05	-6.650	26.50	1.000
1.000	64.01	0.000	0.000	5AL_158_160_L_0							
135 D	3.111	-6.5502E-05	39.50	35.21	100.3	70.89	UL-RL	1.1945E+05	-6.700	27.00	1.000
1.000	62.21	0.000	0.000	5AL_158_160_L_0							
136 D	3.041	-8.3871E-05	39.95	33.31	100.8	71.16	UL-RL	1.1945E+05	-6.750	27.50	1.000
1.000	60.81	0.000	0.000	5AL_158_160_L_0							
137 D	2.989	-9.9152E-05	40.40	31.78	101.2	71.42	UL-RL	1.1945E+05	-6.800	28.00	1.000
1.000	59.78	0.000	0.000	5AL_158_160_L_0							
138 D	2.955	-1.1158E-04	40.85	30.59	101.7	71.69	UL-RL	1.1945E+05	-6.850	28.50	1.000
1.000	59.10	0.000	0.000	5AL_158_160_L_0							
139 D	2.936	-1.2137E-04	41.30	29.72	102.1	71.96	UL-RL	1.1945E+05	-6.900	29.00	1.000
1.000	58.72	0.000	0.000	5AL_158_160_L_0							
140 D	2.932	-1.2875E-04	41.75	29.13	102.6	72.23	UL-RL	1.1945E+05	-6.950	29.50	1.000
1.000	58.63	0.000	0.000	5AL_158_160_L_0							
141 D	2.940	-1.3393E-04	42.20	28.81	103.0	72.49	UL-RL	1.1945E+05	-7.000	30.00	1.000
1.000	58.81	0.000	0.000	5AL_158_160_L_0							
142 D	2.961	-1.3710E-04	42.65	28.72	103.5	72.76	UL-RL	1.1945E+05	-7.050	30.50	1.000
1.000	59.22	0.000	0.000	5AL_158_160_L_0							
143 D	2.993	-1.3845E-04	43.10	28.86	103.9	73.03	UL-RL	1.1945E+05	-7.100	31.00	1.000
1.000	59.86	0.000	0.000	5AL_158_160_L_0							
144 D	3.034	-1.3817E-04	43.55	29.18	104.4	73.29	UL-RL	1.1945E+05	-7.150	31.50	1.000
1.000	60.68	0.000	0.000	5AL_158_160_L_0							
145 D	3.084	-1.3643E-04	44.00	29.68	104.8	73.56	UL-RL	1.1945E+05	-7.200	32.00	1.000
1.000	61.68	0.000	0.000	5AL_158_160_L_0							
146 D	3.142	-1.3338E-04	44.45	30.34	105.3	73.83	UL-RL	1.1945E+05	-7.250	32.50	1.000
1.000	62.84	0.000	0.000	5AL_158_160_L_0							
147 D	3.207	-1.2919E-04	44.90	31.13	105.7	74.09	UL-RL	1.1945E+05	-7.300	33.00	1.000
1.000	64.13	0.000	0.000	5AL_158_160_L_0							
148 D	3.277	-1.2399E-04	45.35	32.05	106.2	74.36	UL-RL	1.1945E+05	-7.350	33.50	1.000
1.000	65.55	0.000	0.000	5AL_158_160_L_0							
149 D	3.353	-1.1792E-04	45.80	33.06	106.6	74.63	UL-RL	1.1945E+05	-7.400	34.00	1.000
1.000	67.06	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	331 di 401

150 D	3.433	-1.1110E-04	46.25	34.17	107.1	74.90	UL-RL	1.1945E+05	-7.450	34.50	1.000
1.000	68.67	0.000	0.000	5AL_158_160_L_0							
151 D	3.517	-1.0366E-04	46.70	35.35	107.5	75.16	UL-RL	1.1945E+05	-7.500	35.00	1.000
1.000	70.35	0.000	0.000	5AL_158_160_L_0							
152 D	3.604	-9.5695E-05	47.15	36.59	108.0	75.43	UL-RL	1.1945E+05	-7.550	35.50	1.000
1.000	72.09	0.000	0.000	5AL_158_160_L_0							
153 D	3.694	-8.7309E-05	47.60	37.88	108.4	75.70	UL-RL	1.1945E+05	-7.600	36.00	1.000
1.000	73.88	0.000	0.000	5AL_158_160_L_0							
154 D	3.786	-7.8593E-05	48.05	39.21	108.9	75.96	UL-RL	1.1945E+05	-7.650	36.50	1.000
1.000	75.71	0.000	0.000	5AL_158_160_L_0							
155 D	3.879	-6.9631E-05	48.50	40.57	109.3	76.23	UL-RL	1.1945E+05	-7.700	37.00	1.000
1.000	77.57	0.000	0.000	5AL_158_160_L_0							
156 D	3.973	-6.0498E-05	48.95	41.95	109.8	76.50	UL-RL	1.1945E+05	-7.750	37.50	1.000
1.000	79.45	0.000	0.000	5AL_158_160_L_0							
157 D	4.067	-5.1264E-05	49.40	43.34	110.2	76.76	UL-RL	1.1945E+05	-7.800	38.00	1.000
1.000	81.34	0.000	0.000	5AL_158_160_L_0							
158 D	4.162	-4.1990E-05	49.85	44.74	110.7	77.03	UL-RL	1.1945E+05	-7.850	38.50	1.000
1.000	83.24	0.000	0.000	5AL_158_160_L_0							
159 D	4.257	-3.2733E-05	50.30	46.13	111.1	77.30	UL-RL	1.1945E+05	-7.900	39.00	1.000
1.000	85.13	0.000	0.000	5AL_158_160_L_0							
160 D	4.351	-2.3541E-05	50.75	47.52	111.6	77.56	UL-RL	1.1945E+05	-7.950	39.50	1.000
1.000	87.02	0.000	0.000	5AL_158_160_L_0							
161 D	4.445	-1.4458E-05	51.20	48.89	112.0	77.83	UL-RL	1.1945E+05	-8.000	40.00	1.000
1.000	88.89	0.000	0.000	5AL_158_160_L_0							
162 D	4.537	-5.5218E-06	51.65	50.25	112.5	78.10	UL-RL	1.1945E+05	-8.050	40.50	1.000
1.000	90.75	0.000	0.000	5AL_158_160_L_0							
163 D	4.629	3.2342E-06	52.10	51.58	112.9	78.37	UL-RL	1.1945E+05	-8.100	41.00	1.000
1.000	92.58	0.000	0.000	5AL_158_160_L_0							
164 D	4.719	1.1782E-05	52.55	52.89	113.4	78.63	UL-RL	1.1945E+05	-8.150	41.50	1.000
1.000	94.39	0.000	0.000	5AL_158_160_L_0							
165 D	4.808	2.0099E-05	53.00	54.17	113.8	78.90	UL-RL	1.1945E+05	-8.200	42.00	1.000
1.000	96.17	0.000	0.000	5AL_158_160_L_0							
166 D	4.896	2.8165E-05	53.45	55.42	114.3	79.17	UL-RL	1.1945E+05	-8.250	42.50	1.000
1.000	97.92	0.000	0.000	5AL_158_160_L_0							
167 D	4.982	3.5964E-05	53.90	56.64	114.7	79.43	UL-RL	1.1945E+05	-8.300	43.00	1.000
1.000	99.64	0.000	0.000	5AL_158_160_L_0							
168 D	5.066	4.3486E-05	54.35	57.82	115.2	79.70	UL-RL	1.1945E+05	-8.350	43.50	1.000
1.000	101.3	0.000	0.000	5AL_158_160_L_0							
169 D	5.149	5.0721E-05	54.80	58.97	115.6	79.97	UL-RL	1.1945E+05	-8.400	44.00	1.000
1.000	103.0	0.000	0.000	5AL_158_160_L_0							
170 D	5.229	5.7665E-05	55.25	60.09	116.1	80.23	UL-RL	1.1945E+05	-8.450	44.50	1.000
1.000	104.6	0.000	0.000	5AL_158_160_L_0							
171 D	5.308	6.4314E-05	55.70	61.17	116.5	80.50	UL-RL	1.1945E+05	-8.500	45.00	1.000
1.000	106.2	0.000	0.000	5AL_158_160_L_0							
172 D	5.386	7.0668E-05	56.15	62.21	117.0	80.77	UL-RL	1.1945E+05	-8.550	45.50	1.000
1.000	107.7	0.000	0.000	5AL_158_160_L_0							
173 D	5.461	7.6730E-05	56.60	63.22	117.4	81.04	UL-RL	1.1945E+05	-8.600	46.00	1.000
1.000	109.2	0.000	0.000	5AL_158_160_L_0							
174 D	5.535	8.2504E-05	57.05	64.19	117.9	81.30	UL-RL	1.1945E+05	-8.650	46.50	1.000
1.000	110.7	0.000	0.000	5AL_158_160_L_0							
175 D	5.607	8.7996E-05	57.50	65.14	118.3	81.57	UL-RL	1.1945E+05	-8.700	47.00	1.000
1.000	112.1	0.000	0.000	5AL_158_160_L_0							
176 D	5.677	9.3214E-05	57.95	66.04	118.8	81.84	UL-RL	1.1945E+05	-8.750	47.50	1.000
1.000	113.5	0.000	0.000	5AL_158_160_L_0							
177 D	5.746	9.8166E-05	58.40	66.92	119.2	82.10	UL-RL	1.1945E+05	-8.800	48.00	1.000
1.000	114.9	0.000	0.000	5AL_158_160_L_0							
178 D	5.813	1.0286E-04	58.85	67.76	119.7	82.37	UL-RL	1.1945E+05	-8.850	48.50	1.000
1.000	116.3	0.000	0.000	5AL_158_160_L_0							
179 D	5.879	1.0732E-04	59.30	68.58	120.1	82.64	UL-RL	1.1945E+05	-8.900	49.00	1.000
1.000	117.6	0.000	0.000	5AL_158_160_L_0							
180 D	5.943	1.1154E-04	59.75	69.37	120.6	82.90	UL-RL	1.1945E+05	-8.950	49.50	1.000
1.000	118.9	0.000	0.000	5AL_158_160_L_0							
181 D	6.007	1.1555E-04	60.20	70.13	121.0	83.17	UL-RL	1.1945E+05	-9.000	50.00	1.000
1.000	120.1	0.000	0.000	5AL_158_160_L_0							
182 D	6.068	1.1935E-04	60.65	70.87	121.5	83.44	UL-RL	1.1945E+05	-9.050	50.50	1.000
1.000	121.4	0.000	0.000	5AL_158_160_L_0							
183 D	6.129	1.2296E-04	61.10	71.58	121.9	83.71	UL-RL	1.1945E+05	-9.100	51.00	1.000
1.000	122.6	0.000	0.000	5AL_158_160_L_0							
184 D	6.189	1.2639E-04	61.55	72.28	122.4	83.97	UL-RL	1.1945E+05	-9.150	51.50	1.000
1.000	123.8	0.000	0.000	5AL_158_160_L_0							
185 D	6.247	1.2967E-04	62.00	72.95	122.8	84.24	UL-RL	1.1945E+05	-9.200	52.00	1.000
1.000	124.9	0.000	0.000	5AL_158_160_L_0							
186 D	6.305	1.3279E-04	62.45	73.60	123.3	84.51	UL-RL	1.1945E+05	-9.250	52.50	1.000
1.000	126.1	0.000	0.000	5AL_158_160_L_0							
187 D	6.362	1.3579E-04	62.90	74.24	123.7	84.77	UL-RL	1.1945E+05	-9.300	53.00	1.000
1.000	127.2	0.000	0.000	5AL_158_160_L_0							
188 D	6.419	1.3866E-04	63.35	74.87	124.2	85.04	UL-RL	1.1945E+05	-9.350	53.50	1.000
1.000	128.4	0.000	0.000	5AL_158_160_L_0							
189 D	6.474	1.4143E-04	63.80	75.48	124.6	85.31	UL-RL	1.1945E+05	-9.400	54.00	1.000
1.000	129.5	0.000	0.000	5AL_158_160_L_0							
190 D	6.529	1.4411E-04	64.25	76.09	125.1	85.57	UL-RL	1.1945E+05	-9.450	54.50	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	332 di 401

1.000	130.6	0.000	0.000	5AL_158_160_L_0							
191 D	6.584	1.4670E-04	64.70	76.68	125.5	85.84	UL-RL	1.1945E+05	-9.500	55.00	1.000
1.000	131.7	0.000	0.000	5AL_158_160_L_0							
192 D	6.638	1.4924E-04	65.15	77.26	126.0	86.11	UL-RL	1.1945E+05	-9.550	55.50	1.000
1.000	132.8	0.000	0.000	5AL_158_160_L_0							
193 D	6.692	1.5171E-04	65.60	77.84	126.4	86.38	UL-RL	1.1945E+05	-9.600	56.00	1.000
1.000	133.8	0.000	0.000	5AL_158_160_L_0							
194 D	6.746	1.5414E-04	66.05	78.41	126.9	86.64	UL-RL	1.1945E+05	-9.650	56.50	1.000
1.000	134.9	0.000	0.000	5AL_158_160_L_0							
195 D	6.799	1.5654E-04	66.50	78.98	127.3	86.91	UL-RL	1.1945E+05	-9.700	57.00	1.000
1.000	136.0	0.000	0.000	5AL_158_160_L_0							
196 D	6.852	1.5891E-04	66.95	79.54	127.8	87.18	UL-RL	1.1945E+05	-9.750	57.50	1.000
1.000	137.0	0.000	0.000	5AL_158_160_L_0							
197 D	6.905	1.6126E-04	67.40	80.10	128.2	87.44	UL-RL	1.1945E+05	-9.800	58.00	1.000
1.000	138.1	0.000	0.000	5AL_158_160_L_0							
198 D	6.958	1.6360E-04	67.85	80.66	128.7	87.71	UL-RL	1.1945E+05	-9.850	58.50	1.000
1.000	139.2	0.000	0.000	5AL_158_160_L_0							
199 D	7.011	1.6594E-04	68.30	81.22	129.1	87.98	UL-RL	1.1945E+05	-9.900	59.00	1.000
1.000	140.2	0.000	0.000	5AL_158_160_L_0							
200 D	7.063	1.6826E-04	68.75	81.78	129.6	88.24	UL-RL	1.1945E+05	-9.950	59.50	1.000
1.000	141.3	0.000	0.000	5AL_158_160_L_0							
201 D	3.557	1.7059E-04	69.20	82.34	130.0	88.51	UL-RL	1.1945E+05	-10.00	60.00	1.000
1.000	142.3	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection 28.SISMICASTR_986
Exe Time :21 June 2016 11:57:46

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement 33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.25996	-0.25996	3.83068E-10	1.29980E-02
2	0.79916	-0.79916	-1.29980E-02	5.29561E-02
3	1.3577	-1.3577	-5.29561E-02	0.12084
4	1.9354	-1.9354	-0.12084	0.21761
5	2.5325	-2.5325	-0.21761	0.34423
6	3.1488	-3.1488	-0.34423	0.50168
7	3.7845	-3.7845	-0.50168	0.69090
8	4.4394	-4.4394	-0.69090	0.91287
9	5.1136	-5.1136	-0.91287	1.1685
10	5.8071	-5.8071	-1.1685	1.4589
11	6.5198	-6.5198	-1.4589	1.7849
12	7.2519	-7.2519	-1.7849	2.1475
13	8.0032	-8.0032	-2.1475	2.5476
14	8.7738	-8.7738	-2.5476	2.9863
15	9.5637	-9.5637	-2.9863	3.4645
16	10.373	-10.373	-3.4645	3.9832
17	11.201	-11.201	-3.9832	4.5432
18	12.049	-12.049	-4.5432	5.1457
19	12.916	-12.916	-5.1457	5.7915
20	13.803	-13.803	-5.7915	6.4816
21	14.708	-14.708	-6.4816	7.2170
22	15.633	-15.633	-7.2170	7.9987
23	16.577	-16.577	-7.9987	8.8276
24	17.541	-17.541	-8.8276	9.7046
25	18.524	-18.524	-9.7046	10.631
26	19.526	-19.526	-10.631	11.607
27	20.547	-20.547	-11.607	12.634
28	21.587	-21.587	-12.634	13.714
29	22.647	-22.647	-13.714	14.846
30	23.727	-23.727	-14.846	16.032
31	24.825	-24.825	-16.032	17.274
32	25.943	-25.943	-17.274	18.571
33	27.080	-27.080	-18.571	19.925
34	28.236	-28.236	-19.925	21.337
35	29.412	-29.412	-21.337	22.807
36	30.607	-30.607	-22.807	24.338

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	333 di 401

RELAZIONE DI CALCOLO

37	31.821	-31.821	-24.338	25.929
38	33.054	-33.054	-25.929	27.581
39	34.307	-34.307	-27.581	29.297
40	35.579	-35.579	-29.297	31.076
41	36.870	-36.870	-31.076	32.919
42	38.181	-38.181	-32.919	34.828
43	39.511	-39.511	-34.828	36.804
44	40.860	-40.860	-36.804	38.847
45	42.229	-42.229	-38.847	40.958
46	43.616	-43.616	-40.958	43.139
47	45.023	-45.023	-43.139	45.390
48	46.450	-46.450	-45.390	47.713
49	47.895	-47.895	-47.713	50.107
50	49.360	-49.360	-50.107	52.575
51	50.844	-50.844	-52.575	55.118
52	52.348	-52.348	-55.118	57.735
53	53.870	-53.870	-57.735	60.429
54	55.412	-55.412	-60.429	63.199
55	56.974	-56.974	-63.199	66.048
56	58.554	-58.554	-66.048	68.976
57	60.154	-60.154	-68.976	71.983
58	61.773	-61.773	-71.983	75.072
59	63.412	-63.412	-75.072	78.242
60	65.070	-65.070	-78.242	81.496
61	66.747	-66.747	-81.496	84.833
62	68.443	-68.443	-84.833	88.255
63	70.159	-70.159	-88.255	91.763
64	71.893	-71.893	-91.763	95.358
65	73.648	-73.648	-95.358	99.040
66	73.417	-73.417	-99.040	102.71
67	73.044	-73.044	-102.71	106.36
68	72.529	-72.529	-106.36	109.99
69	71.873	-71.873	-109.99	113.58
70	71.074	-71.074	-113.58	117.14
71	70.133	-70.133	-117.14	120.64
72	69.050	-69.050	-120.64	124.10
73	67.825	-67.825	-124.10	127.49
74	66.458	-66.458	-127.49	130.81
75	64.950	-64.950	-130.81	134.06
76	63.299	-63.299	-134.06	137.22
77	61.506	-61.506	-137.22	140.30
78	59.571	-59.571	-140.30	143.28
79	57.494	-57.494	-143.28	146.15
80	55.275	-55.275	-146.15	148.92
81	52.914	-52.914	-148.92	151.56
82	50.485	-50.485	-151.56	154.09
83	47.990	-47.990	-154.09	156.48
84	45.427	-45.427	-156.48	158.76
85	42.797	-42.797	-158.76	160.90
86	40.099	-40.099	-160.90	162.90
87	37.334	-37.334	-162.90	164.77
88	34.502	-34.502	-164.77	166.49
89	31.603	-31.603	-166.49	168.07
90	28.637	-28.637	-168.07	169.50
91	25.603	-25.603	-169.50	170.78
92	22.502	-22.502	-170.78	171.91
93	19.333	-19.333	-171.91	172.88
94	16.098	-16.098	-172.88	173.68
95	12.795	-12.795	-173.68	174.32
96	9.4246	-9.4246	-174.32	174.79
97	5.9872	-5.9872	-174.79	175.09
98	2.4824	-2.4824	-175.09	175.22
99	-1.0896	1.0896	-175.22	175.16
100	-4.7289	4.7289	-175.16	174.93
101	-8.4354	8.4354	-174.93	174.50
102	-12.209	12.209	-174.50	173.89
103	-16.050	16.050	-173.89	173.09
104	-19.959	19.959	-173.09	172.09
105	-23.934	23.934	-172.09	170.90
106	-27.977	27.977	-170.90	169.50
107	-32.088	32.088	-169.50	167.89
108	-36.265	36.265	-167.89	166.08
109	-40.510	40.510	-166.08	164.05
110	-44.822	44.822	-164.05	161.81
111	-49.201	49.201	-161.81	159.35
112	-53.648	53.648	-159.35	156.67
113	-58.162	58.162	-156.67	153.76
114	-62.743	62.743	-153.76	150.62
115	-67.391	67.391	-150.62	147.26
116	-71.920	71.920	-147.26	143.66
117	-75.986	75.986	-143.66	139.86

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VID100 004	A	334 di 401

118	-79.619	79.619	-139.86	135.88
119	-82.848	82.848	-135.88	131.74
120	-85.700	85.700	-131.74	127.45
121	-88.201	88.201	-127.45	123.04
122	-90.377	90.377	-123.04	118.52
123	-92.253	92.253	-118.52	113.91
124	-93.854	93.854	-113.91	109.22
125	-95.202	95.202	-109.22	104.46
126	-96.319	96.319	-104.46	99.641
127	-97.198	97.198	-99.641	94.781
128	-97.771	97.771	-94.781	89.893
129	-97.873	97.873	-89.893	84.999
130	-97.413	97.413	-84.999	80.128
131	-96.446	96.446	-80.128	75.306
132	-95.028	95.028	-75.306	70.555
133	-93.209	93.209	-70.555	65.894
134	-91.036	91.036	-65.894	61.342
135	-88.581	88.581	-61.342	56.913
136	-85.894	85.894	-56.913	52.618
137	-83.010	83.010	-52.618	48.468
138	-79.962	79.962	-48.468	44.470
139	-76.780	76.780	-44.470	40.631
140	-73.493	73.493	-40.631	36.956
141	-70.125	70.125	-36.956	33.450
142	-66.701	66.701	-33.450	30.115
143	-63.242	63.242	-30.115	26.953
144	-59.781	59.781	-26.953	23.964
145	-56.335	56.335	-23.964	21.147
146	-52.918	52.918	-21.147	18.501
147	-49.543	49.543	-18.501	16.024
148	-46.221	46.221	-16.024	13.713
149	-42.960	42.960	-13.713	11.565
150	-39.773	39.773	-11.565	9.5760
151	-36.669	36.669	-9.5760	7.7425
152	-33.673	33.673	-7.7425	6.0588
153	-30.789	30.789	-6.0588	4.5194
154	-28.022	28.022	-4.5194	3.1183
155	-25.376	25.376	-3.1183	1.8495
156	-22.853	22.853	-1.8495	0.70678
157	-20.455	20.455	-0.70678	-0.31595
158	-18.181	18.181	0.31595	-1.2250
159	-16.031	16.031	1.2250	-2.0265
160	-14.005	14.005	2.0265	-2.7268
161	-12.101	12.101	2.7268	-3.3318
162	-10.317	10.317	3.3318	-3.8477
163	-8.6511	8.6511	3.8477	-4.2802
164	-7.1001	7.1001	4.2802	-4.6352
165	-5.6609	5.6609	4.6352	-4.9183
166	-4.3301	4.3301	4.9183	-5.1348
167	-3.1044	3.1044	5.1348	-5.2900
168	-1.9798	1.9798	5.2900	-5.3890
169	-0.95265	0.95265	5.3890	-5.4366
170	-1.89827E-02	1.89827E-02	5.4366	-5.4376
171	0.82512	-0.82512	5.4376	-5.3963
172	1.5836	-1.5836	5.3963	-5.3172
173	2.2604	-2.2604	5.3172	-5.2041
174	2.8593	-2.8593	5.2041	-5.0612
175	3.3841	-3.3841	5.0612	-4.8920
176	3.8385	-3.8385	4.8920	-4.7000
177	4.2260	-4.2260	4.7000	-4.4887
178	4.5500	-4.5500	4.4887	-4.2612
179	4.8138	-4.8138	4.2612	-4.0205
180	5.0205	-5.0205	4.0205	-3.7695
181	5.1729	-5.1729	3.7695	-3.5109
182	5.2739	-5.2739	3.5109	-3.2472
183	5.3259	-5.3259	3.2472	-2.9809
184	5.3313	-5.3313	2.9809	-2.7143
185	5.2924	-5.2924	2.7143	-2.4497
186	5.2109	-5.2109	2.4497	-2.1891
187	5.0888	-5.0888	2.1891	-1.9347
188	4.9276	-4.9276	1.9347	-1.6883
189	4.7288	-4.7288	1.6883	-1.4519
190	4.4935	-4.4935	1.4519	-1.2272
191	4.2228	-4.2228	1.2272	-1.0161
192	3.9177	-3.9177	1.0161	-0.82018
193	3.5788	-3.5788	0.82018	-0.64124
194	3.2067	-3.2067	0.64124	-0.48091
195	2.8020	-2.8020	0.48091	-0.34081
196	2.3650	-2.3650	0.34081	-0.22256
197	1.8959	-1.8959	0.22256	-0.12776
198	1.3950	-1.3950	0.12776	-5.80059E-02



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	335 di 401

RELAZIONE DI CALCOLO

199	0.86229	-0.86229	5.80059E-02-1.48916E-02
200	0.29795	-0.29795	1.48916E-02-1.42755E-12

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICASTR_986
Exe Time :21 June 2016 11:57:46

FINAL INCREMENTAL ANALYSIS
SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	2
3	CONVERGENCE :YES	9

END OF PROCESS FOR PROBLEM
paratia_mario
NONLINEAR SOLUTION CPU TIME 0.06 [sec]
DATABASE CREATION CPU TIME..... 0.22 [sec]

Design Assumption : SISMICA GEO - File di Paratie - File di output (.out)

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

```

*****
* PARATIE PLUS Non-Linear Spring Engine *
* *
* AN ELASTOPLASTIC FINITE ELEMENT PROGRAM *
* FOR FLEXIBLE EARTH-RETAINING STRUCTURES *
* *
* Written by Ce.A.S. s.r.l. (ITALY) *
* with the scientific supervision of *
* Roberto Nova - full professor SOIL MECHANICS *
* at Politecnico di Milano (ITALY) *
* *
*****
* RELEASE 2016 *Build date: Feb 29, 2016* *
* *
* Ce.A.S. S.R.L CENTRO DI ANALISI STRUTTURALE *
* VIALE GIUSTINIANO 10 *
* 20129 M I L A N O (ITALIA) *
* TEL. +39 02 2020221 (+39 035 23 67 19) *
* FAX +39 02 29512533 (+39 035 42285 49) *
* email bruno.becci@ceas.it *
* Web Page www.ceas.it *
*****

```

JOB : paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL STRESS >
ACCEPTED <PARAM ITEMEX 40 >



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	336 di 401

```

*****
*
* WARNING : PORE PRESSURES ARE AUTOMATICALLY COMPUTED
* BY THE PROGRAM.
*
*****

```

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]

```

-----
PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

```

```

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47
-----

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

paratia_mario

```

NO. OF NODAL POINTS (NUMNP) ..... 201
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 402
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 3
NO. OF SOLUTION STEPS (NSTE)..... 3
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 47
NO. OF LONG NAMES (LASTNAME) ..... 13
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF . 0

```

```

IDOFA (01) = 2 Y-DISPL.F
IDOFA (02) = 4 X-ROT.F

```

RELEVANT ITEMS UNITS

```

STRESSES kPa
Y-DISPLACEMENTS m
ROTATIONS RADIANS
BEAM AND SLAB MOMENTS kN*m/m
BEAM SHEAR FORCES kN/m
ANCHOR FORCES kN/m
AXIAL FORCES IN TRUSSES kN/m
AXIAL FORCES SPRINGS kN/m
Y-REACTIONS kN/m
X-MOMENT REACTIONS kN*m/m
ETC.

```



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	337 di 401

RELAZIONE DI CALCOLO

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

PREPROCESSOR DATA

NO. OF COMMANDS 47

