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Indice Index	Data Date	Modificare Modification/Revision	Proiectant Designer	Aprobat Consultant Approved Consultant	Aprobat CFR Approved CFR



GUVERNUL ROMANIEI
ROMANIAN GOVERNMENT

PROIECT FINANȚAT DE UNIUNEA EUROPEANĂ
EUROPEAN UNION FINANCED PROJECT



C.N.C.F. "C.F.R." - S.A.

CLIENT / CLIENT



CONSULTANT / CONSULTANT

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Aprobat Approved	Responsabil Subconsultant Subconsultant Responsible			
Întocmit Elaborated	Proiectant Designer			

Reabilitarea liniei de cale ferata Braşov - Simeria, parte componentă a coridorului IV Pan European, pentru circulația trenurilor cu viteză maximă de 160 km/h.
Secțiune 1 Brasov - Sighisoara

Proiect/Project
2004/RO/16/P/PA/003

Rehabilitation of the railway line Braşov - Simeria, component Part of the IV Pan-European Corridor, for the trains circulation with maximum speed of 160 km/h.
Section 1 Brasov - Sighisoara

Faza / Phase:
P.Th. / T.D.

Denumire desen / Drawing Title :

HOMOROD TUNEL - HOMOROD TUNELUL

Homorod side - Technical report and calculation of provisional and definitive entrance zones structures
Zona inspre Homorod - Raportul tehnic și calcularea intrarea provizorii și definitive

Codificare / Codification System	Scara / Scale	LOT	Nr. / No -
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Anexa 1 Excavarea STR A1+M1+R1 = 7.2 m

Anexa 2 Excavarea STR A1+M1+R1 L= 10.2 m

Anexa 3 Excavarea STR A1+M1+R1 L= = 14.5 m

Anexa 4 SAP 2000 – Homorod1 static

Anexa 5 SAP 2000 — Homorod seismic

1 INTRODUCERE

În acest raport ne ocupăm cu problemele de proiectare referitoare la lucrările de construcții ale intrării de pe latura Homorod a Tunelului Homorod de-a lungul aliniamentului de cale ferată Brașov – Simeria (Secțiunea 1 Brașov – Sighisoara) ce aparține rețelei de căi ferate ale Coridorului IV Pan European.

Tunelul este un tunel de cale ferată cu două sensuri, format din două conducte diferite situate la o distanță de aproximativ 30 m. Cele două zone de intrare diferite sunt formate pentru fiecare conductă din părți artificiale cu porți de intrare de forma unui „canal”

Tunelul Homorod este compus din următoarele lucrări de construcții (structuri permanente):

	LATURA RACOS			LATURA HOMOROD		
	CANAL FRAȚIONAT	TUNEL ARTIFICIAL	TUNEL NATURAL		TUNEL ARTIFICIAL	CANAL FRAȚIONAT
	pk	pk	de la pk	la pk	pk	pk
LINIA 1 HOMOROD	226.538,99	226.553,99	226.663,58	231.639,61	231.677,91	231.692,91
LINIA 2 HOMOROD	226.522,28	226.537,28	226.616,87	231.585,47	231.642,47	231.657,47