```
1 : UNIT m kN
2 : TITLE paratia_mario
3 : DELTA 0.05
4 : option param itemax 40
5 : WALL LeftWall_32 0 -10 0 1
6 : SOIL 0_L LeftWall_32 -10 0 1 0
7 : SOIL 0_R LeftWall_32 -10 0 2 180
8 : LDATA 5AL_158_160_L_0 0 LeftWall_32
9 : ATREST 0.5933 0.5 1
10 : WEIGHT 19 9 10
11 : PERMEABILITY 1E-08
12 : RESISTANCE 10 25
13 : YOUNG 2.5E+05 4E+05
14 : ENDL
15 : MATERIAL S355_114 2.1E+08
16 : MATERIAL C3240_106 3.335E+07
17 : BEAM WallElement_33 LeftWall_32 -10 0 S355_114 0.1381 00 00
18 : STEP Stage1_31
19 : CHANGE 5AL_158_160_L_0 U-FRICT=20.46 LeftWall_32
20 : CHANGE 5AL_158_160_L_0 D-FRICT=20.46 LeftWall_32
21 : CHANGE 5AL_158_160_L_0 U-KA=0.482 LeftWall_32
22 : CHANGE 5AL_158_160_L_0 U-KP=2.637 LeftWall_32
23 : CHANGE 5AL_158_160_L_0 D-KA=0.482 LeftWall_32
24 : CHANGE 5AL_158_160_L_0 D-KP=2.637 LeftWall_32
25 : CHANGE 5AL_158_160_L_0 U-COHE=8 LeftWall_32
26 : CHANGE 5AL_158_160_L_0 D-COHE=8 LeftWall_32
27 : SETWALL LeftWall_32
28 : GEOM 0 0
29 : WATER -4 0 -10 0 0
30 : ENDSTEP
31 : STEP Stage2_168
32 : CHANGE 5AL_158_160_L_0 D-FRICT=20.46 LeftWall_32
33 : CHANGE 5AL_158_160_L_0 D-COHE=8 LeftWall_32
34 : SETWALL LeftWall_32
35 : GEOM 0 0
36 : SURCHARGE 57 0 0 0
37 : WATER -4 0 -10 0 0
38 : ADD WallElement_33
39 : ENDSTEP
40 : STEP Stage3_6035
41 : CHANGE 5AL_158_160_L_0 D-FRICT=20.46 LeftWall_32
42 : CHANGE 5AL_158_160_L_0 D-COHE=8 LeftWall_32
43 : SETWALL LeftWall_32
44 : GEOM 0 -3.2
45 : SURCHARGE 57 0 0 0
46 : WATER -4 0 -10 0 0
47 : ENDSTEP
```




LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	338 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

NODAL POINT DATA

NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD / NODE	Y-COORD	Z-COORD /
1	0.0000	0.0000 /	2	0.0000	-5.00000E-02 /	3	0.0000	-0.10000 /
5	0.0000	-0.20000 /	6	0.0000	-0.25000 /	7	0.0000	-0.30000 /
9	0.0000	-0.40000 /	10	0.0000	-0.45000 /	11	0.0000	-0.50000 /
13	0.0000	-0.60000 /	14	0.0000	-0.65000 /	15	0.0000	-0.70000 /
17	0.0000	-0.80000 /	18	0.0000	-0.85000 /	19	0.0000	-0.90000 /
21	0.0000	-1.0000 /	22	0.0000	-1.0500 /	23	0.0000	-1.1000 /
25	0.0000	-1.2000 /	26	0.0000	-1.2500 /	27	0.0000	-1.3000 /
29	0.0000	-1.4000 /	30	0.0000	-1.4500 /	31	0.0000	-1.5000 /
33	0.0000	-1.6000 /	34	0.0000	-1.6500 /	35	0.0000	-1.7000 /
37	0.0000	-1.8000 /	38	0.0000	-1.8500 /	39	0.0000	-1.9000 /
41	0.0000	-2.0000 /	42	0.0000	-2.0500 /	43	0.0000	-2.1000 /
45	0.0000	-2.2000 /	46	0.0000	-2.2500 /	47	0.0000	-2.3000 /
49	0.0000	-2.4000 /	50	0.0000	-2.4500 /	51	0.0000	-2.5000 /
53	0.0000	-2.6000 /	54	0.0000	-2.6500 /	55	0.0000	-2.7000 /
57	0.0000	-2.8000 /	58	0.0000	-2.8500 /	59	0.0000	-2.9000 /
61	0.0000	-3.0000 /	62	0.0000	-3.0500 /	63	0.0000	-3.1000 /
65	0.0000	-3.2000 /	66	0.0000	-3.2500 /	67	0.0000	-3.3000 /
69	0.0000	-3.4000 /	70	0.0000	-3.4500 /	71	0.0000	-3.5000 /
73	0.0000	-3.6000 /	74	0.0000	-3.6500 /	75	0.0000	-3.7000 /
77	0.0000	-3.8000 /	78	0.0000	-3.8500 /	79	0.0000	-3.9000 /
81	0.0000	-4.0000 /	82	0.0000	-4.0500 /	83	0.0000	-4.1000 /
85	0.0000	-4.2000 /	86	0.0000	-4.2500 /	87	0.0000	-4.3000 /
89	0.0000	-4.4000 /	90	0.0000	-4.4500 /	91	0.0000	-4.5000 /
93	0.0000	-4.6000 /	94	0.0000	-4.6500 /	95	0.0000	-4.7000 /
97	0.0000	-4.8000 /	98	0.0000	-4.8500 /	99	0.0000	-4.9000 /
101	0.0000	-5.0000 /	102	0.0000	-5.0500 /	103	0.0000	-5.1000 /
105	0.0000	-5.2000 /	106	0.0000	-5.2500 /	107	0.0000	-5.3000 /
109	0.0000	-5.4000 /	110	0.0000	-5.4500 /	111	0.0000	-5.5000 /
113	0.0000	-5.6000 /	114	0.0000	-5.6500 /	115	0.0000	-5.7000 /
117	0.0000	-5.8000 /	118	0.0000	-5.8500 /	119	0.0000	-5.9000 /
121	0.0000	-6.0000 /	122	0.0000	-6.0500 /	123	0.0000	-6.1000 /
125	0.0000	-6.2000 /	126	0.0000	-6.2500 /	127	0.0000	-6.3000 /
129	0.0000	-6.4000 /	130	0.0000	-6.4500 /	131	0.0000	-6.5000 /
133	0.0000	-6.6000 /	134	0.0000	-6.6500 /	135	0.0000	-6.7000 /
137	0.0000	-6.8000 /	138	0.0000	-6.8500 /	139	0.0000	-6.9000 /
141	0.0000	-7.0000 /	142	0.0000	-7.0500 /	143	0.0000	-7.1000 /
145	0.0000	-7.2000 /	146	0.0000	-7.2500 /	147	0.0000	-7.3000 /
149	0.0000	-7.4000 /	150	0.0000	-7.4500 /	151	0.0000	-7.5000 /
153	0.0000	-7.6000 /	154	0.0000	-7.6500 /	155	0.0000	-7.7000 /
157	0.0000	-7.8000 /	158	0.0000	-7.8500 /	159	0.0000	-7.9000 /
161	0.0000	-8.0000 /	162	0.0000	-8.0500 /	163	0.0000	-8.1000 /
165	0.0000	-8.2000 /	166	0.0000	-8.2500 /	167	0.0000	-8.3000 /
169	0.0000	-8.4000 /	170	0.0000	-8.4500 /	171	0.0000	-8.5000 /
173	0.0000	-8.6000 /	174	0.0000	-8.6500 /	175	0.0000	-8.7000 /
177	0.0000	-8.8000 /	178	0.0000	-8.8500 /	179	0.0000	-8.9000 /
181	0.0000	-9.0000 /	182	0.0000	-9.0500 /	183	0.0000	-9.1000 /
185	0.0000	-9.2000 /	186	0.0000	-9.2500 /	187	0.0000	-9.3000 /
189	0.0000	-9.4000 /	190	0.0000	-9.4500 /	191	0.0000	-9.5000 /
193	0.0000	-9.6000 /	194	0.0000	-9.6500 /	195	0.0000	-9.7000 /
197	0.0000	-9.8000 /	198	0.0000	-9.8500 /	199	0.0000	-9.9000 /
201	0.0000	-10.000 /						

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	340 di 401

46	46	1	0.5000E-01	0.000	0.000	0.000	1.000
47	47	1	0.5000E-01	0.000	0.000	0.000	1.000
48	48	1	0.5000E-01	0.000	0.000	0.000	1.000
49	49	1	0.5000E-01	0.000	0.000	0.000	1.000
50	50	1	0.5000E-01	0.000	0.000	0.000	1.000
51	51	1	0.5000E-01	0.000	0.000	0.000	1.000
52	52	1	0.5000E-01	0.000	0.000	0.000	1.000
53	53	1	0.5000E-01	0.000	0.000	0.000	1.000
54	54	1	0.5000E-01	0.000	0.000	0.000	1.000
55	55	1	0.5000E-01	0.000	0.000	0.000	1.000
56	56	1	0.5000E-01	0.000	0.000	0.000	1.000
57	57	1	0.5000E-01	0.000	0.000	0.000	1.000
58	58	1	0.5000E-01	0.000	0.000	0.000	1.000
59	59	1	0.5000E-01	0.000	0.000	0.000	1.000
60	60	1	0.5000E-01	0.000	0.000	0.000	1.000
61	61	1	0.5000E-01	0.000	0.000	0.000	1.000
62	62	1	0.5000E-01	0.000	0.000	0.000	1.000
63	63	1	0.5000E-01	0.000	0.000	0.000	1.000
64	64	1	0.5000E-01	0.000	0.000	0.000	1.000
65	65	1	0.5000E-01	0.000	0.000	0.000	1.000
66	66	1	0.5000E-01	0.000	0.000	0.000	1.000
67	67	1	0.5000E-01	0.000	0.000	0.000	1.000
68	68	1	0.5000E-01	0.000	0.000	0.000	1.000
69	69	1	0.5000E-01	0.000	0.000	0.000	1.000
70	70	1	0.5000E-01	0.000	0.000	0.000	1.000
71	71	1	0.5000E-01	0.000	0.000	0.000	1.000
72	72	1	0.5000E-01	0.000	0.000	0.000	1.000
73	73	1	0.5000E-01	0.000	0.000	0.000	1.000
74	74	1	0.5000E-01	0.000	0.000	0.000	1.000
75	75	1	0.5000E-01	0.000	0.000	0.000	1.000
76	76	1	0.5000E-01	0.000	0.000	0.000	1.000
77	77	1	0.5000E-01	0.000	0.000	0.000	1.000
78	78	1	0.5000E-01	0.000	0.000	0.000	1.000
79	79	1	0.5000E-01	0.000	0.000	0.000	1.000
80	80	1	0.5000E-01	0.000	0.000	0.000	1.000
81	81	1	0.5000E-01	0.000	0.000	0.000	1.000
82	82	1	0.5000E-01	0.000	0.000	0.000	1.000
83	83	1	0.5000E-01	0.000	0.000	0.000	1.000
84	84	1	0.5000E-01	0.000	0.000	0.000	1.000
85	85	1	0.5000E-01	0.000	0.000	0.000	1.000
86	86	1	0.5000E-01	0.000	0.000	0.000	1.000
87	87	1	0.5000E-01	0.000	0.000	0.000	1.000
88	88	1	0.5000E-01	0.000	0.000	0.000	1.000
89	89	1	0.5000E-01	0.000	0.000	0.000	1.000
90	90	1	0.5000E-01	0.000	0.000	0.000	1.000
91	91	1	0.5000E-01	0.000	0.000	0.000	1.000
92	92	1	0.5000E-01	0.000	0.000	0.000	1.000
93	93	1	0.5000E-01	0.000	0.000	0.000	1.000
94	94	1	0.5000E-01	0.000	0.000	0.000	1.000
95	95	1	0.5000E-01	0.000	0.000	0.000	1.000
96	96	1	0.5000E-01	0.000	0.000	0.000	1.000
97	97	1	0.5000E-01	0.000	0.000	0.000	1.000
98	98	1	0.5000E-01	0.000	0.000	0.000	1.000
99	99	1	0.5000E-01	0.000	0.000	0.000	1.000
100	100	1	0.5000E-01	0.000	0.000	0.000	1.000
101	101	1	0.5000E-01	0.000	0.000	0.000	1.000
102	102	1	0.5000E-01	0.000	0.000	0.000	1.000
103	103	1	0.5000E-01	0.000	0.000	0.000	1.000
104	104	1	0.5000E-01	0.000	0.000	0.000	1.000
105	105	1	0.5000E-01	0.000	0.000	0.000	1.000
106	106	1	0.5000E-01	0.000	0.000	0.000	1.000
107	107	1	0.5000E-01	0.000	0.000	0.000	1.000
108	108	1	0.5000E-01	0.000	0.000	0.000	1.000
109	109	1	0.5000E-01	0.000	0.000	0.000	1.000
110	110	1	0.5000E-01	0.000	0.000	0.000	1.000
111	111	1	0.5000E-01	0.000	0.000	0.000	1.000
112	112	1	0.5000E-01	0.000	0.000	0.000	1.000
113	113	1	0.5000E-01	0.000	0.000	0.000	1.000
114	114	1	0.5000E-01	0.000	0.000	0.000	1.000
115	115	1	0.5000E-01	0.000	0.000	0.000	1.000
116	116	1	0.5000E-01	0.000	0.000	0.000	1.000
117	117	1	0.5000E-01	0.000	0.000	0.000	1.000
118	118	1	0.5000E-01	0.000	0.000	0.000	1.000
119	119	1	0.5000E-01	0.000	0.000	0.000	1.000
120	120	1	0.5000E-01	0.000	0.000	0.000	1.000
121	121	1	0.5000E-01	0.000	0.000	0.000	1.000
122	122	1	0.5000E-01	0.000	0.000	0.000	1.000
123	123	1	0.5000E-01	0.000	0.000	0.000	1.000
124	124	1	0.5000E-01	0.000	0.000	0.000	1.000
125	125	1	0.5000E-01	0.000	0.000	0.000	1.000
126	126	1	0.5000E-01	0.000	0.000	0.000	1.000

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	341 di 401

RELAZIONE DI CALCOLO

127	127	1	0.5000E-01	0.000	0.000	0.000	1.000
128	128	1	0.5000E-01	0.000	0.000	0.000	1.000
129	129	1	0.5000E-01	0.000	0.000	0.000	1.000
130	130	1	0.5000E-01	0.000	0.000	0.000	1.000
131	131	1	0.5000E-01	0.000	0.000	0.000	1.000
132	132	1	0.5000E-01	0.000	0.000	0.000	1.000
133	133	1	0.5000E-01	0.000	0.000	0.000	1.000
134	134	1	0.5000E-01	0.000	0.000	0.000	1.000
135	135	1	0.5000E-01	0.000	0.000	0.000	1.000
136	136	1	0.5000E-01	0.000	0.000	0.000	1.000
137	137	1	0.5000E-01	0.000	0.000	0.000	1.000
138	138	1	0.5000E-01	0.000	0.000	0.000	1.000
139	139	1	0.5000E-01	0.000	0.000	0.000	1.000
140	140	1	0.5000E-01	0.000	0.000	0.000	1.000
141	141	1	0.5000E-01	0.000	0.000	0.000	1.000
142	142	1	0.5000E-01	0.000	0.000	0.000	1.000
143	143	1	0.5000E-01	0.000	0.000	0.000	1.000
144	144	1	0.5000E-01	0.000	0.000	0.000	1.000
145	145	1	0.5000E-01	0.000	0.000	0.000	1.000
146	146	1	0.5000E-01	0.000	0.000	0.000	1.000
147	147	1	0.5000E-01	0.000	0.000	0.000	1.000
148	148	1	0.5000E-01	0.000	0.000	0.000	1.000
149	149	1	0.5000E-01	0.000	0.000	0.000	1.000
150	150	1	0.5000E-01	0.000	0.000	0.000	1.000
151	151	1	0.5000E-01	0.000	0.000	0.000	1.000
152	152	1	0.5000E-01	0.000	0.000	0.000	1.000
153	153	1	0.5000E-01	0.000	0.000	0.000	1.000
154	154	1	0.5000E-01	0.000	0.000	0.000	1.000
155	155	1	0.5000E-01	0.000	0.000	0.000	1.000
156	156	1	0.5000E-01	0.000	0.000	0.000	1.000
157	157	1	0.5000E-01	0.000	0.000	0.000	1.000
158	158	1	0.5000E-01	0.000	0.000	0.000	1.000
159	159	1	0.5000E-01	0.000	0.000	0.000	1.000
160	160	1	0.5000E-01	0.000	0.000	0.000	1.000
161	161	1	0.5000E-01	0.000	0.000	0.000	1.000
162	162	1	0.5000E-01	0.000	0.000	0.000	1.000
163	163	1	0.5000E-01	0.000	0.000	0.000	1.000
164	164	1	0.5000E-01	0.000	0.000	0.000	1.000
165	165	1	0.5000E-01	0.000	0.000	0.000	1.000
166	166	1	0.5000E-01	0.000	0.000	0.000	1.000
167	167	1	0.5000E-01	0.000	0.000	0.000	1.000
168	168	1	0.5000E-01	0.000	0.000	0.000	1.000
169	169	1	0.5000E-01	0.000	0.000	0.000	1.000
170	170	1	0.5000E-01	0.000	0.000	0.000	1.000
171	171	1	0.5000E-01	0.000	0.000	0.000	1.000
172	172	1	0.5000E-01	0.000	0.000	0.000	1.000
173	173	1	0.5000E-01	0.000	0.000	0.000	1.000
174	174	1	0.5000E-01	0.000	0.000	0.000	1.000
175	175	1	0.5000E-01	0.000	0.000	0.000	1.000
176	176	1	0.5000E-01	0.000	0.000	0.000	1.000
177	177	1	0.5000E-01	0.000	0.000	0.000	1.000
178	178	1	0.5000E-01	0.000	0.000	0.000	1.000
179	179	1	0.5000E-01	0.000	0.000	0.000	1.000
180	180	1	0.5000E-01	0.000	0.000	0.000	1.000
181	181	1	0.5000E-01	0.000	0.000	0.000	1.000
182	182	1	0.5000E-01	0.000	0.000	0.000	1.000
183	183	1	0.5000E-01	0.000	0.000	0.000	1.000
184	184	1	0.5000E-01	0.000	0.000	0.000	1.000
185	185	1	0.5000E-01	0.000	0.000	0.000	1.000
186	186	1	0.5000E-01	0.000	0.000	0.000	1.000
187	187	1	0.5000E-01	0.000	0.000	0.000	1.000
188	188	1	0.5000E-01	0.000	0.000	0.000	1.000
189	189	1	0.5000E-01	0.000	0.000	0.000	1.000
190	190	1	0.5000E-01	0.000	0.000	0.000	1.000
191	191	1	0.5000E-01	0.000	0.000	0.000	1.000
192	192	1	0.5000E-01	0.000	0.000	0.000	1.000
193	193	1	0.5000E-01	0.000	0.000	0.000	1.000
194	194	1	0.5000E-01	0.000	0.000	0.000	1.000
195	195	1	0.5000E-01	0.000	0.000	0.000	1.000
196	196	1	0.5000E-01	0.000	0.000	0.000	1.000
197	197	1	0.5000E-01	0.000	0.000	0.000	1.000
198	198	1	0.5000E-01	0.000	0.000	0.000	1.000
199	199	1	0.5000E-01	0.000	0.000	0.000	1.000
200	200	1	0.4999E-01	0.000	0.000	0.000	1.000
201	201	1	0.2499E-01	0.000	0.000	0.000	1.000

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	343 di 401

RELAZIONE DI CALCOLO

46	46	1	0.5000E-01	0.000	0.000	0.000	2.000
47	47	1	0.5000E-01	0.000	0.000	0.000	2.000
48	48	1	0.5000E-01	0.000	0.000	0.000	2.000
49	49	1	0.5000E-01	0.000	0.000	0.000	2.000
50	50	1	0.5000E-01	0.000	0.000	0.000	2.000
51	51	1	0.5000E-01	0.000	0.000	0.000	2.000
52	52	1	0.5000E-01	0.000	0.000	0.000	2.000
53	53	1	0.5000E-01	0.000	0.000	0.000	2.000
54	54	1	0.5000E-01	0.000	0.000	0.000	2.000
55	55	1	0.5000E-01	0.000	0.000	0.000	2.000
56	56	1	0.5000E-01	0.000	0.000	0.000	2.000
57	57	1	0.5000E-01	0.000	0.000	0.000	2.000
58	58	1	0.5000E-01	0.000	0.000	0.000	2.000
59	59	1	0.5000E-01	0.000	0.000	0.000	2.000
60	60	1	0.5000E-01	0.000	0.000	0.000	2.000
61	61	1	0.5000E-01	0.000	0.000	0.000	2.000
62	62	1	0.5000E-01	0.000	0.000	0.000	2.000
63	63	1	0.5000E-01	0.000	0.000	0.000	2.000
64	64	1	0.5000E-01	0.000	0.000	0.000	2.000
65	65	1	0.5000E-01	0.000	0.000	0.000	2.000
66	66	1	0.5000E-01	0.000	0.000	0.000	2.000
67	67	1	0.5000E-01	0.000	0.000	0.000	2.000
68	68	1	0.5000E-01	0.000	0.000	0.000	2.000
69	69	1	0.5000E-01	0.000	0.000	0.000	2.000
70	70	1	0.5000E-01	0.000	0.000	0.000	2.000
71	71	1	0.5000E-01	0.000	0.000	0.000	2.000
72	72	1	0.5000E-01	0.000	0.000	0.000	2.000
73	73	1	0.5000E-01	0.000	0.000	0.000	2.000
74	74	1	0.5000E-01	0.000	0.000	0.000	2.000
75	75	1	0.5000E-01	0.000	0.000	0.000	2.000
76	76	1	0.5000E-01	0.000	0.000	0.000	2.000
77	77	1	0.5000E-01	0.000	0.000	0.000	2.000
78	78	1	0.5000E-01	0.000	0.000	0.000	2.000
79	79	1	0.5000E-01	0.000	0.000	0.000	2.000
80	80	1	0.5000E-01	0.000	0.000	0.000	2.000
81	81	1	0.5000E-01	0.000	0.000	0.000	2.000
82	82	1	0.5000E-01	0.000	0.000	0.000	2.000
83	83	1	0.5000E-01	0.000	0.000	0.000	2.000
84	84	1	0.5000E-01	0.000	0.000	0.000	2.000
85	85	1	0.5000E-01	0.000	0.000	0.000	2.000
86	86	1	0.5000E-01	0.000	0.000	0.000	2.000
87	87	1	0.5000E-01	0.000	0.000	0.000	2.000
88	88	1	0.5000E-01	0.000	0.000	0.000	2.000
89	89	1	0.5000E-01	0.000	0.000	0.000	2.000
90	90	1	0.5000E-01	0.000	0.000	0.000	2.000
91	91	1	0.5000E-01	0.000	0.000	0.000	2.000
92	92	1	0.5000E-01	0.000	0.000	0.000	2.000
93	93	1	0.5000E-01	0.000	0.000	0.000	2.000
94	94	1	0.5000E-01	0.000	0.000	0.000	2.000
95	95	1	0.5000E-01	0.000	0.000	0.000	2.000
96	96	1	0.5000E-01	0.000	0.000	0.000	2.000
97	97	1	0.5000E-01	0.000	0.000	0.000	2.000
98	98	1	0.5000E-01	0.000	0.000	0.000	2.000
99	99	1	0.5000E-01	0.000	0.000	0.000	2.000
100	100	1	0.5000E-01	0.000	0.000	0.000	2.000
101	101	1	0.5000E-01	0.000	0.000	0.000	2.000
102	102	1	0.5000E-01	0.000	0.000	0.000	2.000
103	103	1	0.5000E-01	0.000	0.000	0.000	2.000
104	104	1	0.5000E-01	0.000	0.000	0.000	2.000
105	105	1	0.5000E-01	0.000	0.000	0.000	2.000
106	106	1	0.5000E-01	0.000	0.000	0.000	2.000
107	107	1	0.5000E-01	0.000	0.000	0.000	2.000
108	108	1	0.5000E-01	0.000	0.000	0.000	2.000
109	109	1	0.5000E-01	0.000	0.000	0.000	2.000
110	110	1	0.5000E-01	0.000	0.000	0.000	2.000
111	111	1	0.5000E-01	0.000	0.000	0.000	2.000
112	112	1	0.5000E-01	0.000	0.000	0.000	2.000
113	113	1	0.5000E-01	0.000	0.000	0.000	2.000
114	114	1	0.5000E-01	0.000	0.000	0.000	2.000
115	115	1	0.5000E-01	0.000	0.000	0.000	2.000
116	116	1	0.5000E-01	0.000	0.000	0.000	2.000
117	117	1	0.5000E-01	0.000	0.000	0.000	2.000
118	118	1	0.5000E-01	0.000	0.000	0.000	2.000
119	119	1	0.5000E-01	0.000	0.000	0.000	2.000
120	120	1	0.5000E-01	0.000	0.000	0.000	2.000
121	121	1	0.5000E-01	0.000	0.000	0.000	2.000
122	122	1	0.5000E-01	0.000	0.000	0.000	2.000
123	123	1	0.5000E-01	0.000	0.000	0.000	2.000
124	124	1	0.5000E-01	0.000	0.000	0.000	2.000
125	125	1	0.5000E-01	0.000	0.000	0.000	2.000
126	126	1	0.5000E-01	0.000	0.000	0.000	2.000



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	344 di 401

RELAZIONE DI CALCOLO

127	127	1	0.5000E-01	0.000	0.000	0.000	2.000
128	128	1	0.5000E-01	0.000	0.000	0.000	2.000
129	129	1	0.5000E-01	0.000	0.000	0.000	2.000
130	130	1	0.5000E-01	0.000	0.000	0.000	2.000
131	131	1	0.5000E-01	0.000	0.000	0.000	2.000
132	132	1	0.5000E-01	0.000	0.000	0.000	2.000
133	133	1	0.5000E-01	0.000	0.000	0.000	2.000
134	134	1	0.5000E-01	0.000	0.000	0.000	2.000
135	135	1	0.5000E-01	0.000	0.000	0.000	2.000
136	136	1	0.5000E-01	0.000	0.000	0.000	2.000
137	137	1	0.5000E-01	0.000	0.000	0.000	2.000
138	138	1	0.5000E-01	0.000	0.000	0.000	2.000
139	139	1	0.5000E-01	0.000	0.000	0.000	2.000
140	140	1	0.5000E-01	0.000	0.000	0.000	2.000
141	141	1	0.5000E-01	0.000	0.000	0.000	2.000
142	142	1	0.5000E-01	0.000	0.000	0.000	2.000
143	143	1	0.5000E-01	0.000	0.000	0.000	2.000
144	144	1	0.5000E-01	0.000	0.000	0.000	2.000
145	145	1	0.5000E-01	0.000	0.000	0.000	2.000
146	146	1	0.5000E-01	0.000	0.000	0.000	2.000
147	147	1	0.5000E-01	0.000	0.000	0.000	2.000
148	148	1	0.5000E-01	0.000	0.000	0.000	2.000
149	149	1	0.5000E-01	0.000	0.000	0.000	2.000
150	150	1	0.5000E-01	0.000	0.000	0.000	2.000
151	151	1	0.5000E-01	0.000	0.000	0.000	2.000
152	152	1	0.5000E-01	0.000	0.000	0.000	2.000
153	153	1	0.5000E-01	0.000	0.000	0.000	2.000
154	154	1	0.5000E-01	0.000	0.000	0.000	2.000
155	155	1	0.5000E-01	0.000	0.000	0.000	2.000
156	156	1	0.5000E-01	0.000	0.000	0.000	2.000
157	157	1	0.5000E-01	0.000	0.000	0.000	2.000
158	158	1	0.5000E-01	0.000	0.000	0.000	2.000
159	159	1	0.5000E-01	0.000	0.000	0.000	2.000
160	160	1	0.5000E-01	0.000	0.000	0.000	2.000
161	161	1	0.5000E-01	0.000	0.000	0.000	2.000
162	162	1	0.5000E-01	0.000	0.000	0.000	2.000
163	163	1	0.5000E-01	0.000	0.000	0.000	2.000
164	164	1	0.5000E-01	0.000	0.000	0.000	2.000
165	165	1	0.5000E-01	0.000	0.000	0.000	2.000
166	166	1	0.5000E-01	0.000	0.000	0.000	2.000
167	167	1	0.5000E-01	0.000	0.000	0.000	2.000
168	168	1	0.5000E-01	0.000	0.000	0.000	2.000
169	169	1	0.5000E-01	0.000	0.000	0.000	2.000
170	170	1	0.5000E-01	0.000	0.000	0.000	2.000
171	171	1	0.5000E-01	0.000	0.000	0.000	2.000
172	172	1	0.5000E-01	0.000	0.000	0.000	2.000
173	173	1	0.5000E-01	0.000	0.000	0.000	2.000
174	174	1	0.5000E-01	0.000	0.000	0.000	2.000
175	175	1	0.5000E-01	0.000	0.000	0.000	2.000
176	176	1	0.5000E-01	0.000	0.000	0.000	2.000
177	177	1	0.5000E-01	0.000	0.000	0.000	2.000
178	178	1	0.5000E-01	0.000	0.000	0.000	2.000
179	179	1	0.5000E-01	0.000	0.000	0.000	2.000
180	180	1	0.5000E-01	0.000	0.000	0.000	2.000
181	181	1	0.5000E-01	0.000	0.000	0.000	2.000
182	182	1	0.5000E-01	0.000	0.000	0.000	2.000
183	183	1	0.5000E-01	0.000	0.000	0.000	2.000
184	184	1	0.5000E-01	0.000	0.000	0.000	2.000
185	185	1	0.5000E-01	0.000	0.000	0.000	2.000
186	186	1	0.5000E-01	0.000	0.000	0.000	2.000
187	187	1	0.5000E-01	0.000	0.000	0.000	2.000
188	188	1	0.5000E-01	0.000	0.000	0.000	2.000
189	189	1	0.5000E-01	0.000	0.000	0.000	2.000
190	190	1	0.5000E-01	0.000	0.000	0.000	2.000
191	191	1	0.5000E-01	0.000	0.000	0.000	2.000
192	192	1	0.5000E-01	0.000	0.000	0.000	2.000
193	193	1	0.5000E-01	0.000	0.000	0.000	2.000
194	194	1	0.5000E-01	0.000	0.000	0.000	2.000
195	195	1	0.5000E-01	0.000	0.000	0.000	2.000
196	196	1	0.5000E-01	0.000	0.000	0.000	2.000
197	197	1	0.5000E-01	0.000	0.000	0.000	2.000
198	198	1	0.5000E-01	0.000	0.000	0.000	2.000
199	199	1	0.5000E-01	0.000	0.000	0.000	2.000
200	200	1	0.4999E-01	0.000	0.000	0.000	2.000
201	201	1	0.2499E-01	0.000	0.000	0.000	2.000



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	346 di 401

RELAZIONE DI CALCOLO

37	37	38	1	0.000	0.000	0.1381
38	38	39	1	0.000	0.000	0.1381
39	39	40	1	0.000	0.000	0.1381
40	40	41	1	0.000	0.000	0.1381
41	41	42	1	0.000	0.000	0.1381
42	42	43	1	0.000	0.000	0.1381
43	43	44	1	0.000	0.000	0.1381
44	44	45	1	0.000	0.000	0.1381
45	45	46	1	0.000	0.000	0.1381
46	46	47	1	0.000	0.000	0.1381
47	47	48	1	0.000	0.000	0.1381
48	48	49	1	0.000	0.000	0.1381
49	49	50	1	0.000	0.000	0.1381
50	50	51	1	0.000	0.000	0.1381
51	51	52	1	0.000	0.000	0.1381
52	52	53	1	0.000	0.000	0.1381
53	53	54	1	0.000	0.000	0.1381
54	54	55	1	0.000	0.000	0.1381
55	55	56	1	0.000	0.000	0.1381
56	56	57	1	0.000	0.000	0.1381
57	57	58	1	0.000	0.000	0.1381
58	58	59	1	0.000	0.000	0.1381
59	59	60	1	0.000	0.000	0.1381
60	60	61	1	0.000	0.000	0.1381
61	61	62	1	0.000	0.000	0.1381
62	62	63	1	0.000	0.000	0.1381
63	63	64	1	0.000	0.000	0.1381
64	64	65	1	0.000	0.000	0.1381
65	65	66	1	0.000	0.000	0.1381
66	66	67	1	0.000	0.000	0.1381
67	67	68	1	0.000	0.000	0.1381
68	68	69	1	0.000	0.000	0.1381
69	69	70	1	0.000	0.000	0.1381
70	70	71	1	0.000	0.000	0.1381
71	71	72	1	0.000	0.000	0.1381
72	72	73	1	0.000	0.000	0.1381
73	73	74	1	0.000	0.000	0.1381
74	74	75	1	0.000	0.000	0.1381
75	75	76	1	0.000	0.000	0.1381
76	76	77	1	0.000	0.000	0.1381
77	77	78	1	0.000	0.000	0.1381
78	78	79	1	0.000	0.000	0.1381
79	79	80	1	0.000	0.000	0.1381
80	80	81	1	0.000	0.000	0.1381
81	81	82	1	0.000	0.000	0.1381
82	82	83	1	0.000	0.000	0.1381
83	83	84	1	0.000	0.000	0.1381
84	84	85	1	0.000	0.000	0.1381
85	85	86	1	0.000	0.000	0.1381
86	86	87	1	0.000	0.000	0.1381
87	87	88	1	0.000	0.000	0.1381
88	88	89	1	0.000	0.000	0.1381
89	89	90	1	0.000	0.000	0.1381
90	90	91	1	0.000	0.000	0.1381
91	91	92	1	0.000	0.000	0.1381
92	92	93	1	0.000	0.000	0.1381
93	93	94	1	0.000	0.000	0.1381
94	94	95	1	0.000	0.000	0.1381
95	95	96	1	0.000	0.000	0.1381
96	96	97	1	0.000	0.000	0.1381
97	97	98	1	0.000	0.000	0.1381
98	98	99	1	0.000	0.000	0.1381
99	99	100	1	0.000	0.000	0.1381
100	100	101	1	0.000	0.000	0.1381
101	101	102	1	0.000	0.000	0.1381
102	102	103	1	0.000	0.000	0.1381
103	103	104	1	0.000	0.000	0.1381
104	104	105	1	0.000	0.000	0.1381
105	105	106	1	0.000	0.000	0.1381
106	106	107	1	0.000	0.000	0.1381
107	107	108	1	0.000	0.000	0.1381
108	108	109	1	0.000	0.000	0.1381
109	109	110	1	0.000	0.000	0.1381
110	110	111	1	0.000	0.000	0.1381
111	111	112	1	0.000	0.000	0.1381
112	112	113	1	0.000	0.000	0.1381
113	113	114	1	0.000	0.000	0.1381
114	114	115	1	0.000	0.000	0.1381
115	115	116	1	0.000	0.000	0.1381
116	116	117	1	0.000	0.000	0.1381
117	117	118	1	0.000	0.000	0.1381



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	347 di 401

RELAZIONE DI CALCOLO

118	118	119	1	0.000	0.000	0.1381
119	119	120	1	0.000	0.000	0.1381
120	120	121	1	0.000	0.000	0.1381
121	121	122	1	0.000	0.000	0.1381
122	122	123	1	0.000	0.000	0.1381
123	123	124	1	0.000	0.000	0.1381
124	124	125	1	0.000	0.000	0.1381
125	125	126	1	0.000	0.000	0.1381
126	126	127	1	0.000	0.000	0.1381
127	127	128	1	0.000	0.000	0.1381
128	128	129	1	0.000	0.000	0.1381
129	129	130	1	0.000	0.000	0.1381
130	130	131	1	0.000	0.000	0.1381
131	131	132	1	0.000	0.000	0.1381
132	132	133	1	0.000	0.000	0.1381
133	133	134	1	0.000	0.000	0.1381
134	134	135	1	0.000	0.000	0.1381
135	135	136	1	0.000	0.000	0.1381
136	136	137	1	0.000	0.000	0.1381
137	137	138	1	0.000	0.000	0.1381
138	138	139	1	0.000	0.000	0.1381
139	139	140	1	0.000	0.000	0.1381
140	140	141	1	0.000	0.000	0.1381
141	141	142	1	0.000	0.000	0.1381
142	142	143	1	0.000	0.000	0.1381
143	143	144	1	0.000	0.000	0.1381
144	144	145	1	0.000	0.000	0.1381
145	145	146	1	0.000	0.000	0.1381
146	146	147	1	0.000	0.000	0.1381
147	147	148	1	0.000	0.000	0.1381
148	148	149	1	0.000	0.000	0.1381
149	149	150	1	0.000	0.000	0.1381
150	150	151	1	0.000	0.000	0.1381
151	151	152	1	0.000	0.000	0.1381
152	152	153	1	0.000	0.000	0.1381
153	153	154	1	0.000	0.000	0.1381
154	154	155	1	0.000	0.000	0.1381
155	155	156	1	0.000	0.000	0.1381
156	156	157	1	0.000	0.000	0.1381
157	157	158	1	0.000	0.000	0.1381
158	158	159	1	0.000	0.000	0.1381
159	159	160	1	0.000	0.000	0.1381
160	160	161	1	0.000	0.000	0.1381
161	161	162	1	0.000	0.000	0.1381
162	162	163	1	0.000	0.000	0.1381
163	163	164	1	0.000	0.000	0.1381
164	164	165	1	0.000	0.000	0.1381
165	165	166	1	0.000	0.000	0.1381
166	166	167	1	0.000	0.000	0.1381
167	167	168	1	0.000	0.000	0.1381
168	168	169	1	0.000	0.000	0.1381
169	169	170	1	0.000	0.000	0.1381
170	170	171	1	0.000	0.000	0.1381
171	171	172	1	0.000	0.000	0.1381
172	172	173	1	0.000	0.000	0.1381
173	173	174	1	0.000	0.000	0.1381
174	174	175	1	0.000	0.000	0.1381
175	175	176	1	0.000	0.000	0.1381
176	176	177	1	0.000	0.000	0.1381
177	177	178	1	0.000	0.000	0.1381
178	178	179	1	0.000	0.000	0.1381
179	179	180	1	0.000	0.000	0.1381
180	180	181	1	0.000	0.000	0.1381
181	181	182	1	0.000	0.000	0.1381
182	182	183	1	0.000	0.000	0.1381
183	183	184	1	0.000	0.000	0.1381
184	184	185	1	0.000	0.000	0.1381
185	185	186	1	0.000	0.000	0.1381
186	186	187	1	0.000	0.000	0.1381
187	187	188	1	0.000	0.000	0.1381
188	188	189	1	0.000	0.000	0.1381
189	189	190	1	0.000	0.000	0.1381
190	190	191	1	0.000	0.000	0.1381
191	191	192	1	0.000	0.000	0.1381
192	192	193	1	0.000	0.000	0.1381
193	193	194	1	0.000	0.000	0.1381
194	194	195	1	0.000	0.000	0.1381
195	195	196	1	0.000	0.000	0.1381
196	196	197	1	0.000	0.000	0.1381
197	197	198	1	0.000	0.000	0.1381
198	198	199	1	0.000	0.000	0.1381



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	348 di 401

RELAZIONE DI CALCOLO

199	199	200	1	0.000	0.000	0.1381
200	200	201	1	0.000	0.000	0.1381

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

NO. OF NODAL LOADS (NLOAD) 0
NO. OF LOAD CURVES (NLCUR) 6
MAXIMUM POINTS/LCURVE (NPTM)..... 5

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

L O A D D A T A

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
1.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 2
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
2.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
3.20000	0.0000E+00
4.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
4.00000	0.1000E+01



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	349 di 401

RELAZIONE DI CALCOLO

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
4.00000	0.1000E+01

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
4.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

LOAD BALANCE

STEP 1	TOTAL APPLIED LOAD IN DIR. 2	Y-DISPL.F	0.0000000
STEP 1	TOTAL APPLIED LOAD IN DIR. 4	X-ROT. F	0.0000000
STEP 2	TOTAL APPLIED LOAD IN DIR. 2	Y-DISPL.F	0.0000000
STEP 2	TOTAL APPLIED LOAD IN DIR. 4	X-ROT. F	0.0000000
STEP 3	TOTAL APPLIED LOAD IN DIR. 2	Y-DISPL.F	0.0000000
STEP 3	TOTAL APPLIED LOAD IN DIR. 4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

NO. OF LAYERS 1
NO. OF DATA PER LAYER..... 100



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISIONALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	350 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

LAYER DESCRIPTORS FOR STEP NO. 1

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO.	1<NAME	>= 10.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 8.0000	WALL NO.	1
ITEM NO.	8<U-COHE	>= 8.0000	WALL NO.	2
ITEM NO.	9<U-FRICT	>= 20.460	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 20.460	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.48200	WALL NO.	1
ITEM NO.	11<U-KP	>= 2.6370	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO.	52<D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 8.0000	WALL NO.	1
ITEM NO.	58<D-COHE	>= 8.0000	WALL NO.	2
ITEM NO.	59<D-FRICT	>= 20.460	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 20.460	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.48200	WALL NO.	1
ITEM NO.	61<D-KP	>= 2.6370	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-07	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 2

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 2

ITEM NO.	1<NAME	>= 10.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 8.0000	WALL NO.	1
ITEM NO.	8<U-COHE	>= 8.0000	WALL NO.	2
ITEM NO.	9<U-FRICT	>= 20.460	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 20.460	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.48200	WALL NO.	1
ITEM NO.	11<U-KP	>= 2.6370	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO.	52<D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 8.0000	WALL NO.	1
ITEM NO.	58<D-COHE	>= 8.0000	WALL NO.	2
ITEM NO.	59<D-FRICT	>= 20.460	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 20.460	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.48200	WALL NO.	1
ITEM NO.	61<D-KP	>= 2.6370	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-07	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 3



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	351 di 401

RELAZIONE DI CALCOLO

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO.	1<NAME	>= 10.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 19.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 9.0000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 8.0000	WALL NO.	1
ITEM NO.	8<U-COHE	>= 8.0000	WALL NO.	2
ITEM NO.	9<U-FRICT	>= 20.460	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 20.460	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.48200	WALL NO.	1
ITEM NO.	11<U-KP	>= 2.6370	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.59330	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 0.25000E+06	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.40000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-07	(BOTH WALLS)	
ITEM NO.	52<D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 8.0000	WALL NO.	1
ITEM NO.	58<D-COHE	>= 8.0000	WALL NO.	2
ITEM NO.	59<D-FRICT	>= 20.460	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 20.460	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.48200	WALL NO.	1
ITEM NO.	61<D-KP	>= 2.6370	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-07	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 3 VALUES

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER TABLE		-4.000	-0.9990E+30
Q AT THE FREE FIELD LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW OF THE WATER TABLE		0.000	0.000
QS ON THE EXCAVATION SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-10.00	-10.00
WATER BEHAVIOUR_FLAG (LINING OPT)		0.000	0.000
PORE_UPDATE_FLAG		0.000	0.000
PORE_TAB._FLAG (gt.0= use tabs)		0.000	0.000
lateral thrusts reduction elevatio		0.000	0.000
Downhill reduction factor for effe		0.000	0.000
Downhill reduction factor for pore		0.000	0.000
Uphill reduction factor for effect		0.000	0.000
Uphill reduction factor for pore p		0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]		0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]		0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]		0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]		0.000	0.000
UPHILL DELTA/PHI RATIO		0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]		0.000	0.000
DOWNHILL DELTA/PHI RATIO		0.000	0.000
DYN.WATER BEHAVIOUR		0.000	0.000
Excess pore pressure RATIO Ru		0.000	0.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	352 di 401

SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

====end of step 1

STEP NO. 2

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	0.000	0.000
Z-WATER TABLE	-4.000	-0.9990E+30
Q AT THE FREE FIELD LEVEL	57.00	0.000
ZQ	0.000	0.000
DZW OF THE WATER TABLE	0.000	0.000
QS ON THE EXCAVATION SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-10.00	-10.00
WATER BEHAVIOUR FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB_FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000

====end of step 2

STEP NO. 3

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-3.200	0.000
Z-WATER TABLE	-4.000	-0.9990E+30
Q AT THE FREE FIELD LEVEL	57.00	0.000
ZQ	0.000	0.000
DZW OF THE WATER TABLE	0.000	0.000
QS ON THE EXCAVATION SIDE	0.000	0.000
ZQS	0.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-10.00	-10.00
WATER BEHAVIOUR FLAG (LINING OPT)	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000
PORE_TAB_FLAG (gt.0= use tabs)	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000
Downhill reduction factor for effe	0.000	0.000
Downhill reduction factor for pore	0.000	0.000
Uphill reduction factor for effect	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000



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RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	354 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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paratia_mario
SOLUTION REACHED USING 2 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

Y-DISPL.F X-ROT. F
(02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
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paratia_mario

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
UFACTOR	Peq	Su_a	Su_p	LAYER							
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.7008E+05	0.000	0.000	1.000
1.000	0.000	0.000	0.000	5AL_158_160_L_0							
2 D	2.8182E-02	0.000	0.9500	0.5636	0.9500	0.5636	V-C	2.7008E+05	-5.0000E-02	0.000	1.000
1.000	0.5636	0.000	0.000	5AL_158_160_L_0							
3 D	5.6364E-02	0.000	1.900	1.127	1.900	1.127	V-C	2.7008E+05	-0.1000	0.000	1.000
1.000	1.127	0.000	0.000	5AL_158_160_L_0							
4 D	8.4545E-02	0.000	2.850	1.691	2.850	1.691	V-C	2.7008E+05	-0.1500	0.000	1.000
1.000	1.691	0.000	0.000	5AL_158_160_L_0							
5 D	0.1127	0.000	3.800	2.255	3.800	2.255	V-C	2.7008E+05	-0.2000	0.000	1.000
1.000	2.255	0.000	0.000	5AL_158_160_L_0							
6 D	0.1409	0.000	4.750	2.818	4.750	2.818	V-C	2.7008E+05	-0.2500	0.000	1.000
1.000	2.818	0.000	0.000	5AL_158_160_L_0							
7 D	0.1691	0.000	5.700	3.382	5.700	3.382	V-C	2.7008E+05	-0.3000	0.000	1.000
1.000	3.382	0.000	0.000	5AL_158_160_L_0							
8 D	0.1973	0.000	6.650	3.945	6.650	3.945	V-C	2.7008E+05	-0.3500	0.000	1.000
1.000	3.945	0.000	0.000	5AL_158_160_L_0							
9 D	0.2255	0.000	7.600	4.509	7.600	4.509	V-C	2.7008E+05	-0.4000	0.000	1.000
1.000	4.509	0.000	0.000	5AL_158_160_L_0							
10 D	0.2536	0.000	8.550	5.073	8.550	5.073	V-C	2.7008E+05	-0.4500	0.000	1.000
1.000	5.073	0.000	0.000	5AL_158_160_L_0							
11 D	0.2818	0.000	9.500	5.636	9.500	5.636	V-C	2.7008E+05	-0.5000	0.000	1.000
1.000	5.636	0.000	0.000	5AL_158_160_L_0							
12 D	0.3100	0.000	10.45	6.200	10.45	6.200	V-C	2.7008E+05	-0.5500	0.000	1.000
1.000	6.200	0.000	0.000	5AL_158_160_L_0							
13 D	0.3382	0.000	11.40	6.764	11.40	6.764	V-C	2.7008E+05	-0.6000	0.000	1.000
1.000	6.764	0.000	0.000	5AL_158_160_L_0							
14 D	0.3664	0.000	12.35	7.327	12.35	7.327	V-C	2.7008E+05	-0.6500	0.000	1.000
1.000	7.327	0.000	0.000	5AL_158_160_L_0							
15 D	0.3945	0.000	13.30	7.891	13.30	7.891	V-C	2.7008E+05	-0.7000	0.000	1.000
1.000	7.891	0.000	0.000	5AL_158_160_L_0							
16 D	0.4227	0.000	14.25	8.455	14.25	8.455	V-C	2.7008E+05	-0.7500	0.000	1.000

OPERE PROVVISORIALI					COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
RELAZIONE DI CALCOLO					LI00	01	D 09CL	VI0100 004	A	355 di 401
1.000	8.455	0.000	0.000	SAL_158_160_L_0						
17 D	0.4509	0.000	15.20	9.018 15.20	9.018		V-C 2.7008E+05	-0.8000	0.000	1.000
1.000	9.018	0.000	0.000	SAL_158_160_L_0						
18 D	0.4791	0.000	16.15	9.582 16.15	9.582		V-C 2.7008E+05	-0.8500	0.000	1.000
1.000	9.582	0.000	0.000	SAL_158_160_L_0						
19 D	0.5073	0.000	17.10	10.15 17.10	10.15		V-C 2.7008E+05	-0.9000	0.000	1.000
1.000	10.15	0.000	0.000	SAL_158_160_L_0						
20 D	0.5355	0.000	18.05	10.71 18.05	10.71		V-C 2.7008E+05	-0.9500	0.000	1.000
1.000	10.71	0.000	0.000	SAL_158_160_L_0						
21 D	0.5636	0.000	19.00	11.27 19.00	11.27		V-C 2.7008E+05	-1.000	0.000	1.000
1.000	11.27	0.000	0.000	SAL_158_160_L_0						
22 D	0.5918	0.000	19.95	11.84 19.95	11.84		V-C 2.7008E+05	-1.050	0.000	1.000
1.000	11.84	0.000	0.000	SAL_158_160_L_0						
23 D	0.6200	0.000	20.90	12.40 20.90	12.40		V-C 2.7008E+05	-1.100	0.000	1.000
1.000	12.40	0.000	0.000	SAL_158_160_L_0						
24 D	0.6482	0.000	21.85	12.96 21.85	12.96		V-C 2.7008E+05	-1.150	0.000	1.000
1.000	12.96	0.000	0.000	SAL_158_160_L_0						
25 D	0.6764	0.000	22.80	13.53 22.80	13.53		V-C 2.7008E+05	-1.200	0.000	1.000
1.000	13.53	0.000	0.000	SAL_158_160_L_0						
26 D	0.7045	0.000	23.75	14.09 23.75	14.09		V-C 2.7008E+05	-1.250	0.000	1.000
1.000	14.09	0.000	0.000	SAL_158_160_L_0						
27 D	0.7327	0.000	24.70	14.65 24.70	14.65		V-C 2.7008E+05	-1.300	0.000	1.000
1.000	14.65	0.000	0.000	SAL_158_160_L_0						
28 D	0.7609	0.000	25.65	15.22 25.65	15.22		V-C 2.7008E+05	-1.350	0.000	1.000
1.000	15.22	0.000	0.000	SAL_158_160_L_0						
29 D	0.7891	0.000	26.60	15.78 26.60	15.78		V-C 2.7008E+05	-1.400	0.000	1.000
1.000	15.78	0.000	0.000	SAL_158_160_L_0						
30 D	0.8173	0.000	27.55	16.35 27.55	16.35		V-C 2.7008E+05	-1.450	0.000	1.000
1.000	16.35	0.000	0.000	SAL_158_160_L_0						
31 D	0.8455	0.000	28.50	16.91 28.50	16.91		V-C 2.7008E+05	-1.500	0.000	1.000
1.000	16.91	0.000	0.000	SAL_158_160_L_0						
32 D	0.8736	0.000	29.45	17.47 29.45	17.47		V-C 2.7008E+05	-1.550	0.000	1.000
1.000	17.47	0.000	0.000	SAL_158_160_L_0						
33 D	0.9018	0.000	30.40	18.04 30.40	18.04		V-C 2.7008E+05	-1.600	0.000	1.000
1.000	18.04	0.000	0.000	SAL_158_160_L_0						
34 D	0.9300	0.000	31.35	18.60 31.35	18.60		V-C 2.7008E+05	-1.650	0.000	1.000
1.000	18.60	0.000	0.000	SAL_158_160_L_0						
35 D	0.9582	0.000	32.30	19.16 32.30	19.16		V-C 2.7008E+05	-1.700	0.000	1.000
1.000	19.16	0.000	0.000	SAL_158_160_L_0						
36 D	0.9864	0.000	33.25	19.73 33.25	19.73		V-C 2.7008E+05	-1.750	0.000	1.000
1.000	19.73	0.000	0.000	SAL_158_160_L_0						
37 D	1.015	0.000	34.20	20.29 34.20	20.29		V-C 2.7008E+05	-1.800	0.000	1.000
1.000	20.29	0.000	0.000	SAL_158_160_L_0						
38 D	1.043	0.000	35.15	20.85 35.15	20.85		V-C 2.7008E+05	-1.850	0.000	1.000
1.000	20.85	0.000	0.000	SAL_158_160_L_0						
39 D	1.071	0.000	36.10	21.42 36.10	21.42		V-C 2.7008E+05	-1.900	0.000	1.000
1.000	21.42	0.000	0.000	SAL_158_160_L_0						
40 D	1.099	0.000	37.05	21.98 37.05	21.98		V-C 2.7008E+05	-1.950	0.000	1.000
1.000	21.98	0.000	0.000	SAL_158_160_L_0						
41 D	1.127	0.000	38.00	22.55 38.00	22.55		V-C 2.7008E+05	-2.000	0.000	1.000
1.000	22.55	0.000	0.000	SAL_158_160_L_0						
42 D	1.155	0.000	38.95	23.11 38.95	23.11		V-C 2.7008E+05	-2.050	0.000	1.000
1.000	23.11	0.000	0.000	SAL_158_160_L_0						
43 D	1.184	0.000	39.90	23.67 39.90	23.67		V-C 2.7008E+05	-2.100	0.000	1.000
1.000	23.67	0.000	0.000	SAL_158_160_L_0						
44 D	1.212	0.000	40.85	24.24 40.85	24.24		V-C 2.7008E+05	-2.150	0.000	1.000
1.000	24.24	0.000	0.000	SAL_158_160_L_0						
45 D	1.240	0.000	41.80	24.80 41.80	24.80		V-C 2.7008E+05	-2.200	0.000	1.000
1.000	24.80	0.000	0.000	SAL_158_160_L_0						
46 D	1.268	0.000	42.75	25.36 42.75	25.36		V-C 2.7008E+05	-2.250	0.000	1.000
1.000	25.36	0.000	0.000	SAL_158_160_L_0						
47 D	1.296	0.000	43.70	25.93 43.70	25.93		V-C 2.7008E+05	-2.300	0.000	1.000
1.000	25.93	0.000	0.000	SAL_158_160_L_0						
48 D	1.325	0.000	44.65	26.49 44.65	26.49		V-C 2.7008E+05	-2.350	0.000	1.000
1.000	26.49	0.000	0.000	SAL_158_160_L_0						
49 D	1.353	0.000	45.60	27.05 45.60	27.05		V-C 2.7008E+05	-2.400	0.000	1.000
1.000	27.05	0.000	0.000	SAL_158_160_L_0						
50 D	1.381	0.000	46.55	27.62 46.55	27.62		V-C 2.7008E+05	-2.450	0.000	1.000
1.000	27.62	0.000	0.000	SAL_158_160_L_0						
51 D	1.409	0.000	47.50	28.18 47.50	28.18		V-C 2.7008E+05	-2.500	0.000	1.000
1.000	28.18	0.000	0.000	SAL_158_160_L_0						
52 D	1.437	0.000	48.45	28.75 48.45	28.75		V-C 2.7008E+05	-2.550	0.000	1.000
1.000	28.75	0.000	0.000	SAL_158_160_L_0						
53 D	1.465	0.000	49.40	29.31 49.40	29.31		V-C 2.7008E+05	-2.600	0.000	1.000
1.000	29.31	0.000	0.000	SAL_158_160_L_0						
54 D	1.494	0.000	50.35	29.87 50.35	29.87		V-C 2.7008E+05	-2.650	0.000	1.000
1.000	29.87	0.000	0.000	SAL_158_160_L_0						
55 D	1.522	0.000	51.30	30.44 51.30	30.44		V-C 2.7008E+05	-2.700	0.000	1.000
1.000	30.44	0.000	0.000	SAL_158_160_L_0						
56 D	1.550	0.000	52.25	31.00 52.25	31.00		V-C 2.7008E+05	-2.750	0.000	1.000
1.000	31.00	0.000	0.000	SAL_158_160_L_0						



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	356 di 401

57 D	1.578	0.000	53.20	31.56	53.20	31.56	V-C	2.7008E+05	-2.800	0.000	1.000
1.000	31.56	0.000	0.000	5AL_158_160_L_0							
58 D	1.606	0.000	54.15	32.13	54.15	32.13	V-C	2.7008E+05	-2.850	0.000	1.000
1.000	32.13	0.000	0.000	5AL_158_160_L_0							
59 D	1.635	0.000	55.10	32.69	55.10	32.69	V-C	2.7008E+05	-2.900	0.000	1.000
1.000	32.69	0.000	0.000	5AL_158_160_L_0							
60 D	1.663	0.000	56.05	33.25	56.05	33.25	V-C	2.7008E+05	-2.950	0.000	1.000
1.000	33.25	0.000	0.000	5AL_158_160_L_0							
61 D	1.691	0.000	57.00	33.82	57.00	33.82	V-C	2.7008E+05	-3.000	0.000	1.000
1.000	33.82	0.000	0.000	5AL_158_160_L_0							
62 D	1.719	0.000	57.95	34.38	57.95	34.38	V-C	2.7008E+05	-3.050	0.000	1.000
1.000	34.38	0.000	0.000	5AL_158_160_L_0							
63 D	1.747	0.000	58.90	34.95	58.90	34.95	V-C	2.7008E+05	-3.100	0.000	1.000
1.000	34.95	0.000	0.000	5AL_158_160_L_0							
64 D	1.775	0.000	59.85	35.51	59.85	35.51	V-C	2.7008E+05	-3.150	0.000	1.000
1.000	35.51	0.000	0.000	5AL_158_160_L_0							
65 D	1.804	0.000	60.80	36.07	60.80	36.07	V-C	2.7008E+05	-3.200	0.000	1.000
1.000	36.07	0.000	0.000	5AL_158_160_L_0							
66 D	1.832	0.000	61.75	36.64	61.75	36.64	V-C	2.7008E+05	-3.250	0.000	1.000
1.000	36.64	0.000	0.000	5AL_158_160_L_0							
67 D	1.860	0.000	62.70	37.20	62.70	37.20	V-C	2.7008E+05	-3.300	0.000	1.000
1.000	37.20	0.000	0.000	5AL_158_160_L_0							
68 D	1.888	0.000	63.65	37.76	63.65	37.76	V-C	2.7008E+05	-3.350	0.000	1.000
1.000	37.76	0.000	0.000	5AL_158_160_L_0							
69 D	1.916	0.000	64.60	38.33	64.60	38.33	V-C	2.7008E+05	-3.400	0.000	1.000
1.000	38.33	0.000	0.000	5AL_158_160_L_0							
70 D	1.945	0.000	65.55	38.89	65.55	38.89	V-C	2.7008E+05	-3.450	0.000	1.000
1.000	38.89	0.000	0.000	5AL_158_160_L_0							
71 D	1.973	0.000	66.50	39.45	66.50	39.45	V-C	2.7008E+05	-3.500	0.000	1.000
1.000	39.45	0.000	0.000	5AL_158_160_L_0							
72 D	2.001	0.000	67.45	40.02	67.45	40.02	V-C	2.7008E+05	-3.550	0.000	1.000
1.000	40.02	0.000	0.000	5AL_158_160_L_0							
73 D	2.029	0.000	68.40	40.58	68.40	40.58	V-C	2.7008E+05	-3.600	0.000	1.000
1.000	40.58	0.000	0.000	5AL_158_160_L_0							
74 D	2.057	0.000	69.35	41.15	69.35	41.15	V-C	2.7008E+05	-3.650	0.000	1.000
1.000	41.15	0.000	0.000	5AL_158_160_L_0							
75 D	2.085	0.000	70.30	41.71	70.30	41.71	V-C	2.7008E+05	-3.700	0.000	1.000
1.000	41.71	0.000	0.000	5AL_158_160_L_0							
76 D	2.114	0.000	71.25	42.27	71.25	42.27	V-C	2.7008E+05	-3.750	0.000	1.000
1.000	42.27	0.000	0.000	5AL_158_160_L_0							
77 D	2.142	0.000	72.20	42.84	72.20	42.84	V-C	2.7008E+05	-3.800	0.000	1.000
1.000	42.84	0.000	0.000	5AL_158_160_L_0							
78 D	2.170	0.000	73.15	43.40	73.15	43.40	V-C	2.7008E+05	-3.850	0.000	1.000
1.000	43.40	0.000	0.000	5AL_158_160_L_0							
79 D	2.198	0.000	74.10	43.96	74.10	43.96	V-C	2.7008E+05	-3.900	0.000	1.000
1.000	43.96	0.000	0.000	5AL_158_160_L_0							
80 D	2.226	0.000	75.05	44.53	75.05	44.53	V-C	2.7008E+05	-3.950	0.000	1.000
1.000	44.53	0.000	0.000	5AL_158_160_L_0							