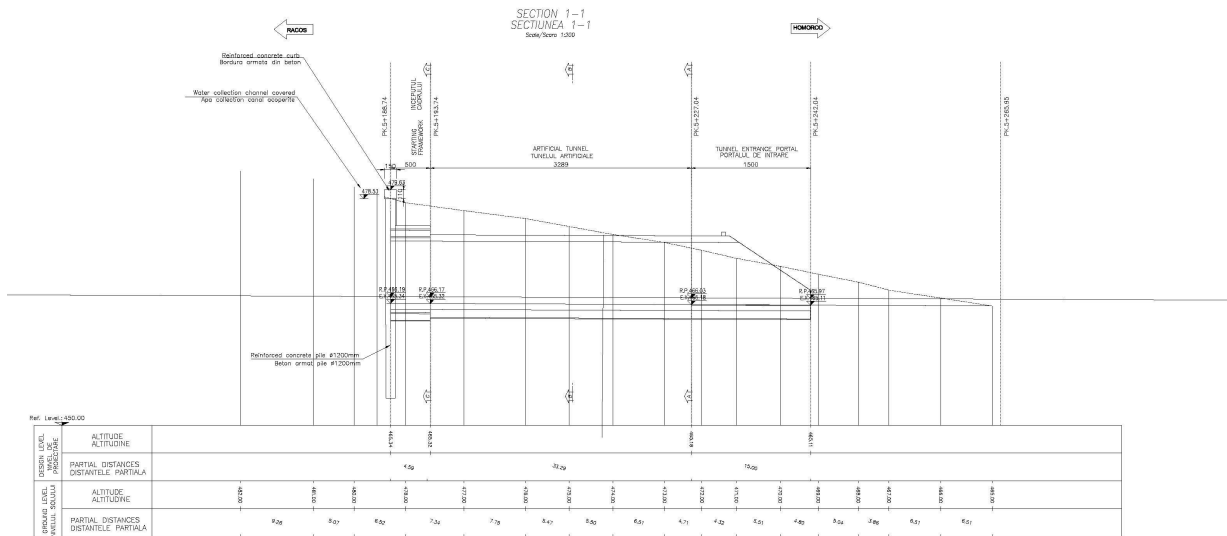
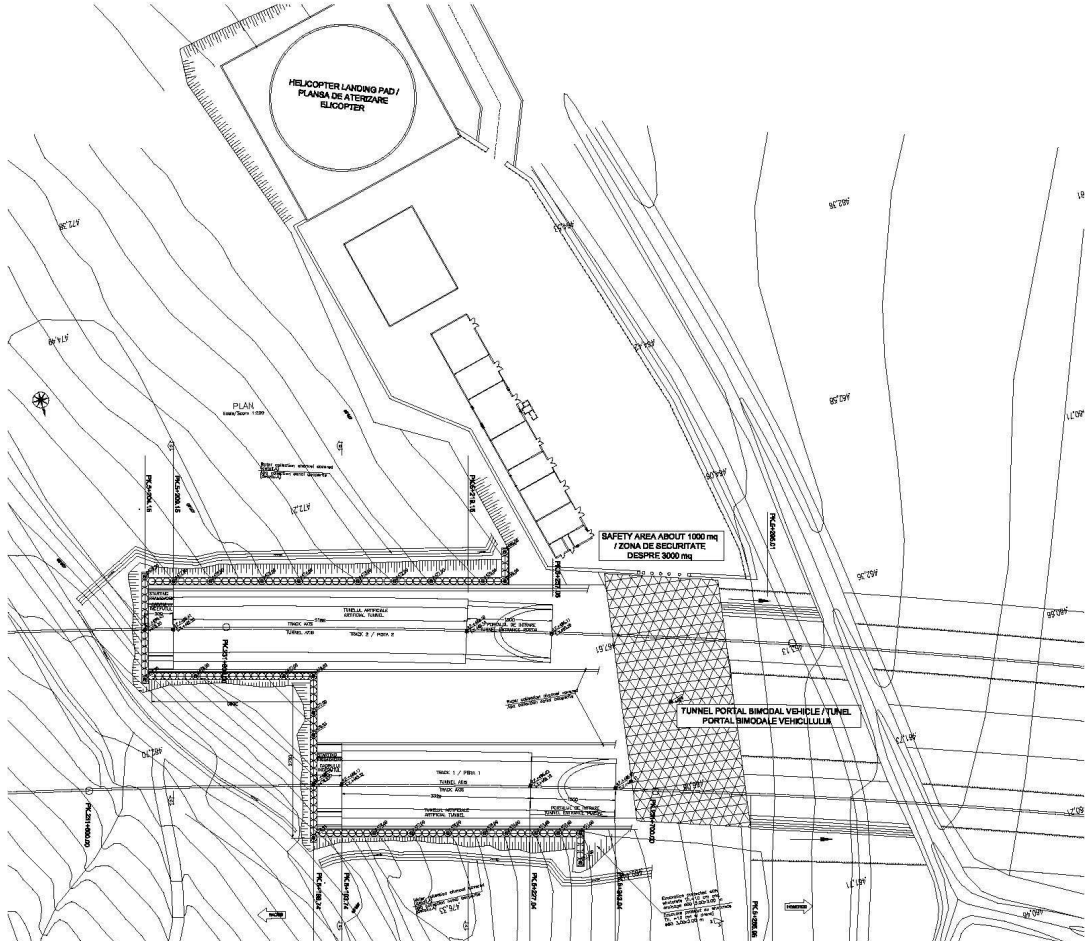
	LATURA RACOS			LATURA HOMOROD		
	CANAL FRAȚIONAT	TUNEL ARTIFICIAL	TUNEL NATURAL		TUNEL ARTIFICIAL	CANAL FRAȚIONAT
	L (m)	L (m)	L (m)		L (m)	L (m)
LINIA 1 HOMOROD	15,00	109,59	4.976,03		38,30	15,00
LINIA 2 HOMOROD	15,00	79,59	4.968,60		57,00	15,00