81 D	2.255	0.000	76.00	45.09	76.00	45.09	V-C	2.7008E+05	-4.000	0.000	1.000
1.000	45.09	0.000	0.000	5AL_158_160_L_0							
82 D	2.293	0.000	76.45	45.36	76.45	45.36	V-C	2.7008E+05	-4.050	0.5000	1.000
1.000	45.36	0.000	0.000	5AL_158_160_L_0							
83 D	2.331	0.000	76.90	45.62	76.90	45.62	V-C	2.7008E+05	-4.100	1.000	1.000
1.000	46.62	0.000	0.000	5AL_158_160_L_0							
84 D	2.370	0.000	77.35	45.89	77.35	45.89	V-C	2.7008E+05	-4.150	1.500	1.000
1.000	47.39	0.000	0.000	5AL_158_160_L_0							
85 D	2.408	0.000	77.80	46.16	77.80	46.16	V-C	2.7008E+05	-4.200	2.000	1.000
1.000	48.16	0.000	0.000	5AL_158_160_L_0							
86 D	2.446	0.000	78.25	46.43	78.25	46.43	V-C	2.7008E+05	-4.250	2.500	1.000
1.000	48.93	0.000	0.000	5AL_158_160_L_0							
87 D	2.485	0.000	78.70	46.69	78.70	46.69	V-C	2.7008E+05	-4.300	3.000	1.000
1.000	49.69	0.000	0.000	5AL_158_160_L_0							
88 D	2.523	0.000	79.15	46.96	79.15	46.96	V-C	2.7008E+05	-4.350	3.500	1.000
1.000	50.46	0.000	0.000	5AL_158_160_L_0							
89 D	2.561	0.000	79.60	47.23	79.60	47.23	V-C	2.7008E+05	-4.400	4.000	1.000
1.000	51.23	0.000	0.000	5AL_158_160_L_0							
90 D	2.600	0.000	80.05	47.49	80.05	47.49	V-C	2.7008E+05	-4.450	4.500	1.000
1.000	51.99	0.000	0.000	5AL_158_160_L_0							
91 D	2.638	0.000	80.50	47.76	80.50	47.76	V-C	2.7008E+05	-4.500	5.000	1.000
1.000	52.76	0.000	0.000	5AL_158_160_L_0							
92 D	2.676	0.000	80.95	48.03	80.95	48.03	V-C	2.7008E+05	-4.550	5.500	1.000
1.000	53.53	0.000	0.000	5AL_158_160_L_0							
93 D	2.715	0.000	81.40	48.29	81.40	48.29	V-C	2.7008E+05	-4.600	6.000	1.000
1.000	54.29	0.000	0.000	5AL_158_160_L_0							
94 D	2.753	0.000	81.85	48.56	81.85	48.56	V-C	2.7008E+05	-4.650	6.500	1.000
1.000	55.06	0.000	0.000	5AL_158_160_L_0							
95 D	2.791	0.000	82.30	48.83	82.30	48.83	V-C	2.7008E+05	-4.700	7.000	1.000
1.000	55.83	0.000	0.000	5AL_158_160_L_0							
96 D	2.830	0.000	82.75	49.10	82.75	49.10	V-C	2.7008E+05	-4.750	7.500	1.000
1.000	56.60	0.000	0.000	5AL_158_160_L_0							
97 D	2.868	0.000	83.20	49.36	83.20	49.36	V-C	2.7008E+05	-4.800	8.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	357 di 401

1.000	57.36	0.000	0.000	5AL_158_160_L_0							
98 D	2.906	0.000	83.65	49.63	83.65	49.63	V-C	2.7008E+05	-4.850	8.500	1.000
1.000	58.13	0.000	0.000	5AL_158_160_L_0							
99 D	2.945	0.000	84.10	49.90	84.10	49.90	V-C	2.7008E+05	-4.900	9.000	1.000
1.000	58.90	0.000	0.000	5AL_158_160_L_0							
100 D	2.983	0.000	84.55	50.16	84.55	50.16	V-C	2.7008E+05	-4.950	9.500	1.000
1.000	59.66	0.000	0.000	5AL_158_160_L_0							
101 D	3.022	0.000	85.00	50.43	85.00	50.43	V-C	2.7008E+05	-5.000	10.00	1.000
1.000	60.43	0.000	0.000	5AL_158_160_L_0							
102 D	3.060	0.000	85.45	50.70	85.45	50.70	V-C	2.7008E+05	-5.050	10.50	1.000
1.000	61.20	0.000	0.000	5AL_158_160_L_0							
103 D	3.098	0.000	85.90	50.96	85.90	50.96	V-C	2.7008E+05	-5.100	11.00	1.000
1.000	61.96	0.000	0.000	5AL_158_160_L_0							
104 D	3.137	0.000	86.35	51.23	86.35	51.23	V-C	2.7008E+05	-5.150	11.50	1.000
1.000	62.73	0.000	0.000	5AL_158_160_L_0							
105 D	3.175	0.000	86.80	51.50	86.80	51.50	V-C	2.7008E+05	-5.200	12.00	1.000
1.000	63.50	0.000	0.000	5AL_158_160_L_0							
106 D	3.213	0.000	87.25	51.77	87.25	51.77	V-C	2.7008E+05	-5.250	12.50	1.000
1.000	64.27	0.000	0.000	5AL_158_160_L_0							
107 D	3.252	0.000	87.70	52.03	87.70	52.03	V-C	2.7008E+05	-5.300	13.00	1.000
1.000	65.03	0.000	0.000	5AL_158_160_L_0							
108 D	3.290	0.000	88.15	52.30	88.15	52.30	V-C	2.7008E+05	-5.350	13.50	1.000
1.000	65.80	0.000	0.000	5AL_158_160_L_0							
109 D	3.328	0.000	88.60	52.57	88.60	52.57	V-C	2.7008E+05	-5.400	14.00	1.000
1.000	66.57	0.000	0.000	5AL_158_160_L_0							
110 D	3.367	0.000	89.05	52.83	89.05	52.83	V-C	2.7008E+05	-5.450	14.50	1.000
1.000	67.33	0.000	0.000	5AL_158_160_L_0							
111 D	3.405	0.000	89.50	53.10	89.50	53.10	V-C	2.7008E+05	-5.500	15.00	1.000
1.000	68.10	0.000	0.000	5AL_158_160_L_0							
112 D	3.443	0.000	89.95	53.37	89.95	53.37	V-C	2.7008E+05	-5.550	15.50	1.000
1.000	68.87	0.000	0.000	5AL_158_160_L_0							
113 D	3.482	0.000	90.40	53.63	90.40	53.63	V-C	2.7008E+05	-5.600	16.00	1.000
1.000	69.63	0.000	0.000	5AL_158_160_L_0							
114 D	3.520	0.000	90.85	53.90	90.85	53.90	V-C	2.7008E+05	-5.650	16.50	1.000
1.000	70.40	0.000	0.000	5AL_158_160_L_0							
115 D	3.558	0.000	91.30	54.17	91.30	54.17	V-C	2.7008E+05	-5.700	17.00	1.000
1.000	71.17	0.000	0.000	5AL_158_160_L_0							
116 D	3.597	0.000	91.75	54.44	91.75	54.44	V-C	2.7008E+05	-5.750	17.50	1.000
1.000	71.94	0.000	0.000	5AL_158_160_L_0							
117 D	3.635	0.000	92.20	54.70	92.20	54.70	V-C	2.7008E+05	-5.800	18.00	1.000
1.000	72.70	0.000	0.000	5AL_158_160_L_0							
118 D	3.673	0.000	92.65	54.97	92.65	54.97	V-C	2.7008E+05	-5.850	18.50	1.000
1.000	73.47	0.000	0.000	5AL_158_160_L_0							
119 D	3.712	0.000	93.10	55.24	93.10	55.24	V-C	2.7008E+05	-5.900	19.00	1.000
1.000	74.24	0.000	0.000	5AL_158_160_L_0							
120 D	3.750	0.000	93.55	55.50	93.55	55.50	V-C	2.7008E+05	-5.950	19.50	1.000
1.000	75.00	0.000	0.000	5AL_158_160_L_0							
121 D	3.789	0.000	94.00	55.77	94.00	55.77	V-C	2.7008E+05	-6.000	20.00	1.000
1.000	75.77	0.000	0.000	5AL_158_160_L_0							
122 D	3.827	0.000	94.45	56.04	94.45	56.04	V-C	2.7008E+05	-6.050	20.50	1.000
1.000	76.54	0.000	0.000	5AL_158_160_L_0							
123 D	3.865	0.000	94.90	56.30	94.90	56.30	V-C	2.7008E+05	-6.100	21.00	1.000
1.000	77.30	0.000	0.000	5AL_158_160_L_0							
124 D	3.904	0.000	95.35	56.57	95.35	56.57	V-C	2.7008E+05	-6.150	21.50	1.000
1.000	78.07	0.000	0.000	5AL_158_160_L_0							
125 D	3.942	0.000	95.80	56.84	95.80	56.84	V-C	2.7008E+05	-6.200	22.00	1.000
1.000	78.84	0.000	0.000	5AL_158_160_L_0							
126 D	3.980	0.000	96.25	57.11	96.25	57.11	V-C	2.7008E+05	-6.250	22.50	1.000
1.000	79.61	0.000	0.000	5AL_158_160_L_0							
127 D	4.019	0.000	96.70	57.37	96.70	57.37	V-C	2.7008E+05	-6.300	23.00	1.000
1.000	80.37	0.000	0.000	5AL_158_160_L_0							
128 D	4.057	0.000	97.15	57.64	97.15	57.64	V-C	2.7008E+05	-6.350	23.50	1.000
1.000	81.14	0.000	0.000	5AL_158_160_L_0							
129 D	4.095	0.000	97.60	57.91	97.60	57.91	V-C	2.7008E+05	-6.400	24.00	1.000
1.000	81.91	0.000	0.000	5AL_158_160_L_0							
130 D	4.134	0.000	98.05	58.17	98.05	58.17	V-C	2.7008E+05	-6.450	24.50	1.000
1.000	82.67	0.000	0.000	5AL_158_160_L_0							
131 D	4.172	0.000	98.50	58.44	98.50	58.44	V-C	2.7008E+05	-6.500	25.00	1.000
1.000	83.44	0.000	0.000	5AL_158_160_L_0							
132 D	4.210	0.000	98.95	58.71	98.95	58.71	V-C	2.7008E+05	-6.550	25.50	1.000
1.000	84.21	0.000	0.000	5AL_158_160_L_0							
133 D	4.249	0.000	99.40	58.97	99.40	58.97	V-C	2.7008E+05	-6.600	26.00	1.000
1.000	84.97	0.000	0.000	5AL_158_160_L_0							
134 D	4.287	0.000	99.85	59.24	99.85	59.24	V-C	2.7008E+05	-6.650	26.50	1.000
1.000	85.74	0.000	0.000	5AL_158_160_L_0							
135 D	4.325	0.000	100.3	59.51	100.3	59.51	V-C	2.7008E+05	-6.700	27.00	1.000
1.000	86.51	0.000	0.000	5AL_158_160_L_0							
136 D	4.364	0.000	100.8	59.78	100.8	59.78	V-C	2.7008E+05	-6.750	27.50	1.000
1.000	87.28	0.000	0.000	5AL_158_160_L_0							
137 D	4.402	0.000	101.2	60.04	101.2	60.04	V-C	2.7008E+05	-6.800	28.00	1.000
1.000	88.04	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VID100 004	A	358 di 401

138 D	4.440	0.000	101.7	60.31	101.7	60.31	V-C	2.7008E+05	-6.850	28.50	1.000
1.000	88.81	0.000	0.000	5AL_158_160_L_0							
139 D	4.479	0.000	102.1	60.58	102.1	60.58	V-C	2.7008E+05	-6.900	29.00	1.000
1.000	89.58	0.000	0.000	5AL_158_160_L_0							
140 D	4.517	0.000	102.6	60.84	102.6	60.84	V-C	2.7008E+05	-6.950	29.50	1.000
1.000	90.34	0.000	0.000	5AL_158_160_L_0							
141 D	4.556	0.000	103.0	61.11	103.0	61.11	V-C	2.7008E+05	-7.000	30.00	1.000
1.000	91.11	0.000	0.000	5AL_158_160_L_0							
142 D	4.594	0.000	103.5	61.38	103.5	61.38	V-C	2.7008E+05	-7.050	30.50	1.000
1.000	91.88	0.000	0.000	5AL_158_160_L_0							
143 D	4.632	0.000	103.9	61.64	103.9	61.64	V-C	2.7008E+05	-7.100	31.00	1.000
1.000	92.64	0.000	0.000	5AL_158_160_L_0							
144 D	4.671	0.000	104.4	61.91	104.4	61.91	V-C	2.7008E+05	-7.150	31.50	1.000
1.000	93.41	0.000	0.000	5AL_158_160_L_0							
145 D	4.709	0.000	104.8	62.18	104.8	62.18	V-C	2.7008E+05	-7.200	32.00	1.000
1.000	94.18	0.000	0.000	5AL_158_160_L_0							
146 D	4.747	0.000	105.3	62.44	105.3	62.44	V-C	2.7008E+05	-7.250	32.50	1.000
1.000	94.94	0.000	0.000	5AL_158_160_L_0							
147 D	4.786	0.000	105.7	62.71	105.7	62.71	V-C	2.7008E+05	-7.300	33.00	1.000
1.000	95.71	0.000	0.000	5AL_158_160_L_0							
148 D	4.824	0.000	106.2	62.98	106.2	62.98	V-C	2.7008E+05	-7.350	33.50	1.000
1.000	96.48	0.000	0.000	5AL_158_160_L_0							
149 D	4.862	0.000	106.6	63.25	106.6	63.25	V-C	2.7008E+05	-7.400	34.00	1.000
1.000	97.25	0.000	0.000	5AL_158_160_L_0							
150 D	4.901	0.000	107.1	63.51	107.1	63.51	V-C	2.7008E+05	-7.450	34.50	1.000
1.000	98.01	0.000	0.000	5AL_158_160_L_0							
151 D	4.939	0.000	107.5	63.78	107.5	63.78	V-C	2.7008E+05	-7.500	35.00	1.000
1.000	98.78	0.000	0.000	5AL_158_160_L_0							
152 D	4.977	0.000	108.0	64.05	108.0	64.05	V-C	2.7008E+05	-7.550	35.50	1.000
1.000	99.55	0.000	0.000	5AL_158_160_L_0							
153 D	5.016	0.000	108.4	64.31	108.4	64.31	V-C	2.7008E+05	-7.600	36.00	1.000
1.000	100.3	0.000	0.000	5AL_158_160_L_0							
154 D	5.054	0.000	108.9	64.58	108.9	64.58	V-C	2.7008E+05	-7.650	36.50	1.000
1.000	101.1	0.000	0.000	5AL_158_160_L_0							
155 D	5.092	0.000	109.3	64.85	109.3	64.85	V-C	2.7008E+05	-7.700	37.00	1.000
1.000	101.8	0.000	0.000	5AL_158_160_L_0							
156 D	5.131	0.000	109.8	65.11	109.8	65.11	V-C	2.7008E+05	-7.750	37.50	1.000
1.000	102.6	0.000	0.000	5AL_158_160_L_0							
157 D	5.169	0.000	110.2	65.38	110.2	65.38	V-C	2.7008E+05	-7.800	38.00	1.000
1.000	103.4	0.000	0.000	5AL_158_160_L_0							
158 D	5.207	0.000	110.7	65.65	110.7	65.65	V-C	2.7008E+05	-7.850	38.50	1.000
1.000	104.1	0.000	0.000	5AL_158_160_L_0							
159 D	5.246	0.000	111.1	65.92	111.1	65.92	V-C	2.7008E+05	-7.900	39.00	1.000
1.000	104.9	0.000	0.000	5AL_158_160_L_0							
160 D	5.284	0.000	111.6	66.18	111.6	66.18	V-C	2.7008E+05	-7.950	39.50	1.000
1.000	105.7	0.000	0.000	5AL_158_160_L_0							
161 D	5.322	0.000	112.0	66.45	112.0	66.45	V-C	2.7008E+05	-8.000	40.00	1.000
1.000	106.4	0.000	0.000	5AL_158_160_L_0							
162 D	5.361	0.000	112.5	66.72	112.5	66.72	V-C	2.7008E+05	-8.050	40.50	1.000
1.000	107.2	0.000	0.000	5AL_158_160_L_0							
163 D	5.399	0.000	112.9	66.98	112.9	66.98	V-C	2.7008E+05	-8.100	41.00	1.000
1.000	108.0	0.000	0.000	5AL_158_160_L_0							
164 D	5.438	0.000	113.4	67.25	113.4	67.25	V-C	2.7008E+05	-8.150	41.50	1.000
1.000	108.8	0.000	0.000	5AL_158_160_L_0							
165 D	5.476	0.000	113.8	67.52	113.8	67.52	V-C	2.7008E+05	-8.200	42.00	1.000
1.000	109.5	0.000	0.000	5AL_158_160_L_0							
166 D	5.514	0.000	114.3	67.78	114.3	67.78	V-C	2.7008E+05	-8.250	42.50	1.000
1.000	110.3	0.000	0.000	5AL_158_160_L_0							
167 D	5.553	0.000	114.7	68.05	114.7	68.05	V-C	2.7008E+05	-8.300	43.00	1.000
1.000	111.1	0.000	0.000	5AL_158_160_L_0							
168 D	5.591	0.000	115.2	68.32	115.2	68.32	V-C	2.7008E+05	-8.350	43.50	1.000
1.000	111.8	0.000	0.000	5AL_158_160_L_0							
169 D	5.629	0.000	115.6	68.59	115.6	68.59	V-C	2.7008E+05	-8.400	44.00	1.000
1.000	112.6	0.000	0.000	5AL_158_160_L_0							
170 D	5.668	0.000	116.1	68.85	116.1	68.85	V-C	2.7008E+05	-8.450	44.50	1.000
1.000	113.4	0.000	0.000	5AL_158_160_L_0							
171 D	5.706	0.000	116.5	69.12	116.5	69.12	V-C	2.7008E+05	-8.500	45.00	1.000
1.000	114.1	0.000	0.000	5AL_158_160_L_0							
172 D	5.744	0.000	117.0	69.39	117.0	69.39	V-C	2.7008E+05	-8.550	45.50	1.000
1.000	114.9	0.000	0.000	5AL_158_160_L_0							
173 D	5.783	0.000	117.4	69.65	117.4	69.65	V-C	2.7008E+05	-8.600	46.00	1.000
1.000	115.7	0.000	0.000	5AL_158_160_L_0							
174 D	5.821	0.000	117.9	69.92	117.9	69.92	V-C	2.7008E+05	-8.650	46.50	1.000
1.000	116.4	0.000	0.000	5AL_158_160_L_0							
175 D	5.859	0.000	118.3	70.19	118.3	70.19	V-C	2.7008E+05	-8.700	47.00	1.000
1.000	117.2	0.000	0.000	5AL_158_160_L_0							
176 D	5.898	0.000	118.8	70.45	118.8	70.45	V-C	2.7008E+05	-8.750	47.50	1.000
1.000	118.0	0.000	0.000	5AL_158_160_L_0							
177 D	5.936	0.000	119.2	70.72	119.2	70.72	V-C	2.7008E+05	-8.800	48.00	1.000
1.000	118.7	0.000	0.000	5AL_158_160_L_0							
178 D	5.974	0.000	119.7	70.99	119.7	70.99	V-C	2.7008E+05	-8.850	48.50	1.000

OPERE PROVVISORIALI					COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
RELAZIONE DI CALCOLO					LI00	01	D 09CL	VI0100 004	A	359 di 401
1.000		119.5	0.000	0.000			SAL_158_160_L_0			
179 D	6.013		0.000	120.1	71.26		71.26 120.1	-8.900	49.00	1.000
1.000		120.3	0.000	0.000			SAL_158_160_L_0			
180 D	6.051		0.000	120.6	71.52		71.52 120.6	-8.950	49.50	1.000
1.000		121.0	0.000	0.000			SAL_158_160_L_0			
181 D	6.089		0.000	121.0	71.79		71.79 121.0	-9.000	50.00	1.000
1.000		121.8	0.000	0.000			SAL_158_160_L_0			
182 D	6.128		0.000	121.5	72.06		72.06 121.5	-9.050	50.50	1.000
1.000		122.6	0.000	0.000			SAL_158_160_L_0			
183 D	6.166		0.000	121.9	72.32		72.32 121.9	-9.100	51.00	1.000
1.000		123.3	0.000	0.000			SAL_158_160_L_0			
184 D	6.205		0.000	122.4	72.59		72.59 122.4	-9.150	51.50	1.000
1.000		124.1	0.000	0.000			SAL_158_160_L_0			
185 D	6.243		0.000	122.8	72.86		72.86 122.8	-9.200	52.00	1.000
1.000		124.9	0.000	0.000			SAL_158_160_L_0			
186 D	6.281		0.000	123.3	73.12		73.12 123.3	-9.250	52.50	1.000
1.000		125.6	0.000	0.000			SAL_158_160_L_0			
187 D	6.320		0.000	123.7	73.39		73.39 123.7	-9.300	53.00	1.000
1.000		126.4	0.000	0.000			SAL_158_160_L_0			
188 D	6.358		0.000	124.2	73.66		73.66 124.2	-9.350	53.50	1.000
1.000		127.2	0.000	0.000			SAL_158_160_L_0			
189 D	6.396		0.000	124.6	73.93		73.93 124.6	-9.400	54.00	1.000
1.000		127.9	0.000	0.000			SAL_158_160_L_0			
190 D	6.435		0.000	125.1	74.19		74.19 125.1	-9.450	54.50	1.000
1.000		128.7	0.000	0.000			SAL_158_160_L_0			
191 D	6.473		0.000	125.5	74.46		74.46 125.5	-9.500	55.00	1.000
1.000		129.5	0.000	0.000			SAL_158_160_L_0			
192 D	6.511		0.000	126.0	74.73		74.73 126.0	-9.550	55.50	1.000
1.000		130.2	0.000	0.000			SAL_158_160_L_0			
193 D	6.550		0.000	126.4	74.99		74.99 126.4	-9.600	56.00	1.000
1.000		131.0	0.000	0.000			SAL_158_160_L_0			
194 D	6.588		0.000	126.9	75.26		75.26 126.9	-9.650	56.50	1.000
1.000		131.8	0.000	0.000			SAL_158_160_L_0			
195 D	6.626		0.000	127.3	75.53		75.53 127.3	-9.700	57.00	1.000
1.000		132.5	0.000	0.000			SAL_158_160_L_0			
196 D	6.665		0.000	127.8	75.79		75.79 127.8	-9.750	57.50	1.000
1.000		133.3	0.000	0.000			SAL_158_160_L_0			
197 D	6.703		0.000	128.2	76.06		76.06 128.2	-9.800	58.00	1.000
1.000		134.1	0.000	0.000			SAL_158_160_L_0			
198 D	6.741		0.000	128.7	76.33		76.33 128.7	-9.850	58.50	1.000
1.000		134.8	0.000	0.000			SAL_158_160_L_0			
199 D	6.780		0.000	129.1	76.60		76.60 129.1	-9.900	59.00	1.000
1.000		135.6	0.000	0.000			SAL_158_160_L_0			
200 D	6.817		0.000	129.6	76.86		76.86 129.6	-9.950	59.50	1.000
1.000		136.4	0.000	0.000			SAL_158_160_L_0			
201 D	3.427		0.000	130.0	77.13		77.13 130.0	-10.00	60.00	1.000
1.000		137.1	0.000	0.000			SAL_158_160_L_0			



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VID100 004	A	360 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

O_R
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.6034E+05	0.000	0.000	1.000
1.000	0.000	0.000	0.000	5AL_158_160_L_0	0.5636	0.9500					
2 D	2.8182E-02	0.000	0.9500	0.5636	0.9500	0.5636	V-C	2.6034E+05	-5.0000E-02	0.000	1.000
1.000	0.5636	0.000	0.000	5AL_158_160_L_0	1.127	1.900					
3 D	5.6364E-02	0.000	1.900	1.127	1.900	1.127	V-C	2.6034E+05	-0.1000	0.000	1.000
1.000	1.127	0.000	0.000	5AL_158_160_L_0	1.691	2.850					
4 D	8.4545E-02	0.000	2.850	1.691	2.850	1.691	V-C	2.6034E+05	-0.1500	0.000	1.000
1.000	1.691	0.000	0.000	5AL_158_160_L_0	2.255	3.800					
5 D	0.1127	0.000	3.800	2.255	3.800	2.255	V-C	2.6034E+05	-0.2000	0.000	1.000
1.000	2.255	0.000	0.000	5AL_158_160_L_0	2.818	4.750					
6 D	0.1409	0.000	4.750	2.818	4.750	2.818	V-C	2.6034E+05	-0.2500	0.000	1.000
1.000	2.818	0.000	0.000	5AL_158_160_L_0	3.382	5.700					
7 D	0.1691	0.000	5.700	3.382	5.700	3.382	V-C	2.6034E+05	-0.3000	0.000	1.000
1.000	3.382	0.000	0.000	5AL_158_160_L_0	3.945	6.650					
8 D	0.1973	0.000	6.650	3.945	6.650	3.945	V-C	2.6034E+05	-0.3500	0.000	1.000
1.000	3.945	0.000	0.000	5AL_158_160_L_0	4.509	7.600					
9 D	0.2255	0.000	7.600	4.509	7.600	4.509	V-C	2.6034E+05	-0.4000	0.000	1.000
1.000	4.509	0.000	0.000	5AL_158_160_L_0	5.073	8.550					
10 D	0.2536	0.000	8.550	5.073	8.550	5.073	V-C	2.6034E+05	-0.4500	0.000	1.000
1.000	5.073	0.000	0.000	5AL_158_160_L_0	5.636	9.500					
11 D	0.2818	0.000	9.500	5.636	9.500	5.636	V-C	2.6034E+05	-0.5000	0.000	1.000
1.000	5.636	0.000	0.000	5AL_158_160_L_0	6.200	10.45					
12 D	0.3100	0.000	10.45	6.200	10.45	6.200	V-C	2.6034E+05	-0.5500	0.000	1.000
1.000	6.200	0.000	0.000	5AL_158_160_L_0	6.764	11.40					
13 D	0.3382	0.000	11.40	6.764	11.40	6.764	V-C	2.6034E+05	-0.6000	0.000	1.000
1.000	6.764	0.000	0.000	5AL_158_160_L_0	7.327	12.35					
14 D	0.3664	0.000	12.35	7.327	12.35	7.327	V-C	2.6034E+05	-0.6500	0.000	1.000
1.000	7.327	0.000	0.000	5AL_158_160_L_0	7.891	13.30					
15 D	0.3945	0.000	13.30	7.891	13.30	7.891	V-C	2.6034E+05	-0.7000	0.000	1.000
1.000	7.891	0.000	0.000	5AL_158_160_L_0	8.455	14.25					
16 D	0.4227	0.000	14.25	8.455	14.25	8.455	V-C	2.6034E+05	-0.7500	0.000	1.000
1.000	8.455	0.000	0.000	5AL_158_160_L_0	9.018	15.20					
17 D	0.4509	0.000	15.20	9.018	15.20	9.018	V-C	2.6034E+05	-0.8000	0.000	1.000
1.000	9.018	0.000	0.000	5AL_158_160_L_0	9.582	16.15					
18 D	0.4791	0.000	16.15	9.582	16.15	9.582	V-C	2.6034E+05	-0.8500	0.000	1.000
1.000	9.582	0.000	0.000	5AL_158_160_L_0	10.15	17.10					
19 D	0.5073	0.000	17.10	10.15	17.10	10.15	V-C	2.6034E+05	-0.9000	0.000	1.000
1.000	10.15	0.000	0.000	5AL_158_160_L_0	10.71	18.05					
20 D	0.5355	0.000	18.05	10.71	18.05	10.71	V-C	2.6034E+05	-0.9500	0.000	1.000
1.000	10.71	0.000	0.000	5AL_158_160_L_0	11.27	19.00					
21 D	0.5636	0.000	19.00	11.27	19.00	11.27	V-C	2.6034E+05	-1.000	0.000	1.000
1.000	11.27	0.000	0.000	5AL_158_160_L_0	11.84	19.95					
22 D	0.5918	0.000	19.95	11.84	19.95	11.84	V-C	2.6034E+05	-1.050	0.000	1.000
1.000	11.84	0.000	0.000	5AL_158_160_L_0	12.40	20.90					
23 D	0.6200	0.000	20.90	12.40	20.90	12.40	V-C	2.6034E+05	-1.100	0.000	1.000
1.000	12.40	0.000	0.000	5AL_158_160_L_0	12.96	21.85					
24 D	0.6482	0.000	21.85	12.96	21.85	12.96	V-C	2.6034E+05	-1.150	0.000	1.000
1.000	12.96	0.000	0.000	5AL_158_160_L_0	13.53	22.80					
25 D	0.6764	0.000	22.80	13.53	22.80	13.53	V-C	2.6034E+05	-1.200	0.000	1.000
1.000	13.53	0.000	0.000	5AL_158_160_L_0	14.09	23.75					
26 D	0.7045	0.000	23.75	14.09	23.75	14.09	V-C	2.6034E+05	-1.250	0.000	1.000
1.000	14.09	0.000	0.000	5AL_158_160_L_0	14.65	24.70					
27 D	0.7327	0.000	24.70	14.65	24.70	14.65	V-C	2.6034E+05	-1.300	0.000	1.000
1.000	14.65	0.000	0.000	5AL_158_160_L_0	15.22	25.65					
28 D	0.7609	0.000	25.65	15.22	25.65	15.22	V-C	2.6034E+05	-1.350	0.000	1.000

OPERE PROVVISORIALI				COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO	
RELAZIONE DI CALCOLO				LI00	01	D 09CL	VI0100 004	A	361 di 401	
1.000	15.22	0.000	0.000	5AL_158_160_L_0						
29 D	0.7891	0.000	26.60	15.78	26.60	15.78	V-C 2.6034E+05	-1.400	0.000	1.000
1.000	15.78	0.000	0.000	5AL_158_160_L_0						
30 D	0.8173	0.000	27.55	16.35	27.55	16.35	V-C 2.6034E+05	-1.450	0.000	1.000
1.000	16.35	0.000	0.000	5AL_158_160_L_0						
31 D	0.8455	0.000	28.50	16.91	28.50	16.91	V-C 2.6034E+05	-1.500	0.000	1.000
1.000	16.91	0.000	0.000	5AL_158_160_L_0						
32 D	0.8736	0.000	29.45	17.47	29.45	17.47	V-C 2.6034E+05	-1.550	0.000	1.000
1.000	17.47	0.000	0.000	5AL_158_160_L_0						
33 D	0.9018	0.000	30.40	18.04	30.40	18.04	V-C 2.6034E+05	-1.600	0.000	1.000
1.000	18.04	0.000	0.000	5AL_158_160_L_0						
34 D	0.9300	0.000	31.35	18.60	31.35	18.60	V-C 2.6034E+05	-1.650	0.000	1.000
1.000	18.60	0.000	0.000	5AL_158_160_L_0						
35 D	0.9582	0.000	32.30	19.16	32.30	19.16	V-C 2.6034E+05	-1.700	0.000	1.000
1.000	19.16	0.000	0.000	5AL_158_160_L_0						
36 D	0.9864	0.000	33.25	19.73	33.25	19.73	V-C 2.6034E+05	-1.750	0.000	1.000
1.000	19.73	0.000	0.000	5AL_158_160_L_0						
37 D	1.015	0.000	34.20	20.29	34.20	20.29	V-C 2.6034E+05	-1.800	0.000	1.000
1.000	20.29	0.000	0.000	5AL_158_160_L_0						
38 D	1.043	0.000	35.15	20.85	35.15	20.85	V-C 2.6034E+05	-1.850	0.000	1.000
1.000	20.85	0.000	0.000	5AL_158_160_L_0						
39 D	1.071	0.000	36.10	21.42	36.10	21.42	V-C 2.6034E+05	-1.900	0.000	1.000
1.000	21.42	0.000	0.000	5AL_158_160_L_0						
40 D	1.099	0.000	37.05	21.98	37.05	21.98	V-C 2.6034E+05	-1.950	0.000	1.000
1.000	21.98	0.000	0.000	5AL_158_160_L_0						
41 D	1.127	0.000	38.00	22.55	38.00	22.55	V-C 2.6034E+05	-2.000	0.000	1.000
1.000	22.55	0.000	0.000	5AL_158_160_L_0						
42 D	1.155	0.000	38.95	23.11	38.95	23.11	V-C 2.6034E+05	-2.050	0.000	1.000
1.000	23.11	0.000	0.000	5AL_158_160_L_0						
43 D	1.184	0.000	39.90	23.67	39.90	23.67	V-C 2.6034E+05	-2.100	0.000	1.000
1.000	23.67	0.000	0.000	5AL_158_160_L_0						
44 D	1.212	0.000	40.85	24.24	40.85	24.24	V-C 2.6034E+05	-2.150	0.000	1.000
1.000	24.24	0.000	0.000	5AL_158_160_L_0						
45 D	1.240	0.000	41.80	24.80	41.80	24.80	V-C 2.6034E+05	-2.200	0.000	1.000
1.000	24.80	0.000	0.000	5AL_158_160_L_0						
46 D	1.268	0.000	42.75	25.36	42.75	25.36	V-C 2.6034E+05	-2.250	0.000	1.000
1.000	25.36	0.000	0.000	5AL_158_160_L_0						
47 D	1.296	0.000	43.70	25.93	43.70	25.93	V-C 2.6034E+05	-2.300	0.000	1.000
1.000	25.93	0.000	0.000	5AL_158_160_L_0						
48 D	1.325	0.000	44.65	26.49	44.65	26.49	V-C 2.6034E+05	-2.350	0.000	1.000
1.000	26.49	0.000	0.000	5AL_158_160_L_0						
49 D	1.353	0.000	45.60	27.05	45.60	27.05	V-C 2.6034E+05	-2.400	0.000	1.000
1.000	27.05	0.000	0.000	5AL_158_160_L_0						
50 D	1.381	0.000	46.55	27.62	46.55	27.62	V-C 2.6034E+05	-2.450	0.000	1.000
1.000	27.62	0.000	0.000	5AL_158_160_L_0						
51 D	1.409	0.000	47.50	28.18	47.50	28.18	V-C 2.6034E+05	-2.500	0.000	1.000
1.000	28.18	0.000	0.000	5AL_158_160_L_0						
52 D	1.437	0.000	48.45	28.75	48.45	28.75	V-C 2.6034E+05	-2.550	0.000	1.000
1.000	28.75	0.000	0.000	5AL_158_160_L_0						
53 D	1.465	0.000	49.40	29.31	49.40	29.31	V-C 2.6034E+05	-2.600	0.000	1.000
1.000	29.31	0.000	0.000	5AL_158_160_L_0						
54 D	1.494	0.000	50.35	29.87	50.35	29.87	V-C 2.6034E+05	-2.650	0.000	1.000
1.000	29.87	0.000	0.000	5AL_158_160_L_0						
55 D	1.522	0.000	51.30	30.44	51.30	30.44	V-C 2.6034E+05	-2.700	0.000	1.000
1.000	30.44	0.000	0.000	5AL_158_160_L_0						
56 D	1.550	0.000	52.25	31.00	52.25	31.00	V-C 2.6034E+05	-2.750	0.000	1.000
1.000	31.00	0.000	0.000	5AL_158_160_L_0						
57 D	1.578	0.000	53.20	31.56	53.20	31.56	V-C 2.6034E+05	-2.800	0.000	1.000
1.000	31.56	0.000	0.000	5AL_158_160_L_0						
58 D	1.606	0.000	54.15	32.13	54.15	32.13	V-C 2.6034E+05	-2.850	0.000	1.000
1.000	32.13	0.000	0.000	5AL_158_160_L_0						
59 D	1.635	0.000	55.10	32.69	55.10	32.69	V-C 2.6034E+05	-2.900	0.000	1.000
1.000	32.69	0.000	0.000	5AL_158_160_L_0						
60 D	1.663	0.000	56.05	33.25	56.05	33.25	V-C 2.6034E+05	-2.950	0.000	1.000
1.000	33.25	0.000	0.000	5AL_158_160_L_0						
61 D	1.691	0.000	57.00	33.82	57.00	33.82	V-C 2.6034E+05	-3.000	0.000	1.000
1.000	33.82	0.000	0.000	5AL_158_160_L_0						
62 D	1.719	0.000	57.95	34.38	57.95	34.38	V-C 2.6034E+05	-3.050	0.000	1.000
1.000	34.38	0.000	0.000	5AL_158_160_L_0						
63 D	1.747	0.000	58.90	34.95	58.90	34.95	V-C 2.6034E+05	-3.100	0.000	1.000
1.000	34.95	0.000	0.000	5AL_158_160_L_0						
64 D	1.775	0.000	59.85	35.51	59.85	35.51	V-C 2.6034E+05	-3.150	0.000	1.000
1.000	35.51	0.000	0.000	5AL_158_160_L_0						
65 D	1.804	0.000	60.80	36.07	60.80	36.07	V-C 2.6034E+05	-3.200	0.000	1.000
1.000	36.07	0.000	0.000	5AL_158_160_L_0						
66 D	1.832	0.000	61.75	36.64	61.75	36.64	V-C 2.6034E+05	-3.250	0.000	1.000
1.000	36.64	0.000	0.000	5AL_158_160_L_0						
67 D	1.860	0.000	62.70	37.20	62.70	37.20	V-C 2.6034E+05	-3.300	0.000	1.000
1.000	37.20	0.000	0.000	5AL_158_160_L_0						
68 D	1.888	0.000	63.65	37.76	63.65	37.76	V-C 2.6034E+05	-3.350	0.000	1.000
1.000	37.76	0.000	0.000	5AL_158_160_L_0						



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	362 di 401

69 D	1.916	0.000	64.60	38.33	64.60	38.33	V-C	2.6034E+05	-3.400	0.000	1.000
1.000	38.33	0.000	0.000	5AL_158_160_L_0							
70 D	1.945	0.000	65.55	38.89	65.55	38.89	V-C	2.6034E+05	-3.450	0.000	1.000
1.000	38.89	0.000	0.000	5AL_158_160_L_0							
71 D	1.973	0.000	66.50	39.45	66.50	39.45	V-C	2.6034E+05	-3.500	0.000	1.000
1.000	39.45	0.000	0.000	5AL_158_160_L_0							
72 D	2.001	0.000	67.45	40.02	67.45	40.02	V-C	2.6034E+05	-3.550	0.000	1.000
1.000	40.02	0.000	0.000	5AL_158_160_L_0							
73 D	2.029	0.000	68.40	40.58	68.40	40.58	V-C	2.6034E+05	-3.600	0.000	1.000
1.000	40.58	0.000	0.000	5AL_158_160_L_0							
74 D	2.057	0.000	69.35	41.15	69.35	41.15	V-C	2.6034E+05	-3.650	0.000	1.000
1.000	41.15	0.000	0.000	5AL_158_160_L_0							
75 D	2.085	0.000	70.30	41.71	70.30	41.71	V-C	2.6034E+05	-3.700	0.000	1.000
1.000	41.71	0.000	0.000	5AL_158_160_L_0							
76 D	2.114	0.000	71.25	42.27	71.25	42.27	V-C	2.6034E+05	-3.750	0.000	1.000
1.000	42.27	0.000	0.000	5AL_158_160_L_0							
77 D	2.142	0.000	72.20	42.84	72.20	42.84	V-C	2.6034E+05	-3.800	0.000	1.000
1.000	42.84	0.000	0.000	5AL_158_160_L_0							
78 D	2.170	0.000	73.15	43.40	73.15	43.40	V-C	2.6034E+05	-3.850	0.000	1.000
1.000	43.40	0.000	0.000	5AL_158_160_L_0							
79 D	2.198	0.000	74.10	43.96	74.10	43.96	V-C	2.6034E+05	-3.900	0.000	1.000
1.000	43.96	0.000	0.000	5AL_158_160_L_0							
80 D	2.226	0.000	75.05	44.53	75.05	44.53	V-C	2.6034E+05	-3.950	0.000	1.000
1.000	44.53	0.000	0.000	5AL_158_160_L_0							
81 D	2.255	0.000	76.00	45.09	76.00	45.09	V-C	2.6034E+05	-4.000	0.000	1.000
1.000	45.09	0.000	0.000	5AL_158_160_L_0							
82 D	2.293	0.000	76.45	45.36	76.45	45.36	V-C	2.6034E+05	-4.050	0.5000	1.000
1.000	45.86	0.000	0.000	5AL_158_160_L_0							
83 D	2.331	0.000	76.90	45.62	76.90	45.62	V-C	2.6034E+05	-4.100	1.000	1.000
1.000	46.62	0.000	0.000	5AL_158_160_L_0							
84 D	2.370	0.000	77.35	45.89	77.35	45.89	V-C	2.6034E+05	-4.150	1.500	1.000
1.000	47.39	0.000	0.000	5AL_158_160_L_0							
85 D	2.408	0.000	77.80	46.16	77.80	46.16	V-C	2.6034E+05	-4.200	2.000	1.000
1.000	48.16	0.000	0.000	5AL_158_160_L_0							
86 D	2.446	0.000	78.25	46.43	78.25	46.43	V-C	2.6034E+05	-4.250	2.500	1.000
1.000	48.93	0.000	0.000	5AL_158_160_L_0							
87 D	2.485	0.000	78.70	46.69	78.70	46.69	V-C	2.6034E+05	-4.300	3.000	1.000
1.000	49.69	0.000	0.000	5AL_158_160_L_0							
88 D	2.523	0.000	79.15	46.96	79.15	46.96	V-C	2.6034E+05	-4.350	3.500	1.000
1.000	50.46	0.000	0.000	5AL_158_160_L_0							
89 D	2.561	0.000	79.60	47.23	79.60	47.23	V-C	2.6034E+05	-4.400	4.000	1.000
1.000	51.23	0.000	0.000	5AL_158_160_L_0							
90 D	2.600	0.000	80.05	47.49	80.05	47.49	V-C	2.6034E+05	-4.450	4.500	1.000
1.000	51.99	0.000	0.000	5AL_158_160_L_0							
91 D	2.638	0.000	80.50	47.76	80.50	47.76	V-C	2.6034E+05	-4.500	5.000	1.000
1.000	52.76	0.000	0.000	5AL_158_160_L_0							
92 D	2.676	0.000	80.95	48.03	80.95	48.03	V-C	2.6034E+05	-4.550	5.500	1.000
1.000	53.53	0.000	0.000	5AL_158_160_L_0							
93 D	2.715	0.000	81.40	48.29	81.40	48.29	V-C	2.6034E+05	-4.600	6.000	1.000
1.000	54.29	0.000	0.000	5AL_158_160_L_0							
94 D	2.753	0.000	81.85	48.56	81.85	48.56	V-C	2.6034E+05	-4.650	6.500	1.000
1.000	55.06	0.000	0.000	5AL_158_160_L_0							
95 D	2.791	0.000	82.30	48.83	82.30	48.83	V-C	2.6034E+05	-4.700	7.000	1.000
1.000	55.83	0.000	0.000	5AL_158_160_L_0							
96 D	2.830	0.000	82.75	49.10	82.75	49.10	V-C	2.6034E+05	-4.750	7.500	1.000
1.000	56.60	0.000	0.000	5AL_158_160_L_0							
97 D	2.868	0.000	83.20	49.36	83.20	49.36	V-C	2.6034E+05	-4.800	8.000	1.000
1.000	57.36	0.000	0.000	5AL_158_160_L_0							
98 D	2.906	0.000	83.65	49.63	83.65	49.63	V-C	2.6034E+05	-4.850	8.500	1.000
1.000	58.13	0.000	0.000	5AL_158_160_L_0							
99 D	2.945	0.000	84.10	49.90	84.10	49.90	V-C	2.6034E+05	-4.900	9.000	1.000
1.000	58.90	0.000	0.000	5AL_158_160_L_0							
100 D	2.983	0.000	84.55	50.16	84.55	50.16	V-C	2.6034E+05	-4.950	9.500	1.000
1.000	59.66	0.000	0.000	5AL_158_160_L_0							
101 D	3.022	0.000	85.00	50.43	85.00	50.43	V-C	2.6034E+05	-5.000	10.00	1.000
1.000	60.43	0.000	0.000	5AL_158_160_L_0							
102 D	3.060	0.000	85.45	50.70	85.45	50.70	V-C	2.6034E+05	-5.050	10.50	1.000
1.000	61.20	0.000	0.000	5AL_158_160_L_0							
103 D	3.098	0.000	85.90	50.96	85.90	50.96	V-C	2.6034E+05	-5.100	11.00	1.000
1.000	61.96	0.000	0.000	5AL_158_160_L_0							
104 D	3.137	0.000	86.35	51.23	86.35	51.23	V-C	2.6034E+05	-5.150	11.50	1.000
1.000	62.73	0.000	0.000	5AL_158_160_L_0							
105 D	3.175	0.000	86.80	51.50	86.80	51.50	V-C	2.6034E+05	-5.200	12.00	1.000
1.000	63.50	0.000	0.000	5AL_158_160_L_0							
106 D	3.213	0.000	87.25	51.77	87.25	51.77	V-C	2.6034E+05	-5.250	12.50	1.000
1.000	64.27	0.000	0.000	5AL_158_160_L_0							
107 D	3.252	0.000	87.70	52.03	87.70	52.03	V-C	2.6034E+05	-5.300	13.00	1.000
1.000	65.03	0.000	0.000	5AL_158_160_L_0							
108 D	3.290	0.000	88.15	52.30	88.15	52.30	V-C	2.6034E+05	-5.350	13.50	1.000
1.000	65.80	0.000	0.000	5AL_158_160_L_0							
109 D	3.328	0.000	88.60	52.57	88.60	52.57	V-C	2.6034E+05	-5.400	14.00	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

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COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
L100 01 D 09CL VI0100 004 A 363 di 401

RELAZIONE DI CALCOLO

1.000	66.57	0.000	0.000	5AL_158_160_L_0							
110 D	3.367	0.000	89.05	52.83	89.05	52.83	V-C	2.6034E+05	-5.450	14.50	1.000
1.000	67.33	0.000	0.000	5AL_158_160_L_0							
111 D	3.405	0.000	89.50	53.10	89.50	53.10	V-C	2.6034E+05	-5.500	15.00	1.000
1.000	68.10	0.000	0.000	5AL_158_160_L_0							
112 D	3.443	0.000	89.95	53.37	89.95	53.37	V-C	2.6034E+05	-5.550	15.50	1.000
1.000	68.87	0.000	0.000	5AL_158_160_L_0							
113 D	3.482	0.000	90.40	53.63	90.40	53.63	V-C	2.6034E+05	-5.600	16.00	1.000
1.000	69.63	0.000	0.000	5AL_158_160_L_0							
114 D	3.520	0.000	90.85	53.90	90.85	53.90	V-C	2.6034E+05	-5.650	16.50	1.000
1.000	70.40	0.000	0.000	5AL_158_160_L_0							
115 D	3.558	0.000	91.30	54.17	91.30	54.17	V-C	2.6034E+05	-5.700	17.00	1.000
1.000	71.17	0.000	0.000	5AL_158_160_L_0							
116 D	3.597	0.000	91.75	54.44	91.75	54.44	V-C	2.6034E+05	-5.750	17.50	1.000
1.000	71.94	0.000	0.000	5AL_158_160_L_0							
117 D	3.635	0.000	92.20	54.70	92.20	54.70	V-C	2.6034E+05	-5.800	18.00	1.000
1.000	72.70	0.000	0.000	5AL_158_160_L_0							
118 D	3.673	0.000	92.65	54.97	92.65	54.97	V-C	2.6034E+05	-5.850	18.50	1.000
1.000	73.47	0.000	0.000	5AL_158_160_L_0							
119 D	3.712	0.000	93.10	55.24	93.10	55.24	V-C	2.6034E+05	-5.900	19.00	1.000
1.000	74.24	0.000	0.000	5AL_158_160_L_0							
120 D	3.750	0.000	93.55	55.50	93.55	55.50	V-C	2.6034E+05	-5.950	19.50	1.000
1.000	75.00	0.000	0.000	5AL_158_160_L_0							
121 D	3.789	0.000	94.00	55.77	94.00	55.77	V-C	2.6034E+05	-6.000	20.00	1.000
1.000	75.77	0.000	0.000	5AL_158_160_L_0							
122 D	3.827	0.000	94.45	56.04	94.45	56.04	V-C	2.6034E+05	-6.050	20.50	1.000
1.000	76.54	0.000	0.000	5AL_158_160_L_0							
123 D	3.865	0.000	94.90	56.30	94.90	56.30	V-C	2.6034E+05	-6.100	21.00	1.000
1.000	77.30	0.000	0.000	5AL_158_160_L_0							
124 D	3.904	0.000	95.35	56.57	95.35	56.57	V-C	2.6034E+05	-6.150	21.50	1.000
1.000	78.07	0.000	0.000	5AL_158_160_L_0							
125 D	3.942	0.000	95.80	56.84	95.80	56.84	V-C	2.6034E+05	-6.200	22.00	1.000
1.000	78.84	0.000	0.000	5AL_158_160_L_0							
126 D	3.980	0.000	96.25	57.11	96.25	57.11	V-C	2.6034E+05	-6.250	22.50	1.000
1.000	79.61	0.000	0.000	5AL_158_160_L_0							
127 D	4.019	0.000	96.70	57.37	96.70	57.37	V-C	2.6034E+05	-6.300	23.00	1.000
1.000	80.37	0.000	0.000	5AL_158_160_L_0							
128 D	4.057	0.000	97.15	57.64	97.15	57.64	V-C	2.6034E+05	-6.350	23.50	1.000
1.000	81.14	0.000	0.000	5AL_158_160_L_0							
129 D	4.095	0.000	97.60	57.91	97.60	57.91	V-C	2.6034E+05	-6.400	24.00	1.000
1.000	81.91	0.000	0.000	5AL_158_160_L_0							
130 D	4.134	0.000	98.05	58.17	98.05	58.17	V-C	2.6034E+05	-6.450	24.50	1.000
1.000	82.67	0.000	0.000	5AL_158_160_L_0							
131 D	4.172	0.000	98.50	58.44	98.50	58.44	V-C	2.6034E+05	-6.500	25.00	1.000
1.000	83.44	0.000	0.000	5AL_158_160_L_0							
132 D	4.210	0.000	98.95	58.71	98.95	58.71	V-C	2.6034E+05	-6.550	25.50	1.000
1.000	84.21	0.000	0.000	5AL_158_160_L_0							
133 D	4.249	0.000	99.40	58.97	99.40	58.97	V-C	2.6034E+05	-6.600	26.00	1.000
1.000	84.97	0.000	0.000	5AL_158_160_L_0							
134 D	4.287	0.000	99.85	59.24	99.85	59.24	V-C	2.6034E+05	-6.650	26.50	1.000
1.000	85.74	0.000	0.000	5AL_158_160_L_0							
135 D	4.325	0.000	100.3	59.51	100.3	59.51	V-C	2.6034E+05	-6.700	27.00	1.000
1.000	86.51	0.000	0.000	5AL_158_160_L_0							
136 D	4.364	0.000	100.8	59.78	100.8	59.78	V-C	2.6034E+05	-6.750	27.50	1.000
1.000	87.28	0.000	0.000	5AL_158_160_L_0							
137 D	4.402	0.000	101.2	60.04	101.2	60.04	V-C	2.6034E+05	-6.800	28.00	1.000
1.000	88.04	0.000	0.000	5AL_158_160_L_0							
138 D	4.440	0.000	101.7	60.31	101.7	60.31	V-C	2.6034E+05	-6.850	28.50	1.000
1.000	88.81	0.000	0.000	5AL_158_160_L_0							
139 D	4.479	0.000	102.1	60.58	102.1	60.58	V-C	2.6034E+05	-6.900	29.00	1.000
1.000	89.58	0.000	0.000	5AL_158_160_L_0							
140 D	4.517	0.000	102.6	60.84	102.6	60.84	V-C	2.6034E+05	-6.950	29.50	1.000
1.000	90.34	0.000	0.000	5AL_158_160_L_0							
141 D	4.556	0.000	103.0	61.11	103.0	61.11	V-C	2.6034E+05	-7.000	30.00	1.000
1.000	91.11	0.000	0.000	5AL_158_160_L_0							
142 D	4.594	0.000	103.5	61.38	103.5	61.38	V-C	2.6034E+05	-7.050	30.50	1.000
1.000	91.88	0.000	0.000	5AL_158_160_L_0							
143 D	4.632	0.000	103.9	61.64	103.9	61.64	V-C	2.6034E+05	-7.100	31.00	1.000
1.000	92.64	0.000	0.000	5AL_158_160_L_0							
144 D	4.671	0.000	104.4	61.91	104.4	61.91	V-C	2.6034E+05	-7.150	31.50	1.000
1.000	93.41	0.000	0.000	5AL_158_160_L_0							
145 D	4.709	0.000	104.8	62.18	104.8	62.18	V-C	2.6034E+05	-7.200	32.00	1.000
1.000	94.18	0.000	0.000	5AL_158_160_L_0							
146 D	4.747	0.000	105.3	62.44	105.3	62.44	V-C	2.6034E+05	-7.250	32.50	1.000
1.000	94.94	0.000	0.000	5AL_158_160_L_0							
147 D	4.786	0.000	105.7	62.71	105.7	62.71	V-C	2.6034E+05	-7.300	33.00	1.000
1.000	95.71	0.000	0.000	5AL_158_160_L_0							
148 D	4.824	0.000	106.2	62.98	106.2	62.98	V-C	2.6034E+05	-7.350	33.50	1.000
1.000	96.48	0.000	0.000	5AL_158_160_L_0							
149 D	4.862	0.000	106.6	63.25	106.6	63.25	V-C	2.6034E+05	-7.400	34.00	1.000
1.000	97.25	0.000	0.000	5AL_158_160_L_0							

OPERE PROVISIONALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	364 di 401

150 D	4.901	0.000	107.1	63.51	107.1	63.51	V-C	2.6034E+05	-7.450	34.50	1.000
1.000	98.01	0.000	0.000	5AL_158_160_L_0							
151 D	4.939	0.000	107.5	63.78	107.5	63.78	V-C	2.6034E+05	-7.500	35.00	1.000
1.000	98.78	0.000	0.000	5AL_158_160_L_0							
152 D	4.977	0.000	108.0	64.05	108.0	64.05	V-C	2.6034E+05	-7.550	35.50	1.000
1.000	99.55	0.000	0.000	5AL_158_160_L_0							
153 D	5.016	0.000	108.4	64.31	108.4	64.31	V-C	2.6034E+05	-7.600	36.00	1.000
1.000	100.3	0.000	0.000	5AL_158_160_L_0							
154 D	5.054	0.000	108.9	64.58	108.9	64.58	V-C	2.6034E+05	-7.650	36.50	1.000
1.000	101.1	0.000	0.000	5AL_158_160_L_0							
155 D	5.092	0.000	109.3	64.85	109.3	64.85	V-C	2.6034E+05	-7.700	37.00	1.000
1.000	101.8	0.000	0.000	5AL_158_160_L_0							
156 D	5.131	0.000	109.8	65.11	109.8	65.11	V-C	2.6034E+05	-7.750	37.50	1.000
1.000	102.6	0.000	0.000	5AL_158_160_L_0							
157 D	5.169	0.000	110.2	65.38	110.2	65.38	V-C	2.6034E+05	-7.800	38.00	1.000
1.000	103.4	0.000	0.000	5AL_158_160_L_0							
158 D	5.207	0.000	110.7	65.65	110.7	65.65	V-C	2.6034E+05	-7.850	38.50	1.000
1.000	104.1	0.000	0.000	5AL_158_160_L_0							
159 D	5.246	0.000	111.1	65.92	111.1	65.92	V-C	2.6034E+05	-7.900	39.00	1.000
1.000	104.9	0.000	0.000	5AL_158_160_L_0							
160 D	5.284	0.000	111.6	66.18	111.6	66.18	V-C	2.6034E+05	-7.950	39.50	1.000
1.000	105.7	0.000	0.000	5AL_158_160_L_0							
161 D	5.322	0.000	112.0	66.45	112.0	66.45	V-C	2.6034E+05	-8.000	40.00	1.000
1.000	106.4	0.000	0.000	5AL_158_160_L_0							
162 D	5.361	0.000	112.5	66.72	112.5	66.72	V-C	2.6034E+05	-8.050	40.50	1.000
1.000	107.2	0.000	0.000	5AL_158_160_L_0							
163 D	5.399	0.000	112.9	66.98	112.9	66.98	V-C	2.6034E+05	-8.100	41.00	1.000
1.000	108.0	0.000	0.000	5AL_158_160_L_0							
164 D	5.438	0.000	113.4	67.25	113.4	67.25	V-C	2.6034E+05	-8.150	41.50	1.000
1.000	108.8	0.000	0.000	5AL_158_160_L_0							
165 D	5.476	0.000	113.8	67.52	113.8	67.52	V-C	2.6034E+05	-8.200	42.00	1.000
1.000	109.5	0.000	0.000	5AL_158_160_L_0							
166 D	5.514	0.000	114.3	67.78	114.3	67.78	V-C	2.6034E+05	-8.250	42.50	1.000
1.000	110.3	0.000	0.000	5AL_158_160_L_0							
167 D	5.553	0.000	114.7	68.05	114.7	68.05	V-C	2.6034E+05	-8.300	43.00	1.000
1.000	111.1	0.000	0.000	5AL_158_160_L_0							
168 D	5.591	0.000	115.2	68.32	115.2	68.32	V-C	2.6034E+05	-8.350	43.50	1.000
1.000	111.8	0.000	0.000	5AL_158_160_L_0							
169 D	5.629	0.000	115.6	68.59	115.6	68.59	V-C	2.6034E+05	-8.400	44.00	1.000
1.000	112.6	0.000	0.000	5AL_158_160_L_0							
170 D	5.668	0.000	116.1	68.85	116.1	68.85	V-C	2.6034E+05	-8.450	44.50	1.000
1.000	113.4	0.000	0.000	5AL_158_160_L_0							
171 D	5.706	0.000	116.5	69.12	116.5	69.12	V-C	2.6034E+05	-8.500	45.00	1.000
1.000	114.1	0.000	0.000	5AL_158_160_L_0							
172 D	5.744	0.000	117.0	69.39	117.0	69.39	V-C	2.6034E+05	-8.550	45.50	1.000
1.000	114.9	0.000	0.000	5AL_158_160_L_0							
173 D	5.783	0.000	117.4	69.65	117.4	69.65	V-C	2.6034E+05	-8.600	46.00	1.000
1.000	115.7	0.000	0.000	5AL_158_160_L_0							
174 D	5.821	0.000	117.9	69.92	117.9	69.92	V-C	2.6034E+05	-8.650	46.50	1.000
1.000	116.4	0.000	0.000	5AL_158_160_L_0							
175 D	5.859	0.000	118.3	70.19	118.3	70.19	V-C	2.6034E+05	-8.700	47.00	1.000
1.000	117.2	0.000	0.000	5AL_158_160_L_0							
176 D	5.898	0.000	118.8	70.45	118.8	70.45	V-C	2.6034E+05	-8.750	47.50	1.000
1.000	118.0	0.000	0.000	5AL_158_160_L_0							
177 D	5.936	0.000	119.2	70.72	119.2	70.72	V-C	2.6034E+05	-8.800	48.00	1.000
1.000	118.7	0.000	0.000	5AL_158_160_L_0							
178 D	5.974	0.000	119.7	70.99	119.7	70.99	V-C	2.6034E+05	-8.850	48.50	1.000
1.000	119.5	0.000	0.000	5AL_158_160_L_0							
179 D	6.013	0.000	120.1	71.26	120.1	71.26	V-C	2.6034E+05	-8.900	49.00	1.000
1.000	120.3	0.000	0.000	5AL_158_160_L_0							
180 D	6.051	0.000	120.6	71.52	120.6	71.52	V-C	2.6034E+05	-8.950	49.50	1.000
1.000	121.0	0.000	0.000	5AL_158_160_L_0							
181 D	6.089	0.000	121.0	71.79	121.0	71.79	V-C	2.6034E+05	-9.000	50.00	1.000
1.000	121.8	0.000	0.000	5AL_158_160_L_0							
182 D	6.128	0.000	121.5	72.06	121.5	72.06	V-C	2.6034E+05	-9.050	50.50	1.000
1.000	122.6	0.000	0.000	5AL_158_160_L_0							
183 D	6.166	0.000	121.9	72.32	121.9	72.32	V-C	2.6034E+05	-9.100	51.00	1.000
1.000	123.3	0.000	0.000	5AL_158_160_L_0							
184 D	6.205	0.000	122.4	72.59	122.4	72.59	V-C	2.6034E+05	-9.150	51.50	1.000
1.000	124.1	0.000	0.000	5AL_158_160_L_0							
185 D	6.243	0.000	122.8	72.86	122.8	72.86	V-C	2.6034E+05	-9.200	52.00	1.000
1.000	124.9	0.000	0.000	5AL_158_160_L_0							
186 D	6.281	0.000	123.3	73.12	123.3	73.12	V-C	2.6034E+05	-9.250	52.50	1.000
1.000	125.6	0.000	0.000	5AL_158_160_L_0							
187 D	6.320	0.000	123.7	73.39	123.7	73.39	V-C	2.6034E+05	-9.300	53.00	1.000
1.000	126.4	0.000	0.000	5AL_158_160_L_0							
188 D	6.358	0.000	124.2	73.66	124.2	73.66	V-C	2.6034E+05	-9.350	53.50	1.000
1.000	127.2	0.000	0.000	5AL_158_160_L_0							
189 D	6.396	0.000	124.6	73.93	124.6	73.93	V-C	2.6034E+05	-9.400	54.00	1.000
1.000	127.9	0.000	0.000	5AL_158_160_L_0							
190 D	6.435	0.000	125.1	74.19	125.1	74.19	V-C	2.6034E+05	-9.450	54.50	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	365 di 401

RELAZIONE DI CALCOLO

1.000	128.7	0.000	0.000	5AL_158_160_L_0							
191 D	6.473	0.000	125.5	74.46	125.5	74.46	V-C	2.6034E+05	-9.500	55.00	1.000
1.000	129.5	0.000	0.000	5AL_158_160_L_0							
192 D	6.511	0.000	126.0	74.73	126.0	74.73	V-C	2.6034E+05	-9.550	55.50	1.000
1.000	130.2	0.000	0.000	5AL_158_160_L_0							
193 D	6.550	0.000	126.4	74.99	126.4	74.99	V-C	2.6034E+05	-9.600	56.00	1.000
1.000	131.0	0.000	0.000	5AL_158_160_L_0							
194 D	6.588	0.000	126.9	75.26	126.9	75.26	V-C	2.6034E+05	-9.650	56.50	1.000
1.000	131.8	0.000	0.000	5AL_158_160_L_0							
195 D	6.626	0.000	127.3	75.53	127.3	75.53	V-C	2.6034E+05	-9.700	57.00	1.000
1.000	132.5	0.000	0.000	5AL_158_160_L_0							
196 D	6.665	0.000	127.8	75.79	127.8	75.79	V-C	2.6034E+05	-9.750	57.50	1.000
1.000	133.3	0.000	0.000	5AL_158_160_L_0							
197 D	6.703	0.000	128.2	76.06	128.2	76.06	V-C	2.6034E+05	-9.800	58.00	1.000
1.000	134.1	0.000	0.000	5AL_158_160_L_0							
198 D	6.741	0.000	128.7	76.33	128.7	76.33	V-C	2.6034E+05	-9.850	58.50	1.000
1.000	134.8	0.000	0.000	5AL_158_160_L_0							
199 D	6.780	0.000	129.1	76.60	129.1	76.60	V-C	2.6034E+05	-9.900	59.00	1.000
1.000	135.6	0.000	0.000	5AL_158_160_L_0							
200 D	6.817	0.000	129.6	76.86	129.6	76.86	V-C	2.6034E+05	-9.950	59.50	1.000
1.000	136.4	0.000	0.000	5AL_158_160_L_0							
201 D	3.427	0.000	130.0	77.13	130.0	77.13	V-C	2.6034E+05	-10.00	60.00	1.000
1.000	137.1	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement_33
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
----	----	----	----	----

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM= 8370. RIMNOR= 0.000
RENORM= 570.4 REMNOR= 0.000 RATIO =0.2611 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 8.507 RMMAX = 0.000
RTSMAL=0.1000E-04 RMSMAL= 0.000
RDT = 8370. RDR = 0.000
RATIOT=0.2611 RATOR= 0.000
MAX UN= 1.691 IEQ= 371 NODE 186 DOF 1 Y-DISPL.F
MIN UN= 0.000 IEQ= 2 NODE 1 DOF 2 X-ROT. F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM= 8370. RIMNOR= 0.000
RENORM=0.3755 REMNOR=0.1474E-21 RATIO =0.6698E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 8.507 RMMAX = 0.000
RTSMAL=0.1000E-04 RMSMAL= 0.000
RDT = 8370. RDR = 0.000
RATIOT=0.6698E-02 RATOR= 0.000
MAX UN=0.1773 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
MIN UN=-.1392E-09 IEQ= 235 NODE 118 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM= 8370. RIMNOR= 0.000
RENORM=0.1602E-02 REMNOR=0.1837E-22 RATIO =0.4375E-03 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 8.507 RMMAX = 0.000
RTSMAL=0.1000E-04 RMSMAL= 0.000
RDT = 8370. RDR = 0.000
RATIOT=0.4375E-03 RATOR= 0.000
MAX UN=0.3046E-01 IEQ= 71 NODE 36 DOF 1 Y-DISPL.F
MIN UN=-.4860E-10 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	366 di 401

NO. OF CONTACT CONSTRAINT VIOLATIONS 0

```

ITER 4 RNORM = 0.000      RMNORM= 0.000
      RINORM= 8370.      RIMNOR= 0.000
      RENORM=0.5900E-06  REMNOR=0.1917E-22  RATIO =0.8396E-05  TOLER =0.1000E-03    CONVERGED !
      RFMAX = 8.507      RRMAX = 0.000
      RTSMAL=0.1000E-04  RMSMAL= 0.000
      RDT = 8370.      RDR = 0.000
      RATIO=0.8396E-05  RATOR= 0.000
      MAX UN=0.4583E-03  IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
      MIN UN=-.4656E-10 IEQ= 75 NODE 38 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
  
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PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

paratia_mario
SOLUTION REACHED USING 4 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F (02)	X-ROT. F (04)
1	6.1818948E-05	-7.4849344E-06
2	6.1444705E-05	-7.4847501E-06
3	6.1070485E-05	-7.4838399E-06
4	6.0696345E-05	-7.4815005E-06
5	6.0322371E-05	-7.4770509E-06
6	5.9948686E-05	-7.4698330E-06
7	5.9575444E-05	-7.4592116E-06
8	5.9202831E-05	-7.4445742E-06
9	5.8831063E-05	-7.4253322E-06
10	5.8460384E-05	-7.4009206E-06
11	5.8091066E-05	-7.3707991E-06
12	5.7723407E-05	-7.3344533E-06
13	5.7357732E-05	-7.2913949E-06
14	5.6994387E-05	-7.2411638E-06
15	5.6633743E-05	-7.1833290E-06
16	5.6276188E-05	-7.1174910E-06
17	5.5922133E-05	-7.0432833E-06
18	5.5572005E-05	-6.9603749E-06
19	5.5226245E-05	-6.8684729E-06
20	5.4885311E-05	-6.7673261E-06
21	5.4549671E-05	-6.6567274E-06
22	5.4219800E-05	-6.5365164E-06
23	5.3896181E-05	-6.4065860E-06
24	5.3579304E-05	-6.2668848E-06
25	5.3269656E-05	-6.1174216E-06
26	5.2967723E-05	-5.9582713E-06
27	5.2673987E-05	-5.7895793E-06
28	5.2388920E-05	-5.6115677E-06
29	5.2112981E-05	-5.4245408E-06
30	5.1846610E-05	-5.2288918E-06
31	5.1590227E-05	-5.0251092E-06
32	5.1344225E-05	-4.8137835E-06
33	5.1108963E-05	-4.5956148E-06
34	5.0884768E-05	-4.3714245E-06
35	5.0671910E-05	-4.1421451E-06
36	5.0470621E-05	-3.9088550E-06
37	5.0281071E-05	-3.6727686E-06
38	5.0103368E-05	-3.4352492E-06
39	4.9937545E-05	-3.1978170E-06
40	4.9783556E-05	-2.9621580E-06
41	4.9641270E-05	-2.7300462E-06
42	4.9510465E-05	-2.5031251E-06
43	4.9390848E-05	-2.2827823E-06
44	4.9282058E-05	-2.0701697E-06
45	4.9183686E-05	-1.8662252E-06
46	4.9095279E-05	-1.6716919E-06
47	4.9016351E-05	-1.4871374E-06
48	4.8946392E-05	-1.3129726E-06
49	4.8884876E-05	-1.1494683E-06



GRUPPO FERROVIE DELLO STATO ITALIANE

LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	367 di 401

RELAZIONE DI CALCOLO

50	4.8831265E-05	-9.9678190E-07
51	4.8785016E-05	-8.5496163E-07
52	4.8745589E-05	-7.2394073E-07
53	4.8712445E-05	-6.0355384E-07
54	4.8685060E-05	-4.9355209E-07
55	4.8662922E-05	-3.9361695E-07
56	4.8645537E-05	-3.0337291E-07
57	4.8632430E-05	-2.2239896E-07
58	4.8623150E-05	-1.5024037E-07
59	4.8617268E-05	-8.6412409E-08
60	4.8614378E-05	-3.0417291E-08
61	4.8614104E-05	1.8254377E-08
62	4.8616090E-05	6.0115633E-08
63	4.8620010E-05	9.5677545E-08
64	4.8625562E-05	1.2544438E-07
65	4.8632466E-05	1.4990952E-07
66	4.8640472E-05	1.6955199E-07
67	4.8649349E-05	1.8483368E-07
68	4.8658890E-05	1.9619703E-07
69	4.8668910E-05	2.0406329E-07
70	4.8679245E-05	2.0883121E-07
71	4.8689748E-05	2.1087611E-07
72	4.8700293E-05	2.1054933E-07
73	4.8710769E-05	2.0817798E-07
74	4.8721082E-05	2.0406498E-07
75	4.8731151E-05	1.9848934E-07
76	4.8740911E-05	1.9170660E-07
77	4.8750306E-05	1.8394950E-07
78	4.8759293E-05	1.7542871E-07
79	4.8767839E-05	1.6633395E-07
80	4.8775919E-05	1.5683421E-07
81	4.8783518E-05	1.4707988E-07
82	4.8790625E-05	1.3720314E-07
83	4.8797238E-05	1.2731905E-07
84	4.8803359E-05	1.1752745E-07
85	4.8808994E-05	1.0791297E-07
86	4.8814154E-05	9.8546877E-08
87	4.8818854E-05	8.9488031E-08
88	4.8823109E-05	8.0783940E-08
89	4.8826939E-05	7.2471648E-08
90	4.8830363E-05	6.4579387E-08
91	4.8833404E-05	5.7126539E-08
92	4.8836083E-05	5.0125215E-08
93	4.8838424E-05	4.3580944E-08
94	4.8840449E-05	3.7493362E-08
95	4.8842181E-05	3.1858138E-08
96	4.8843642E-05	2.6667318E-08
97	4.8844855E-05	2.1910073E-08
98	4.8845840E-05	1.7573064E-08
99	4.8846619E-05	1.3640814E-08
100	4.8847211E-05	1.0096420E-08
101	4.8847635E-05	6.9214558E-09
102	4.8847909E-05	4.0966196E-09
103	4.8848050E-05	1.6019565E-09
104	4.8848074E-05	-5.8291921E-10
105	4.8847996E-05	-2.4784206E-09
106	4.8847831E-05	-4.1050445E-09
107	4.8847590E-05	-5.4830127E-09
108	4.8847286E-05	-6.6321652E-09
109	4.8846930E-05	-7.5718310E-09
110	4.8846532E-05	-8.3207324E-09
111	4.8846101E-05	-8.8968411E-09
112	4.8845645E-05	-9.3173964E-09
113	4.8845172E-05	-9.5987882E-09
114	4.8844687E-05	-9.7565336E-09
115	4.8844198E-05	-9.8052502E-09
116	4.8843708E-05	-9.7586393E-09
117	4.8843223E-05	-9.6294870E-09
118	4.8842747E-05	-9.4296623E-09
119	4.8842281E-05	-9.1701311E-09
120	4.8841831E-05	-8.8609682E-09
121	4.8841396E-05	-8.5114071E-09
122	4.8840980E-05	-8.1298319E-09
123	4.8840583E-05	-7.7238334E-09
124	4.8840208E-05	-7.3002397E-09
125	4.8839854E-05	-6.8651451E-09
126	4.8839521E-05	-6.4239847E-09
127	4.8839211E-05	-5.9815230E-09
128	4.8838923E-05	-5.5419300E-09
129	4.8838657E-05	-5.1088140E-09
130	4.8838412E-05	-4.6852629E-09

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	368 di 401

131	4.8838188E-05	-4.2738765E-09
132	4.8837985E-05	-3.8768390E-09
133	4.8837800E-05	-3.4959084E-09
134	4.8837635E-05	-3.1324866E-09
135	4.8837487E-05	-2.7876472E-09
136	4.8837356E-05	-2.4621628E-09
137	4.8837240E-05	-2.1565634E-09
138	4.8837140E-05	-1.8711278E-09
139	4.8837053E-05	-1.6059386E-09
140	4.8836979E-05	-1.3608827E-09
141	4.8836916E-05	-1.1356561E-09
142	4.8836865E-05	-9.2981137E-10
143	4.8836823E-05	-7.4275599E-10
144	4.8836790E-05	-5.7379493E-10
145	4.8836765E-05	-4.2214733E-10
146	4.8836748E-05	-2.8696340E-10
147	4.8836736E-05	-1.6735241E-10
148	4.8836731E-05	-6.2382047E-11
149	4.8836730E-05	2.8896687E-11
150	4.8836733E-05	1.0744023E-10
151	4.8836740E-05	1.7420195E-10
152	4.8836751E-05	2.3012406E-10
153	4.8836763E-05	2.7612572E-10
154	4.8836778E-05	3.1310324E-10
155	4.8836794E-05	3.4192009E-10
156	4.8836812E-05	3.6340390E-10
157	4.8836831E-05	3.7834328E-10
158	4.8836850E-05	3.8748435E-10
159	4.8836869E-05	3.9153076E-10
160	4.8836889E-05	3.9114127E-10
161	4.8836908E-05	3.8692969E-10
162	4.8836928E-05	3.7946473E-10
163	4.8836946E-05	3.6927109E-10
164	4.8836964E-05	3.5682942E-10
165	4.8836982E-05	3.4257807E-10
166	4.8836999E-05	3.2691434E-10
167	4.8837015E-05	3.1019580E-10
168	4.8837030E-05	2.9274342E-10
169	4.8837044E-05	2.7484150E-10
170	4.8837057E-05	2.5674098E-10
171	4.8837070E-05	2.3866118E-10
172	4.8837081E-05	2.2079188E-10
173	4.8837092E-05	2.0329502E-10
174	4.8837101E-05	1.8630821E-10
175	4.8837110E-05	1.6994455E-10
176	4.8837118E-05	1.5429609E-10
177	4.8837126E-05	1.3943528E-10
178	4.8837132E-05	1.2541653E-10
179	4.8837138E-05	1.1227903E-10
180	4.8837144E-05	1.0004667E-10
181	4.8837148E-05	8.8730679E-11
182	4.8837153E-05	7.8330762E-11
183	4.8837156E-05	6.8836214E-11
184	4.8837159E-05	6.0227859E-11
185	4.8837162E-05	5.2480875E-11
186	4.8837165E-05	4.5567159E-11
187	4.8837167E-05	3.9453668E-11
188	4.8837169E-05	3.4102967E-11
189	4.8837170E-05	2.9474218E-11
190	4.8837172E-05	2.5523039E-11
191	4.8837173E-05	2.2202390E-11
192	4.8837174E-05	1.9462819E-11
193	4.8837175E-05	1.7252743E-11
194	4.8837176E-05	1.5518871E-11
195	4.8837176E-05	1.4206145E-11
196	4.8837177E-05	1.3258094E-11
197	4.8837178E-05	1.2616907E-11
198	4.8837178E-05	1.2223527E-11
199	4.8837179E-05	1.2017701E-11
200	4.8837179E-05	1.1938038E-11
201	4.8837180E-05	1.1922005E-11



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	369 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection 28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

paratia_mario

STRESS RESULTS FOR GROUP NO. 1

0_L
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACTOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS 2-LEVEL	PORE	E FACTOR
1 D	0.4094	-6.1819E-05	57.00	16.37	57.00	33.82	UL-RL	4.3213E+05	0.000	1.000
1.000	16.37	0.000	0.000	5AL_158_160_L_0						
2 D	0.8415	-6.1445E-05	57.95	16.83	57.95	34.38	UL-RL	4.3213E+05	-5.0000E-02	1.000
1.000	16.83	0.000	0.000	5AL_158_160_L_0						
3 D	0.8643	-6.1070E-05	58.90	17.29	58.90	34.95	UL-RL	4.3213E+05	-0.1000	1.000
1.000	17.29	0.000	0.000	5AL_158_160_L_0						
4 D	0.8871	-6.0696E-05	59.85	17.74	59.85	35.51	UL-RL	4.3213E+05	-0.1500	1.000
1.000	17.74	0.000	0.000	5AL_158_160_L_0						
5 D	0.9099	-6.0322E-05	60.80	18.20	60.80	36.07	UL-RL	4.3213E+05	-0.2000	1.000
1.000	18.20	0.000	0.000	5AL_158_160_L_0						
6 D	0.9328	-5.9949E-05	61.75	18.66	61.75	36.64	ACTIVE	0.000	-0.2500	1.000
1.000	18.66	0.000	0.000	5AL_158_160_L_0						
7 D	0.9557	-5.9575E-05	62.70	19.11	62.70	37.20	ACTIVE	0.000	-0.3000	1.000
1.000	19.11	0.000	0.000	5AL_158_160_L_0						
8 D	0.9786	-5.9203E-05	63.65	19.57	63.65	37.76	ACTIVE	0.000	-0.3500	1.000
1.000	19.57	0.000	0.000	5AL_158_160_L_0						
9 D	1.001	-5.8831E-05	64.60	20.03	64.60	38.33	ACTIVE	0.000	-0.4000	1.000
1.000	20.03	0.000	0.000	5AL_158_160_L_0						
10 D	1.024	-5.8460E-05	65.55	20.49	65.55	38.89	ACTIVE	0.000	-0.4500	1.000
1.000	20.49	0.000	0.000	5AL_158_160_L_0						
11 D	1.047	-5.8091E-05	66.50	20.94	66.50	39.45	ACTIVE	0.000	-0.5000	1.000
1.000	20.94	0.000	0.000	5AL_158_160_L_0						
12 D	1.070	-5.7723E-05	67.45	21.40	67.45	40.02	ACTIVE	0.000	-0.5500	1.000
1.000	21.40	0.000	0.000	5AL_158_160_L_0						
13 D	1.093	-5.7358E-05	68.40	21.86	68.40	40.58	ACTIVE	0.000	-0.6000	1.000
1.000	21.86	0.000	0.000	5AL_158_160_L_0						
14 D	1.116	-5.6994E-05	69.35	22.32	69.35	41.15	ACTIVE	0.000	-0.6500	1.000
1.000	22.32	0.000	0.000	5AL_158_160_L_0						
15 D	1.139	-5.6634E-05	70.30	22.78	70.30	41.71	ACTIVE	0.000	-0.7000	1.000
1.000	22.78	0.000	0.000	5AL_158_160_L_0						
16 D	1.162	-5.6276E-05	71.25	23.23	71.25	42.27	ACTIVE	0.000	-0.7500	1.000
1.000	23.23	0.000	0.000	5AL_158_160_L_0						
17 D	1.185	-5.5922E-05	72.20	23.69	72.20	42.84	ACTIVE	0.000	-0.8000	1.000
1.000	23.69	0.000	0.000	5AL_158_160_L_0						
18 D	1.208	-5.5572E-05	73.15	24.15	73.15	43.40	ACTIVE	0.000	-0.8500	1.000
1.000	24.15	0.000	0.000	5AL_158_160_L_0						
19 D	1.230	-5.5226E-05	74.10	24.61	74.10	43.96	ACTIVE	0.000	-0.9000	1.000
1.000	24.61	0.000	0.000	5AL_158_160_L_0						
20 D	1.253	-5.4885E-05	75.05	25.07	75.05	44.53	ACTIVE	0.000	-0.9500	1.000
1.000	25.07	0.000	0.000	5AL_158_160_L_0						
21 D	1.276	-5.4550E-05	76.00	25.52	76.00	45.09	ACTIVE	0.000	-1.000	1.000
1.000	25.52	0.000	0.000	5AL_158_160_L_0						
22 D	1.299	-5.4220E-05	76.95	25.98	76.95	45.65	ACTIVE	0.000	-1.050	1.000
1.000	25.98	0.000	0.000	5AL_158_160_L_0						
23 D	1.322	-5.3896E-05	77.90	26.44	77.90	46.22	ACTIVE	0.000	-1.100	1.000
1.000	26.44	0.000	0.000	5AL_158_160_L_0						
24 D	1.345	-5.3579E-05	78.85	26.90	78.85	46.78	ACTIVE	0.000	-1.150	1.000
1.000	26.90	0.000	0.000	5AL_158_160_L_0						
25 D	1.368	-5.3270E-05	79.80	27.36	79.80	47.35	ACTIVE	0.000	-1.200	1.000
1.000	27.36	0.000	0.000	5AL_158_160_L_0						
26 D	1.391	-5.2968E-05	80.75	27.81	80.75	47.91	ACTIVE	0.000	-1.250	1.000
1.000	27.81	0.000	0.000	5AL_158_160_L_0						
27 D	1.414	-5.2674E-05	81.70	28.27	81.70	48.47	ACTIVE	0.000	-1.300	1.000
1.000	28.27	0.000	0.000	5AL_158_160_L_0						
28 D	1.436	-5.2389E-05	82.65	28.73	82.65	49.04	ACTIVE	0.000	-1.350	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	370 di 401

1.000	28.73	0.000	0.000	5AL_158_160_L_0							
29 D	1.459	-5.2113E-05	83.60	29.19	83.60	49.60	ACTIVE	0.000	-1.400	0.000	1.000
1.000	29.19	0.000	0.000	5AL_158_160_L_0							
30 D	1.482	-5.1847E-05	84.55	29.64	84.55	50.16	ACTIVE	0.000	-1.450	0.000	1.000
1.000	29.64	0.000	0.000	5AL_158_160_L_0							
31 D	1.505	-5.1590E-05	85.50	30.10	85.50	50.73	ACTIVE	0.000	-1.500	0.000	1.000
1.000	30.10	0.000	0.000	5AL_158_160_L_0							
32 D	1.528	-5.1344E-05	86.45	30.56	86.45	51.29	ACTIVE	0.000	-1.550	0.000	1.000
1.000	30.56	0.000	0.000	5AL_158_160_L_0							
33 D	1.551	-5.1109E-05	87.40	31.02	87.40	51.85	ACTIVE	0.000	-1.600	0.000	1.000
1.000	31.02	0.000	0.000	5AL_158_160_L_0							
34 D	1.574	-5.0885E-05	88.35	31.48	88.35	52.42	ACTIVE	0.000	-1.650	0.000	1.000
1.000	31.48	0.000	0.000	5AL_158_160_L_0							
35 D	1.597	-5.0672E-05	89.30	31.93	89.30	52.98	ACTIVE	0.000	-1.700	0.000	1.000
1.000	31.93	0.000	0.000	5AL_158_160_L_0							
36 D	1.620	-5.0471E-05	90.25	32.39	90.25	53.55	ACTIVE	0.000	-1.750	0.000	1.000
1.000	32.39	0.000	0.000	5AL_158_160_L_0							
37 D	1.643	-5.0281E-05	91.20	32.85	91.20	54.11	ACTIVE	0.000	-1.800	0.000	1.000
1.000	32.85	0.000	0.000	5AL_158_160_L_0							
38 D	1.665	-5.0103E-05	92.15	33.31	92.15	54.67	ACTIVE	0.000	-1.850	0.000	1.000
1.000	33.31	0.000	0.000	5AL_158_160_L_0							
39 D	1.688	-4.9938E-05	93.10	33.77	93.10	55.24	ACTIVE	0.000	-1.900	0.000	1.000
1.000	33.77	0.000	0.000	5AL_158_160_L_0							
40 D	1.714	-4.9784E-05	94.05	34.29	94.05	55.80	UL-RL	4.3213E+05	-1.950	0.000	1.000
1.000	34.29	0.000	0.000	5AL_158_160_L_0							
41 D	1.746	-4.9641E-05	95.00	34.91	95.00	56.36	UL-RL	4.3213E+05	-2.000	0.000	1.000
1.000	34.91	0.000	0.000	5AL_158_160_L_0							
42 D	1.777	-4.9510E-05	95.95	35.53	95.95	56.93	UL-RL	4.3213E+05	-2.050	0.000	1.000
1.000	35.53	0.000	0.000	5AL_158_160_L_0							
43 D	1.807	-4.9391E-05	96.90	36.15	96.90	57.49	UL-RL	4.3213E+05	-2.100	0.000	1.000
1.000	36.15	0.000	0.000	5AL_158_160_L_0							
44 D	1.838	-4.9282E-05	97.85	36.76	97.85	58.05	UL-RL	4.3213E+05	-2.150	0.000	1.000
1.000	36.76	0.000	0.000	5AL_158_160_L_0							
45 D	1.868	-4.9184E-05	98.80	37.36	98.80	58.62	UL-RL	4.3213E+05	-2.200	0.000	1.000
1.000	37.36	0.000	0.000	5AL_158_160_L_0							
46 D	1.898	-4.9095E-05	99.75	37.97	99.75	59.18	UL-RL	4.3213E+05	-2.250	0.000	1.000
1.000	37.97	0.000	0.000	5AL_158_160_L_0							
47 D	1.928	-4.9016E-05	100.7	38.56	100.7	59.75	UL-RL	4.3213E+05	-2.300	0.000	1.000
1.000	38.56	0.000	0.000	5AL_158_160_L_0							
48 D	1.958	-4.8946E-05	101.6	39.16	101.6	60.31	UL-RL	4.3213E+05	-2.350	0.000	1.000
1.000	39.16	0.000	0.000	5AL_158_160_L_0							
49 D	1.987	-4.8885E-05	102.6	39.75	102.6	60.87	UL-RL	4.3213E+05	-2.400	0.000	1.000
1.000	39.75	0.000	0.000	5AL_158_160_L_0							
50 D	2.017	-4.8831E-05	103.5	40.33	103.5	61.44	UL-RL	4.3213E+05	-2.450	0.000	1.000
1.000	40.33	0.000	0.000	5AL_158_160_L_0							
51 D	2.046	-4.8785E-05	104.5	40.92	104.5	62.00	UL-RL	4.3213E+05	-2.500	0.000	1.000
1.000	40.92	0.000	0.000	5AL_158_160_L_0							
52 D	2.075	-4.8746E-05	105.4	41.50	105.4	62.56	UL-RL	4.3213E+05	-2.550	0.000	1.000
1.000	41.50	0.000	0.000	5AL_158_160_L_0							
53 D	2.104	-4.8712E-05	106.4	42.08	106.4	63.13	UL-RL	4.3213E+05	-2.600	0.000	1.000
1.000	42.08	0.000	0.000	5AL_158_160_L_0							
54 D	2.133	-4.8685E-05	107.3	42.65	107.3	63.69	UL-RL	4.3213E+05	-2.650	0.000	1.000
1.000	42.65	0.000	0.000	5AL_158_160_L_0							
55 D	2.161	-4.8663E-05	108.3	43.23	108.3	64.25	UL-RL	4.3213E+05	-2.700	0.000	1.000
1.000	43.23	0.000	0.000	5AL_158_160_L_0							
56 D	2.190	-4.8646E-05	109.2	43.80	109.2	64.82	UL-RL	4.3213E+05	-2.750	0.000	1.000
1.000	43.80	0.000	0.000	5AL_158_160_L_0							
57 D	2.218	-4.8632E-05	110.2	44.37	110.2	65.38	UL-RL	4.3213E+05	-2.800	0.000	1.000
1.000	44.37	0.000	0.000	5AL_158_160_L_0							
58 D	2.247	-4.8623E-05	111.1	44.93	111.1	65.95	UL-RL	4.3213E+05	-2.850	0.000	1.000
1.000	44.93	0.000	0.000	5AL_158_160_L_0							
59 D	2.275	-4.8617E-05	112.1	45.50	112.1	66.51	UL-RL	4.3213E+05	-2.900	0.000	1.000
1.000	45.50	0.000	0.000	5AL_158_160_L_0							
60 D	2.303	-4.8614E-05	113.0	46.07	113.0	67.07	UL-RL	4.3213E+05	-2.950	0.000	1.000
1.000	46.07	0.000	0.000	5AL_158_160_L_0							
61 D	2.331	-4.8614E-05	114.0	46.63	114.0	67.64	UL-RL	4.3213E+05	-3.000	0.000	1.000
1.000	46.63	0.000	0.000	5AL_158_160_L_0							
62 D	2.360	-4.8616E-05	114.9	47.19	114.9	68.20	UL-RL	4.3213E+05	-3.050	0.000	1.000
1.000	47.19	0.000	0.000	5AL_158_160_L_0							
63 D	2.388	-4.8620E-05	115.9	47.75	115.9	68.76	UL-RL	4.3213E+05	-3.100	0.000	1.000
1.000	47.75	0.000	0.000	5AL_158_160_L_0							
64 D	2.416	-4.8626E-05	116.8	48.31	116.8	69.33	UL-RL	4.3213E+05	-3.150	0.000	1.000
1.000	48.31	0.000	0.000	5AL_158_160_L_0							
65 D	2.444	-4.8632E-05	117.8	48.88	117.8	69.89	UL-RL	4.3213E+05	-3.200	0.000	1.000
1.000	48.88	0.000	0.000	5AL_158_160_L_0							
66 D	2.472	-4.8640E-05	118.7	49.44	118.7	70.45	UL-RL	4.3213E+05	-3.250	0.000	1.000
1.000	49.44	0.000	0.000	5AL_158_160_L_0							
67 D	2.500	-4.8649E-05	119.7	50.00	119.7	71.02	UL-RL	4.3213E+05	-3.300	0.000	1.000
1.000	50.00	0.000	0.000	5AL_158_160_L_0							
68 D	2.528	-4.8659E-05	120.6	50.55	120.6	71.58	UL-RL	4.3213E+05	-3.350	0.000	1.000
1.000	50.55	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	371 di 401