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

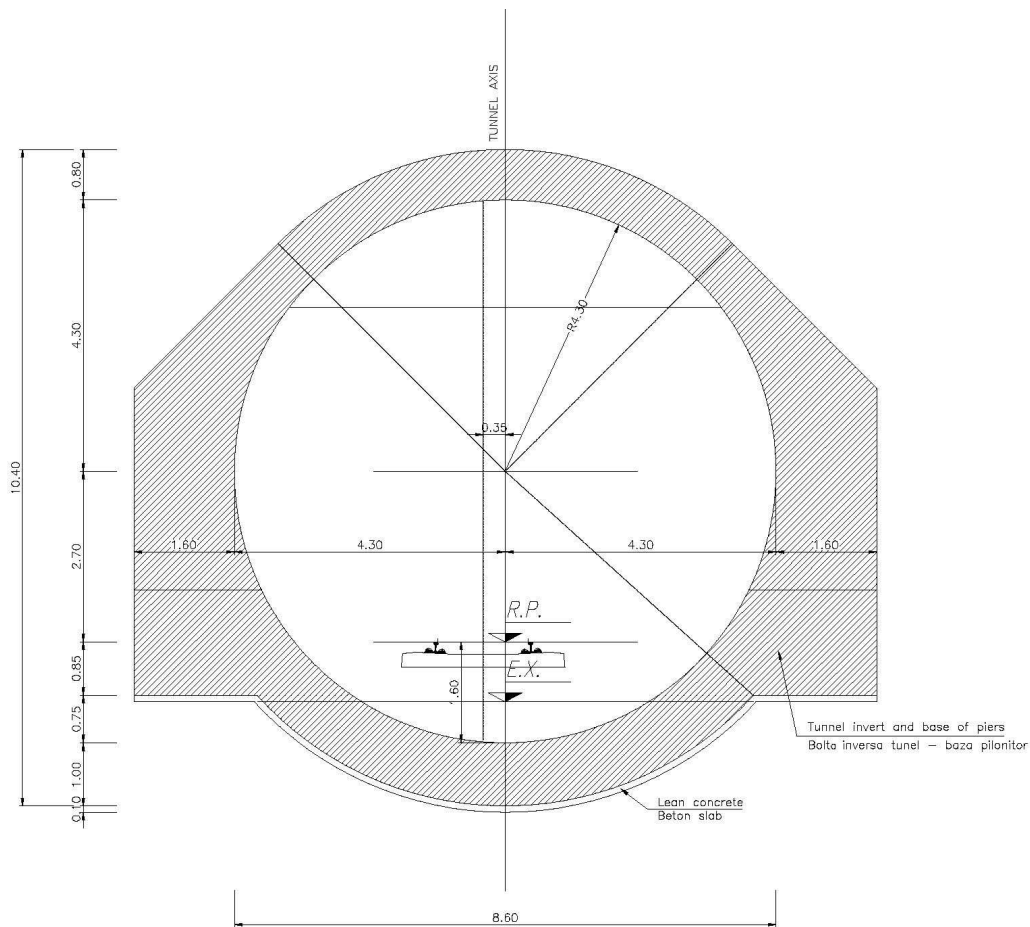
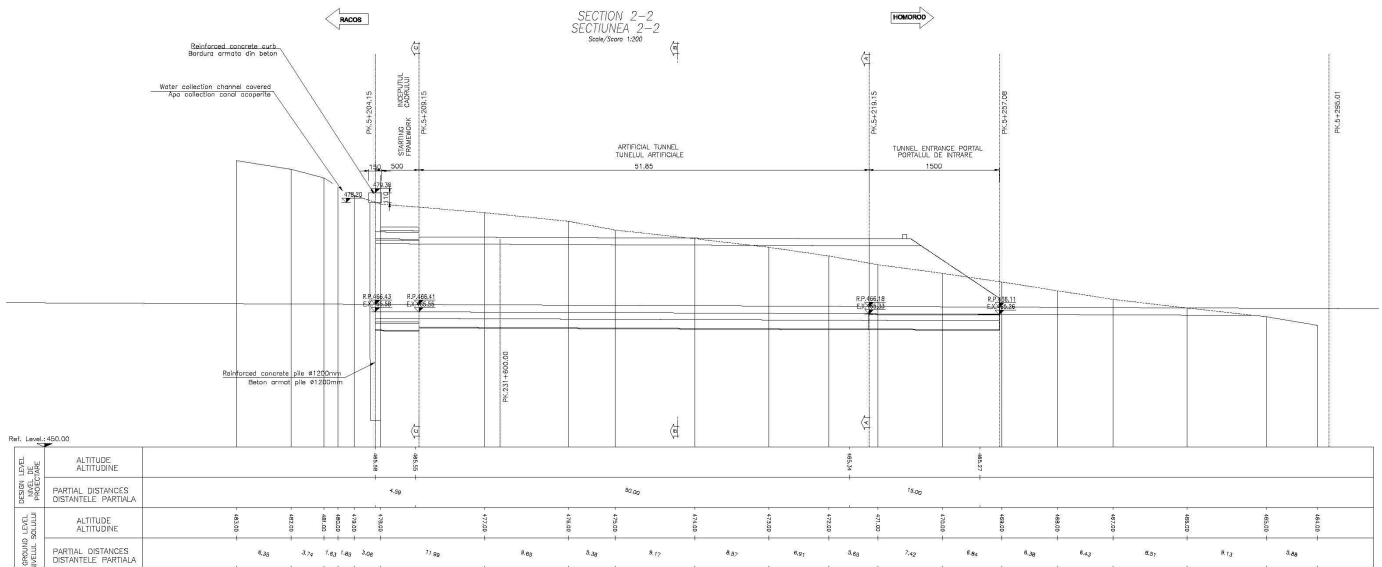
Pământul este excavat la adâncimea cerută cu ziduri de sprijin ancorate care suportă solul pe laturi. Zidurile de sprijin sunt constituite din piloni din beton armat în timp ce ancorele sunt pe 4 nivele (adâncime maximă) de extradrosuri de legătură cimentate.

În secțiunile următoare ale acestui document sunt definiți parametrii geotehnici ai proiectului iar apoi sunt prezentate analizele pentru a verifica gradul de adecvare a proiectării statice pentru structurile temporare și pentru structurile permanente.

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2 DOCUMENTE DE REFERINȚĂ

2.1 Referințe normative

- [A] EN 1990:2002 – Eurocod: Baza proiectării structurale.
- [B] EN 1991 – Eurocod 1: Acțiuni pe structuri.
- [C] EN 1992 – Eurocod 2: Proiectarea structurilor din beton.
- [D] EN 1993 – Eurocod 3: Proiectarea structurilor din oțel.
- [E] EN 1997-1 – Eurocod 7: Proiectul geotehnic – Partea 1: Reguli generale.
- [F] EN 1997-2 – Eurocod 7: Proiectul geotehnic – Partea 2: Investigarea și testarea terenului.
- [G] EN 1998 – Eurocod 8: Proiectarea structurilor pentru rezistența la cutremur

2.2 Bibliografie

- [H] Bowles (1998) - Analiza și proiectarea fundațiilor, Ediția 4, McGraw-Hill, Inc.
- [J] Ce.A.S (2008) – Manualul de program Paratie.