69 D	2.556	-4.8669E-05	121.6	51.11	121.6	72.15	UL-RL	4.3213E+05	-3.400	0.000	1.000
1.000	51.11	0.000	0.000	5AL_158_160_L_0							
70 D	2.584	-4.8679E-05	122.5	51.67	122.5	72.71	UL-RL	4.3213E+05	-3.450	0.000	1.000
1.000	51.67	0.000	0.000	5AL_158_160_L_0							
71 D	2.612	-4.8690E-05	123.5	52.23	123.5	73.27	UL-RL	4.3213E+05	-3.500	0.000	1.000
1.000	52.23	0.000	0.000	5AL_158_160_L_0							
72 D	2.640	-4.8700E-05	124.4	52.79	124.4	73.84	UL-RL	4.3213E+05	-3.550	0.000	1.000
1.000	52.79	0.000	0.000	5AL_158_160_L_0							
73 D	2.668	-4.8711E-05	125.4	53.35	125.4	74.40	UL-RL	4.3213E+05	-3.600	0.000	1.000
1.000	53.35	0.000	0.000	5AL_158_160_L_0							
74 D	2.695	-4.8721E-05	126.3	53.91	126.3	74.96	UL-RL	4.3213E+05	-3.650	0.000	1.000
1.000	53.91	0.000	0.000	5AL_158_160_L_0							
75 D	2.723	-4.8731E-05	127.3	54.47	127.3	75.53	UL-RL	4.3213E+05	-3.700	0.000	1.000
1.000	54.47	0.000	0.000	5AL_158_160_L_0							
76 D	2.751	-4.8741E-05	128.2	55.03	128.2	76.09	UL-RL	4.3213E+05	-3.750	0.000	1.000
1.000	55.03	0.000	0.000	5AL_158_160_L_0							
77 D	2.779	-4.8750E-05	129.2	55.59	129.2	76.65	UL-RL	4.3213E+05	-3.800	0.000	1.000
1.000	55.59	0.000	0.000	5AL_158_160_L_0							
78 D	2.807	-4.8759E-05	130.1	56.15	130.1	77.22	UL-RL	4.3213E+05	-3.850	0.000	1.000
1.000	56.15	0.000	0.000	5AL_158_160_L_0							
79 D	2.835	-4.8768E-05	131.1	56.71	131.1	77.78	UL-RL	4.3213E+05	-3.900	0.000	1.000
1.000	56.71	0.000	0.000	5AL_158_160_L_0							
80 D	2.863	-4.8776E-05	132.0	57.27	132.0	78.35	UL-RL	4.3213E+05	-3.950	0.000	1.000
1.000	57.27	0.000	0.000	5AL_158_160_L_0							
81 D	2.891	-4.8784E-05	133.0	57.83	133.0	78.91	UL-RL	4.3213E+05	-4.000	0.000	1.000
1.000	57.83	0.000	0.000	5AL_158_160_L_0							
82 D	2.930	-4.8791E-05	133.4	58.09	133.4	79.18	UL-RL	4.3213E+05	-4.050	0.5000	1.000
1.000	58.09	0.000	0.000	5AL_158_160_L_0							
83 D	2.968	-4.8797E-05	133.9	58.36	133.9	79.44	UL-RL	4.3213E+05	-4.100	1.000	1.000
1.000	58.36	0.000	0.000	5AL_158_160_L_0							
84 D	3.006	-4.8803E-05	134.3	58.62	134.3	79.71	UL-RL	4.3213E+05	-4.150	1.500	1.000
1.000	58.62	0.000	0.000	5AL_158_160_L_0							
85 D	3.044	-4.8809E-05	134.8	58.89	134.8	79.98	UL-RL	4.3213E+05	-4.200	2.000	1.000
1.000	58.89	0.000	0.000	5AL_158_160_L_0							
86 D	3.082	-4.8814E-05	135.2	59.15	135.2	80.24	UL-RL	4.3213E+05	-4.250	2.500	1.000
1.000	59.15	0.000	0.000	5AL_158_160_L_0							
87 D	3.121	-4.8819E-05	135.7	59.41	135.7	80.51	UL-RL	4.3213E+05	-4.300	3.000	1.000
1.000	59.41	0.000	0.000	5AL_158_160_L_0							
88 D	3.159	-4.8823E-05	136.1	59.68	136.1	80.78	UL-RL	4.3213E+05	-4.350	3.500	1.000
1.000	59.68	0.000	0.000	5AL_158_160_L_0							
89 D	3.197	-4.8827E-05	136.6	59.95	136.6	81.04	UL-RL	4.3213E+05	-4.400	4.000	1.000
1.000	59.95	0.000	0.000	5AL_158_160_L_0							
90 D	3.236	-4.8830E-05	137.0	60.21	137.0	81.31	UL-RL	4.3213E+05	-4.450	4.500	1.000
1.000	60.21	0.000	0.000	5AL_158_160_L_0							
91 D	3.274	-4.8833E-05	137.5	60.48	137.5	81.58	UL-RL	4.3213E+05	-4.500	5.000	1.000
1.000	60.48	0.000	0.000	5AL_158_160_L_0							
92 D	3.312	-4.8836E-05	137.9	60.74	137.9	81.85	UL-RL	4.3213E+05	-4.550	5.500	1.000
1.000	60.74	0.000	0.000	5AL_158_160_L_0							
93 D	3.350	-4.8838E-05	138.4	61.01	138.4	82.11	UL-RL	4.3213E+05	-4.600	6.000	1.000
1.000	61.01	0.000	0.000	5AL_158_160_L_0							
94 D	3.389	-4.8840E-05	138.9	61.27	138.9	82.38	UL-RL	4.3213E+05	-4.650	6.500	1.000
1.000	61.27	0.000	0.000	5AL_158_160_L_0							
95 D	3.427	-4.8842E-05	139.3	61.54	139.3	82.65	UL-RL	4.3213E+05	-4.700	7.000	1.000
1.000	61.54	0.000	0.000	5AL_158_160_L_0							
96 D	3.465	-4.8844E-05	139.8	61.81	139.8	82.91	UL-RL	4.3213E+05	-4.750	7.500	1.000
1.000	61.81	0.000	0.000	5AL_158_160_L_0							
97 D	3.504	-4.8845E-05	140.2	62.07	140.2	83.18	UL-RL	4.3213E+05	-4.800	8.000	1.000
1.000	62.07	0.000	0.000	5AL_158_160_L_0							
98 D	3.542	-4.8846E-05	140.6	62.34	140.6	83.45	UL-RL	4.3213E+05	-4.850	8.500	1.000
1.000	62.34	0.000	0.000	5AL_158_160_L_0							
99 D	3.580	-4.8847E-05	141.1	62.61	141.1	83.71	UL-RL	4.3213E+05	-4.900	9.000	1.000
1.000	62.61	0.000	0.000	5AL_158_160_L_0							
100 D	3.619	-4.8847E-05	141.6	62.87	141.6	83.98	UL-RL	4.3213E+05	-4.950	9.500	1.000
1.000	62.87	0.000	0.000	5AL_158_160_L_0							
101 D	3.657	-4.8848E-05	142.0	63.14	142.0	84.25	UL-RL	4.3213E+05	-5.000	10.00	1.000
1.000	63.14	0.000	0.000	5AL_158_160_L_0							
102 D	3.695	-4.8848E-05	142.5	63.41	142.5	84.52	UL-RL	4.3213E+05	-5.050	10.50	1.000
1.000	63.41	0.000	0.000	5AL_158_160_L_0							
103 D	3.734	-4.8848E-05	142.9	63.67	142.9	84.78	UL-RL	4.3213E+05	-5.100	11.00	1.000
1.000	63.67	0.000	0.000	5AL_158_160_L_0							
104 D	3.772	-4.8848E-05	143.4	63.94	143.4	85.05	UL-RL	4.3213E+05	-5.150	11.50	1.000
1.000	63.94	0.000	0.000	5AL_158_160_L_0							
105 D	3.810	-4.8848E-05	143.8	64.21	143.8	85.32	UL-RL	4.3213E+05	-5.200	12.00	1.000
1.000	64.21	0.000	0.000	5AL_158_160_L_0							
106 D	3.849	-4.8848E-05	144.3	64.48	144.3	85.58	UL-RL	4.3213E+05	-5.250	12.50	1.000
1.000	64.48	0.000	0.000	5AL_158_160_L_0							
107 D	3.887	-4.8848E-05	144.7	64.74	144.7	85.85	UL-RL	4.3213E+05	-5.300	13.00	1.000
1.000	64.74	0.000	0.000	5AL_158_160_L_0							
108 D	3.925	-4.8847E-05	145.2	65.01	145.2	86.12	UL-RL	4.3213E+05	-5.350	13.50	1.000
1.000	65.01	0.000	0.000	5AL_158_160_L_0							
109 D	3.964	-4.8847E-05	145.6	65.28	145.6	86.38	UL-RL	4.3213E+05	-5.400	14.00	1.000
1.000	65.28	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	372 di 401

1.000	79.28	0.000	0.000	5AL_158_160_L_0							
110 D	4.002	-4.8847E-05	146.1	65.54	146.1	86.65	UL-RL	4.3213E+05	-5.450	14.50	1.000
1.000	80.04	0.000	0.000	5AL_158_160_L_0							
111 D	4.041	-4.8846E-05	146.5	65.81	146.5	86.92	UL-RL	4.3213E+05	-5.500	15.00	1.000
1.000	80.81	0.000	0.000	5AL_158_160_L_0							
112 D	4.079	-4.8846E-05	147.0	66.08	147.0	87.19	UL-RL	4.3213E+05	-5.550	15.50	1.000
1.000	81.58	0.000	0.000	5AL_158_160_L_0							
113 D	4.117	-4.8845E-05	147.4	66.35	147.4	87.45	UL-RL	4.3213E+05	-5.600	16.00	1.000
1.000	82.35	0.000	0.000	5AL_158_160_L_0							
114 D	4.156	-4.8845E-05	147.9	66.61	147.9	87.72	UL-RL	4.3213E+05	-5.650	16.50	1.000
1.000	83.11	0.000	0.000	5AL_158_160_L_0							
115 D	4.194	-4.8844E-05	148.3	66.88	148.3	87.99	UL-RL	4.3213E+05	-5.700	17.00	1.000
1.000	83.88	0.000	0.000	5AL_158_160_L_0							
116 D	4.232	-4.8844E-05	148.8	67.15	148.8	88.25	UL-RL	4.3213E+05	-5.750	17.50	1.000
1.000	84.65	0.000	0.000	5AL_158_160_L_0							
117 D	4.271	-4.8843E-05	149.2	67.41	149.2	88.52	UL-RL	4.3213E+05	-5.800	18.00	1.000
1.000	85.41	0.000	0.000	5AL_158_160_L_0							
118 D	4.309	-4.8843E-05	149.7	67.68	149.7	88.79	UL-RL	4.3213E+05	-5.850	18.50	1.000
1.000	86.18	0.000	0.000	5AL_158_160_L_0							
119 D	4.347	-4.8842E-05	150.1	67.95	150.1	89.05	UL-RL	4.3213E+05	-5.900	19.00	1.000
1.000	86.95	0.000	0.000	5AL_158_160_L_0							
120 D	4.386	-4.8842E-05	150.6	68.22	150.6	89.32	UL-RL	4.3213E+05	-5.950	19.50	1.000
1.000	87.72	0.000	0.000	5AL_158_160_L_0							
121 D	4.424	-4.8841E-05	151.0	68.48	151.0	89.59	UL-RL	4.3213E+05	-6.000	20.00	1.000
1.000	88.48	0.000	0.000	5AL_158_160_L_0							
122 D	4.462	-4.8841E-05	151.5	68.75	151.5	89.86	UL-RL	4.3213E+05	-6.050	20.50	1.000
1.000	89.25	0.000	0.000	5AL_158_160_L_0							
123 D	4.501	-4.8841E-05	151.9	69.02	151.9	90.12	UL-RL	4.3213E+05	-6.100	21.00	1.000
1.000	90.02	0.000	0.000	5AL_158_160_L_0							
124 D	4.539	-4.8840E-05	152.4	69.28	152.4	90.39	UL-RL	4.3213E+05	-6.150	21.50	1.000
1.000	90.78	0.000	0.000	5AL_158_160_L_0							
125 D	4.578	-4.8840E-05	152.8	69.55	152.8	90.66	UL-RL	4.3213E+05	-6.200	22.00	1.000
1.000	91.55	0.000	0.000	5AL_158_160_L_0							
126 D	4.616	-4.8840E-05	153.3	69.82	153.3	90.92	UL-RL	4.3213E+05	-6.250	22.50	1.000
1.000	92.32	0.000	0.000	5AL_158_160_L_0							
127 D	4.654	-4.8839E-05	153.7	70.09	153.7	91.19	UL-RL	4.3213E+05	-6.300	23.00	1.000
1.000	93.09	0.000	0.000	5AL_158_160_L_0							
128 D	4.693	-4.8839E-05	154.2	70.35	154.2	91.46	UL-RL	4.3213E+05	-6.350	23.50	1.000
1.000	93.85	0.000	0.000	5AL_158_160_L_0							
129 D	4.731	-4.8839E-05	154.6	70.62	154.6	91.72	UL-RL	4.3213E+05	-6.400	24.00	1.000
1.000	94.62	0.000	0.000	5AL_158_160_L_0							
130 D	4.769	-4.8838E-05	155.1	70.89	155.1	91.99	UL-RL	4.3213E+05	-6.450	24.50	1.000
1.000	95.39	0.000	0.000	5AL_158_160_L_0							
131 D	4.808	-4.8838E-05	155.5	71.15	155.5	92.26	UL-RL	4.3213E+05	-6.500	25.00	1.000
1.000	96.15	0.000	0.000	5AL_158_160_L_0							
132 D	4.846	-4.8838E-05	156.0	71.42	156.0	92.53	UL-RL	4.3213E+05	-6.550	25.50	1.000
1.000	96.92	0.000	0.000	5AL_158_160_L_0							
133 D	4.884	-4.8838E-05	156.4	71.69	156.4	92.79	UL-RL	4.3213E+05	-6.600	26.00	1.000
1.000	97.69	0.000	0.000	5AL_158_160_L_0							
134 D	4.923	-4.8838E-05	156.9	71.96	156.9	93.06	UL-RL	4.3213E+05	-6.650	26.50	1.000
1.000	98.46	0.000	0.000	5AL_158_160_L_0							
135 D	4.961	-4.8837E-05	157.3	72.22	157.3	93.33	UL-RL	4.3213E+05	-6.700	27.00	1.000
1.000	99.22	0.000	0.000	5AL_158_160_L_0							
136 D	4.999	-4.8837E-05	157.8	72.49	157.8	93.59	UL-RL	4.3213E+05	-6.750	27.50	1.000
1.000	99.99	0.000	0.000	5AL_158_160_L_0							
137 D	5.038	-4.8837E-05	158.2	72.76	158.2	93.86	UL-RL	4.3213E+05	-6.800	28.00	1.000
1.000	100.8	0.000	0.000	5AL_158_160_L_0							
138 D	5.076	-4.8837E-05	158.7	73.02	158.7	94.13	UL-RL	4.3213E+05	-6.850	28.50	1.000
1.000	101.5	0.000	0.000	5AL_158_160_L_0							
139 D	5.115	-4.8837E-05	159.1	73.29	159.1	94.39	UL-RL	4.3213E+05	-6.900	29.00	1.000
1.000	102.3	0.000	0.000	5AL_158_160_L_0							
140 D	5.153	-4.8837E-05	159.6	73.56	159.6	94.66	UL-RL	4.3213E+05	-6.950	29.50	1.000
1.000	103.1	0.000	0.000	5AL_158_160_L_0							
141 D	5.191	-4.8837E-05	160.0	73.82	160.0	94.93	UL-RL	4.3213E+05	-7.000	30.00	1.000
1.000	103.8	0.000	0.000	5AL_158_160_L_0							
142 D	5.230	-4.8837E-05	160.5	74.09	160.5	95.20	UL-RL	4.3213E+05	-7.050	30.50	1.000
1.000	104.6	0.000	0.000	5AL_158_160_L_0							
143 D	5.268	-4.8837E-05	160.9	74.36	160.9	95.46	UL-RL	4.3213E+05	-7.100	31.00	1.000
1.000	105.4	0.000	0.000	5AL_158_160_L_0							
144 D	5.306	-4.8837E-05	161.4	74.63	161.4	95.73	UL-RL	4.3213E+05	-7.150	31.50	1.000
1.000	106.1	0.000	0.000	5AL_158_160_L_0							
145 D	5.345	-4.8837E-05	161.8	74.89	161.8	96.00	UL-RL	4.3213E+05	-7.200	32.00	1.000
1.000	106.9	0.000	0.000	5AL_158_160_L_0							
146 D	5.383	-4.8837E-05	162.3	75.16	162.3	96.26	UL-RL	4.3213E+05	-7.250	32.50	1.000
1.000	107.7	0.000	0.000	5AL_158_160_L_0							
147 D	5.421	-4.8837E-05	162.7	75.43	162.7	96.53	UL-RL	4.3213E+05	-7.300	33.00	1.000
1.000	108.4	0.000	0.000	5AL_158_160_L_0							
148 D	5.460	-4.8837E-05	163.2	75.69	163.2	96.80	UL-RL	4.3213E+05	-7.350	33.50	1.000
1.000	109.2	0.000	0.000	5AL_158_160_L_0							
149 D	5.498	-4.8837E-05	163.6	75.96	163.6	97.06	UL-RL	4.3213E+05	-7.400	34.00	1.000
1.000	110.0	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	373 di 401

150 D	5.536	-4.8837E-05	164.1	76.23	164.1	97.33	UL-RL	4.3213E+05	-7.450	34.50	1.000
1.000	110.7	0.000	0.000	5AL_158_160_L_0							
151 D	5.575	-4.8837E-05	164.5	76.49	164.5	97.60	UL-RL	4.3213E+05	-7.500	35.00	1.000
1.000	111.5	0.000	0.000	5AL_158_160_L_0							
152 D	5.613	-4.8837E-05	165.0	76.76	165.0	97.86	UL-RL	4.3213E+05	-7.550	35.50	1.000
1.000	112.3	0.000	0.000	5AL_158_160_L_0							
153 D	5.651	-4.8837E-05	165.4	77.03	165.4	98.13	UL-RL	4.3213E+05	-7.600	36.00	1.000
1.000	113.0	0.000	0.000	5AL_158_160_L_0							
154 D	5.690	-4.8837E-05	165.9	77.30	165.9	98.40	UL-RL	4.3213E+05	-7.650	36.50	1.000
1.000	113.8	0.000	0.000	5AL_158_160_L_0							
155 D	5.728	-4.8837E-05	166.3	77.56	166.3	98.67	UL-RL	4.3213E+05	-7.700	37.00	1.000
1.000	114.6	0.000	0.000	5AL_158_160_L_0							
156 D	5.766	-4.8837E-05	166.8	77.83	166.8	98.93	UL-RL	4.3213E+05	-7.750	37.50	1.000
1.000	115.3	0.000	0.000	5AL_158_160_L_0							
157 D	5.805	-4.8837E-05	167.2	78.10	167.2	99.20	UL-RL	4.3213E+05	-7.800	38.00	1.000
1.000	116.1	0.000	0.000	5AL_158_160_L_0							
158 D	5.843	-4.8837E-05	167.7	78.36	167.7	99.47	UL-RL	4.3213E+05	-7.850	38.50	1.000
1.000	116.9	0.000	0.000	5AL_158_160_L_0							
159 D	5.882	-4.8837E-05	168.1	78.63	168.1	99.73	UL-RL	4.3213E+05	-7.900	39.00	1.000
1.000	117.6	0.000	0.000	5AL_158_160_L_0							
160 D	5.920	-4.8837E-05	168.6	78.90	168.6	100.0	UL-RL	4.3213E+05	-7.950	39.50	1.000
1.000	118.4	0.000	0.000	5AL_158_160_L_0							
161 D	5.958	-4.8837E-05	169.0	79.16	169.0	100.3	UL-RL	4.3213E+05	-8.000	40.00	1.000
1.000	119.2	0.000	0.000	5AL_158_160_L_0							
162 D	5.997	-4.8837E-05	169.5	79.43	169.5	100.5	UL-RL	4.3213E+05	-8.050	40.50	1.000
1.000	119.9	0.000	0.000	5AL_158_160_L_0							
163 D	6.035	-4.8837E-05	169.9	79.70	169.9	100.8	UL-RL	4.3213E+05	-8.100	41.00	1.000
1.000	120.7	0.000	0.000	5AL_158_160_L_0							
164 D	6.073	-4.8837E-05	170.4	79.96	170.4	101.1	UL-RL	4.3213E+05	-8.150	41.50	1.000
1.000	121.5	0.000	0.000	5AL_158_160_L_0							
165 D	6.112	-4.8837E-05	170.8	80.23	170.8	101.3	UL-RL	4.3213E+05	-8.200	42.00	1.000
1.000	122.2	0.000	0.000	5AL_158_160_L_0							
166 D	6.150	-4.8837E-05	171.3	80.50	171.3	101.6	UL-RL	4.3213E+05	-8.250	42.50	1.000
1.000	123.0	0.000	0.000	5AL_158_160_L_0							
167 D	6.188	-4.8837E-05	171.7	80.77	171.7	101.9	UL-RL	4.3213E+05	-8.300	43.00	1.000
1.000	123.8	0.000	0.000	5AL_158_160_L_0							
168 D	6.227	-4.8837E-05	172.2	81.03	172.2	102.1	UL-RL	4.3213E+05	-8.350	43.50	1.000
1.000	124.5	0.000	0.000	5AL_158_160_L_0							
169 D	6.265	-4.8837E-05	172.6	81.30	172.6	102.4	UL-RL	4.3213E+05	-8.400	44.00	1.000
1.000	125.3	0.000	0.000	5AL_158_160_L_0							
170 D	6.303	-4.8837E-05	173.1	81.57	173.1	102.7	UL-RL	4.3213E+05	-8.450	44.50	1.000
1.000	126.1	0.000	0.000	5AL_158_160_L_0							
171 D	6.342	-4.8837E-05	173.5	81.83	173.5	102.9	UL-RL	4.3213E+05	-8.500	45.00	1.000
1.000	126.8	0.000	0.000	5AL_158_160_L_0							
172 D	6.380	-4.8837E-05	174.0	82.10	174.0	103.2	UL-RL	4.3213E+05	-8.550	45.50	1.000
1.000	127.6	0.000	0.000	5AL_158_160_L_0							
173 D	6.418	-4.8837E-05	174.4	82.37	174.4	103.5	UL-RL	4.3213E+05	-8.600	46.00	1.000
1.000	128.4	0.000	0.000	5AL_158_160_L_0							
174 D	6.457	-4.8837E-05	174.9	82.63	174.9	103.7	UL-RL	4.3213E+05	-8.650	46.50	1.000
1.000	129.1	0.000	0.000	5AL_158_160_L_0							
175 D	6.495	-4.8837E-05	175.3	82.90	175.3	104.0	UL-RL	4.3213E+05	-8.700	47.00	1.000
1.000	129.9	0.000	0.000	5AL_158_160_L_0							
176 D	6.533	-4.8837E-05	175.8	83.17	175.8	104.3	UL-RL	4.3213E+05	-8.750	47.50	1.000
1.000	130.7	0.000	0.000	5AL_158_160_L_0							
177 D	6.572	-4.8837E-05	176.2	83.44	176.2	104.5	UL-RL	4.3213E+05	-8.800	48.00	1.000
1.000	131.4	0.000	0.000	5AL_158_160_L_0							
178 D	6.610	-4.8837E-05	176.7	83.70	176.7	104.8	UL-RL	4.3213E+05	-8.850	48.50	1.000
1.000	132.2	0.000	0.000	5AL_158_160_L_0							
179 D	6.648	-4.8837E-05	177.1	83.97	177.1	105.1	UL-RL	4.3213E+05	-8.900	49.00	1.000
1.000	133.0	0.000	0.000	5AL_158_160_L_0							
180 D	6.687	-4.8837E-05	177.6	84.24	177.6	105.3	UL-RL	4.3213E+05	-8.950	49.50	1.000
1.000	133.7	0.000	0.000	5AL_158_160_L_0							
181 D	6.725	-4.8837E-05	178.0	84.50	178.0	105.6	UL-RL	4.3213E+05	-9.000	50.00	1.000
1.000	134.5	0.000	0.000	5AL_158_160_L_0							
182 D	6.764	-4.8837E-05	178.5	84.77	178.5	105.9	UL-RL	4.3213E+05	-9.050	50.50	1.000
1.000	135.3	0.000	0.000	5AL_158_160_L_0							
183 D	6.802	-4.8837E-05	178.9	85.04	178.9	106.1	UL-RL	4.3213E+05	-9.100	51.00	1.000
1.000	136.0	0.000	0.000	5AL_158_160_L_0							
184 D	6.840	-4.8837E-05	179.4	85.30	179.4	106.4	UL-RL	4.3213E+05	-9.150	51.50	1.000
1.000	136.8	0.000	0.000	5AL_158_160_L_0							
185 D	6.879	-4.8837E-05	179.8	85.57	179.8	106.7	UL-RL	4.3213E+05	-9.200	52.00	1.000
1.000	137.6	0.000	0.000	5AL_158_160_L_0							
186 D	6.917	-4.8837E-05	180.3	85.84	180.3	106.9	UL-RL	4.3213E+05	-9.250	52.50	1.000
1.000	138.3	0.000	0.000	5AL_158_160_L_0							
187 D	6.955	-4.8837E-05	180.7	86.11	180.7	107.2	UL-RL	4.3213E+05	-9.300	53.00	1.000
1.000	139.1	0.000	0.000	5AL_158_160_L_0							
188 D	6.994	-4.8837E-05	181.2	86.37	181.2	107.5	UL-RL	4.3213E+05	-9.350	53.50	1.000
1.000	139.9	0.000	0.000	5AL_158_160_L_0							
189 D	7.032	-4.8837E-05	181.6	86.64	181.6	107.7	UL-RL	4.3213E+05	-9.400	54.00	1.000
1.000	140.6	0.000	0.000	5AL_158_160_L_0							
190 D	7.070	-4.8837E-05	182.1	86.91	182.1	108.0	UL-RL	4.3213E+05	-9.450	54.50	1.000



LINEA PESCARA - BARI
 RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:
 Lotto 1: Ripalta - Lesina
 PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	374 di 401

1.000	141.4	0.000	0.000	5AL_158_160_L_0							
191 D	7.109	-4.8837E-05	182.5	87.17	182.5	108.3	UL-RL	4.3213E+05	-9.500	55.00	1.000
1.000	142.2	0.000	0.000	5AL_158_160_L_0							
192 D	7.147	-4.8837E-05	183.0	87.44	183.0	108.5	UL-RL	4.3213E+05	-9.550	55.50	1.000
1.000	142.9	0.000	0.000	5AL_158_160_L_0							
193 D	7.185	-4.8837E-05	183.4	87.71	183.4	108.8	UL-RL	4.3213E+05	-9.600	56.00	1.000
1.000	143.7	0.000	0.000	5AL_158_160_L_0							
194 D	7.224	-4.8837E-05	183.9	87.97	183.9	109.1	UL-RL	4.3213E+05	-9.650	56.50	1.000
1.000	144.5	0.000	0.000	5AL_158_160_L_0							
195 D	7.262	-4.8837E-05	184.3	88.24	184.3	109.3	UL-RL	4.3213E+05	-9.700	57.00	1.000
1.000	145.2	0.000	0.000	5AL_158_160_L_0							
196 D	7.300	-4.8837E-05	184.8	88.51	184.8	109.6	UL-RL	4.3213E+05	-9.750	57.50	1.000
1.000	146.0	0.000	0.000	5AL_158_160_L_0							
197 D	7.339	-4.8837E-05	185.2	88.78	185.2	109.9	UL-RL	4.3213E+05	-9.800	58.00	1.000
1.000	146.8	0.000	0.000	5AL_158_160_L_0							
198 D	7.377	-4.8837E-05	185.7	89.04	185.7	110.1	UL-RL	4.3213E+05	-9.850	58.50	1.000
1.000	147.5	0.000	0.000	5AL_158_160_L_0							
199 D	7.415	-4.8837E-05	186.1	89.31	186.1	110.4	UL-RL	4.3213E+05	-9.900	59.00	1.000
1.000	148.3	0.000	0.000	5AL_158_160_L_0							
200 D	7.452	-4.8837E-05	186.6	89.58	186.6	110.7	UL-RL	4.3213E+05	-9.950	59.50	1.000
1.000	149.1	0.000	0.000	5AL_158_160_L_0							
201 D	3.745	-4.8837E-05	187.0	89.84	187.0	110.9	UL-RL	4.3213E+05	-10.00	60.00	1.000
1.000	149.8	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
 Exe Time :21 June 2016 11:57:47

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

OR
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
 CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
UFACTOR	Peg	Su_a	Su_p	LAYER							
1 D	0.4023	6.1819E-05	0.000	16.09	0.000	16.10	UL-RL	4.1655E+05	0.000	0.000	1.000
1.000	16.09	0.000	0.000	5AL_158_160_L_0							
2 D	0.8279	6.1445E-05	0.9500	16.56	0.9500	16.56	UL-RL	4.1655E+05	-5.0000E-02	0.000	1.000
1.000	16.56	0.000	0.000	5AL_158_160_L_0							
3 D	0.8512	6.1070E-05	1.900	17.02	1.900	17.03	UL-RL	4.1655E+05	-0.1000	0.000	1.000
1.000	17.02	0.000	0.000	5AL_158_160_L_0							
4 D	0.8746	6.0696E-05	2.850	17.49	2.850	17.49	UL-RL	4.1655E+05	-0.1500	0.000	1.000
1.000	17.49	0.000	0.000	5AL_158_160_L_0							
5 D	0.8979	6.0322E-05	3.800	17.96	3.800	17.96	UL-RL	4.1655E+05	-0.2000	0.000	1.000
1.000	17.96	0.000	0.000	5AL_158_160_L_0							
6 D	0.9213	5.9949E-05	4.750	18.43	4.750	18.43	V-C	2.6034E+05	-0.2500	0.000	1.000
1.000	18.43	0.000	0.000	5AL_158_160_L_0							
7 D	0.9446	5.9575E-05	5.700	18.89	5.700	18.89	V-C	2.6034E+05	-0.3000	0.000	1.000
1.000	18.89	0.000	0.000	5AL_158_160_L_0							
8 D	0.9679	5.9203E-05	6.650	19.36	6.650	19.36	V-C	2.6034E+05	-0.3500	0.000	1.000
1.000	19.36	0.000	0.000	5AL_158_160_L_0							
9 D	0.9913	5.8831E-05	7.600	19.83	7.600	19.83	V-C	2.6034E+05	-0.4000	0.000	1.000
1.000	19.83	0.000	0.000	5AL_158_160_L_0							
10 D	1.015	5.8460E-05	8.550	20.29	8.550	20.29	V-C	2.6034E+05	-0.4500	0.000	1.000
1.000	20.29	0.000	0.000	5AL_158_160_L_0							
11 D	1.038	5.8091E-05	9.500	20.76	9.500	20.76	V-C	2.6034E+05	-0.5000	0.000	1.000
1.000	20.76	0.000	0.000	5AL_158_160_L_0							
12 D	1.061	5.7723E-05	10.45	21.23	10.45	21.23	V-C	2.6034E+05	-0.5500	0.000	1.000
1.000	21.23	0.000	0.000	5AL_158_160_L_0							
13 D	1.085	5.7358E-05	11.40	21.70	11.40	21.70	V-C	2.6034E+05	-0.6000	0.000	1.000
1.000	21.70	0.000	0.000	5AL_158_160_L_0							
14 D	1.108	5.6994E-05	12.35	22.17	12.35	22.17	V-C	2.6034E+05	-0.6500	0.000	1.000
1.000	22.17	0.000	0.000	5AL_158_160_L_0							
15 D	1.132	5.6634E-05	13.30	22.63	13.30	22.63	V-C	2.6034E+05	-0.7000	0.000	1.000
1.000	22.63	0.000	0.000	5AL_158_160_L_0							
16 D	1.155	5.6276E-05	14.25	23.11	14.25	23.11	V-C	2.6034E+05	-0.7500	0.000	1.000
1.000	23.11	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	375 di 401

17 D	1.179	5.5922E-05	15.20	23.58	15.20	23.58	V-C	2.6034E+05	-0.8000	0.000	1.000
1.000	23.58	0.000	0.000	5AL_158_160_L_0							
18 D	1.202	5.5572E-05	16.15	24.05	16.15	24.05	V-C	2.6034E+05	-0.8500	0.000	1.000
1.000	24.05	0.000	0.000	5AL_158_160_L_0							
19 D	1.226	5.5226E-05	17.10	24.52	17.10	24.52	V-C	2.6034E+05	-0.9000	0.000	1.000
1.000	24.52	0.000	0.000	5AL_158_160_L_0							
20 D	1.250	5.4885E-05	18.05	25.00	18.05	25.00	V-C	2.6034E+05	-0.9500	0.000	1.000
1.000	25.00	0.000	0.000	5AL_158_160_L_0							
21 D	1.274	5.4550E-05	19.00	25.47	19.00	25.47	V-C	2.6034E+05	-1.000	0.000	1.000
1.000	25.47	0.000	0.000	5AL_158_160_L_0							
22 D	1.298	5.4220E-05	19.95	25.95	19.95	25.95	V-C	2.6034E+05	-1.050	0.000	1.000
1.000	25.95	0.000	0.000	5AL_158_160_L_0							
23 D	1.322	5.3896E-05	20.90	26.43	20.90	26.43	V-C	2.6034E+05	-1.100	0.000	1.000
1.000	26.43	0.000	0.000	5AL_158_160_L_0							
24 D	1.346	5.3579E-05	21.85	26.91	21.85	26.91	V-C	2.6034E+05	-1.150	0.000	1.000
1.000	26.91	0.000	0.000	5AL_158_160_L_0							
25 D	1.370	5.3270E-05	22.80	27.40	22.80	27.40	V-C	2.6034E+05	-1.200	0.000	1.000
1.000	27.40	0.000	0.000	5AL_158_160_L_0							
26 D	1.394	5.2968E-05	23.75	27.88	23.75	27.88	V-C	2.6034E+05	-1.250	0.000	1.000
1.000	27.88	0.000	0.000	5AL_158_160_L_0							
27 D	1.418	5.2674E-05	24.70	28.37	24.70	28.37	V-C	2.6034E+05	-1.300	0.000	1.000
1.000	28.37	0.000	0.000	5AL_158_160_L_0							
28 D	1.443	5.2389E-05	25.65	28.86	25.65	28.86	V-C	2.6034E+05	-1.350	0.000	1.000
1.000	28.86	0.000	0.000	5AL_158_160_L_0							
29 D	1.467	5.2113E-05	26.60	29.35	26.60	29.35	V-C	2.6034E+05	-1.400	0.000	1.000
1.000	29.35	0.000	0.000	5AL_158_160_L_0							
30 D	1.492	5.1847E-05	27.55	29.84	27.55	29.84	V-C	2.6034E+05	-1.450	0.000	1.000
1.000	29.84	0.000	0.000	5AL_158_160_L_0							
31 D	1.517	5.1590E-05	28.50	30.34	28.50	30.34	V-C	2.6034E+05	-1.500	0.000	1.000
1.000	30.34	0.000	0.000	5AL_158_160_L_0							
32 D	1.542	5.1344E-05	29.45	30.84	29.45	30.84	V-C	2.6034E+05	-1.550	0.000	1.000
1.000	30.84	0.000	0.000	5AL_158_160_L_0							
33 D	1.567	5.1109E-05	30.40	31.34	30.40	31.34	V-C	2.6034E+05	-1.600	0.000	1.000
1.000	31.34	0.000	0.000	5AL_158_160_L_0							
34 D	1.592	5.0885E-05	31.35	31.85	31.35	31.85	V-C	2.6034E+05	-1.650	0.000	1.000
1.000	31.85	0.000	0.000	5AL_158_160_L_0							
35 D	1.618	5.0672E-05	32.30	32.36	32.30	32.36	V-C	2.6034E+05	-1.700	0.000	1.000
1.000	32.36	0.000	0.000	5AL_158_160_L_0							
36 D	1.643	5.0471E-05	33.25	32.87	33.25	32.87	V-C	2.6034E+05	-1.750	0.000	1.000
1.000	32.87	0.000	0.000	5AL_158_160_L_0							
37 D	1.669	5.0281E-05	34.20	33.38	34.20	33.38	V-C	2.6034E+05	-1.800	0.000	1.000
1.000	33.38	0.000	0.000	5AL_158_160_L_0							
38 D	1.695	5.0103E-05	35.15	33.90	35.15	33.90	V-C	2.6034E+05	-1.850	0.000	1.000
1.000	33.90	0.000	0.000	5AL_158_160_L_0							
39 D	1.721	4.9938E-05	36.10	34.42	36.10	34.42	V-C	2.6034E+05	-1.900	0.000	1.000
1.000	34.42	0.000	0.000	5AL_158_160_L_0							
40 D	1.747	4.9784E-05	37.05	34.94	37.05	34.94	V-C	2.6034E+05	-1.950	0.000	1.000
1.000	34.94	0.000	0.000	5AL_158_160_L_0							
41 D	1.773	4.9641E-05	38.00	35.47	38.00	35.47	V-C	2.6034E+05	-2.000	0.000	1.000
1.000	35.47	0.000	0.000	5AL_158_160_L_0							
42 D	1.800	4.9510E-05	38.95	36.00	38.95	36.00	V-C	2.6034E+05	-2.050	0.000	1.000
1.000	36.00	0.000	0.000	5AL_158_160_L_0							
43 D	1.827	4.9391E-05	39.90	36.53	39.90	36.53	V-C	2.6034E+05	-2.100	0.000	1.000
1.000	36.53	0.000	0.000	5AL_158_160_L_0							
44 D	1.853	4.9282E-05	40.85	37.07	40.85	37.07	V-C	2.6034E+05	-2.150	0.000	1.000
1.000	37.07	0.000	0.000	5AL_158_160_L_0							
45 D	1.880	4.9184E-05	41.80	37.60	41.80	37.60	V-C	2.6034E+05	-2.200	0.000	1.000
1.000	37.60	0.000	0.000	5AL_158_160_L_0							
46 D	1.907	4.9095E-05	42.75	38.15	42.75	38.15	V-C	2.6034E+05	-2.250	0.000	1.000
1.000	38.15	0.000	0.000	5AL_158_160_L_0							
47 D	1.934	4.9016E-05	43.70	38.69	43.70	38.69	V-C	2.6034E+05	-2.300	0.000	1.000
1.000	38.69	0.000	0.000	5AL_158_160_L_0							
48 D	1.962	4.8946E-05	44.65	39.23	44.65	39.23	V-C	2.6034E+05	-2.350	0.000	1.000
1.000	39.23	0.000	0.000	5AL_158_160_L_0							
49 D	1.989	4.8885E-05	45.60	39.78	45.60	39.78	V-C	2.6034E+05	-2.400	0.000	1.000
1.000	39.78	0.000	0.000	5AL_158_160_L_0							
50 D	2.016	4.8831E-05	46.55	40.33	46.55	40.33	UL-RL	4.1655E+05	-2.450	0.000	1.000
1.000	40.33	0.000	0.000	5AL_158_160_L_0							
51 D	2.044	4.8785E-05	47.50	40.87	47.50	40.90	UL-RL	4.1655E+05	-2.500	0.000	1.000
1.000	40.87	0.000	0.000	5AL_158_160_L_0							
52 D	2.071	4.8746E-05	48.45	41.42	48.45	41.46	UL-RL	4.1655E+05	-2.550	0.000	1.000
1.000	41.42	0.000	0.000	5AL_158_160_L_0							
53 D	2.099	4.8712E-05	49.40	41.97	49.40	42.02	UL-RL	4.1655E+05	-2.600	0.000	1.000
1.000	41.97	0.000	0.000	5AL_158_160_L_0							
54 D	2.126	4.8685E-05	50.35	42.52	50.35	42.59	UL-RL	4.1655E+05	-2.650	0.000	1.000
1.000	42.52	0.000	0.000	5AL_158_160_L_0							
55 D	2.154	4.8663E-05	51.30	43.08	51.30	43.15	UL-RL	4.1655E+05	-2.700	0.000	1.000
1.000	43.08	0.000	0.000	5AL_158_160_L_0							
56 D	2.182	4.8646E-05	52.25	43.63	52.25	43.71	UL-RL	4.1655E+05	-2.750	0.000	1.000
1.000	43.63	0.000	0.000	5AL_158_160_L_0							
57 D	2.210	4.8632E-05	53.20	44.19	53.20	44.28	UL-RL	4.1655E+05	-2.800	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	376 di 401

1.000	44.19	0.000	0.000	5AL_158_160_L_0							
58 D	2.238	4.8623E-05	54.15	44.75	54.15	44.84	UL-RL	4.1655E+05	-2.850	0.000	1.000
1.000	44.75	0.000	0.000	5AL_158_160_L_0							
59 D	2.266	4.8617E-05	55.10	45.31	55.10	45.41	UL-RL	4.1655E+05	-2.900	0.000	1.000
1.000	45.31	0.000	0.000	5AL_158_160_L_0							
60 D	2.294	4.8614E-05	56.05	45.88	56.05	45.97	UL-RL	4.1655E+05	-2.950	0.000	1.000
1.000	45.88	0.000	0.000	5AL_158_160_L_0							
61 D	2.322	4.8614E-05	57.00	46.44	57.00	46.53	UL-RL	4.1655E+05	-3.000	0.000	1.000
1.000	46.44	0.000	0.000	5AL_158_160_L_0							
62 D	2.350	4.8616E-05	57.95	47.00	57.95	47.10	UL-RL	4.1655E+05	-3.050	0.000	1.000
1.000	47.00	0.000	0.000	5AL_158_160_L_0							
63 D	2.378	4.8620E-05	58.90	47.57	58.90	47.66	UL-RL	4.1655E+05	-3.100	0.000	1.000
1.000	47.57	0.000	0.000	5AL_158_160_L_0							
64 D	2.407	4.8626E-05	59.85	48.14	59.85	48.22	UL-RL	4.1655E+05	-3.150	0.000	1.000
1.000	48.14	0.000	0.000	5AL_158_160_L_0							
65 D	2.435	4.8632E-05	60.80	48.70	60.80	48.79	UL-RL	4.1655E+05	-3.200	0.000	1.000
1.000	48.70	0.000	0.000	5AL_158_160_L_0							
66 D	2.463	4.8640E-05	61.75	49.27	61.75	49.35	UL-RL	4.1655E+05	-3.250	0.000	1.000
1.000	49.27	0.000	0.000	5AL_158_160_L_0							
67 D	2.492	4.8649E-05	62.70	49.84	62.70	49.91	UL-RL	4.1655E+05	-3.300	0.000	1.000
1.000	49.84	0.000	0.000	5AL_158_160_L_0							
68 D	2.520	4.8659E-05	63.65	50.40	63.65	50.48	UL-RL	4.1655E+05	-3.350	0.000	1.000
1.000	50.40	0.000	0.000	5AL_158_160_L_0							
69 D	2.549	4.8669E-05	64.60	50.97	64.60	51.04	UL-RL	4.1655E+05	-3.400	0.000	1.000
1.000	50.97	0.000	0.000	5AL_158_160_L_0							
70 D	2.577	4.8679E-05	65.55	51.54	65.55	51.61	UL-RL	4.1655E+05	-3.450	0.000	1.000
1.000	51.54	0.000	0.000	5AL_158_160_L_0							
71 D	2.605	4.8690E-05	66.50	52.11	66.50	52.17	UL-RL	4.1655E+05	-3.500	0.000	1.000
1.000	52.11	0.000	0.000	5AL_158_160_L_0							
72 D	2.634	4.8700E-05	67.45	52.68	67.45	52.73	UL-RL	4.1655E+05	-3.550	0.000	1.000
1.000	52.68	0.000	0.000	5AL_158_160_L_0							
73 D	2.662	4.8711E-05	68.40	53.24	68.40	53.30	UL-RL	4.1655E+05	-3.600	0.000	1.000
1.000	53.24	0.000	0.000	5AL_158_160_L_0							
74 D	2.691	4.8721E-05	69.35	53.81	69.35	53.86	UL-RL	4.1655E+05	-3.650	0.000	1.000
1.000	53.81	0.000	0.000	5AL_158_160_L_0							
75 D	2.719	4.8731E-05	70.30	54.38	70.30	54.42	UL-RL	4.1655E+05	-3.700	0.000	1.000
1.000	54.38	0.000	0.000	5AL_158_160_L_0							
76 D	2.747	4.8741E-05	71.25	54.95	71.25	54.99	UL-RL	4.1655E+05	-3.750	0.000	1.000
1.000	54.95	0.000	0.000	5AL_158_160_L_0							
77 D	2.776	4.8750E-05	72.20	55.51	72.20	55.55	UL-RL	4.1655E+05	-3.800	0.000	1.000
1.000	55.51	0.000	0.000	5AL_158_160_L_0							
78 D	2.804	4.8759E-05	73.15	56.08	73.15	56.11	UL-RL	4.1655E+05	-3.850	0.000	1.000
1.000	56.08	0.000	0.000	5AL_158_160_L_0							
79 D	2.832	4.8768E-05	74.10	56.65	74.10	56.68	UL-RL	4.1655E+05	-3.900	0.000	1.000
1.000	56.65	0.000	0.000	5AL_158_160_L_0							
80 D	2.861	4.8776E-05	75.05	57.22	75.05	57.24	UL-RL	4.1655E+05	-3.950	0.000	1.000
1.000	57.22	0.000	0.000	5AL_158_160_L_0							
81 D	2.889	4.8784E-05	76.00	57.78	76.00	57.81	UL-RL	4.1655E+05	-4.000	0.000	1.000
1.000	57.78	0.000	0.000	5AL_158_160_L_0							
82 D	2.928	4.8791E-05	76.45	58.05	76.45	58.07	UL-RL	4.1655E+05	-4.050	0.5000	1.000
1.000	58.05	0.000	0.000	5AL_158_160_L_0							
83 D	2.966	4.8797E-05	76.90	58.32	76.90	58.34	UL-RL	4.1655E+05	-4.100	1.000	1.000
1.000	59.32	0.000	0.000	5AL_158_160_L_0							
84 D	3.005	4.8803E-05	77.35	58.59	77.35	58.61	UL-RL	4.1655E+05	-4.150	1.500	1.000
1.000	60.09	0.000	0.000	5AL_158_160_L_0							
85 D	3.043	4.8809E-05	77.80	58.86	77.80	58.87	UL-RL	4.1655E+05	-4.200	2.000	1.000
1.000	60.86	0.000	0.000	5AL_158_160_L_0							
86 D	3.082	4.8814E-05	78.25	59.13	78.25	59.14	UL-RL	4.1655E+05	-4.250	2.500	1.000
1.000	61.63	0.000	0.000	5AL_158_160_L_0							
87 D	3.120	4.8819E-05	78.70	59.40	78.70	59.41	UL-RL	4.1655E+05	-4.300	3.000	1.000
1.000	62.40	0.000	0.000	5AL_158_160_L_0							
88 D	3.158	4.8823E-05	79.15	59.67	79.15	59.67	UL-RL	4.1655E+05	-4.350	3.500	1.000
1.000	63.17	0.000	0.000	5AL_158_160_L_0							
89 D	3.197	4.8827E-05	79.60	59.94	79.60	59.94	UL-RL	4.1655E+05	-4.400	4.000	1.000
1.000	63.94	0.000	0.000	5AL_158_160_L_0							
90 D	3.235	4.8830E-05	80.05	60.21	80.05	60.21	UL-RL	4.1655E+05	-4.450	4.500	1.000
1.000	64.71	0.000	0.000	5AL_158_160_L_0							
91 D	3.274	4.8833E-05	80.50	60.47	80.50	60.47	UL-RL	4.1655E+05	-4.500	5.000	1.000
1.000	65.47	0.000	0.000	5AL_158_160_L_0							
92 D	3.312	4.8836E-05	80.95	60.74	80.95	60.74	UL-RL	4.1655E+05	-4.550	5.500	1.000
1.000	66.24	0.000	0.000	5AL_158_160_L_0							
93 D	3.350	4.8838E-05	81.40	61.01	81.40	61.01	V-C	2.6034E+05	-4.600	6.000	1.000
1.000	67.01	0.000	0.000	5AL_158_160_L_0							
94 D	3.389	4.8840E-05	81.85	61.28	81.85	61.28	V-C	2.6034E+05	-4.650	6.500	1.000
1.000	67.78	0.000	0.000	5AL_158_160_L_0							
95 D	3.427	4.8842E-05	82.30	61.54	82.30	61.54	V-C	2.6034E+05	-4.700	7.000	1.000
1.000	68.54	0.000	0.000	5AL_158_160_L_0							
96 D	3.466	4.8844E-05	82.75	61.81	82.75	61.81	V-C	2.6034E+05	-4.750	7.500	1.000
1.000	69.31	0.000	0.000	5AL_158_160_L_0							
97 D	3.504	4.8845E-05	83.20	62.08	83.20	62.08	V-C	2.6034E+05	-4.800	8.000	1.000
1.000	70.08	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	377 di 401