3 CARACTERIZAREA GEOTEHNICĂ A ZONEI ȘI A PROIECTULUI

În această secțiune sunt descrise caracteristicile geologice și geotehnice ale zonei și parametrii geotehnici ai proiectului cu referiri la investigarea terenului. Datele prezente sunt rezumate în Profilul geotehnic - geomecanic al tunelului.

3.1 Clasificarea geologică

Reconstituirea geologică a zonei de intrare indică că tunelul traversează următoarele unități litologice:

- Soluri coezive cuaternare brune și gălbui (argile, argile prăfoase, argile nisipoase) urmate de un compus marnos gri format din argile marnoase, argile marnoase prăfoase, prafuri marnoase argiloase, nisipuri prăfoase cu aspect marnos și pietriș cu nisip din perioada Sarmățiană (Volhinian – Bessarabian). În compusul marnos, apar intercalări de piatră de nisip și conglomerate de câțiva centimetri.
- Alternarea spațiilor coezive (argile, argile grase, argile prăfoase, argile nisipoase) cu cele non-coezive (nisipuri cu sau fără pietriș, nisipuri prăfoase cu pietriș, nisipuri argiloase cu pietriș) și ușor coezive (nisipuri argiloase și nisipuri prăfoase) de culoare brună și gălbuie and din perioada Tortoniană (Badeniană).

3.2 Investigarea terenului

Investigarea terenului, efectuată de-a lungul aliniamentului Brasov- Sighisoara unde este inserat tunelul Homorod, a permis să se obțină informațiile geologice și geotehnice pentru proiectarea lucrărilor de construcții și de asemenea să se definească caracteristicile fizice și mecanice ale solurilor prin teste de laborator efectuate pe mai multe probe extrase. Investigațiile de teren de-a lungul aliniamentului au fost efectuate pentru a defini caracteristicile de deformabilitate și permeabilitate ale solurilor. Forajele au fost făcute cu

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un diametru de foraj (100 mm) și executate la o adâncime maximă de 50 m.

Investigarea de teren, în cadrul zonei unde va fi excavata intrare în tuneluri, constă din:

- RHA F4 25.5m adâncime
- RHA F5 30.2m adâncime
- RHA F6 29.3m adâncime
- RHA F6 BIS 39.4m adâncime

Pentru a avea o caracterizare mai detaliată a materialelor vor fi luate în considerare și rezultatele testelor de laborator făcute pe probe luate din investigații care nu se încadrează strict în zona de intrare a tunelului. Totuși acestea vor furniza informații utile pentru definirea parametrilor diferitelor formațiuni.

Control	Adâncime	Probe deranjate	Probe nederanjate	Teste SPT	Teste Menard	Test Lefranc	Nivel Piezometric
RHA F1	28.5	5	3	4			
RHA F2	28	6	2	2	1		
RHA F3	28	7	2	2	1	1	-5.4m
RHA F3 BIS	49.5	5	8	5		1	
RHA F4	25.5	4	4	3			-2.9m
RHA F5	30.2	5	4	2			
RHA F6	29.3	1	14	3			
RHA F6 BIS	39.4	17	-	13	1		

3.3 Nivelul apei

Unele găuri de foraj executate în zona de investigare au fost prevăzute și cu piezometru iar intervalul de variație a nivelului apei este de cca 2.9 ÷ 5.4 m. Prin urmare excavația va fi considerată în apa subterană.

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3.4 Caracterizarea parametrilor geotehnici