98 D	3.542	4.8846E-05	83.65	62.35	83.65	62.35	V-C	2.6034E+05	-4.950	8.500	1.000
1.000	70.85	0.000	0.000	5AL_158_160_L_0							
99 D	3.581	4.8847E-05	84.10	62.61	84.10	62.61	V-C	2.6034E+05	-4.900	9.000	1.000
1.000	71.61	0.000	0.000	5AL_158_160_L_0							
100 D	3.619	4.8847E-05	84.55	62.88	84.55	62.88	V-C	2.6034E+05	-4.950	9.500	1.000
1.000	72.38	0.000	0.000	5AL_158_160_L_0							
101 D	3.657	4.8848E-05	85.00	63.15	85.00	63.15	UL-RL	4.1655E+05	-5.000	10.000	1.000
1.000	73.15	0.000	0.000	5AL_158_160_L_0							
102 D	3.696	4.8848E-05	85.45	63.41	85.45	63.41	UL-RL	4.1655E+05	-5.050	10.500	1.000
1.000	73.91	0.000	0.000	5AL_158_160_L_0							
103 D	3.734	4.8848E-05	85.90	63.68	85.90	63.68	UL-RL	4.1655E+05	-5.100	11.000	1.000
1.000	74.68	0.000	0.000	5AL_158_160_L_0							
104 D	3.772	4.8848E-05	86.35	63.95	86.35	63.95	UL-RL	4.1655E+05	-5.150	11.500	1.000
1.000	75.45	0.000	0.000	5AL_158_160_L_0							
105 D	3.811	4.8848E-05	86.80	64.22	86.80	64.22	UL-RL	4.1655E+05	-5.200	12.000	1.000
1.000	76.22	0.000	0.000	5AL_158_160_L_0							
106 D	3.849	4.8848E-05	87.25	64.48	87.25	64.48	UL-RL	4.1655E+05	-5.250	12.500	1.000
1.000	76.98	0.000	0.000	5AL_158_160_L_0							
107 D	3.887	4.8848E-05	87.70	64.75	87.70	64.75	UL-RL	4.1655E+05	-5.300	13.000	1.000
1.000	77.75	0.000	0.000	5AL_158_160_L_0							
108 D	3.926	4.8847E-05	88.15	65.02	88.15	65.02	UL-RL	4.1655E+05	-5.350	13.500	1.000
1.000	78.52	0.000	0.000	5AL_158_160_L_0							
109 D	3.964	4.8847E-05	88.60	65.28	88.60	65.28	UL-RL	4.1655E+05	-5.400	14.000	1.000
1.000	79.28	0.000	0.000	5AL_158_160_L_0							
110 D	4.002	4.8847E-05	89.05	65.55	89.05	65.55	UL-RL	4.1655E+05	-5.450	14.500	1.000
1.000	80.05	0.000	0.000	5AL_158_160_L_0							
111 D	4.041	4.8846E-05	89.50	65.82	89.50	65.82	UL-RL	4.1655E+05	-5.500	15.000	1.000
1.000	80.82	0.000	0.000	5AL_158_160_L_0							
112 D	4.079	4.8846E-05	89.95	66.08	89.95	66.08	UL-RL	4.1655E+05	-5.550	15.500	1.000
1.000	81.58	0.000	0.000	5AL_158_160_L_0							
113 D	4.118	4.8845E-05	90.40	66.35	90.40	66.35	UL-RL	4.1655E+05	-5.600	16.000	1.000
1.000	82.35	0.000	0.000	5AL_158_160_L_0							
114 D	4.156	4.8845E-05	90.85	66.62	90.85	66.62	UL-RL	4.1655E+05	-5.650	16.500	1.000
1.000	83.12	0.000	0.000	5AL_158_160_L_0							
115 D	4.194	4.8844E-05	91.30	66.88	91.30	66.88	UL-RL	4.1655E+05	-5.700	17.000	1.000
1.000	83.88	0.000	0.000	5AL_158_160_L_0							
116 D	4.233	4.8844E-05	91.75	67.15	91.75	67.15	UL-RL	4.1655E+05	-5.750	17.500	1.000
1.000	84.65	0.000	0.000	5AL_158_160_L_0							
117 D	4.271	4.8843E-05	92.20	67.42	92.20	67.42	UL-RL	4.1655E+05	-5.800	18.000	1.000
1.000	85.42	0.000	0.000	5AL_158_160_L_0							
118 D	4.309	4.8843E-05	92.65	67.68	92.65	67.69	UL-RL	4.1655E+05	-5.850	18.500	1.000
1.000	86.18	0.000	0.000	5AL_158_160_L_0							
119 D	4.348	4.8842E-05	93.10	67.95	93.10	67.95	UL-RL	4.1655E+05	-5.900	19.000	1.000
1.000	86.95	0.000	0.000	5AL_158_160_L_0							
120 D	4.386	4.8842E-05	93.55	68.22	93.55	68.22	UL-RL	4.1655E+05	-5.950	19.500	1.000
1.000	87.72	0.000	0.000	5AL_158_160_L_0							
121 D	4.424	4.8841E-05	94.00	68.49	94.00	68.49	UL-RL	4.1655E+05	-6.000	20.000	1.000
1.000	88.49	0.000	0.000	5AL_158_160_L_0							
122 D	4.463	4.8841E-05	94.45	68.75	94.45	68.75	UL-RL	4.1655E+05	-6.050	20.500	1.000
1.000	89.25	0.000	0.000	5AL_158_160_L_0							
123 D	4.501	4.8841E-05	94.90	69.02	94.90	69.02	UL-RL	4.1655E+05	-6.100	21.000	1.000
1.000	90.02	0.000	0.000	5AL_158_160_L_0							
124 D	4.539	4.8840E-05	95.35	69.29	95.35	69.29	UL-RL	4.1655E+05	-6.150	21.500	1.000
1.000	90.79	0.000	0.000	5AL_158_160_L_0							
125 D	4.578	4.8840E-05	95.80	69.55	95.80	69.55	UL-RL	4.1655E+05	-6.200	22.000	1.000
1.000	91.55	0.000	0.000	5AL_158_160_L_0							
126 D	4.616	4.8840E-05	96.25	69.82	96.25	69.82	UL-RL	4.1655E+05	-6.250	22.500	1.000
1.000	92.32	0.000	0.000	5AL_158_160_L_0							
127 D	4.654	4.8839E-05	96.70	70.09	96.70	70.09	UL-RL	4.1655E+05	-6.300	23.000	1.000
1.000	93.09	0.000	0.000	5AL_158_160_L_0							
128 D	4.693	4.8839E-05	97.15	70.35	97.15	70.35	UL-RL	4.1655E+05	-6.350	23.500	1.000
1.000	93.85	0.000	0.000	5AL_158_160_L_0							
129 D	4.731	4.8839E-05	97.60	70.62	97.60	70.62	UL-RL	4.1655E+05	-6.400	24.000	1.000
1.000	94.62	0.000	0.000	5AL_158_160_L_0							
130 D	4.769	4.8838E-05	98.05	70.89	98.05	70.89	UL-RL	4.1655E+05	-6.450	24.500	1.000
1.000	95.39	0.000	0.000	5AL_158_160_L_0							
131 D	4.808	4.8838E-05	98.50	71.15	98.50	71.15	UL-RL	4.1655E+05	-6.500	25.000	1.000
1.000	96.15	0.000	0.000	5AL_158_160_L_0							
132 D	4.846	4.8838E-05	98.95	71.42	98.95	71.42	UL-RL	4.1655E+05	-6.550	25.500	1.000
1.000	96.92	0.000	0.000	5AL_158_160_L_0							
133 D	4.884	4.8838E-05	99.40	71.69	99.40	71.69	UL-RL	4.1655E+05	-6.600	26.000	1.000
1.000	97.69	0.000	0.000	5AL_158_160_L_0							
134 D	4.923	4.8838E-05	99.85	71.96	99.85	71.96	UL-RL	4.1655E+05	-6.650	26.500	1.000
1.000	98.46	0.000	0.000	5AL_158_160_L_0							
135 D	4.961	4.8837E-05	100.3	72.22	100.3	72.22	UL-RL	4.1655E+05	-6.700	27.000	1.000
1.000	99.22	0.000	0.000	5AL_158_160_L_0							
136 D	4.999	4.8837E-05	100.8	72.49	100.8	72.49	UL-RL	4.1655E+05	-6.750	27.500	1.000
1.000	99.99	0.000	0.000	5AL_158_160_L_0							
137 D	5.038	4.8837E-05	101.2	72.76	101.2	72.76	UL-RL	4.1655E+05	-6.800	28.000	1.000
1.000	100.8	0.000	0.000	5AL_158_160_L_0							
138 D	5.076	4.8837E-05	101.7	73.02	101.7	73.02	UL-RL	4.1655E+05	-6.850	28.500	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	378 di 401

1.000	101.5	0.000	0.000	SAL_158_160_L_0							
139 D	5.115	4.8837E-05	102.1	73.29	102.1	73.29	UL-RL	4.1655E+05	-6.900	29.00	1.000
1.000	102.3	0.000	0.000	SAL_158_160_L_0							
140 D	5.153	4.8837E-05	102.6	73.56	102.6	73.56	UL-RL	4.1655E+05	-6.950	29.50	1.000
1.000	103.1	0.000	0.000	SAL_158_160_L_0							
141 D	5.191	4.8837E-05	103.0	73.82	103.0	73.82	UL-RL	4.1655E+05	-7.000	30.00	1.000
1.000	103.8	0.000	0.000	SAL_158_160_L_0							
142 D	5.230	4.8837E-05	103.5	74.09	103.5	74.09	UL-RL	4.1655E+05	-7.050	30.50	1.000
1.000	104.6	0.000	0.000	SAL_158_160_L_0							
143 D	5.268	4.8837E-05	103.9	74.36	103.9	74.36	UL-RL	4.1655E+05	-7.100	31.00	1.000
1.000	105.4	0.000	0.000	SAL_158_160_L_0							
144 D	5.306	4.8837E-05	104.4	74.63	104.4	74.63	UL-RL	4.1655E+05	-7.150	31.50	1.000
1.000	106.1	0.000	0.000	SAL_158_160_L_0							
145 D	5.345	4.8837E-05	104.8	74.89	104.8	74.89	UL-RL	4.1655E+05	-7.200	32.00	1.000
1.000	106.9	0.000	0.000	SAL_158_160_L_0							
146 D	5.383	4.8837E-05	105.3	75.16	105.3	75.16	UL-RL	4.1655E+05	-7.250	32.50	1.000
1.000	107.7	0.000	0.000	SAL_158_160_L_0							
147 D	5.421	4.8837E-05	105.7	75.43	105.7	75.43	UL-RL	4.1655E+05	-7.300	33.00	1.000
1.000	108.4	0.000	0.000	SAL_158_160_L_0							
148 D	5.460	4.8837E-05	106.2	75.69	106.2	75.69	UL-RL	4.1655E+05	-7.350	33.50	1.000
1.000	109.2	0.000	0.000	SAL_158_160_L_0							
149 D	5.498	4.8837E-05	106.6	75.96	106.6	75.96	UL-RL	4.1655E+05	-7.400	34.00	1.000
1.000	110.0	0.000	0.000	SAL_158_160_L_0							
150 D	5.536	4.8837E-05	107.1	76.23	107.1	76.23	UL-RL	4.1655E+05	-7.450	34.50	1.000
1.000	110.7	0.000	0.000	SAL_158_160_L_0							
151 D	5.575	4.8837E-05	107.5	76.49	107.5	76.49	UL-RL	4.1655E+05	-7.500	35.00	1.000
1.000	111.5	0.000	0.000	SAL_158_160_L_0							
152 D	5.613	4.8837E-05	108.0	76.76	108.0	76.76	UL-RL	4.1655E+05	-7.550	35.50	1.000
1.000	112.3	0.000	0.000	SAL_158_160_L_0							
153 D	5.651	4.8837E-05	108.4	77.03	108.4	77.03	UL-RL	4.1655E+05	-7.600	36.00	1.000
1.000	113.0	0.000	0.000	SAL_158_160_L_0							
154 D	5.690	4.8837E-05	108.9	77.29	108.9	77.30	UL-RL	4.1655E+05	-7.650	36.50	1.000
1.000	113.8	0.000	0.000	SAL_158_160_L_0							
155 D	5.728	4.8837E-05	109.3	77.56	109.3	77.56	UL-RL	4.1655E+05	-7.700	37.00	1.000
1.000	114.6	0.000	0.000	SAL_158_160_L_0							
156 D	5.766	4.8837E-05	109.8	77.83	109.8	77.83	UL-RL	4.1655E+05	-7.750	37.50	1.000
1.000	115.3	0.000	0.000	SAL_158_160_L_0							
157 D	5.805	4.8837E-05	110.2	78.10	110.2	78.10	UL-RL	4.1655E+05	-7.800	38.00	1.000
1.000	116.1	0.000	0.000	SAL_158_160_L_0							
158 D	5.843	4.8837E-05	110.7	78.36	110.7	78.36	UL-RL	4.1655E+05	-7.850	38.50	1.000
1.000	116.9	0.000	0.000	SAL_158_160_L_0							
159 D	5.881	4.8837E-05	111.1	78.63	111.1	78.63	UL-RL	4.1655E+05	-7.900	39.00	1.000
1.000	117.6	0.000	0.000	SAL_158_160_L_0							
160 D	5.920	4.8837E-05	111.6	78.90	111.6	78.90	UL-RL	4.1655E+05	-7.950	39.50	1.000
1.000	118.4	0.000	0.000	SAL_158_160_L_0							
161 D	5.958	4.8837E-05	112.0	79.16	112.0	79.16	UL-RL	4.1655E+05	-8.000	40.00	1.000
1.000	119.2	0.000	0.000	SAL_158_160_L_0							
162 D	5.997	4.8837E-05	112.5	79.43	112.5	79.43	UL-RL	4.1655E+05	-8.050	40.50	1.000
1.000	119.9	0.000	0.000	SAL_158_160_L_0							
163 D	6.035	4.8837E-05	112.9	79.70	112.9	79.70	UL-RL	4.1655E+05	-8.100	41.00	1.000
1.000	120.7	0.000	0.000	SAL_158_160_L_0							
164 D	6.073	4.8837E-05	113.4	79.96	113.4	79.96	UL-RL	4.1655E+05	-8.150	41.50	1.000
1.000	121.5	0.000	0.000	SAL_158_160_L_0							
165 D	6.112	4.8837E-05	113.8	80.23	113.8	80.23	UL-RL	4.1655E+05	-8.200	42.00	1.000
1.000	122.2	0.000	0.000	SAL_158_160_L_0							
166 D	6.150	4.8837E-05	114.3	80.50	114.3	80.50	UL-RL	4.1655E+05	-8.250	42.50	1.000
1.000	123.0	0.000	0.000	SAL_158_160_L_0							
167 D	6.188	4.8837E-05	114.7	80.77	114.7	80.77	UL-RL	4.1655E+05	-8.300	43.00	1.000
1.000	123.8	0.000	0.000	SAL_158_160_L_0							
168 D	6.227	4.8837E-05	115.2	81.03	115.2	81.03	UL-RL	4.1655E+05	-8.350	43.50	1.000
1.000	124.5	0.000	0.000	SAL_158_160_L_0							
169 D	6.265	4.8837E-05	115.6	81.30	115.6	81.30	UL-RL	4.1655E+05	-8.400	44.00	1.000
1.000	125.3	0.000	0.000	SAL_158_160_L_0							
170 D	6.303	4.8837E-05	116.1	81.57	116.1	81.57	UL-RL	4.1655E+05	-8.450	44.50	1.000
1.000	126.1	0.000	0.000	SAL_158_160_L_0							
171 D	6.342	4.8837E-05	116.5	81.83	116.5	81.83	UL-RL	4.1655E+05	-8.500	45.00	1.000
1.000	126.8	0.000	0.000	SAL_158_160_L_0							
172 D	6.380	4.8837E-05	117.0	82.10	117.0	82.10	UL-RL	4.1655E+05	-8.550	45.50	1.000
1.000	127.6	0.000	0.000	SAL_158_160_L_0							
173 D	6.418	4.8837E-05	117.4	82.37	117.4	82.37	UL-RL	4.1655E+05	-8.600	46.00	1.000
1.000	128.4	0.000	0.000	SAL_158_160_L_0							
174 D	6.457	4.8837E-05	117.9	82.63	117.9	82.63	UL-RL	4.1655E+05	-8.650	46.50	1.000
1.000	129.1	0.000	0.000	SAL_158_160_L_0							
175 D	6.495	4.8837E-05	118.3	82.90	118.3	82.90	UL-RL	4.1655E+05	-8.700	47.00	1.000
1.000	129.9	0.000	0.000	SAL_158_160_L_0							
176 D	6.533	4.8837E-05	118.8	83.17	118.8	83.17	UL-RL	4.1655E+05	-8.750	47.50	1.000
1.000	130.7	0.000	0.000	SAL_158_160_L_0							
177 D	6.572	4.8837E-05	119.2	83.44	119.2	83.44	UL-RL	4.1655E+05	-8.800	48.00	1.000
1.000	131.4	0.000	0.000	SAL_158_160_L_0							
178 D	6.610	4.8837E-05	119.7	83.70	119.7	83.70	UL-RL	4.1655E+05	-8.850	48.50	1.000
1.000	132.2	0.000	0.000	SAL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	379 di 401

179 D	6.648	4.8837E-05	120.1	83.97	120.1	83.97	UL-RL	4.1655E+05	-8.900	49.00	1.000
1.000	133.0	0.000	0.000	5AL_158_160_L_0							
180 D	6.687	4.8837E-05	120.6	84.24	120.6	84.24	UL-RL	4.1655E+05	-8.950	49.50	1.000
1.000	133.7	0.000	0.000	5AL_158_160_L_0							
181 D	6.725	4.8837E-05	121.0	84.50	121.0	84.50	V-C	2.6034E+05	-9.000	50.00	1.000
1.000	134.5	0.000	0.000	5AL_158_160_L_0							
182 D	6.764	4.8837E-05	121.5	84.77	121.5	84.77	V-C	2.6034E+05	-9.050	50.50	1.000
1.000	135.3	0.000	0.000	5AL_158_160_L_0							
183 D	6.802	4.8837E-05	121.9	85.04	121.9	85.04	V-C	2.6034E+05	-9.100	51.00	1.000
1.000	136.0	0.000	0.000	5AL_158_160_L_0							
184 D	6.840	4.8837E-05	122.4	85.30	122.4	85.30	V-C	2.6034E+05	-9.150	51.50	1.000
1.000	136.8	0.000	0.000	5AL_158_160_L_0							
185 D	6.879	4.8837E-05	122.8	85.57	122.8	85.57	V-C	2.6034E+05	-9.200	52.00	1.000
1.000	137.6	0.000	0.000	5AL_158_160_L_0							
186 D	6.917	4.8837E-05	123.3	85.84	123.3	85.84	V-C	2.6034E+05	-9.250	52.50	1.000
1.000	138.3	0.000	0.000	5AL_158_160_L_0							
187 D	6.955	4.8837E-05	123.7	86.11	123.7	86.11	V-C	2.6034E+05	-9.300	53.00	1.000
1.000	139.1	0.000	0.000	5AL_158_160_L_0							
188 D	6.994	4.8837E-05	124.2	86.37	124.2	86.37	V-C	2.6034E+05	-9.350	53.50	1.000
1.000	139.9	0.000	0.000	5AL_158_160_L_0							
189 D	7.032	4.8837E-05	124.6	86.64	124.6	86.64	V-C	2.6034E+05	-9.400	54.00	1.000
1.000	140.6	0.000	0.000	5AL_158_160_L_0							
190 D	7.070	4.8837E-05	125.1	86.91	125.1	86.91	UL-RL	4.1655E+05	-9.450	54.50	1.000
1.000	141.4	0.000	0.000	5AL_158_160_L_0							
191 D	7.109	4.8837E-05	125.5	87.17	125.5	87.17	UL-RL	4.1655E+05	-9.500	55.00	1.000
1.000	142.2	0.000	0.000	5AL_158_160_L_0							
192 D	7.147	4.8837E-05	126.0	87.44	126.0	87.44	UL-RL	4.1655E+05	-9.550	55.50	1.000
1.000	142.9	0.000	0.000	5AL_158_160_L_0							
193 D	7.185	4.8837E-05	126.4	87.71	126.4	87.71	UL-RL	4.1655E+05	-9.600	56.00	1.000
1.000	143.7	0.000	0.000	5AL_158_160_L_0							
194 D	7.224	4.8837E-05	126.9	87.97	126.9	87.97	UL-RL	4.1655E+05	-9.650	56.50	1.000
1.000	144.5	0.000	0.000	5AL_158_160_L_0							
195 D	7.262	4.8837E-05	127.3	88.24	127.3	88.24	UL-RL	4.1655E+05	-9.700	57.00	1.000
1.000	145.2	0.000	0.000	5AL_158_160_L_0							
196 D	7.300	4.8837E-05	127.8	88.51	127.8	88.51	UL-RL	4.1655E+05	-9.750	57.50	1.000
1.000	146.0	0.000	0.000	5AL_158_160_L_0							
197 D	7.339	4.8837E-05	128.2	88.78	128.2	88.78	UL-RL	4.1655E+05	-9.800	58.00	1.000
1.000	146.8	0.000	0.000	5AL_158_160_L_0							
198 D	7.377	4.8837E-05	128.7	89.04	128.7	89.04	UL-RL	4.1655E+05	-9.850	58.50	1.000
1.000	147.5	0.000	0.000	5AL_158_160_L_0							
199 D	7.415	4.8837E-05	129.1	89.31	129.1	89.31	UL-RL	4.1655E+05	-9.900	59.00	1.000
1.000	148.3	0.000	0.000	5AL_158_160_L_0							
200 D	7.452	4.8837E-05	129.6	89.58	129.6	89.58	UL-RL	4.1655E+05	-9.950	59.50	1.000
1.000	149.1	0.000	0.000	5AL_158_160_L_0							
201 D	3.745	4.8837E-05	130.0	89.84	130.0	89.84	UL-RL	4.1655E+05	-10.00	60.00	1.000
1.000	149.8	0.000	0.000	5AL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	380 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

paratia_mario

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	6.79541E-03	-6.79541E-03	1.78611E-13	3.39771E-04
2	1.99710E-02	-1.99710E-02	-3.39771E-04	1.33832E-03
3	3.27311E-02	-3.27311E-02	-1.33832E-03	2.97488E-03
4	4.50747E-02	-4.50747E-02	-2.97488E-03	5.22861E-03
5	5.69995E-02	-5.69995E-02	-5.22861E-03	8.07859E-03
6	6.85019E-02	-6.85019E-02	-8.07859E-03	1.15037E-02
7	7.95760E-02	-7.95760E-02	-1.15037E-02	1.54825E-02
8	9.02136E-02	-9.02136E-02	-1.54825E-02	1.99932E-02
9	0.10040	-0.10040	-1.99932E-02	2.50134E-02
10	0.11013	-0.11013	-2.50134E-02	3.05200E-02
11	0.11938	-0.11938	-3.05200E-02	3.64891E-02
12	0.12813	-0.12813	-3.64891E-02	4.28956E-02
13	0.13635	-0.13635	-4.28956E-02	4.97132E-02
14	0.14402	-0.14402	-4.97132E-02	5.69140E-02
15	0.15109	-0.15109	-5.69140E-02	6.44684E-02
16	0.15753	-0.15753	-6.44684E-02	7.23449E-02
17	0.16329	-0.16329	-7.23449E-02	8.05094E-02
18	0.16832	-0.16832	-8.05094E-02	8.89256E-02
19	0.17257	-0.17257	-8.89256E-02	9.75541E-02
20	0.17597	-0.17597	-9.75541E-02	0.10635
21	0.17845	-0.17845	-0.10635	0.11527
22	0.17994	-0.17994	-0.11527	0.12427
23	0.18035	-0.18035	-0.12427	0.13329
24	0.17960	-0.17960	-0.13329	0.14227
25	0.17760	-0.17760	-0.14227	0.15115
26	0.17423	-0.17423	-0.15115	0.15986
27	0.16941	-0.16941	-0.15986	0.16833
28	0.16301	-0.16301	-0.16833	0.17648
29	0.15491	-0.15491	-0.17648	0.18423
30	0.14500	-0.14500	-0.18423	0.19148
31	0.13314	-0.13314	-0.19148	0.19813
32	0.11919	-0.11919	-0.19813	0.20409
33	0.10301	-0.10301	-0.20409	0.20924
34	8.44728E-02	-8.44728E-02	-0.20924	0.21347
35	6.34156E-02	-6.34156E-02	-0.21347	0.21664
36	3.96919E-02	-3.96919E-02	-0.21664	0.21862
37	1.31488E-02	-1.31488E-02	-0.21862	0.21928
38	1.63679E-02	-1.63679E-02	-0.21928	0.21846
39	4.90128E-02	-4.90128E-02	-0.21846	0.21601
40	8.17807E-02	-8.17807E-02	-0.21601	0.21192
41	-0.10962	0.10962	-0.21192	0.20644
42	-0.13293	0.13293	-0.20644	0.19979
43	-0.15211	0.15211	-0.19979	0.19219
44	-0.16751	0.16751	-0.19219	0.18381
45	-0.17951	0.17951	-0.18381	0.17484
46	-0.18845	0.18845	-0.17484	0.16542
47	-0.19465	0.19465	-0.16542	0.15568
48	-0.19843	0.19843	-0.15568	0.14576
49	-0.20046	0.20046	-0.14576	0.13574
50	-0.20021	0.20021	-0.13574	0.12573
51	-0.19800	0.19800	-0.12573	0.11583
52	-0.19411	0.19411	-0.11583	0.10612
53	-0.18882	0.18882	-0.10612	9.66820E-02
54	-0.18237	0.18237	-9.66820E-02	8.75637E-02
55	-0.17497	0.17497	-8.75637E-02	7.88150E-02
56	-0.16684	0.16684	-7.88150E-02	7.04728E-02
57	-0.15816	0.15816	-7.04728E-02	6.25652E-02
58	-0.14908	0.14908	-6.25652E-02	5.51114E-02
59	-0.13975	0.13975	-5.51114E-02	4.81241E-02

OPERE PROVVISORIE

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	381 di 401

60-0.13029	0.13029	-4.81241E-02	4.16095E-02
61-0.12083	0.12083	-4.16095E-02	3.55681E-02
62-0.11145	0.11145	-3.55681E-02	2.99957E-02
63-0.10223	0.10223	-2.99957E-02	2.48840E-02
64-9.32558E-02	9.32558E-02	-2.48840E-02	2.02212E-02
65-8.45705E-02	8.45705E-02	-2.02212E-02	1.59927E-02
66-7.62250E-02	7.62250E-02	-1.59927E-02	1.21814E-02
67-6.82561E-02	6.82561E-02	-1.21814E-02	8.76863E-03
68-6.06921E-02	6.06921E-02	-8.76863E-03	5.73403E-03
69-5.35532E-02	5.35532E-02	-5.73403E-03	3.05637E-03
70-4.68529E-02	4.68529E-02	-3.05637E-03	7.13719E-04
71-4.05983E-02	4.05983E-02	-7.13719E-04	1.31620E-03
72-3.47912E-02	3.47912E-02	1.31620E-03	3.05576E-03
73-2.94285E-02	2.94285E-02	3.05576E-03	4.52718E-03
74-2.45035E-02	2.45035E-02	4.52718E-03	5.75236E-03
75-2.00058E-02	2.00058E-02	5.75236E-03	6.75265E-03
76-1.59222E-02	1.59222E-02	6.75265E-03	7.54876E-03
77-1.22372E-02	1.22372E-02	7.54876E-03	8.16062E-03
78-8.93366E-03	8.93366E-03	8.16062E-03	8.60729E-03
79-5.99271E-03	5.99271E-03	8.60729E-03	8.90693E-03
80-3.39464E-03	3.39464E-03	8.90693E-03	9.07666E-03
81-1.11901E-03	1.11901E-03	9.07666E-03	9.13261E-03
82 8.55025E-04	8.55025E-04	9.13261E-03	9.08986E-03
83 2.54845E-03	2.54845E-03	9.08986E-03	8.96244E-03
84 3.98216E-03	3.98216E-03	8.96244E-03	8.76333E-03
85 5.17675E-03	5.17675E-03	8.76333E-03	8.50449E-03
86 6.15237E-03	6.15237E-03	8.50449E-03	8.19687E-03
87 6.92857E-03	6.92857E-03	8.19687E-03	7.85044E-03
88 7.52421E-03	7.52421E-03	7.85044E-03	7.47423E-03
89 7.95734E-03	7.95734E-03	7.47423E-03	7.07636E-03
90 8.24515E-03	8.24515E-03	7.07636E-03	6.66410E-03
91 8.40393E-03	8.40393E-03	6.66410E-03	6.24391E-03
92 8.44902E-03	8.44902E-03	6.24391E-03	5.82145E-03
93 8.39478E-03	8.39478E-03	5.82145E-03	5.40171E-03
94 8.28041E-03	8.28041E-03	5.40171E-03	4.98769E-03
95 8.10608E-03	8.10608E-03	4.98769E-03	4.58238E-03
96 7.88115E-03	7.88115E-03	4.58238E-03	4.18832E-03
97 7.61424E-03	7.61424E-03	4.18832E-03	3.80761E-03
98 7.31321E-03	7.31321E-03	3.80761E-03	3.44195E-03
99 6.98522E-03	6.98522E-03	3.44195E-03	3.09268E-03
100 6.63673E-03	6.63673E-03	3.09268E-03	2.76085E-03
101 6.27357E-03	6.27357E-03	2.76085E-03	2.44717E-03
102 5.90092E-03	5.90092E-03	2.44717E-03	2.15212E-03
103 5.52338E-03	5.52338E-03	2.15212E-03	1.87595E-03
104 5.14501E-03	5.14501E-03	1.87595E-03	1.61870E-03
105 4.76932E-03	4.76932E-03	1.61870E-03	1.38023E-03
106 4.39937E-03	4.39937E-03	1.38023E-03	1.16026E-03
107 4.03776E-03	4.03776E-03	1.16026E-03	9.58375E-04
108 3.68666E-03	3.68666E-03	9.58375E-04	7.74042E-04
109 3.34789E-03	3.34789E-03	7.74042E-04	6.06644E-04
110 3.02289E-03	3.02289E-03	6.06644E-04	4.55500E-04
111 2.71283E-03	2.71283E-03	4.55500E-04	3.19858E-04
112 2.41855E-03	2.41855E-03	3.19858E-04	1.98931E-04
113 2.14067E-03	2.14067E-03	1.98931E-04	9.18971E-05
114 1.87955E-03	1.87955E-03	9.18971E-05	2.08245E-06
115 1.63539E-03	1.63539E-03	2.08245E-06	8.38518E-05
116 1.40817E-03	1.40817E-03	8.38518E-05	1.54260E-04
117 1.19774E-03	1.19774E-03	1.54260E-04	2.14147E-04
118 1.00382E-03	1.00382E-03	2.14147E-04	2.64338E-04
119 8.26007E-04	8.26007E-04	2.64338E-04	3.05639E-04
120 6.63809E-04	6.63809E-04	3.05639E-04	3.38830E-04
121 5.16653E-04	5.16653E-04	3.38830E-04	3.64662E-04
122 3.83905E-04	3.83905E-04	3.64662E-04	3.83858E-04
123 2.64883E-04	2.64883E-04	3.83858E-04	3.97102E-04
124 1.58868E-04	1.58868E-04	3.97102E-04	4.05045E-04
125 6.51153E-05	6.51153E-05	4.05045E-04	4.08301E-04
126-1.71338E-05	1.71338E-05	4.08301E-04	4.07444E-04
127-8.86450E-05	8.86450E-05	4.07444E-04	4.03012E-04
128-1.50183E-04	1.50183E-04	4.03012E-04	3.95503E-04
129-2.02502E-04	2.02502E-04	3.95503E-04	3.85378E-04
130-2.46346E-04	2.46346E-04	3.85378E-04	3.73060E-04
131-2.82436E-04	2.82436E-04	3.73060E-04	3.58939E-04
132-3.11473E-04	3.11473E-04	3.58939E-04	3.43365E-04
133-3.34132E-04	3.34132E-04	3.43365E-04	3.26658E-04
134-3.51055E-04	3.51055E-04	3.26658E-04	3.09106E-04
135-3.62857E-04	3.62857E-04	3.09106E-04	2.90962E-04
136-3.70117E-04	3.70117E-04	2.90962E-04	2.72457E-04
137-3.73382E-04	3.73382E-04	2.72457E-04	2.53787E-04
138-3.73164E-04	3.73164E-04	2.53787E-04	2.35129E-04
139-3.69212E-04	3.69212E-04	2.35129E-04	2.16669E-04
140-3.62116E-04	3.62116E-04	2.16669E-04	1.98562E-04



LINEA PESCARA – BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	382 di 401

RELAZIONE DI CALCOLO

141-3.52375E-04 3.52375E-04-1.98562E-04 1.80944E-04
 142-3.40446E-04 3.40446E-04-1.80944E-04 1.63921E-04
 143-3.26747E-04 3.26747E-04-1.63921E-04 1.47584E-04
 144-3.11653E-04 3.11653E-04-1.47584E-04 1.32001E-04
 145-2.95506E-04 2.95506E-04-1.32001E-04 1.17226E-04
 146-2.78610E-04 2.78610E-04-1.17226E-04 1.03295E-04
 147-2.61234E-04 2.61234E-04-1.03295E-04 9.02336E-05
 148-2.43618E-04 2.43618E-04-9.02336E-05 7.80527E-05
 149-2.25968E-04 2.25968E-04-7.80527E-05 6.67543E-05
 150-2.08464E-04 2.08464E-04-6.67543E-05 5.63311E-05
 151-1.91262E-04 1.91262E-04-5.63311E-05 4.67678E-05
 152-1.74490E-04 1.74490E-04-4.67678E-05 3.80433E-05
 153-1.58257E-04 1.58257E-04-3.80433E-05 3.01304E-05
 154-1.42651E-04 1.42651E-04-3.01304E-05 2.29979E-05
 155-1.27741E-04 1.27741E-04-2.29979E-05 1.66108E-05
 156-1.13580E-04 1.13580E-04-1.66108E-05 1.09317E-05
 157-1.00208E-04 1.00208E-04-1.09317E-05 5.92129E-06
 158-8.76484E-05 8.76484E-05-5.92129E-06 1.53887E-06
 159-7.59164E-05 7.59164E-05-1.53887E-06-2.25695E-06
 160-6.50154E-05 6.50154E-05 2.25695E-06-5.50772E-06
 161-5.49404E-05 5.49404E-05 5.50772E-06-8.25480E-06
 162-4.56790E-05 4.56790E-05 8.25480E-06-1.05387E-05
 163-3.72123E-05 3.72123E-05 1.05387E-05-1.23994E-05
 164-2.95163E-05 2.95163E-05 1.23994E-05-1.38752E-05
 165-2.25625E-05 2.25625E-05 1.38752E-05-1.50033E-05
 166-1.63191E-05 1.63191E-05 1.50033E-05-1.58193E-05
 167-1.07518E-05 1.07518E-05 1.58193E-05-1.63569E-05
 168-5.82416E-06 5.82416E-06 1.63569E-05-1.66481E-05
 169-1.49873E-06 1.49873E-06 1.66481E-05-1.67230E-05
 170 2.26278E-06-2.26278E-06 1.67230E-05-1.66099E-05
 171 5.49876E-06-5.49876E-06 1.66099E-05-1.63349E-05
 172 8.24737E-06-8.24737E-06 1.63349E-05-1.59225E-05
 173 1.05462E-05-1.05462E-05 1.59225E-05-1.53952E-05
 174 1.24318E-05-1.24318E-05 1.53952E-05-1.47737E-05
 175 1.39396E-05-1.39396E-05 1.47737E-05-1.40767E-05
 176 1.51035E-05-1.51035E-05 1.40767E-05-1.33215E-05
 177 1.59560E-05-1.59560E-05 1.33215E-05-1.25237E-05
 178 1.65277E-05-1.65277E-05 1.25237E-05-1.16973E-05
 179 1.68474E-05-1.68474E-05 1.16973E-05-1.08549E-05
 180 1.69420E-05-1.69420E-05 1.08549E-05-1.00078E-05
 181 1.68365E-05-1.68365E-05 1.00078E-05-9.16600E-06
 182 1.65539E-05-1.65539E-05 9.16600E-06-8.33829E-06
 183 1.61154E-05-1.61154E-05 8.33829E-06-7.53252E-06
 184 1.56460E-05-1.56460E-05 7.53252E-06-6.75022E-06
 185 1.50791E-05-1.50791E-05 6.75022E-06-5.99627E-06
 186 1.44276E-05-1.44276E-05 5.99627E-06-5.27489E-06
 187 1.37025E-05-1.37025E-05 5.27489E-06-4.58975E-06
 188 1.29138E-05-1.29138E-05 4.58975E-06-3.94406E-06
 189 1.20703E-05-1.20703E-05 3.94406E-06-3.34054E-06
 190 1.11792E-05-1.11792E-05 3.34054E-06-2.78158E-06
 191 1.02469E-05-1.02469E-05 2.78158E-06-2.26924E-06
 192 9.27864E-06-9.27864E-06 2.26924E-06-1.80529E-06
 193 8.27863E-06-8.27863E-06 1.80529E-06-1.39136E-06
 194 7.25034E-06-7.25034E-06 1.39136E-06-1.02885E-06
 195 6.19639E-06-6.19639E-06 1.02885E-06-7.19030E-07
 196 5.11867E-06-5.11867E-06 7.19030E-07-4.63095E-07
 197 4.01865E-06-4.01865E-06 4.63095E-07-2.62161E-07
 198 2.89714E-06-2.89714E-06 2.62162E-07-1.17301E-07
 199 1.75462E-06-1.75462E-06 1.17301E-07-2.95714E-08
 200 5.91709E-07-5.91709E-07 2.95714E-08 6.61162E-13

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5964. RIMNOR= 2.227
 RENORM= 356.3 REMNOR=0.1917E-22 RATIO =0.2444 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.452 RMMAX =0.2193
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
 RDT = 5964. RDR = 2.227
 RATIO=0.2444 RATOR= 0.000
 MAX UN= 2.435 IEQ= 129 NODE 65 DOF 1 Y-DISPL.F
 MIN UN=-.7132E-12 IEQ= 110 NODE 55 DOF 2 X-ROT. F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5964. RIMNOR= 2.227
 RENORM= 770.7 REMNOR=0.1687E-18 RATIO =0.3595 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.452 RMMAX =0.2193
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
 RDT = 5964. RDR = 2.227
 RATIO=0.3595 RATOR= 0.000
 MAX UN= 9.867 IEQ= 79 NODE 40 DOF 1 Y-DISPL.F



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	383 di 401

RELAZIONE DI CALCOLO

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MIN UN=-.3366E-03 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM= 5964. RIMNOR= 2.227
RENORM= 2994. REMNOR=0.6767E-17 RATIO =0.7086 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.452 RMMAX =0.2193
RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
RDT = 5964. RDR = 2.227
RATIOT=0.7086 RATIO= 0.000
MAX UN= 20.80 IEQ= 141 NODE 71 DOF 1 Y-DISPL.F
MIN UN=-.2347 IEQ= 197 NODE 99 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM= 5964. RIMNOR= 2.227
RENORM= 6227. REMNOR=0.1318E-16 RATIO = 1.022 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.452 RMMAX =0.2193
RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
RDT = 5964. RDR = 2.227
RATIOT= 1.022 RATIO= 0.000
MAX UN= 36.59 IEQ= 185 NODE 93 DOF 1 Y-DISPL.F
MIN UN=-3.469 IEQ= 219 NODE 110 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM= 5964. RIMNOR= 2.227
RENORM= 5498. REMNOR=0.6006E-16 RATIO =0.9601 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.452 RMMAX =0.2193
RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
RDT = 5964. RDR = 2.227
RATIOT=0.9601 RATIO= 0.000
MAX UN= 32.99 IEQ= 225 NODE 113 DOF 1 Y-DISPL.F
MIN UN=-3.342 IEQ= 249 NODE 125 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
RINORM= 5964. RIMNOR= 2.227
RENORM= 6434. REMNOR=0.7575E-16 RATIO = 1.039 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.452 RMMAX =0.2193
RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
RDT = 5964. RDR = 2.227
RATIOT= 1.039 RATIO= 0.000
MAX UN= 39.77 IEQ= 253 NODE 127 DOF 1 Y-DISPL.F
MIN UN=-4.285 IEQ= 283 NODE 142 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 7 RNORM = 0.000 RMNORM= 0.000
RINORM= 5964. RIMNOR= 2.227
RENORM= 3868. REMNOR=0.1075E-15 RATIO =0.8053 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.452 RMMAX =0.2193
RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
RDT = 5964. RDR = 2.227
RATIOT=0.8053 RATIO= 0.000
MAX UN= 29.94 IEQ= 287 NODE 144 DOF 1 Y-DISPL.F
MIN UN=-4.445 IEQ= 311 NODE 156 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 8 RNORM = 0.000 RMNORM= 0.000
RINORM= 5964. RIMNOR= 2.227
RENORM= 1970. REMNOR=0.1194E-15 RATIO =0.5747 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.452 RMMAX =0.2193
RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
RDT = 5964. RDR = 2.227
RATIOT=0.5747 RATIO= 0.000
MAX UN= 21.68 IEQ= 313 NODE 157 DOF 1 Y-DISPL.F
MIN UN=-4.925 IEQ= 335 NODE 168 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 9 RNORM = 0.000 RMNORM= 0.000
RINORM= 5964. RIMNOR= 2.227
RENORM= 593.5 REMNOR=0.1318E-15 RATIO =0.3155 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 7.452 RMMAX =0.2193
RTSMAL=0.1000E-04 RMSMAL=0.1000E-05