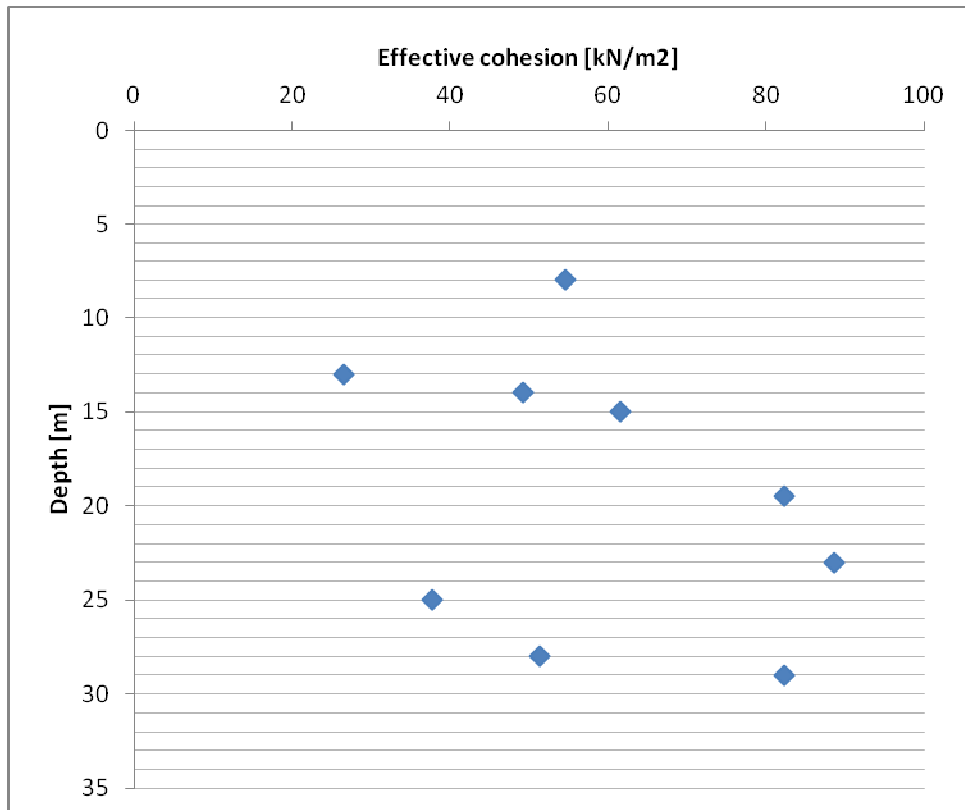
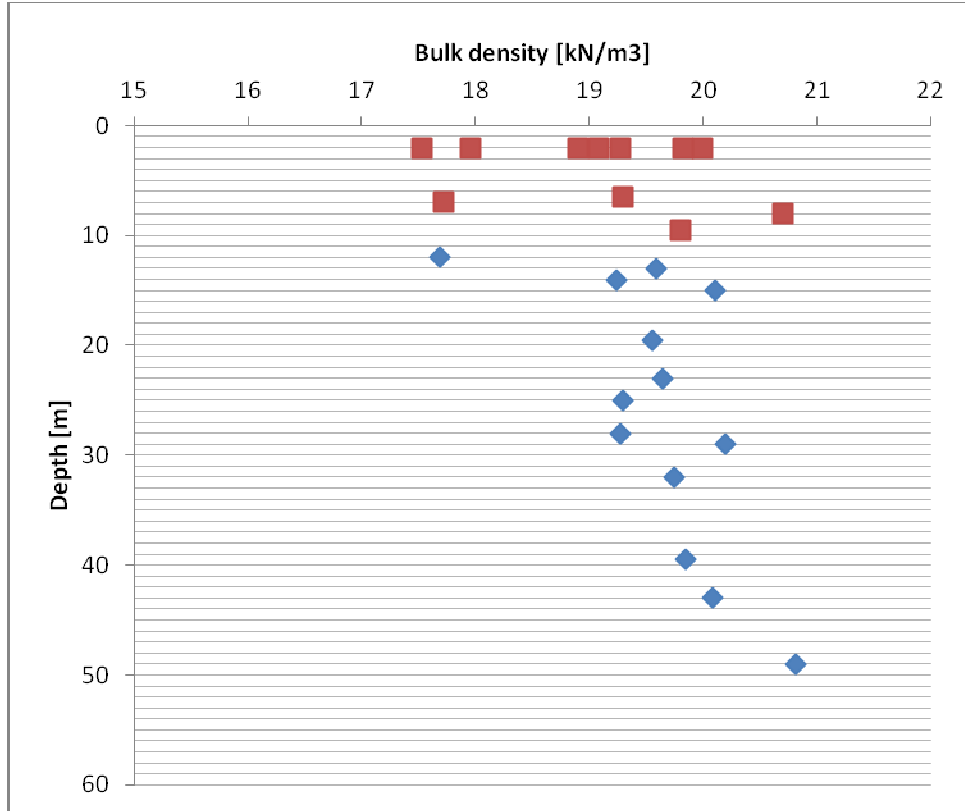
Aceste depozite constau în nămol și argilă cu depuneri de nisip la nivel local . În general, caracterizarea acestor depozite este rezultatul din analiza testărilor de laborator, a căror CU triaxial a fost efectuat pe probe nederanjate, și din testarea in situ. Rezultatele testării sunt sintetizate în tabele.