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LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VIO100 004	A	384 di 401

RDT = 5964. RDR = 2.227
 RATIO=0.3155 RATIO= 0.000
 MAX UN= 11.44 IEQ= 337 NODE 169 DOF 1 Y-DISPL.F
 MIN UN=-2.571 IEQ= 353 NODE 177 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 10 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5964. RIMNOR= 2.227
 RENORM= 503.2 REMNOR=0.2382E-15 RATIO =0.2905 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.452 RMMAX =0.2193
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
 RDT = 5964. RDR = 2.227
 RATIO=0.2905 RATIO= 0.000
 MAX UN= 10.63 IEQ= 351 NODE 176 DOF 1 Y-DISPL.F
 MIN UN=-5.501 IEQ= 361 NODE 181 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 11 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5964. RIMNOR= 2.227
 RENORM= 62.04 REMNOR=0.2762E-15 RATIO =0.1020 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.452 RMMAX =0.2193
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
 RDT = 5964. RDR = 2.227
 RATIO=0.1020 RATIO= 0.000
 MAX UN= 4.882 IEQ= 351 NODE 176 DOF 1 Y-DISPL.F
 MIN UN=-.7614 IEQ= 375 NODE 188 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 12 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5964. RIMNOR= 2.227
 RENORM= 12.44 REMNOR=0.2215E-15 RATIO =0.4568E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.452 RMMAX =0.2193
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
 RDT = 5964. RDR = 2.227
 RATIO=0.4568E-01 RATIO= 0.000
 MAX UN= 2.416 IEQ= 367 NODE 184 DOF 1 Y-DISPL.F
 MIN UN=-1.225 IEQ= 377 NODE 189 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 13 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5964. RIMNOR= 2.227
 RENORM=0.1223 REMNOR=0.3251E-15 RATIO =0.4528E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 7.452 RMMAX =0.2193
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
 RDT = 5964. RDR = 2.227
 RATIO=0.4528E-02 RATIO= 0.000
 MAX UN=0.3351 IEQ= 363 NODE 182 DOF 1 Y-DISPL.F
 MIN UN=-.7631E-01 IEQ= 383 NODE 192 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 14 RNORM = 0.000 RMNORM= 0.000
 RINORM= 5964. RIMNOR= 2.227
 RENORM=0.2172E-04 REMNOR=0.2801E-15 RATIO =0.6035E-04 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 7.452 RMMAX =0.2193
 RTSMAL=0.1000E-04 RMSMAL=0.1000E-05
 RDT = 5964. RDR = 2.227
 RATIO=0.6035E-04 RATIO= 0.000
 MAX UN=0.3295E-06 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F
 MIN UN=-.4321E-02 IEQ= 383 NODE 192 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	385 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

paratia_mario
SOLUTION REACHED USING 14 ITERATIONS ON 40

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

	Y-DISPL.F (02)	X-ROT. F (04)
1	0.3092572	-4.7700775E-02
2	0.3068722	-4.7700764E-02
3	0.3044871	-4.7700708E-02
4	0.3021021	-4.7700561E-02
5	0.2997171	-4.7700275E-02
6	0.2973321	-4.7699801E-02
7	0.2949471	-4.7699090E-02
8	0.2925622	-4.7698090E-02
9	0.2901773	-4.7696750E-02
10	0.2877925	-4.7695014E-02
11	0.2854078	-4.7692829E-02
12	0.2830232	-4.7690137E-02
13	0.2806388	-4.7686883E-02
14	0.2782546	-4.7683006E-02
15	0.2758705	-4.7678448E-02
16	0.2734867	-4.7673146E-02
17	0.2711032	-4.7667039E-02
18	0.2687200	-4.7660063E-02
19	0.2663372	-4.7652152E-02
20	0.2639548	-4.7643242E-02
21	0.2615729	-4.7633264E-02
22	0.2591915	-4.7622151E-02
23	0.2568107	-4.7609831E-02
24	0.2544306	-4.7596234E-02
25	0.2520511	-4.7581288E-02
26	0.2496725	-4.7564919E-02
27	0.2472947	-4.7547053E-02
28	0.2449178	-4.7527613E-02
29	0.2425419	-4.7506521E-02
30	0.2401672	-4.7483701E-02
31	0.2377936	-4.7459070E-02
32	0.2354213	-4.7432550E-02
33	0.2330504	-4.7404057E-02
34	0.2306810	-4.7373508E-02
35	0.2283131	-4.7340818E-02
36	0.2259469	-4.7305901E-02
37	0.2235825	-4.7268670E-02
38	0.2212201	-4.7229037E-02
39	0.2188597	-4.7186911E-02
40	0.2165014	-4.7142202E-02
41	0.2141455	-4.7094818E-02
42	0.2117920	-4.7044665E-02
43	0.2094411	-4.6991648E-02
44	0.2070929	-4.6935672E-02
45	0.2047476	-4.6876640E-02
46	0.2024053	-4.6814452E-02
47	0.2000662	-4.6749010E-02
48	0.1977304	-4.6680212E-02
49	0.1953982	-4.6607956E-02
50	0.1930697	-4.6532140E-02
51	0.1907451	-4.6452658E-02
52	0.1884245	-4.6369404E-02
53	0.1861082	-4.628272E-02
54	0.1837963	-4.6191153E-02
55	0.1814891	-4.6095937E-02
56	0.1791868	-4.5996514E-02
57	0.1768896	-4.5892772E-02
58	0.1745977	-4.5784599E-02
59	0.1723112	-4.5671877E-02
60	0.1700305	-4.5554491E-02
61	0.1677559	-4.5432326E-02
62	0.1654874	-4.5305262E-02
63	0.1632254	-4.5173181E-02

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	V10100 004	A	386 di 401

64	0.1609702	-4.5035961E-02
65	0.1587219	-4.4893480E-02
66	0.1564809	-4.4745615E-02
67	0.1542474	-4.4592281E-02
68	0.1520218	-4.4433432E-02
69	0.1498042	-4.4269028E-02
70	0.1475950	-4.4099037E-02
71	0.1453944	-4.3923428E-02
72	0.1432027	-4.3742180E-02
73	0.1410202	-4.3555276E-02
74	0.1388473	-4.3362702E-02
75	0.1366841	-4.3164454E-02
76	0.1345309	-4.2960531E-02
77	0.1323881	-4.2750937E-02
78	0.1302559	-4.2535683E-02
79	0.1281347	-4.2314789E-02
80	0.1260246	-4.2088268E-02
81	0.1239259	-4.1856152E-02
82	0.1218391	-4.1618473E-02
83	0.1197642	-4.1375263E-02
84	0.1177016	-4.1126571E-02
85	0.1156516	-4.0872435E-02
86	0.1136144	-4.0612899E-02
87	0.1115904	-4.0348010E-02
88	0.1095797	-4.0077818E-02
89	0.1075827	-3.9802370E-02
90	0.1055995	-3.9521733E-02
91	0.1036306	-3.9235958E-02
92	0.1016760	-3.8945107E-02
93	9.9736136E-02	-3.8649242E-02
94	9.7811136E-02	-3.8348422E-02
95	9.5901337E-02	-3.8042728E-02
96	9.4006943E-02	-3.7732226E-02
97	9.2128193E-02	-3.7416988E-02
98	9.0265322E-02	-3.7097091E-02
99	8.8418523E-02	-3.6772608E-02
100	8.6588099E-02	-3.6443631E-02
101	8.4774234E-02	-3.6110241E-02
102	8.2977147E-02	-3.5772522E-02
103	8.1197052E-02	-3.5430564E-02
104	7.9434124E-02	-3.5084453E-02
105	7.7688639E-02	-3.4734296E-02
106	7.5960761E-02	-3.4380185E-02
107	7.4250685E-02	-3.4022219E-02
108	7.2558601E-02	-3.3660500E-02
109	7.0884696E-02	-3.3295134E-02
110	6.9229114E-02	-3.2926220E-02
111	6.7592097E-02	-3.2553886E-02
112	6.5973781E-02	-3.2178234E-02
113	6.4374327E-02	-3.1799383E-02
114	6.2793894E-02	-3.1417449E-02
115	6.1232601E-02	-3.1032546E-02
116	5.9690655E-02	-3.0644813E-02
117	5.8168165E-02	-3.0254368E-02
118	5.665262E-02	-2.9861341E-02
119	5.5182072E-02	-2.9465862E-02
120	5.3718685E-02	-2.9068057E-02
121	5.2275273E-02	-2.8668081E-02
122	5.0851911E-02	-2.8266062E-02
123	4.9448698E-02	-2.7862145E-02
124	4.8065726E-02	-2.7456473E-02
125	4.6703051E-02	-2.7049184E-02
126	4.5360804E-02	-2.6640447E-02
127	4.4039208E-02	-2.6230404E-02
128	4.2737783E-02	-2.5819211E-02
129	4.1457123E-02	-2.5407025E-02
130	4.0197094E-02	-2.4994008E-02
131	3.8957709E-02	-2.4580313E-02
132	3.7739046E-02	-2.4166123E-02
133	3.6541102E-02	-2.3751598E-02
134	3.5363889E-02	-2.3336908E-02
135	3.4207411E-02	-2.2922228E-02
136	3.3071641E-02	-2.2507724E-02
137	3.1956610E-02	-2.2093594E-02
138	3.0862272E-02	-2.1680008E-02
139	2.9788597E-02	-2.1267152E-02
140	2.8735542E-02	-2.0855213E-02
141	2.7703037E-02	-2.0444370E-02
142	2.6691062E-02	-2.0034833E-02
143	2.5699528E-02	-1.9626789E-02
144	2.4728355E-02	-1.9220433E-02

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	387 di 401

RELAZIONE DI CALCOLO

145	2.3777454E-02	-1.8815966E-02
146	2.2846705E-02	-1.8413583E-02
147	2.1936038E-02	-1.8013504E-02
148	2.1045313E-02	-1.7615930E-02
149	2.0174400E-02	-1.7221069E-02
150	1.9323158E-02	-1.6829137E-02
151	1.8491434E-02	-1.6440347E-02
152	1.7679051E-02	-1.6054911E-02
153	1.6885867E-02	-1.5673065E-02
154	1.6111681E-02	-1.5295024E-02
155	1.5356297E-02	-1.4921015E-02
156	1.4619508E-02	-1.4551267E-02
157	1.3901081E-02	-1.4186003E-02
158	1.3200815E-02	-1.3825473E-02
159	1.2518451E-02	-1.3469904E-02
160	1.1853738E-02	-1.3119538E-02
161	1.1206407E-02	-1.2774615E-02
162	1.0576169E-02	-1.2435573E-02
163	9.9627579E-03	-1.2102074E-02
164	9.3658584E-03	-1.1774960E-02
165	8.7851547E-03	-1.1454283E-02
166	8.2203186E-03	-1.1140298E-02
167	7.6709982E-03	-1.0833258E-02
168	7.1368615E-03	-1.0533434E-02
169	6.6175302E-03	-1.0241084E-02
170	6.1126241E-03	-9.9564728E-03
171	5.6217495E-03	-9.6798697E-03
172	5.1444992E-03	-9.4115426E-03
173	4.6804435E-03	-9.1517628E-03
174	4.2291664E-03	-8.9008158E-03
175	3.7902102E-03	-8.6589750E-03
176	3.3631125E-03	-8.4265217E-03
177	2.9473968E-03	-8.2037400E-03
178	2.5425645E-03	-7.9909123E-03
179	2.1481266E-03	-7.7883362E-03
180	1.7635552E-03	-7.5962994E-03
181	1.3883161E-03	-7.4150962E-03
182	1.0218601E-03	-7.2450239E-03
183	6.6361609E-04	-7.0863792E-03
184	3.1301970E-04	-6.9394506E-03
185	-3.0528101E-05	-6.8044699E-03
186	-3.6762937E-04	-6.6816140E-03
187	-6.9889318E-04	-6.5709785E-03
188	-1.0249367E-03	-6.4725196E-03
189	-1.3463511E-03	-6.3860256E-03
190	-1.6637323E-03	-6.3111157E-03
191	-1.9776473E-03	-6.2472849E-03
192	-2.2886353E-03	-6.1939231E-03
193	-2.5972084E-03	-6.1503175E-03
194	-2.9038225E-03	-6.1156720E-03
195	-3.2089104E-03	-6.0891160E-03
196	-3.5128533E-03	-6.0697082E-03
197	-3.8159835E-03	-6.0564355E-03
198	-4.1185810E-03	-6.0482114E-03
199	-4.4208755E-03	-6.0438752E-03
200	-4.7230188E-03	-6.0421930E-03
201	-5.0249963E-03	-6.0418565E-03



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D.09CL	VI0100.004	A	388 di 401

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection_28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

paratia_mario

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL * UFACOR	FORCE Peq	DISPL-Y Su_a	VERTICAL-P Su_p	HORIZON.-P LAYER	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
1 D	0.4091	-0.3093	57.00	16.37	57.00	33.82	ACTIVE	0.000	0.000	0.000	1.000
1.000	16.37	0.000	0.000	5AL_158_160_L_0	57.95						
2 D	0.8412	-0.3069	57.95	16.82	57.95	34.38	ACTIVE	0.000	-5.0000E-02	0.000	1.000
1.000	16.82	0.000	0.000	5AL_158_160_L_0	58.90						
3 D	0.8641	-0.3045	58.90	17.25	58.90	34.95	ACTIVE	0.000	-0.1000	0.000	1.000
1.000	17.25	0.000	0.000	5AL_158_160_L_0	59.85						
4 D	0.8870	-0.3021	59.85	17.74	59.85	35.51	ACTIVE	0.000	-0.1500	0.000	1.000
1.000	17.74	0.000	0.000	5AL_158_160_L_0	60.80						
5 D	0.9099	-0.2997	60.80	18.20	60.80	36.07	ACTIVE	0.000	-0.2000	0.000	1.000
1.000	18.20	0.000	0.000	5AL_158_160_L_0	61.75						
6 D	0.9328	-0.2973	61.75	18.66	61.75	36.64	ACTIVE	0.000	-0.2500	0.000	1.000
1.000	18.66	0.000	0.000	5AL_158_160_L_0	62.70						
7 D	0.9557	-0.2949	62.70	19.11	62.70	37.20	ACTIVE	0.000	-0.3000	0.000	1.000
1.000	19.11	0.000	0.000	5AL_158_160_L_0	63.65						
8 D	0.9786	-0.2926	63.65	19.57	63.65	37.76	ACTIVE	0.000	-0.3500	0.000	1.000
1.000	19.57	0.000	0.000	5AL_158_160_L_0	64.60						
9 D	1.001	-0.2902	64.60	20.03	64.60	38.33	ACTIVE	0.000	-0.4000	0.000	1.000
1.000	20.03	0.000	0.000	5AL_158_160_L_0	65.55						
10 D	1.024	-0.2878	65.55	20.49	65.55	38.89	ACTIVE	0.000	-0.4500	0.000	1.000
1.000	20.49	0.000	0.000	5AL_158_160_L_0	66.50						
11 D	1.047	-0.2854	66.50	20.94	66.50	39.45	ACTIVE	0.000	-0.5000	0.000	1.000
1.000	20.94	0.000	0.000	5AL_158_160_L_0	67.45						
12 D	1.070	-0.2830	67.45	21.40	67.45	40.02	ACTIVE	0.000	-0.5500	0.000	1.000
1.000	21.40	0.000	0.000	5AL_158_160_L_0	68.40						
13 D	1.093	-0.2806	68.40	21.86	68.40	40.58	ACTIVE	0.000	-0.6000	0.000	1.000
1.000	21.86	0.000	0.000	5AL_158_160_L_0	69.35						
14 D	1.116	-0.2783	69.35	22.32	69.35	41.15	ACTIVE	0.000	-0.6500	0.000	1.000
1.000	22.32	0.000	0.000	5AL_158_160_L_0	70.30						
15 D	1.139	-0.2759	70.30	22.78	70.30	41.71	ACTIVE	0.000	-0.7000	0.000	1.000
1.000	22.78	0.000	0.000	5AL_158_160_L_0	71.25						
16 D	1.162	-0.2735	71.25	23.23	71.25	42.27	ACTIVE	0.000	-0.7500	0.000	1.000
1.000	23.23	0.000	0.000	5AL_158_160_L_0	72.20						
17 D	1.185	-0.2711	72.20	23.69	72.20	42.84	ACTIVE	0.000	-0.8000	0.000	1.000
1.000	23.69	0.000	0.000	5AL_158_160_L_0	73.15						
18 D	1.208	-0.2687	73.15	24.15	73.15	43.40	ACTIVE	0.000	-0.8500	0.000	1.000
1.000	24.15	0.000	0.000	5AL_158_160_L_0	74.10						
19 D	1.230	-0.2663	74.10	24.61	74.10	43.96	ACTIVE	0.000	-0.9000	0.000	1.000
1.000	24.61	0.000	0.000	5AL_158_160_L_0	75.05						
20 D	1.253	-0.2640	75.05	25.07	75.05	44.53	ACTIVE	0.000	-0.9500	0.000	1.000
1.000	25.07	0.000	0.000	5AL_158_160_L_0	76.00						
21 D	1.276	-0.2616	76.00	25.52	76.00	45.09	ACTIVE	0.000	-1.000	0.000	1.000
1.000	25.52	0.000	0.000	5AL_158_160_L_0	76.95						
22 D	1.299	-0.2592	76.95	25.98	76.95	45.65	ACTIVE	0.000	-1.050	0.000	1.000
1.000	25.98	0.000	0.000	5AL_158_160_L_0	77.90						
23 D	1.322	-0.2568	77.90	26.44	77.90	46.22	ACTIVE	0.000	-1.100	0.000	1.000
1.000	26.44	0.000	0.000	5AL_158_160_L_0	78.85						
24 D	1.345	-0.2544	78.85	26.90	78.85	46.78	ACTIVE	0.000	-1.150	0.000	1.000
1.000	26.90	0.000	0.000	5AL_158_160_L_0	79.80						
25 D	1.368	-0.2521	79.80	27.36	79.80	47.35	ACTIVE	0.000	-1.200	0.000	1.000
1.000	27.36	0.000	0.000	5AL_158_160_L_0	80.75						
26 D	1.391	-0.2497	80.75	27.81	80.75	47.91	ACTIVE	0.000	-1.250	0.000	1.000
1.000	27.81	0.000	0.000	5AL_158_160_L_0	81.70						
27 D	1.414	-0.2473	81.70	28.27	81.70	48.47	ACTIVE	0.000	-1.300	0.000	1.000
1.000	28.27	0.000	0.000	5AL_158_160_L_0	82.65						
28 D	1.436	-0.2449	82.65	28.73	82.65	49.04	ACTIVE	0.000	-1.350	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	389 di 401

1.000	28.73	0.000	0.000	5AL_158_160_L_0							
29 D	1.459	-0.2425	83.60	29.19	83.60	49.60	ACTIVE	0.000	-1.400	0.000	1.000
1.000	29.19	0.000	0.000	5AL_158_160_L_0							
30 D	1.482	-0.2402	84.55	29.64	84.55	50.16	ACTIVE	0.000	-1.450	0.000	1.000
1.000	29.64	0.000	0.000	5AL_158_160_L_0							
31 D	1.505	-0.2378	85.50	30.10	85.50	50.73	ACTIVE	0.000	-1.500	0.000	1.000
1.000	30.10	0.000	0.000	5AL_158_160_L_0							
32 D	1.528	-0.2354	86.45	30.56	86.45	51.29	ACTIVE	0.000	-1.550	0.000	1.000
1.000	30.56	0.000	0.000	5AL_158_160_L_0							
33 D	1.551	-0.2331	87.40	31.02	87.40	51.85	ACTIVE	0.000	-1.600	0.000	1.000
1.000	31.02	0.000	0.000	5AL_158_160_L_0							
34 D	1.574	-0.2307	88.35	31.48	88.35	52.42	ACTIVE	0.000	-1.650	0.000	1.000
1.000	31.48	0.000	0.000	5AL_158_160_L_0							
35 D	1.597	-0.2283	89.30	31.93	89.30	52.98	ACTIVE	0.000	-1.700	0.000	1.000
1.000	31.93	0.000	0.000	5AL_158_160_L_0							
36 D	1.620	-0.2259	90.25	32.39	90.25	53.55	ACTIVE	0.000	-1.750	0.000	1.000
1.000	32.39	0.000	0.000	5AL_158_160_L_0							
37 D	1.643	-0.2236	91.20	32.85	91.20	54.11	ACTIVE	0.000	-1.800	0.000	1.000
1.000	32.85	0.000	0.000	5AL_158_160_L_0							
38 D	1.665	-0.2212	92.15	33.31	92.15	54.67	ACTIVE	0.000	-1.850	0.000	1.000
1.000	33.31	0.000	0.000	5AL_158_160_L_0							
39 D	1.688	-0.2189	93.10	33.77	93.10	55.24	ACTIVE	0.000	-1.900	0.000	1.000
1.000	33.77	0.000	0.000	5AL_158_160_L_0							
40 D	1.711	-0.2165	94.05	34.22	94.05	55.80	ACTIVE	0.000	-1.950	0.000	1.000
1.000	34.22	0.000	0.000	5AL_158_160_L_0							
41 D	1.734	-0.2141	95.00	34.68	95.00	56.36	ACTIVE	0.000	-2.000	0.000	1.000
1.000	34.68	0.000	0.000	5AL_158_160_L_0							
42 D	1.757	-0.2118	95.95	35.14	95.95	56.93	ACTIVE	0.000	-2.050	0.000	1.000
1.000	35.14	0.000	0.000	5AL_158_160_L_0							
43 D	1.780	-0.2094	96.90	35.60	96.90	57.49	ACTIVE	0.000	-2.100	0.000	1.000
1.000	35.60	0.000	0.000	5AL_158_160_L_0							
44 D	1.803	-0.2071	97.85	36.06	97.85	58.05	ACTIVE	0.000	-2.150	0.000	1.000
1.000	36.06	0.000	0.000	5AL_158_160_L_0							
45 D	1.826	-0.2047	98.80	36.51	98.80	58.62	ACTIVE	0.000	-2.200	0.000	1.000
1.000	36.51	0.000	0.000	5AL_158_160_L_0							
46 D	1.849	-0.2024	99.75	36.97	99.75	59.18	ACTIVE	0.000	-2.250	0.000	1.000
1.000	36.97	0.000	0.000	5AL_158_160_L_0							
47 D	1.871	-0.2001	100.7	37.43	100.7	59.75	ACTIVE	0.000	-2.300	0.000	1.000
1.000	37.43	0.000	0.000	5AL_158_160_L_0							
48 D	1.894	-0.1977	101.6	37.89	101.6	60.31	ACTIVE	0.000	-2.350	0.000	1.000
1.000	37.89	0.000	0.000	5AL_158_160_L_0							
49 D	1.917	-0.1954	102.6	38.34	102.6	60.87	ACTIVE	0.000	-2.400	0.000	1.000
1.000	38.34	0.000	0.000	5AL_158_160_L_0							
50 D	1.940	-0.1931	103.5	38.80	103.5	61.44	ACTIVE	0.000	-2.450	0.000	1.000
1.000	38.80	0.000	0.000	5AL_158_160_L_0							
51 D	1.963	-0.1907	104.5	39.26	104.5	62.00	ACTIVE	0.000	-2.500	0.000	1.000
1.000	39.26	0.000	0.000	5AL_158_160_L_0							
52 D	1.986	-0.1884	105.4	39.72	105.4	62.56	ACTIVE	0.000	-2.550	0.000	1.000
1.000	39.72	0.000	0.000	5AL_158_160_L_0							
53 D	2.009	-0.1861	106.4	40.18	106.4	63.13	ACTIVE	0.000	-2.600	0.000	1.000
1.000	40.18	0.000	0.000	5AL_158_160_L_0							
54 D	2.032	-0.1838	107.3	40.63	107.3	63.69	ACTIVE	0.000	-2.650	0.000	1.000
1.000	40.63	0.000	0.000	5AL_158_160_L_0							
55 D	2.055	-0.1815	108.3	41.09	108.3	64.25	ACTIVE	0.000	-2.700	0.000	1.000
1.000	41.09	0.000	0.000	5AL_158_160_L_0							
56 D	2.078	-0.1792	109.2	41.55	109.2	64.82	ACTIVE	0.000	-2.750	0.000	1.000
1.000	41.55	0.000	0.000	5AL_158_160_L_0							
57 D	2.100	-0.1769	110.2	42.01	110.2	65.38	ACTIVE	0.000	-2.800	0.000	1.000
1.000	42.01	0.000	0.000	5AL_158_160_L_0							
58 D	2.123	-0.1746	111.1	42.47	111.1	65.95	ACTIVE	0.000	-2.850	0.000	1.000
1.000	42.47	0.000	0.000	5AL_158_160_L_0							
59 D	2.146	-0.1723	112.1	42.92	112.1	66.51	ACTIVE	0.000	-2.900	0.000	1.000
1.000	42.92	0.000	0.000	5AL_158_160_L_0							
60 D	2.169	-0.1700	113.0	43.38	113.0	67.07	ACTIVE	0.000	-2.950	0.000	1.000
1.000	43.38	0.000	0.000	5AL_158_160_L_0							
61 D	2.192	-0.1678	114.0	43.84	114.0	67.64	ACTIVE	0.000	-3.000	0.000	1.000
1.000	43.84	0.000	0.000	5AL_158_160_L_0							
62 D	2.215	-0.1655	114.9	44.30	114.9	68.20	ACTIVE	0.000	-3.050	0.000	1.000
1.000	44.30	0.000	0.000	5AL_158_160_L_0							
63 D	2.238	-0.1632	115.9	44.76	115.9	68.76	ACTIVE	0.000	-3.100	0.000	1.000
1.000	44.76	0.000	0.000	5AL_158_160_L_0							
64 D	2.261	-0.1610	116.8	45.21	116.8	69.33	ACTIVE	0.000	-3.150	0.000	1.000
1.000	45.21	0.000	0.000	5AL_158_160_L_0							
65 D	2.284	-0.1587	117.8	45.67	117.8	69.89	ACTIVE	0.000	-3.200	0.000	1.000
1.000	45.67	0.000	0.000	5AL_158_160_L_0							
66 D	2.306	-0.1565	118.7	46.13	118.7	70.45	ACTIVE	0.000	-3.250	0.000	1.000
1.000	46.13	0.000	0.000	5AL_158_160_L_0							
67 D	2.329	-0.1542	119.7	46.59	119.7	71.02	ACTIVE	0.000	-3.300	0.000	1.000
1.000	46.59	0.000	0.000	5AL_158_160_L_0							
68 D	2.352	-0.1520	120.6	47.05	120.6	71.58	ACTIVE	0.000	-3.350	0.000	1.000
1.000	47.05	0.000	0.000	5AL_158_160_L_0							

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LI00	01	D 09CL	VI0100 004	A	390 di 401

69 D	2.375	-0.1498	121.6	47.50	121.6	72.15	ACTIVE	0.000	-3.400	0.000	1.000
1.000	47.50	0.000	0.000	5AL_158_160_L_0							
70 D	2.398	-0.1476	122.5	47.96	122.5	72.71	ACTIVE	0.000	-3.450	0.000	1.000
1.000	47.96	0.000	0.000	5AL_158_160_L_0							
71 D	2.421	-0.1454	123.5	48.42	123.5	73.27	ACTIVE	0.000	-3.500	0.000	1.000
1.000	48.42	0.000	0.000	5AL_158_160_L_0							
72 D	2.444	-0.1432	124.4	48.88	124.4	73.84	ACTIVE	0.000	-3.550	0.000	1.000
1.000	48.88	0.000	0.000	5AL_158_160_L_0							
73 D	2.467	-0.1410	125.4	49.33	125.4	74.40	ACTIVE	0.000	-3.600	0.000	1.000
1.000	49.33	0.000	0.000	5AL_158_160_L_0							
74 D	2.490	-0.1388	126.3	49.79	126.3	74.96	ACTIVE	0.000	-3.650	0.000	1.000
1.000	49.79	0.000	0.000	5AL_158_160_L_0							
75 D	2.513	-0.1367	127.3	50.25	127.3	75.53	ACTIVE	0.000	-3.700	0.000	1.000
1.000	50.25	0.000	0.000	5AL_158_160_L_0							
76 D	2.535	-0.1345	128.2	50.71	128.2	76.09	ACTIVE	0.000	-3.750	0.000	1.000
1.000	50.71	0.000	0.000	5AL_158_160_L_0							
77 D	2.558	-0.1324	129.2	51.17	129.2	76.65	ACTIVE	0.000	-3.800	0.000	1.000
1.000	51.17	0.000	0.000	5AL_158_160_L_0							
78 D	2.581	-0.1303	130.1	51.62	130.1	77.22	ACTIVE	0.000	-3.850	0.000	1.000
1.000	51.62	0.000	0.000	5AL_158_160_L_0							
79 D	2.604	-0.1281	131.1	52.08	131.1	77.78	ACTIVE	0.000	-3.900	0.000	1.000
1.000	52.08	0.000	0.000	5AL_158_160_L_0							
80 D	2.627	-0.1260	132.0	52.54	132.0	78.35	ACTIVE	0.000	-3.950	0.000	1.000
1.000	52.54	0.000	0.000	5AL_158_160_L_0							
81 D	2.650	-0.1239	133.0	53.00	133.0	78.91	ACTIVE	0.000	-4.000	0.000	1.000
1.000	53.00	0.000	0.000	5AL_158_160_L_0							
82 D	2.686	-0.1218	133.4	53.21	133.4	79.18	ACTIVE	0.000	-4.050	0.5000	1.000
1.000	53.71	0.000	0.000	5AL_158_160_L_0							
83 D	2.722	-0.1198	133.9	53.43	133.9	79.44	ACTIVE	0.000	-4.100	1.000	1.000
1.000	54.43	0.000	0.000	5AL_158_160_L_0							
84 D	2.757	-0.1177	134.3	53.65	134.3	79.71	ACTIVE	0.000	-4.150	1.500	1.000
1.000	55.15	0.000	0.000	5AL_158_160_L_0							
85 D	2.793	-0.1157	134.8	53.87	134.8	79.98	ACTIVE	0.000	-4.200	2.000	1.000
1.000	55.87	0.000	0.000	5AL_158_160_L_0							
86 D	2.829	-0.1136	135.2	54.08	135.2	80.24	ACTIVE	0.000	-4.250	2.500	1.000
1.000	56.58	0.000	0.000	5AL_158_160_L_0							
87 D	2.865	-0.1116	135.7	54.30	135.7	80.51	ACTIVE	0.000	-4.300	3.000	1.000
1.000	57.30	0.000	0.000	5AL_158_160_L_0							
88 D	2.901	-0.1096	136.1	54.52	136.1	80.78	ACTIVE	0.000	-4.350	3.500	1.000
1.000	58.02	0.000	0.000	5AL_158_160_L_0							
89 D	2.937	-0.1076	136.6	54.73	136.6	81.04	ACTIVE	0.000	-4.400	4.000	1.000
1.000	58.73	0.000	0.000	5AL_158_160_L_0							
90 D	2.972	-0.1056	137.0	54.95	137.0	81.31	ACTIVE	0.000	-4.450	4.500	1.000
1.000	59.45	0.000	0.000	5AL_158_160_L_0							
91 D	3.008	-0.1036	137.5	55.17	137.5	81.58	ACTIVE	0.000	-4.500	5.000	1.000
1.000	60.17	0.000	0.000	5AL_158_160_L_0							
92 D	3.044	-0.1017	137.9	55.38	137.9	81.85	ACTIVE	0.000	-4.550	5.500	1.000
1.000	60.88	0.000	0.000	5AL_158_160_L_0							
93 D	3.080	-9.9736E-02	138.4	55.60	138.4	82.11	ACTIVE	0.000	-4.600	6.000	1.000
1.000	61.60	0.000	0.000	5AL_158_160_L_0							
94 D	3.116	-9.7811E-02	138.9	55.82	138.9	82.38	ACTIVE	0.000	-4.650	6.500	1.000
1.000	62.32	0.000	0.000	5AL_158_160_L_0							
95 D	3.152	-9.5901E-02	139.3	56.03	139.3	82.65	ACTIVE	0.000	-4.700	7.000	1.000
1.000	63.03	0.000	0.000	5AL_158_160_L_0							
96 D	3.188	-9.4007E-02	139.8	56.25	139.8	82.91	ACTIVE	0.000	-4.750	7.500	1.000
1.000	63.75	0.000	0.000	5AL_158_160_L_0							
97 D	3.223	-9.2128E-02	140.2	56.47	140.2	83.17	ACTIVE	0.000	-4.800	8.000	1.000
1.000	64.47	0.000	0.000	5AL_158_160_L_0							
98 D	3.259	-9.0265E-02	140.6	56.69	140.6	83.44	ACTIVE	0.000	-4.850	8.500	1.000
1.000	65.19	0.000	0.000	5AL_158_160_L_0							
99 D	3.295	-8.8419E-02	141.1	56.90	141.1	91.54	ACTIVE	0.000	-4.900	9.000	1.000
1.000	65.90	0.000	0.000	5AL_158_160_L_0							
100 D	3.331	-8.6588E-02	141.6	57.12	141.6	94.30	ACTIVE	0.000	-4.950	9.500	1.000
1.000	66.62	0.000	0.000	5AL_158_160_L_0							
101 D	3.367	-8.4774E-02	142.0	57.34	142.0	96.73	ACTIVE	0.000	-5.000	10.00	1.000
1.000	67.34	0.000	0.000	5AL_158_160_L_0							
102 D	3.403	-8.2977E-02	142.5	57.55	142.5	98.85	ACTIVE	0.000	-5.050	10.50	1.000
1.000	68.05	0.000	0.000	5AL_158_160_L_0							
103 D	3.438	-8.1197E-02	142.9	57.77	142.9	100.7	ACTIVE	0.000	-5.100	11.00	1.000
1.000	68.77	0.000	0.000	5AL_158_160_L_0							
104 D	3.474	-7.9434E-02	143.4	57.99	143.4	102.2	ACTIVE	0.000	-5.150	11.50	1.000
1.000	69.49	0.000	0.000	5AL_158_160_L_0							
105 D	3.510	-7.7689E-02	143.8	58.20	143.8	103.5	ACTIVE	0.000	-5.200	12.00	1.000
1.000	70.20	0.000	0.000	5AL_158_160_L_0							
106 D	3.546	-7.5961E-02	144.3	58.42	144.3	104.5	ACTIVE	0.000	-5.250	12.50	1.000
1.000	70.92	0.000	0.000	5AL_158_160_L_0							
107 D	3.582	-7.4251E-02	144.7	58.64	144.7	105.3	ACTIVE	0.000	-5.300	13.00	1.000
1.000	71.64	0.000	0.000	5AL_158_160_L_0							
108 D	3.618	-7.2559E-02	145.2	58.85	145.2	105.9	ACTIVE	0.000	-5.350	13.50	1.000
1.000	72.35	0.000	0.000	5AL_158_160_L_0							
109 D	3.654	-7.0885E-02	145.6	59.07	145.6	106.4	ACTIVE	0.000	-5.400	14.00	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	391 di 401

1.000	73.07	0.000	0.000	SAL_158_160_L_0							
110 D	3.689	-6.9229E-02	146.1	59.29	146.1	106.6	ACTIVE	0.000	-5.450	14.50	1.000
1.000	73.79	0.000	0.000	SAL_158_160_L_0							
111 D	3.725	-6.7592E-02	146.5	59.50	146.5	106.7	ACTIVE	0.000	-5.500	15.00	1.000
1.000	74.50	0.000	0.000	SAL_158_160_L_0							
112 D	3.761	-6.5974E-02	147.0	59.72	147.0	106.6	ACTIVE	0.000	-5.550	15.50	1.000
1.000	75.22	0.000	0.000	SAL_158_160_L_0							
113 D	3.797	-6.4374E-02	147.4	59.94	147.4	106.4	ACTIVE	0.000	-5.600	16.00	1.000
1.000	75.94	0.000	0.000	SAL_158_160_L_0							
114 D	3.833	-6.2794E-02	147.9	60.16	147.9	106.1	ACTIVE	0.000	-5.650	16.50	1.000
1.000	76.66	0.000	0.000	SAL_158_160_L_0							
115 D	3.869	-6.1233E-02	148.3	60.37	148.3	105.7	ACTIVE	0.000	-5.700	17.00	1.000
1.000	77.37	0.000	0.000	SAL_158_160_L_0							
116 D	3.904	-5.9691E-02	148.8	60.59	148.8	105.2	ACTIVE	0.000	-5.750	17.50	1.000
1.000	78.09	0.000	0.000	SAL_158_160_L_0							
117 D	3.940	-5.8168E-02	149.2	60.81	149.2	104.6	ACTIVE	0.000	-5.800	18.00	1.000
1.000	78.81	0.000	0.000	SAL_158_160_L_0							
118 D	3.976	-5.6665E-02	149.7	61.02	149.7	103.9	ACTIVE	0.000	-5.850	18.50	1.000
1.000	79.52	0.000	0.000	SAL_158_160_L_0							
119 D	4.012	-5.5182E-02	150.1	61.24	150.1	103.2	ACTIVE	0.000	-5.900	19.00	1.000
1.000	80.24	0.000	0.000	SAL_158_160_L_0							
120 D	4.048	-5.3719E-02	150.6	61.46	150.6	102.4	ACTIVE	0.000	-5.950	19.50	1.000
1.000	80.96	0.000	0.000	SAL_158_160_L_0							
121 D	4.084	-5.2275E-02	151.0	61.67	151.0	103.9	ACTIVE	0.000	-6.000	20.00	1.000
1.000	81.67	0.000	0.000	SAL_158_160_L_0							
122 D	4.120	-5.0852E-02	151.5	61.89	151.5	105.1	ACTIVE	0.000	-6.050	20.50	1.000
1.000	82.39	0.000	0.000	SAL_158_160_L_0							
123 D	4.155	-4.9449E-02	151.9	62.11	151.9	106.0	ACTIVE	0.000	-6.100	21.00	1.000
1.000	83.11	0.000	0.000	SAL_158_160_L_0							
124 D	4.191	-4.8066E-02	152.4	62.32	152.4	106.7	ACTIVE	0.000	-6.150	21.50	1.000
1.000	83.82	0.000	0.000	SAL_158_160_L_0							
125 D	4.227	-4.6703E-02	152.8	62.54	152.8	107.1	ACTIVE	0.000	-6.200	22.00	1.000
1.000	84.54	0.000	0.000	SAL_158_160_L_0							
126 D	4.263	-4.5361E-02	153.3	62.76	153.3	107.3	ACTIVE	0.000	-6.250	22.50	1.000
1.000	85.26	0.000	0.000	SAL_158_160_L_0							
127 D	4.299	-4.4039E-02	153.7	62.98	153.7	107.3	ACTIVE	0.000	-6.300	23.00	1.000
1.000	85.98	0.000	0.000	SAL_158_160_L_0							
128 D	4.335	-4.2738E-02	154.2	63.19	154.2	107.2	ACTIVE	0.000	-6.350	23.50	1.000
1.000	86.69	0.000	0.000	SAL_158_160_L_0							
129 D	4.370	-4.1457E-02	154.6	63.41	154.6	106.8	ACTIVE	0.000	-6.400	24.00	1.000
1.000	87.41	0.000	0.000	SAL_158_160_L_0							
130 D	4.406	-4.0197E-02	155.1	63.63	155.1	106.4	ACTIVE	0.000	-6.450	24.50	1.000
1.000	88.13	0.000	0.000	SAL_158_160_L_0							
131 D	4.442	-3.8958E-02	155.5	63.84	155.5	107.4	ACTIVE	0.000	-6.500	25.00	1.000
1.000	88.84	0.000	0.000	SAL_158_160_L_0							
132 D	4.478	-3.7739E-02	156.0	64.06	156.0	112.1	ACTIVE	0.000	-6.550	25.50	1.000
1.000	89.56	0.000	0.000	SAL_158_160_L_0							
133 D	4.514	-3.6541E-02	156.4	64.28	156.4	116.1	ACTIVE	0.000	-6.600	26.00	1.000
1.000	90.28	0.000	0.000	SAL_158_160_L_0							
134 D	4.550	-3.5364E-02	156.9	64.49	156.9	119.6	ACTIVE	0.000	-6.650	26.50	1.000
1.000	90.99	0.000	0.000	SAL_158_160_L_0							
135 D	4.586	-3.4207E-02	157.3	64.71	157.3	122.4	ACTIVE	0.000	-6.700	27.00	1.000
1.000	91.71	0.000	0.000	SAL_158_160_L_0							
136 D	4.621	-3.3072E-02	157.8	64.93	157.8	124.7	ACTIVE	0.000	-6.750	27.50	1.000
1.000	92.43	0.000	0.000	SAL_158_160_L_0							
137 D	4.657	-3.1957E-02	158.2	65.14	158.2	126.5	ACTIVE	0.000	-6.800	28.00	1.000
1.000	93.14	0.000	0.000	SAL_158_160_L_0							
138 D	4.693	-3.0862E-02	158.7	65.36	158.7	127.9	ACTIVE	0.000	-6.850	28.50	1.000
1.000	93.86	0.000	0.000	SAL_158_160_L_0							
139 D	4.729	-2.9789E-02	159.1	65.58	159.1	128.8	ACTIVE	0.000	-6.900	29.00	1.000
1.000	94.58	0.000	0.000	SAL_158_160_L_0							
140 D	4.765	-2.8736E-02	159.6	65.79	159.6	129.4	ACTIVE	0.000	-6.950	29.50	1.000
1.000	95.30	0.000	0.000	SAL_158_160_L_0							
141 D	4.801	-2.7703E-02	160.0	66.01	160.0	129.6	ACTIVE	0.000	-7.000	30.00	1.000
1.000	96.01	0.000	0.000	SAL_158_160_L_0							
142 D	4.836	-2.6691E-02	160.5	66.23	160.5	129.6	ACTIVE	0.000	-7.050	30.50	1.000
1.000	96.73	0.000	0.000	SAL_158_160_L_0							
143 D	4.872	-2.5700E-02	160.9	66.45	160.9	129.2	ACTIVE	0.000	-7.100	31.00	1.000
1.000	97.45	0.000	0.000	SAL_158_160_L_0							
144 D	4.908	-2.4728E-02	161.4	66.66	161.4	128.6	ACTIVE	0.000	-7.150	31.50	1.000
1.000	98.16	0.000	0.000	SAL_158_160_L_0							
145 D	4.944	-2.3777E-02	161.8	66.88	161.8	127.9	ACTIVE	0.000	-7.200	32.00	1.000
1.000	98.88	0.000	0.000	SAL_158_160_L_0							
146 D	4.980	-2.2847E-02	162.3	67.10	162.3	126.9	ACTIVE	0.000	-7.250	32.50	1.000
1.000	99.60	0.000	0.000	SAL_158_160_L_0							
147 D	5.016	-2.1936E-02	162.7	67.31	162.7	125.8	ACTIVE	0.000	-7.300	33.00	1.000
1.000	100.3	0.000	0.000	SAL_158_160_L_0							
148 D	5.052	-2.1045E-02	163.2	67.53	163.2	124.5	ACTIVE	0.000	-7.350	33.50	1.000
1.000	101.0	0.000	0.000	SAL_158_160_L_0							
149 D	5.087	-2.0174E-02	163.6	67.75	163.6	123.1	ACTIVE	0.000	-7.400	34.00	1.000
1.000	101.7	0.000	0.000	SAL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	V10100 004	A	392 di 401