3.4.1 Parametrii fizici, de rezistență și de deformare

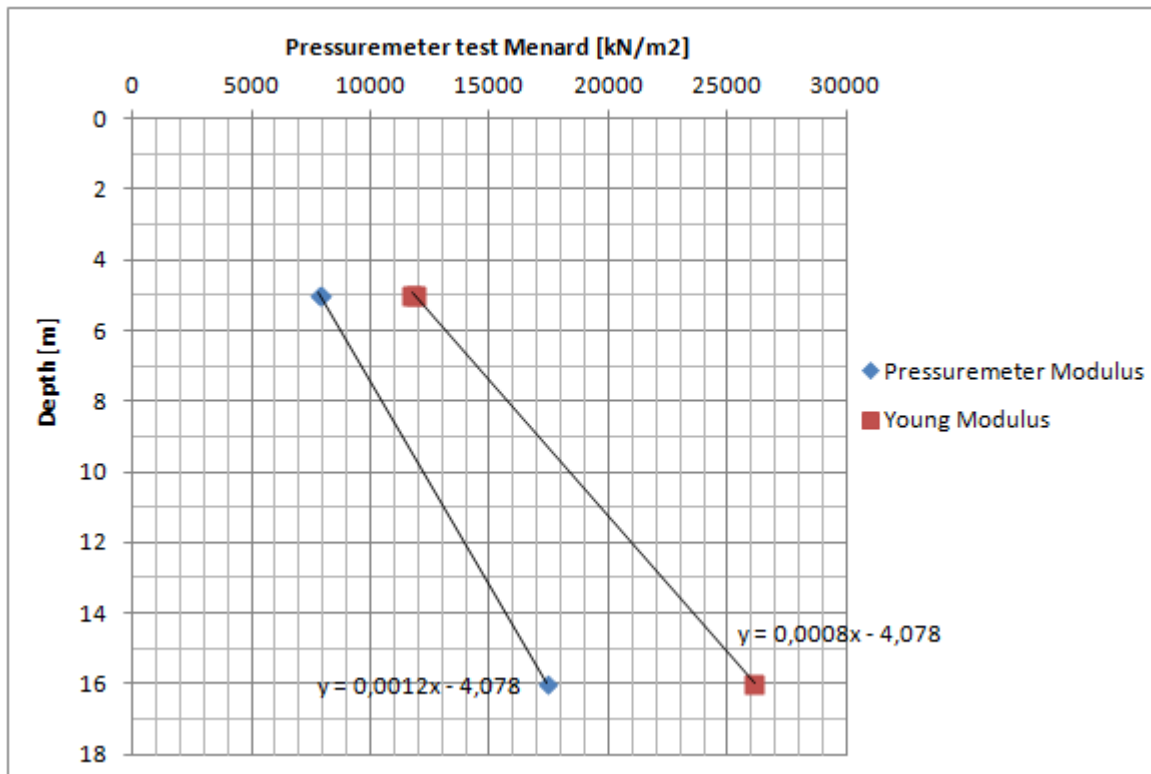
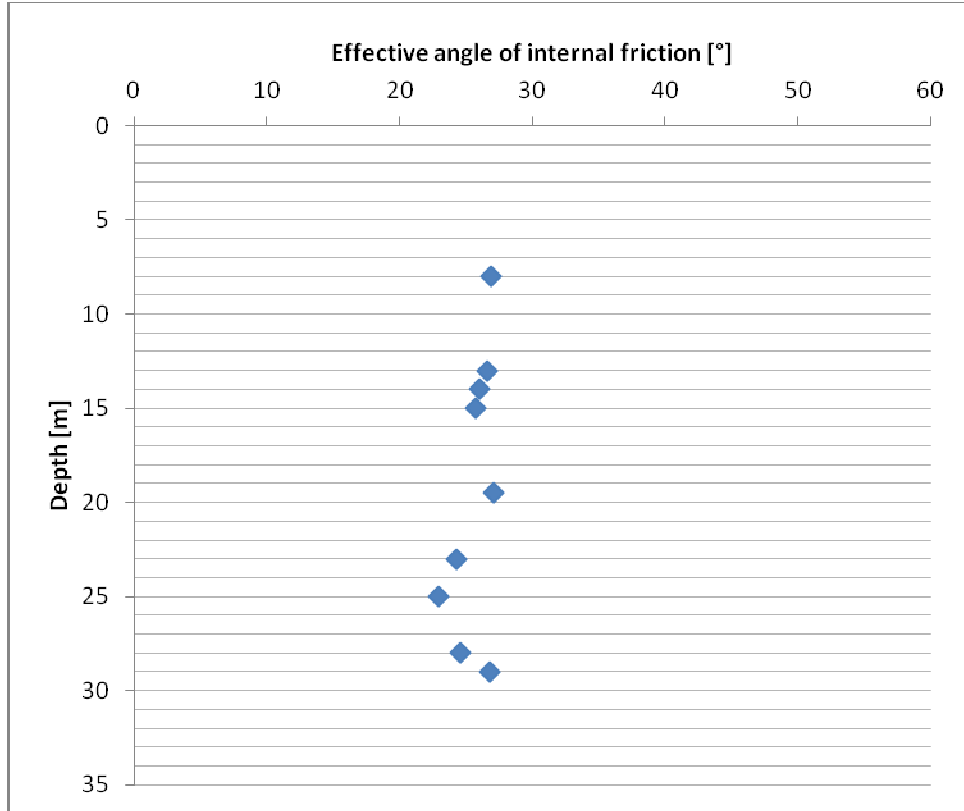
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Forajul Bădăria	Numărul probei Number of sample	Adâncimea probei Depth of sample [m]	Descrierea forajului [Stratum description]	Argila coloidală < 0.002 mm Colloidal clay [%]	Argila < 0.005 mm Clay [%]	Praf 0.005-0.05 mm Silt [%]	Nisip 0.05-2.00 mm Sand [%]	Pietriș 2-70 mm Gravel [%]	Bolișani 70-200 mm Cobble [%]	Grad de neuniformitate Non uniformity [U _n]	Umiditatea naturală (w) Water content [%]	Limita superioară de plasticitate (w _p) Liquid limit [%]	Limita inferioară de plasticitate (w _L) Plastic limit [%]	Indicele de plasticitate (I _p) Plasticity index [%]	Indicele de consistență (I _c) Consistency index [%]	Umiditatea (w) Water content [%]	Densitatea scheletului mineral (ρ _s) Specific density [t/m ³]	Densitatea naturală (ρ) Bulk density [t/m ³]	Densitatea stare uscată (ρ _d) Dry density [t/m ³]	Porozitatea (n) Porosity [%]	Indicele porilor (e) Void ratio	Gradul de umiditate (S) Saturation ratio [%]	Modulul edometric (M). Ocetomeric deformation modulus [kPa]	Deformația specifică ε _s Strain [%]	Coeficient de compresibilitate (ev) Compressibility coefficient [1/kPa] rasarea specifica suplimentare prin unincere (ε _{inc})	Adif. Sauc. saut. bucuration [%] Tread of increase Loading slip [kPa]	Indice de compresime (Cc) Compression index (Cc)	Indice de recompresime (Cr) Swail Index (Cs)	Presiune de umflare Swelling pressure [kPa]	Coeficient de consolidare Consolidation coefficient (C _v , t/m ² /sec)	Presiune de recompresime tip Pre-consolidation pressure	G _v /G _s [kPa]			Unghiul de frecare internă totală (φ) Total angle of internal friction [°]	Coeziunea totală (c) Total cohesion [kPa]	Origini erori de frecare internă (φ) Erro angle of internal friction	Coeziunea efectivă (c') Effective cohesion [kPa]	Rezistența monoaxială Compressive strength [kPa]	Deformare relativă (deformation) [%]	Umflare liberă (%) Swelling (%)	Continutul de materie organică (%)	SO ₂ (%)	CaCO ₂ (%)					
																																1	2	σ															
RAH F6 BIS T11	26,45-26,95		Nisip prafoasa, maro(SM - Silty sand)	2,2	2,3	14,7	80,6	0,2	0,0	13,3	-	-	NP				26,55																													8,08			
RAH F6 BIS T12	32,35-32,80		Nisip prafoasa, maro (SM Silty sand)	10,5	7,8	16,3	65,4	0,0	0,0	74,1					NP			26,40																															
RAH F6 BIS T13	36,05-36,40		Nisip prafoasa, maro (SM Silty sand)	10,5	7,8	19,7	62,0	0,0	0,0	69,2								26,44																															
RAH F6 BIS T14	39,00-39,40		Nisip cu praf, maro (SM Silty sand)	10,5	7,1	20,9	61,5	0,0	0,0	69,2					NP			26,44																														8,10	