150 D	5.123	-1.9323E-02	164.1	67.96	164.1	125.2	ACTIVE	0.000	-7.450	34.50	1.000
1.000	102.5	0.000	0.000	5AL_158_160_L_0							
151 D	5.159	-1.8491E-02	164.5	68.18	164.5	128.0	ACTIVE	0.000	-7.500	35.00	1.000
1.000	103.2	0.000	0.000	5AL_158_160_L_0							
152 D	5.195	-1.7679E-02	165.0	68.40	165.0	130.3	ACTIVE	0.000	-7.550	35.50	1.000
1.000	103.9	0.000	0.000	5AL_158_160_L_0							
153 D	5.231	-1.6886E-02	165.4	68.61	165.4	132.2	ACTIVE	0.000	-7.600	36.00	1.000
1.000	104.6	0.000	0.000	5AL_158_160_L_0							
154 D	5.267	-1.6112E-02	165.9	68.83	165.9	133.6	ACTIVE	0.000	-7.650	36.50	1.000
1.000	105.3	0.000	0.000	5AL_158_160_L_0							
155 D	5.302	-1.5356E-02	166.3	69.05	166.3	134.5	ACTIVE	0.000	-7.700	37.00	1.000
1.000	106.0	0.000	0.000	5AL_158_160_L_0							
156 D	5.338	-1.4620E-02	166.8	69.27	166.8	135.4	ACTIVE	0.000	-7.750	37.50	1.000
1.000	106.8	0.000	0.000	5AL_158_160_L_0							
157 D	5.374	-1.3901E-02	167.2	69.48	167.2	136.0	ACTIVE	0.000	-7.800	38.00	1.000
1.000	107.5	0.000	0.000	5AL_158_160_L_0							
158 D	5.410	-1.3201E-02	167.7	69.70	167.7	136.3	ACTIVE	0.000	-7.850	38.50	1.000
1.000	108.2	0.000	0.000	5AL_158_160_L_0							
159 D	5.446	-1.2518E-02	168.1	69.92	168.1	136.2	ACTIVE	0.000	-7.900	39.00	1.000
1.000	108.9	0.000	0.000	5AL_158_160_L_0							
160 D	5.482	-1.1854E-02	168.6	70.13	168.6	135.9	ACTIVE	0.000	-7.950	39.50	1.000
1.000	109.6	0.000	0.000	5AL_158_160_L_0							
161 D	5.517	-1.1206E-02	169.0	70.35	169.0	135.3	ACTIVE	0.000	-8.000	40.00	1.000
1.000	110.3	0.000	0.000	5AL_158_160_L_0							
162 D	5.553	-1.0576E-02	169.5	70.57	169.5	134.6	ACTIVE	0.000	-8.050	40.50	1.000
1.000	111.1	0.000	0.000	5AL_158_160_L_0							
163 D	5.589	-9.9628E-03	169.9	70.78	169.9	134.6	ACTIVE	0.000	-8.100	41.00	1.000
1.000	111.8	0.000	0.000	5AL_158_160_L_0							
164 D	5.625	-9.3659E-03	170.4	71.00	170.4	138.4	ACTIVE	0.000	-8.150	41.50	1.000
1.000	112.5	0.000	0.000	5AL_158_160_L_0							
165 D	5.661	-8.7852E-03	170.8	71.22	170.8	141.5	ACTIVE	0.000	-8.200	42.00	1.000
1.000	113.2	0.000	0.000	5AL_158_160_L_0							
166 D	5.697	-8.2203E-03	171.3	71.43	171.3	144.0	ACTIVE	0.000	-8.250	42.50	1.000
1.000	113.9	0.000	0.000	5AL_158_160_L_0							
167 D	5.733	-7.6710E-03	171.7	71.65	171.7	146.0	ACTIVE	0.000	-8.300	43.00	1.000
1.000	114.7	0.000	0.000	5AL_158_160_L_0							
168 D	5.768	-7.1369E-03	172.2	71.87	172.2	147.4	ACTIVE	0.000	-8.350	43.50	1.000
1.000	115.4	0.000	0.000	5AL_158_160_L_0							
169 D	5.804	-6.6175E-03	172.6	72.09	172.6	148.4	ACTIVE	0.000	-8.400	44.00	1.000
1.000	116.1	0.000	0.000	5AL_158_160_L_0							
170 D	5.840	-6.1126E-03	173.1	72.30	173.1	148.9	ACTIVE	0.000	-8.450	44.50	1.000
1.000	116.8	0.000	0.000	5AL_158_160_L_0							
171 D	5.876	-5.6217E-03	173.5	72.52	173.5	149.1	ACTIVE	0.000	-8.500	45.00	1.000
1.000	117.5	0.000	0.000	5AL_158_160_L_0							
172 D	5.912	-5.1445E-03	174.0	72.74	174.0	148.9	ACTIVE	0.000	-8.550	45.50	1.000
1.000	118.2	0.000	0.000	5AL_158_160_L_0							
173 D	5.948	-4.6804E-03	174.4	72.95	174.4	148.3	ACTIVE	0.000	-8.600	46.00	1.000
1.000	119.0	0.000	0.000	5AL_158_160_L_0							
174 D	5.983	-4.2292E-03	174.9	73.17	174.9	147.5	ACTIVE	0.000	-8.650	46.50	1.000
1.000	119.7	0.000	0.000	5AL_158_160_L_0							
175 D	6.019	-3.7902E-03	175.3	73.39	175.3	146.4	ACTIVE	0.000	-8.700	47.00	1.000
1.000	120.4	0.000	0.000	5AL_158_160_L_0							
176 D	6.055	-3.3631E-03	175.8	73.60	175.8	145.1	ACTIVE	0.000	-8.750	47.50	1.000
1.000	121.1	0.000	0.000	5AL_158_160_L_0							
177 D	6.091	-2.9474E-03	176.2	73.82	176.2	145.4	ACTIVE	0.000	-8.800	48.00	1.000
1.000	121.8	0.000	0.000	5AL_158_160_L_0							
178 D	6.127	-2.5426E-03	176.7	74.04	176.7	147.7	ACTIVE	0.000	-8.850	48.50	1.000
1.000	122.5	0.000	0.000	5AL_158_160_L_0							
179 D	6.163	-2.1481E-03	177.1	74.25	177.1	149.4	ACTIVE	0.000	-8.900	49.00	1.000
1.000	123.3	0.000	0.000	5AL_158_160_L_0							
180 D	6.199	-1.7636E-03	177.6	74.47	177.6	152.7	ACTIVE	0.000	-8.950	49.50	1.000
1.000	124.0	0.000	0.000	5AL_158_160_L_0							
181 D	6.234	-1.3883E-03	178.0	74.69	178.0	161.8	ACTIVE	0.000	-9.000	50.00	1.000
1.000	124.7	0.000	0.000	5AL_158_160_L_0							
182 D	6.270	-1.0219E-03	178.5	74.90	178.5	170.5	ACTIVE	0.000	-9.050	50.50	1.000
1.000	125.4	0.000	0.000	5AL_158_160_L_0							
183 D	6.306	-6.6362E-04	178.9	75.12	178.9	178.7	ACTIVE	0.000	-9.100	51.00	1.000
1.000	126.1	0.000	0.000	5AL_158_160_L_0							
184 D	6.342	-3.1302E-04	179.4	75.34	179.4	186.9	ACTIVE	0.000	-9.150	51.50	1.000
1.000	126.8	0.000	0.000	5AL_158_160_L_0							
185 D	6.378	3.0528E-05	179.8	75.56	179.8	194.8	ACTIVE	0.000	-9.200	52.00	1.000
1.000	127.6	0.000	0.000	5AL_158_160_L_0							
186 D	7.311	3.6763E-04	180.3	93.72	180.3	202.3	UL-RL	1.3504E+05	-9.250	52.50	1.000
1.000	146.2	0.000	0.000	5AL_158_160_L_0							
187 D	9.424	6.9889E-04	180.7	135.5	180.7	209.4	UL-RL	1.3504E+05	-9.300	53.00	1.000
1.000	188.5	0.000	0.000	5AL_158_160_L_0							
188 D	11.41	1.0249E-03	181.2	174.8	181.2	219.4	UL-RL	1.3504E+05	-9.350	53.50	1.000
1.000	228.3	0.000	0.000	5AL_158_160_L_0							
189 D	13.21	1.3464E-03	181.6	210.2	181.6	234.8	UL-RL	1.3504E+05	-9.400	54.00	1.000
1.000	264.2	0.000	0.000	5AL_158_160_L_0							
190 D	14.77	1.6637E-03	182.1	241.0	182.1	257.0	UL-RL	1.3504E+05	-9.450	54.50	1.000



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	393 di 401

1.000	295.5	0.000	0.000	5AL_158_160_L_0							
191 D	16.32	1.9776E-03	182.5	271.4	182.5	278.9	UL-RL	1.3504E+05	-9.500	55.00	1.000
1.000	326.4	0.000	0.000	5AL_158_160_L_0							
192 D	17.83	2.2886E-03	183.0	301.2	183.0	301.3	UL-RL	1.3504E+05	-9.550	55.50	1.000
1.000	356.7	0.000	0.000	5AL_158_160_L_0							
193 D	19.20	2.5972E-03	183.4	328.0	183.4	328.0	V-C	8.4400E+04	-9.600	56.00	1.000
1.000	384.0	0.000	0.000	5AL_158_160_L_0							
194 D	20.56	2.9038E-03	183.9	354.6	183.9	354.6	V-C	8.4400E+04	-9.650	56.50	1.000
1.000	411.1	0.000	0.000	5AL_158_160_L_0							
195 D	21.90	3.2089E-03	184.3	381.1	184.3	381.1	V-C	8.4400E+04	-9.700	57.00	1.000
1.000	438.1	0.000	0.000	5AL_158_160_L_0							
196 D	23.28	3.5129E-03	184.8	408.2	184.8	408.2	V-C	8.4400E+04	-9.750	57.50	1.000
1.000	465.7	0.000	0.000	5AL_158_160_L_0							
197 D	24.68	3.8160E-03	185.2	435.7	185.2	435.7	V-C	8.4400E+04	-9.800	58.00	1.000
1.000	493.7	0.000	0.000	5AL_158_160_L_0							
198 D	26.08	4.1186E-03	185.7	463.1	185.7	463.1	V-C	8.4400E+04	-9.850	58.50	1.000
1.000	521.6	0.000	0.000	5AL_158_160_L_0							
199 D	27.48	4.4209E-03	186.1	490.5	186.1	490.5	V-C	8.4400E+04	-9.900	59.00	1.000
1.000	549.5	0.000	0.000	5AL_158_160_L_0							
200 D	28.86	4.7230E-03	186.6	517.9	186.6	517.9	PASSIVE	0.000	-9.950	59.50	1.000
1.000	577.4	0.000	0.000	5AL_158_160_L_0							
201 D	14.47	5.0250E-03	187.0	519.1	187.0	519.1	PASSIVE	0.000	-10.00	60.00	1.000
1.000	579.1	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

paratia_mario.BaseDesignSection 28.SISMICAGEO_1016
Exe Time :21 June 2016 11:57:47

paratia_mario

STRESS RESULTS FOR GROUP NO. 2

O_R
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 201
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

***** TOTAL STRESS FORMULATION *****

EL *	FORCE	DISPL-Y	VERTICAL-P	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR
UFACITOR	Feq		Su_a	Su_p	LAYER						
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-5.0000E-02	0.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.1000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.1500	0.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.2000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.2500	0.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-0.3000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.3500	0.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.4500	0.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-0.5000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.5500	0.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-0.6000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.6500	0.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-0.7000	0.000	1.000
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--	-0.7500	0.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
10	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
11	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
12	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
13	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
14	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
15	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			
16	0.000	--	--	--	--	--	REMOVED	--			
1.000	0.000	0.000	0.000	0.000	not available	--	REMOVED	--			

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VID100 004	A	394 di 401

17	0.000	--	--	--	REMOVED	--	-0.8000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
18	0.000	--	--	--	REMOVED	--	-0.8500	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
19	0.000	--	--	--	REMOVED	--	-0.9000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
20	0.000	--	--	--	REMOVED	--	-0.9500	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
21	0.000	--	--	--	REMOVED	--	-1.000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
22	0.000	--	--	--	REMOVED	--	-1.050	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
23	0.000	--	--	--	REMOVED	--	-1.100	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
24	0.000	--	--	--	REMOVED	--	-1.150	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
25	0.000	--	--	--	REMOVED	--	-1.200	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
26	0.000	--	--	--	REMOVED	--	-1.250	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
27	0.000	--	--	--	REMOVED	--	-1.300	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
28	0.000	--	--	--	REMOVED	--	-1.350	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
29	0.000	--	--	--	REMOVED	--	-1.400	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
30	0.000	--	--	--	REMOVED	--	-1.450	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
31	0.000	--	--	--	REMOVED	--	-1.500	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
32	0.000	--	--	--	REMOVED	--	-1.550	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
33	0.000	--	--	--	REMOVED	--	-1.600	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
34	0.000	--	--	--	REMOVED	--	-1.650	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
35	0.000	--	--	--	REMOVED	--	-1.700	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
36	0.000	--	--	--	REMOVED	--	-1.750	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
37	0.000	--	--	--	REMOVED	--	-1.800	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
38	0.000	--	--	--	REMOVED	--	-1.850	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
39	0.000	--	--	--	REMOVED	--	-1.900	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
40	0.000	--	--	--	REMOVED	--	-1.950	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
41	0.000	--	--	--	REMOVED	--	-2.000	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
42	0.000	--	--	--	REMOVED	--	-2.050	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
43	0.000	--	--	--	REMOVED	--	-2.100	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
44	0.000	--	--	--	REMOVED	--	-2.150	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
45	0.000	--	--	--	REMOVED	--	-2.200	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
46	0.000	--	--	--	REMOVED	--	-2.250	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
47	0.000	--	--	--	REMOVED	--	-2.300	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
48	0.000	--	--	--	REMOVED	--	-2.350	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
49	0.000	--	--	--	REMOVED	--	-2.400	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
50	0.000	--	--	--	REMOVED	--	-2.450	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
51	0.000	--	--	--	REMOVED	--	-2.500	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
52	0.000	--	--	--	REMOVED	--	-2.550	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
53	0.000	--	--	--	REMOVED	--	-2.600	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
54	0.000	--	--	--	REMOVED	--	-2.650	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
55	0.000	--	--	--	REMOVED	--	-2.700	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
56	0.000	--	--	--	REMOVED	--	-2.750	0.000	1.000
1.000	0.000	0.000	0.000	not available	--	--	--	--	--
57	0.000	--	--	--	REMOVED	--	-2.800	0.000	1.000

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	395 di 401

1.000	0.000	0.000	0.000	not available							
58	0.000	--	--	--	--	REMOVED	--	-2.850	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
59	0.000	--	--	--	--	REMOVED	--	-2.900	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
60	0.000	--	--	--	--	REMOVED	--	-2.950	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
61	0.000	--	--	--	--	REMOVED	--	-3.000	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
62	0.000	--	--	--	--	REMOVED	--	-3.050	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
63	0.000	--	--	--	--	REMOVED	--	-3.100	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
64	0.000	--	--	--	--	REMOVED	--	-3.150	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
65	0.000	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	
1.000	0.000	0.000	0.000	not available							
66 D	1.424	0.1565	0.9500	28.49	61.75	49.35	PASSIVE	0.000	-3.250	0.000	1.000
1.000	28.49	0.000	0.000	5AL_158_160_L_0							
67 D	1.550	0.1542	1.900	30.99	62.70	49.91	PASSIVE	0.000	-3.300	0.000	1.000
1.000	30.99	0.000	0.000	5AL_158_160_L_0							
68 D	1.675	0.1520	2.850	33.50	63.65	50.48	PASSIVE	0.000	-3.350	0.000	1.000
1.000	33.50	0.000	0.000	5AL_158_160_L_0							
69 D	1.800	0.1498	3.800	36.00	64.60	51.04	PASSIVE	0.000	-3.400	0.000	1.000
1.000	36.00	0.000	0.000	5AL_158_160_L_0							
70 D	1.925	0.1476	4.750	38.51	65.55	51.61	PASSIVE	0.000	-3.450	0.000	1.000
1.000	38.51	0.000	0.000	5AL_158_160_L_0							
71 D	2.051	0.1454	5.700	41.01	66.50	52.17	PASSIVE	0.000	-3.500	0.000	1.000
1.000	41.01	0.000	0.000	5AL_158_160_L_0							
72 D	2.176	0.1432	6.650	43.52	67.45	52.73	PASSIVE	0.000	-3.550	0.000	1.000
1.000	43.52	0.000	0.000	5AL_158_160_L_0							
73 D	2.301	0.1410	7.600	46.02	68.40	53.30	PASSIVE	0.000	-3.600	0.000	1.000
1.000	46.02	0.000	0.000	5AL_158_160_L_0							
74 D	2.426	0.1388	8.550	48.53	69.35	53.86	PASSIVE	0.000	-3.650	0.000	1.000
1.000	48.53	0.000	0.000	5AL_158_160_L_0							
75 D	2.552	0.1367	9.500	51.03	70.30	54.42	PASSIVE	0.000	-3.700	0.000	1.000
1.000	51.03	0.000	0.000	5AL_158_160_L_0							
76 D	2.677	0.1345	10.45	53.54	71.25	54.99	PASSIVE	0.000	-3.750	0.000	1.000
1.000	53.54	0.000	0.000	5AL_158_160_L_0							
77 D	2.802	0.1324	11.40	56.04	72.20	56.04	PASSIVE	0.000	-3.800	0.000	1.000
1.000	56.04	0.000	0.000	5AL_158_160_L_0							
78 D	2.927	0.1303	12.35	58.55	73.15	58.55	PASSIVE	0.000	-3.850	0.000	1.000
1.000	58.55	0.000	0.000	5AL_158_160_L_0							
79 D	3.053	0.1281	13.30	61.05	74.10	61.05	PASSIVE	0.000	-3.900	0.000	1.000
1.000	61.05	0.000	0.000	5AL_158_160_L_0							
80 D	3.178	0.1260	14.25	63.56	75.05	63.56	PASSIVE	0.000	-3.950	0.000	1.000
1.000	63.56	0.000	0.000	5AL_158_160_L_0							
81 D	3.303	0.1239	15.20	66.06	76.00	66.06	PASSIVE	0.000	-4.000	0.000	1.000
1.000	66.06	0.000	0.000	5AL_158_160_L_0							
82 D	3.388	0.1218	15.65	67.25	76.45	67.25	PASSIVE	0.000	-4.050	0.5000	1.000
1.000	67.25	0.000	0.000	5AL_158_160_L_0							
83 D	3.472	0.1198	16.10	68.44	76.90	68.44	PASSIVE	0.000	-4.100	1.000	1.000
1.000	69.44	0.000	0.000	5AL_158_160_L_0							
84 D	3.556	0.1177	16.55	69.62	77.35	69.62	PASSIVE	0.000	-4.150	1.500	1.000
1.000	71.12	0.000	0.000	5AL_158_160_L_0							
85 D	3.641	0.1157	17.00	70.81	77.80	70.81	PASSIVE	0.000	-4.200	2.000	1.000
1.000	72.81	0.000	0.000	5AL_158_160_L_0							
86 D	3.725	0.1136	17.45	72.00	78.25	72.00	PASSIVE	0.000	-4.250	2.500	1.000
1.000	74.50	0.000	0.000	5AL_158_160_L_0							
87 D	3.809	0.1116	17.90	73.18	78.70	73.18	PASSIVE	0.000	-4.300	3.000	1.000
1.000	76.18	0.000	0.000	5AL_158_160_L_0							
88 D	3.894	0.1096	18.35	74.37	79.15	74.37	PASSIVE	0.000	-4.350	3.500	1.000
1.000	77.87	0.000	0.000	5AL_158_160_L_0							
89 D	3.978	0.1076	18.80	75.56	79.60	75.56	PASSIVE	0.000	-4.400	4.000	1.000
1.000	79.56	0.000	0.000	5AL_158_160_L_0							
90 D	4.062	0.1056	19.25	76.74	80.05	76.74	PASSIVE	0.000	-4.450	4.500	1.000
1.000	81.24	0.000	0.000	5AL_158_160_L_0							
91 D	4.147	0.1036	19.70	77.93	80.50	77.93	PASSIVE	0.000	-4.500	5.000	1.000
1.000	82.93	0.000	0.000	5AL_158_160_L_0							
92 D	4.231	0.1017	20.15	79.12	80.95	79.12	PASSIVE	0.000	-4.550	5.500	1.000
1.000	84.62	0.000	0.000	5AL_158_160_L_0							
93 D	4.315	9.9736E-02	20.60	80.30	81.40	80.30	PASSIVE	0.000	-4.600	6.000	1.000
1.000	86.30	0.000	0.000	5AL_158_160_L_0							
94 D	4.400	9.7811E-02	21.05	81.49	81.85	81.49	PASSIVE	0.000	-4.650	6.500	1.000
1.000	87.99	0.000	0.000	5AL_158_160_L_0							
95 D	4.484	9.5901E-02	21.50	82.68	82.30	82.68	PASSIVE	0.000	-4.700	7.000	1.000
1.000	89.68	0.000	0.000	5AL_158_160_L_0							
96 D	4.568	9.4007E-02	21.95	83.86	82.75	83.86	PASSIVE	0.000	-4.750	7.500	1.000
1.000	91.36	0.000	0.000	5AL_158_160_L_0							
97 D	4.653	9.2128E-02	22.40	85.05	83.20	85.05	PASSIVE	0.000	-4.800	8.000	1.000
1.000	93.05	0.000	0.000	5AL_158_160_L_0							

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA LOTTO CODIFICA DOCUMENTO REV. FOGLIO
LI00 01 D 09CL VI0100 004 A 397 di 401

1.000	162.2	0.000	0.000	5AL_158_160_L_0							
139 D	8.195	2.9789E-02	41.30	134.9	102.1	134.9	PASSIVE	0.000	-6.900	29.00	1.000
1.000	163.9	0.000	0.000	5AL_158_160_L_0							
140 D	8.279	2.8736E-02	41.75	136.1	102.6	136.1	PASSIVE	0.000	-6.950	29.50	1.000
1.000	165.6	0.000	0.000	5AL_158_160_L_0							
141 D	8.363	2.7703E-02	42.20	137.3	103.0	137.3	PASSIVE	0.000	-7.000	30.00	1.000
1.000	167.3	0.000	0.000	5AL_158_160_L_0							
142 D	8.448	2.6691E-02	42.65	138.5	103.5	138.5	PASSIVE	0.000	-7.050	30.50	1.000
1.000	169.0	0.000	0.000	5AL_158_160_L_0							
143 D	8.532	2.5700E-02	43.10	139.6	103.9	139.6	PASSIVE	0.000	-7.100	31.00	1.000
1.000	170.6	0.000	0.000	5AL_158_160_L_0							
144 D	8.616	2.4728E-02	43.55	140.8	104.4	140.8	PASSIVE	0.000	-7.150	31.50	1.000
1.000	172.3	0.000	0.000	5AL_158_160_L_0							
145 D	8.701	2.3777E-02	44.00	142.0	104.8	142.0	PASSIVE	0.000	-7.200	32.00	1.000
1.000	174.0	0.000	0.000	5AL_158_160_L_0							
146 D	8.785	2.2847E-02	44.45	143.2	105.3	143.2	PASSIVE	0.000	-7.250	32.50	1.000
1.000	175.7	0.000	0.000	5AL_158_160_L_0							
147 D	8.869	2.1936E-02	44.90	144.4	105.7	144.4	PASSIVE	0.000	-7.300	33.00	1.000
1.000	177.4	0.000	0.000	5AL_158_160_L_0							
148 D	8.954	2.1045E-02	45.35	145.6	106.2	145.6	PASSIVE	0.000	-7.350	33.50	1.000
1.000	179.1	0.000	0.000	5AL_158_160_L_0							
149 D	9.038	2.0174E-02	45.80	146.8	106.6	146.8	PASSIVE	0.000	-7.400	34.00	1.000
1.000	180.8	0.000	0.000	5AL_158_160_L_0							
150 D	9.122	1.9323E-02	46.25	147.9	107.1	147.9	PASSIVE	0.000	-7.450	34.50	1.000
1.000	182.4	0.000	0.000	5AL_158_160_L_0							
151 D	9.207	1.8491E-02	46.70	149.1	107.5	149.1	PASSIVE	0.000	-7.500	35.00	1.000
1.000	184.1	0.000	0.000	5AL_158_160_L_0							
152 D	9.291	1.7679E-02	47.15	150.3	108.0	150.3	PASSIVE	0.000	-7.550	35.50	1.000
1.000	185.8	0.000	0.000	5AL_158_160_L_0							
153 D	9.375	1.6886E-02	47.60	151.5	108.4	151.5	PASSIVE	0.000	-7.600	36.00	1.000
1.000	187.5	0.000	0.000	5AL_158_160_L_0							
154 D	9.460	1.6112E-02	48.05	152.7	108.9	152.7	PASSIVE	0.000	-7.650	36.50	1.000
1.000	189.2	0.000	0.000	5AL_158_160_L_0							
155 D	9.544	1.5356E-02	48.50	153.9	109.3	153.9	PASSIVE	0.000	-7.700	37.00	1.000
1.000	190.9	0.000	0.000	5AL_158_160_L_0							
156 D	9.628	1.4620E-02	48.95	155.1	109.8	155.1	PASSIVE	0.000	-7.750	37.50	1.000
1.000	192.6	0.000	0.000	5AL_158_160_L_0							
157 D	9.713	1.3901E-02	49.40	156.3	110.2	156.3	PASSIVE	0.000	-7.800	38.00	1.000
1.000	194.3	0.000	0.000	5AL_158_160_L_0							
158 D	9.797	1.3201E-02	49.85	157.4	110.7	157.4	PASSIVE	0.000	-7.850	38.50	1.000
1.000	195.9	0.000	0.000	5AL_158_160_L_0							
159 D	9.881	1.2518E-02	50.30	158.6	111.1	158.6	PASSIVE	0.000	-7.900	39.00	1.000
1.000	197.6	0.000	0.000	5AL_158_160_L_0							
160 D	9.966	1.1854E-02	50.75	159.8	111.6	159.8	PASSIVE	0.000	-7.950	39.50	1.000
1.000	199.3	0.000	0.000	5AL_158_160_L_0							
161 D	10.05	1.1206E-02	51.20	161.0	112.0	161.0	PASSIVE	0.000	-8.000	40.00	1.000
1.000	201.0	0.000	0.000	5AL_158_160_L_0							
162 D	10.13	1.0576E-02	51.65	162.2	112.5	162.2	PASSIVE	0.000	-8.050	40.50	1.000
1.000	202.7	0.000	0.000	5AL_158_160_L_0							
163 D	10.22	9.9628E-03	52.10	163.4	112.9	163.4	PASSIVE	0.000	-8.100	41.00	1.000
1.000	204.4	0.000	0.000	5AL_158_160_L_0							
164 D	10.30	9.3659E-03	52.55	164.6	113.4	164.6	PASSIVE	0.000	-8.150	41.50	1.000
1.000	206.1	0.000	0.000	5AL_158_160_L_0							
165 D	10.39	8.7852E-03	53.00	165.7	113.8	165.7	PASSIVE	0.000	-8.200	42.00	1.000
1.000	207.7	0.000	0.000	5AL_158_160_L_0							
166 D	10.47	8.2203E-03	53.45	166.9	114.3	166.9	PASSIVE	0.000	-8.250	42.50	1.000
1.000	209.4	0.000	0.000	5AL_158_160_L_0							
167 D	10.56	7.6710E-03	53.90	168.1	114.7	168.1	PASSIVE	0.000	-8.300	43.00	1.000
1.000	211.1	0.000	0.000	5AL_158_160_L_0							
168 D	10.64	7.1369E-03	54.35	169.3	115.2	169.3	PASSIVE	0.000	-8.350	43.50	1.000
1.000	212.8	0.000	0.000	5AL_158_160_L_0							
169 D	10.72	6.6175E-03	54.80	170.5	115.6	170.5	PASSIVE	0.000	-8.400	44.00	1.000
1.000	214.5	0.000	0.000	5AL_158_160_L_0							
170 D	10.81	6.1126E-03	55.25	171.7	116.1	171.7	PASSIVE	0.000	-8.450	44.50	1.000
1.000	216.2	0.000	0.000	5AL_158_160_L_0							
171 D	10.89	5.6217E-03	55.70	172.9	116.5	172.9	PASSIVE	0.000	-8.500	45.00	1.000
1.000	217.9	0.000	0.000	5AL_158_160_L_0							
172 D	10.98	5.1445E-03	56.15	174.1	117.0	174.1	PASSIVE	0.000	-8.550	45.50	1.000
1.000	219.6	0.000	0.000	5AL_158_160_L_0							
173 D	11.06	4.6804E-03	56.60	175.2	117.4	175.2	PASSIVE	0.000	-8.600	46.00	1.000
1.000	221.2	0.000	0.000	5AL_158_160_L_0							
174 D	11.15	4.2292E-03	57.05	176.4	117.9	176.4	PASSIVE	0.000	-8.650	46.50	1.000
1.000	222.9	0.000	0.000	5AL_158_160_L_0							
175 D	11.23	3.7902E-03	57.50	177.6	118.3	177.6	PASSIVE	0.000	-8.700	47.00	1.000
1.000	224.6	0.000	0.000	5AL_158_160_L_0							
176 D	11.31	3.3631E-03	57.95	178.8	118.8	178.8	PASSIVE	0.000	-8.750	47.50	1.000
1.000	226.3	0.000	0.000	5AL_158_160_L_0							
177 D	11.40	2.9474E-03	58.40	180.0	119.2	180.0	PASSIVE	0.000	-8.800	48.00	1.000
1.000	228.0	0.000	0.000	5AL_158_160_L_0							
178 D	11.48	2.5426E-03	58.85	181.2	119.7	181.2	PASSIVE	0.000	-8.850	48.50	1.000
1.000	229.7	0.000	0.000	5AL_158_160_L_0							



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

RELAZIONE DI CALCOLO

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VIC100 004	A	398 di 401

179 D	11.57	2.1481E-03	59.30	182.4	120.1	182.4	PASSIVE	0.000	-8.900	49.00	1.000
1.000	231.4	0.000	0.000	5AL_158_160_L_0							
180 D	11.65	1.7636E-03	59.75	183.5	120.6	183.5	PASSIVE	0.000	-8.950	49.50	1.000
1.000	233.0	0.000	0.000	5AL_158_160_L_0							
181 D	11.74	1.3883E-03	60.20	184.7	121.0	184.7	PASSIVE	0.000	-9.000	50.00	1.000
1.000	234.7	0.000	0.000	5AL_158_160_L_0							
182 D	11.82	1.0219E-03	60.65	185.9	121.5	185.9	PASSIVE	0.000	-9.050	50.50	1.000
1.000	236.4	0.000	0.000	5AL_158_160_L_0							
183 D	11.17	6.6362E-04	61.10	172.4	121.9	172.4	V-C	8.1356E+04	-9.100	51.00	1.000
1.000	223.4	0.000	0.000	5AL_158_160_L_0							
184 D	10.14	3.1302E-04	61.55	151.2	122.4	151.2	V-C	8.1356E+04	-9.150	51.50	1.000
1.000	202.7	0.000	0.000	5AL_158_160_L_0							
185 D	9.112	-3.0528E-05	62.00	130.2	122.8	130.2	V-C	8.1356E+04	-9.200	52.00	1.000
1.000	182.2	0.000	0.000	5AL_158_160_L_0							
186 D	8.098	-3.6763E-04	62.45	109.5	123.3	109.5	V-C	8.1356E+04	-9.250	52.50	1.000
1.000	162.0	0.000	0.000	5AL_158_160_L_0							
187 D	7.092	-6.9889E-04	62.90	88.83	123.7	88.83	V-C	8.1356E+04	-9.300	53.00	1.000
1.000	141.8	0.000	0.000	5AL_158_160_L_0							
188 D	5.795	-1.0249E-03	63.35	62.41	124.2	86.37	UL-RL	1.3017E+05	-9.350	53.50	1.000
1.000	115.9	0.000	0.000	5AL_158_160_L_0							
189 D	4.868	-1.3464E-03	63.80	43.36	124.6	86.64	UL-RL	1.3017E+05	-9.400	54.00	1.000
1.000	97.36	0.000	0.000	5AL_158_160_L_0							
190 D	4.490	-1.6637E-03	64.25	35.30	125.1	87.30	UL-RL	1.3017E+05	-9.450	54.50	1.000
1.000	89.80	0.000	0.000	5AL_158_160_L_0							
191 D	4.113	-1.9776E-03	64.70	27.26	125.5	88.08	UL-RL	1.3017E+05	-9.500	55.00	1.000
1.000	82.26	0.000	0.000	5AL_158_160_L_0							
192 D	3.793	-2.2886E-03	65.15	20.36	126.0	88.85	UL-RL	1.3017E+05	-9.550	55.50	1.000
1.000	75.86	0.000	0.000	5AL_158_160_L_0							
193 D	3.826	-2.5972E-03	65.60	20.51	126.4	89.61	ACTIVE	0.000	-9.600	56.00	1.000
1.000	76.51	0.000	0.000	5AL_158_160_L_0							
194 D	3.861	-2.9038E-03	66.05	20.73	126.9	90.36	ACTIVE	0.000	-9.650	56.50	1.000
1.000	77.23	0.000	0.000	5AL_158_160_L_0							
195 D	3.897	-3.2089E-03	66.50	20.94	127.3	91.11	ACTIVE	0.000	-9.700	57.00	1.000
1.000	77.95	0.000	0.000	5AL_158_160_L_0							
196 D	3.933	-3.5129E-03	66.95	21.16	127.8	92.55	ACTIVE	0.000	-9.750	57.50	1.000
1.000	78.66	0.000	0.000	5AL_158_160_L_0							
197 D	3.969	-3.8160E-03	67.40	21.38	128.2	94.44	ACTIVE	0.000	-9.800	58.00	1.000
1.000	79.38	0.000	0.000	5AL_158_160_L_0							
198 D	4.005	-4.1186E-03	67.85	21.60	128.7	96.32	ACTIVE	0.000	-9.850	58.50	1.000
1.000	80.10	0.000	0.000	5AL_158_160_L_0							
199 D	4.041	-4.4209E-03	68.30	21.81	129.1	98.21	ACTIVE	0.000	-9.900	59.00	1.000
1.000	80.81	0.000	0.000	5AL_158_160_L_0							
200 D	4.076	-4.7230E-03	68.75	22.03	129.6	100.1	ACTIVE	0.000	-9.950	59.50	1.000
1.000	81.53	0.000	0.000	5AL_158_160_L_0							
201 D	2.055	-5.0250E-03	69.20	22.25	130.0	102.0	ACTIVE	0.000	-10.00	60.00	1.000
1.000	82.25	0.000	0.000	5AL_158_160_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 200
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.40914	-0.40914	-3.04168E-09	2.04573E-02
2	1.2503	-1.2503	-2.04573E-02	8.29738E-02
3	2.1144	-2.1144	-8.29738E-02	0.18869
4	3.0014	-3.0014	-0.18869	0.33876
5	3.9113	-3.9113	-0.33876	0.53433
6	4.8440	-4.8440	-0.53433	0.77653
7	5.7997	-5.7997	-0.77653	1.0665
8	6.7782	-6.7782	-1.0665	1.4054
9	7.7797	-7.7797	-1.4054	1.7944
10	8.8040	-8.8040	-1.7944	2.2346
11	9.8513	-9.8513	-2.2346	2.7272
12	10.921	-10.921	-2.7272	3.2732
13	12.014	-12.014	-3.2732	3.8740

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	399 di 401

RELAZIONE DI CALCOLO

14	13.130	-13.130	-3.8740	4.5305
15	14.269	-14.269	-4.5305	5.2439
16	15.431	-15.431	-5.2439	6.0155
17	16.616	-16.616	-6.0155	6.8463
18	17.823	-17.823	-6.8463	7.7374
19	19.053	-19.053	-7.7374	8.6901
20	20.307	-20.307	-8.6901	9.7054
21	21.583	-21.583	-9.7054	10.785
22	22.882	-22.882	-10.785	11.929
23	24.204	-24.204	-11.929	13.139
24	25.549	-25.549	-13.139	14.416
25	26.917	-26.917	-14.416	15.762
26	28.307	-28.307	-15.762	17.177
27	29.721	-29.721	-17.177	18.664
28	31.157	-31.157	-18.664	20.221
29	32.617	-32.617	-20.221	21.852
30	34.099	-34.099	-21.852	23.557
31	35.604	-35.604	-23.557	25.337
32	37.132	-37.132	-25.337	27.194
33	38.683	-38.683	-27.194	29.128
34	40.257	-40.257	-29.128	31.141
35	41.854	-41.854	-31.141	33.234
36	43.473	-43.473	-33.234	35.407
37	45.116	-45.116	-35.407	37.663
38	46.781	-46.781	-37.663	40.002
39	48.469	-48.469	-40.002	42.426
40	50.181	-50.181	-42.426	44.935
41	51.915	-51.915	-44.935	47.530
42	53.672	-53.672	-47.530	50.214
43	55.452	-55.452	-50.214	52.986
44	57.254	-57.254	-52.986	55.849
45	59.080	-59.080	-55.849	58.803
46	60.929	-60.929	-58.803	61.850
47	62.800	-62.800	-61.850	64.990
48	64.694	-64.694	-64.990	68.224
49	66.612	-66.612	-68.224	71.555
50	68.552	-68.552	-71.555	74.983
51	70.515	-70.515	-74.983	78.508
52	72.501	-72.501	-78.508	82.133
53	74.510	-74.510	-82.133	85.859
54	76.541	-76.541	-85.859	89.686
55	78.596	-78.596	-89.686	93.616
56	80.673	-80.673	-93.616	97.649
57	82.774	-82.774	-97.649	101.79
58	84.897	-84.897	-101.79	106.03
59	87.043	-87.043	-106.03	110.38
60	89.212	-89.212	-110.38	114.85
61	91.404	-91.404	-114.85	119.42
62	93.619	-93.619	-119.42	124.10
63	95.857	-95.857	-124.10	128.89
64	98.118	-98.118	-128.89	133.80
65	100.40	-100.40	-133.80	138.82
66	101.28	-101.28	-138.82	143.88
67	102.06	-102.06	-143.88	148.99
68	102.74	-102.74	-148.98	154.12
69	103.32	-103.32	-154.12	159.29
70	103.79	-103.79	-159.29	164.48
71	104.16	-104.16	-164.48	169.68
72	104.43	-104.43	-169.68	174.90
73	104.59	-104.59	-174.90	180.13
74	104.66	-104.66	-180.13	185.37
75	104.62	-104.62	-185.37	190.60
76	104.47	-104.47	-190.60	195.82
77	104.23	-104.23	-195.82	201.03
78	103.88	-103.88	-201.03	206.23
79	103.44	-103.44	-206.23	211.40
80	102.88	-102.88	-211.40	216.54
81	102.23	-102.23	-216.54	221.65
82	101.53	-101.53	-221.65	226.73
83	100.78	-100.78	-226.73	231.77
84	99.981	-99.981	-231.77	236.77
85	99.133	-99.133	-236.77	241.73
86	98.237	-98.237	-241.73	246.64
87	97.293	-97.293	-246.64	251.50
88	96.300	-96.300	-251.50	256.32
89	95.259	-95.259	-256.32	261.08
90	94.170	-94.170	-261.08	265.79
91	93.031	-93.031	-265.79	270.44
92	91.845	-91.845	-270.44	275.03
93	90.609	-90.609	-275.03	279.56
94	89.326	-89.326	-279.56	284.03



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
L100	01	D 09CL	VI0100 004	A	400 di 401

RELAZIONE DI CALCOLO

95	87.994	-87.994	-284.03	288.43
96	86.613	-86.613	-288.43	292.76
97	85.184	-85.184	-292.76	297.02
98	83.706	-83.706	-297.02	301.20
99	82.180	-82.180	-301.20	305.31
100	80.605	-80.605	-305.31	309.34
101	78.982	-78.982	-309.34	313.29
102	77.311	-77.311	-313.29	317.16
103	75.591	-75.591	-317.16	320.94
104	73.822	-73.822	-320.94	324.63
105	72.005	-72.005	-324.63	328.23
106	70.140	-70.140	-328.23	331.74
107	68.226	-68.226	-331.74	335.15
108	66.263	-66.263	-335.15	338.46
109	64.252	-64.252	-338.46	341.67
110	62.193	-62.193	-341.67	344.78
111	60.085	-60.085	-344.78	347.79
112	57.928	-57.928	-347.79	350.68
113	55.723	-55.723	-350.68	353.47
114	53.470	-53.470	-353.47	356.14
115	51.168	-51.168	-356.14	358.70
116	48.818	-48.818	-358.70	361.14
117	46.419	-46.419	-361.14	363.46
118	43.971	-43.971	-363.46	365.66
119	41.475	-41.475	-365.66	367.74
120	38.931	-38.931	-367.74	369.68
121	36.338	-36.338	-369.68	371.50
122	33.697	-33.697	-371.50	373.18
123	31.007	-31.007	-373.18	374.73
124	28.269	-28.269	-374.73	376.15
125	25.482	-25.482	-376.15	377.42
126	22.647	-22.647	-377.42	378.55
127	19.763	-19.763	-378.55	379.54
128	16.831	-16.831	-379.54	380.38
129	13.850	-13.850	-380.38	381.08
130	10.821	-10.821	-381.08	381.62
131	7.7430	-7.7430	-381.62	382.00
132	4.6168	-4.6168	-382.00	382.24
133	1.4421	-1.4421	-382.24	382.31
134	-1.7811	1.7811	-382.31	382.22
135	-5.0528	5.0528	-382.22	381.97
136	-8.3729	8.3729	-381.97	381.55
137	-11.742	11.742	-381.55	380.96
138	-15.159	15.159	-380.96	380.20
139	-18.624	18.624	-380.20	379.27
140	-22.138	22.138	-379.27	378.16
141	-25.701	25.701	-378.16	376.88
142	-29.312	29.312	-376.88	375.41
143	-32.972	32.972	-375.41	373.77
144	-36.680	36.680	-373.77	371.93
145	-40.436	40.436	-371.93	369.91
146	-44.241	44.241	-369.91	367.70
147	-48.095	48.095	-367.70	365.29
148	-51.997	51.997	-365.29	362.69
149	-55.947	55.947	-362.69	359.90
150	-59.946	59.946	-359.90	356.90
151	-63.994	63.994	-356.90	353.70
152	-68.090	68.090	-353.70	350.29
153	-72.234	72.234	-350.29	346.68
154	-76.427	76.427	-346.68	342.86
155	-80.669	80.669	-342.86	338.83
156	-84.958	84.958	-338.83	334.58
157	-89.297	89.297	-334.58	330.11
158	-93.684	93.684	-330.11	325.43
159	-98.119	98.119	-325.43	320.52
160	-102.60	102.60	-320.52	315.39
161	-107.14	107.14	-315.39	310.04
162	-111.72	111.72	-310.04	304.45
163	-116.35	116.35	-304.45	298.63
164	-121.02	121.02	-298.63	292.58
165	-125.75	125.75	-292.58	286.30
166	-130.52	130.52	-286.30	279.77
167	-135.35	135.35	-279.77	273.00
168	-140.22	140.22	-273.00	265.99
169	-145.14	145.14	-265.99	258.73
170	-150.11	150.11	-258.73	251.23
171	-155.13	155.13	-251.23	243.47
172	-160.19	160.19	-243.47	235.46
173	-165.31	165.31	-235.46	227.20
174	-170.47	170.47	-227.20	218.67
175	-175.68	175.68	-218.67	209.89



LINEA PESCARA - BARI

RADDOPPIO DELLA TRATTA FERROVIARIA TERMOLI-LESINA:

Lotto 1: Ripalta - Lesina

PROGETTO DEFINITIVO

OPERE PROVVISORIALI

COMMESSA	LOTTO	CODIFICA	DOCUMENTO	REV.	FOGLIO
LI00	01	D 09CL	VI0100 004	A	401 di 401

RELAZIONE DI CALCOLO

176	-180.94	180.94	-209.89	200.84
177	-186.25	186.25	-200.84	191.53
178	-191.60	191.60	-191.53	181.95
179	-197.01	197.01	-181.95	172.10
180	-202.46	202.46	-172.10	161.98
181	-207.96	207.96	-161.98	151.58
182	-213.52	213.52	-151.58	140.90
183	-218.38	218.38	-140.90	129.98
184	-222.17	222.17	-129.98	118.87
185	-224.91	224.91	-118.87	107.63
186	-225.69	225.69	-107.63	96.344
187	-223.36	223.36	-96.344	85.176
188	-217.74	217.74	-85.176	74.289
189	-209.40	209.40	-74.289	63.819
190	-199.12	199.12	-63.819	53.863
191	-186.91	186.91	-53.863	44.518
192	-172.86	172.86	-44.518	35.874
193	-157.49	157.49	-35.874	28.000
194	-140.79	140.79	-28.000	20.960
195	-122.79	122.79	-20.960	14.821
196	-103.44	103.44	-14.821	9.6492
197	-82.720	82.720	-9.6492	5.5132
198	-60.644	60.644	-5.5132	2.4809
199	-37.207	37.207	-2.4809	0.62057
200	-12.416	12.416	-0.62057	1.31561E-11

PARATIEPLUS(TM) NLS ENGINE RELEASE 2016 FULL VERSION *Build date: Feb 29, 2016*

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FINAL INCREMENTAL ANALYSIS

SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	4
3	CONVERGENCE :YES	14

END OF PROCESS FOR PROBLEM

paratia_mario
NONLINEAR SOLUTION CPU TIME 0.06 [sec]
DATABASE CREATION CPU TIME..... 0.22 [sec]