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3.5. Parametrii geotehnici

În această secțiune sunt descriși parametrii geotehnici ai proiectului cu referiri la investigația din teren.

Materialele au fost modelate cu un model “continuu echivalent” de comportare, descris de o plastică lineară perfect-elastică cu criteriul de rupere Mohr-Coulomb și cu legea-de curgere neasociată. În tabelele următoare sunt sintetizați parametrii de proiectare folosiți în următoarele analize. Se face distincție între parametrii “M1” și “M2” conform Eurocod 7. Parametrii caracteristici “M1” sunt sintetizați mai jos:

z1 (m from g.l.)	z2 (m from g.l.)	γ (kN/m ³)	Cu (kPa)	c' (kPa)	ϕ'	E' (kPa)
0	5	19	32	20	25	12
5	15	19,5	65	45	25	18
15	30	19,5	80	60	25	25

Parametrii “M2” sunt obținuți din parametrii caracteristici, reduși cu factorul de proiectare prevăzut de Eurocod 7:

z1 (m from g.l.)	z2 (m from g.l.)	γ (kN/m ³)	Cu (kPa)	c' (kPa)	ϕ'	E' (kPa)
0	5	19	23	16	20	12
5	15	19,5	46	36	20	18
15	30	19,5	57	48	20	25

Pentru analizele următoare cu privire la lucrările temporare și permanente, aceste materiale au fost de asemenea modelate numai pentru condițiile drenate.

4 REZISTENȚA MATERIALULUI

Proprietățile de rezistență de proiectare a materialelor structurale sunt sintetizate mai jos.

4.1 Armături

- Oțel de armătură: *B450C controlat de instituție*
 $f_{u_{nom}} = 540 \text{ MPa}$
 $f_{y_{nom}} = 450 \text{ MPa}$
- Oțel structural: *S 355*
 $f_{u_{nom}} = 510 \text{ MPa}$
 $f_{y_{nom}} = 355 \text{ MPa}$
- Toroane de sârmă pentru ancore:
Rezistența caracteristică de rupere la întindere $f_{ptk} \geq 1860 \text{ N/mm}^2$
Limita de curgere la întindere de 0,1 % $f_{p1k} \geq 1670 \text{ N/mm}^2$

4.2 Beton

- Tunelul artificial și portalul tunelului: *Clasa de rezistență C30/37*
- Piloni și picior de reazem: *Clasa de rezistență C25/30*

5 CRITERIILE DE PROIECTARE ȘI ANALIZA STRUCTURILOR TEMPORARE

5.1 Descrierea structurilor temporare pentru intrarea tunelului

Pământul este excavat la adâncimea cerută cu ziduri de sprijin și ancore care suportă solul pe margini. Zidurile de sprijin sunt constituite din piloni găuriți din beton armat cu un diametru de 1200 mm și o lungime de la 15 m la 28 m. Distanța între piloni va fi de 11.3 m. Pilonii sunt conectați la partea superioară de un picior de reazem din beton armat care are dimensiunile 1,1 x 1,5 m.

Ancorele constau din găuri forate cu toroane de oțel precomprimat cimentate care se extind de la fața zidului la o zonă de ancoră localizată în spatele planurilor de ruptură potențială în solul rezemat. Se vor prevedea mai multe nivele de ancore în funcție de adâncimea excavației și de parametrii geotehnici ai solului. Pasul transversal între ancore va fi de 1,3 m și acestea vor fi în opoziție la diferite nivele cu grinzile de beton armat cu dimensiunile de 60 x 70 cm.

Conductele de drenaj suborizontal sunt instalate de-a lungul zidurilor de sprijin pentru a disipa presiunea hidrolică.

Fazele de construcție a zidurilor de sprijin sunt după cum urmează:

1. Executarea pilonilor găuriți din beton pe ambele laturi ale viitorului tunel artificial;
2. Decaparea pilonilor la partea superioară;
3. Realizarea unei grinzi de coronament din beton armat la partea superioară a pilonilor;
4. Plasarea nivelului de toroane și realizarea grinzii din beton armat de la partea superioară;
5. Excavarea la nivelul ancorelor;
6. Plasarea nivelului de toroane și realizarea grinzii de contrast din beton armat;
7. Dacă este necesar se repetă etapele 4 și 5;
8. Excavarea până la adâncimea finală;
9. Excavarea și construirea radierului de tunel pentru tunelul artificial;
10. Construirea coronamentului tunelului și a pilonilor pentru tunelul artificial.

5.2. Criteriile de proiectare

Proiectarea structurilor de reazem se face atât pentru starea limită extremă (ULS) cât și pentru starea limită de deservire (SLS).

5.2.1. Stările limită extreme

Sunt luate în considerare următoarele stări limită:

Tip ULS – STR :

- Ruperea unui element structural precum zidurile, ancorajele, grinzile de contravântuire sau contrafișele sau ruperea legăturii dintre asemenea elemente;

Tipuri ULS – GEO, UPL și HYD :

- Ruperea prin rotire sau translație a zidului sau a părților din acesta;
- Ruperea din lipsa echilibrului vertical;
- Ruperea prin dislocare hidraulică și afuiere;
- Pierdere de stabilitate globală;
- Rupere combinată în teren și în elementul structural.

Când se consideră o stare limită de rupere sau de deformare excesivă a unui element structural sau secțiune a terenului (STR și GEO), se va verifica dacă:

$$Ed \leq Rd$$

Abordarea 1 de proiectare

Analiza ULS – STR este efectuată cu următoarea combinație de seturi de factori parțiali:

Combinăția 1: A1 + M1 + R1.

Analiza ULS – GEO este efectuată cu următoarea combinație de seturi de factori parțiali:

Combinăția 2: A2 + M2 + R1

Pentru verificarea stărilor limită structurale (STR) și geotehnice (GEO), în tabelele următoare sunt sintetizați factorii parțial recomandați de Eurocod 7 și factorii de corelație.

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

USL – Factorul parțial privind acțiunile și solul factorului parțial							
	Acțiunea γ_F				Parametrii solului (γ_m)		
	<u>Permanentă</u>		<u>Variabilă</u>				
	Nefavorabilă	Favorabilă	Nefavorabilă	Favorabilă	tan φ'	c'	c _u
STR (A1+M1)	1.35	1.00	1.50	0.00	1.00	1.00	1.00
GEO (A2+M2)	1.00	1.00	1.30	0.00	1.25	1.25	1.40

USL – Factor parțial de rezistență	
Rezistența	Factori parțiali de rezistență (γ_R)
Ruptură de elemente structurale ale zidului	$\gamma_R = 1$
Ruptură structurală a ancorajelor	$\gamma_R = 1$
Ruptură prin rotire sau translație a zidului	$\gamma_R = 1$
Ruptură prin dislocare hidraulică și afuire	$\gamma_R = 1$
Pierdere de stabilitate generală	$\gamma_R = 1$
Ruptură prin smulgerea ancorajelor	Temporară $\gamma_R = 1.1$
	Permanentă $\gamma_R = 1.1$

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

5.2.2 Stările limită de deservire

Sunt luate în considerare următoarele stări limită:

SLS:

- Mișcarea structurii de reazem, care poate cauza prăbușirea sau afecta aspectul sau utilizarea eficientă a structurii.

Verificarea stărilor limită de deservire va cere ca:

$$Ed \leq Rd$$

Valorile factorilor parțiali pentru SLS sunt egale cu 1,0 atât pentru acțiuni cât și pentru parametrii solului, așa cum sunt recomandate de Eurocod 7 și rezumate în tabelul următor

Acțiunea γ_F				Parametrii solului (γ_m)		
<u>Permanentă</u>		<u>Variabilă</u>				
Nefavorabilă	Favorabilă	Nefavorabilă	Favorabilă	$\tan \varphi'$	c'	c_u
1.00	1.00	1.00	1.00	1.00	1.00	1.00

5.2.3. Metoda de calcul

Analiza structurilor de sprijin este efectuată cu programul PARATIE versiunea 7.0 (CEAS Srl). Programul folosește pentru teren o comportare plastică-elastică și este în stare să urmărească întregul proces de construire. În tabelul următor sunt rezumate fazele de calcul pentru modelarea zidurilor de sprijin:

Fazele de calcul pentru zidurile de sprijin	
Faza	Descriere
1	Condiția geostatică inițială
2	Construirea zidului rezemat pe piloni
3	Excavarea la nivelul I de ancore
4	Instalarea ancorei I cu forța inițială egală cu 150 kN
5	Excavarea la nivelul II de ancore
6	Instalarea ancorei II cu forța inițială egală cu 150 kN
7	Excavarea la nivelul III de ancore
8	Instalarea ancorei III cu forța inițială egală cu 300 kN
7	Excavarea la nivelul IV de ancore
8	Instalarea ancorei IV cu forța inițială egală cu 300 kN

5.3. Cazuri analizate și rezultate

5.3.1. Secțiuni reprezentative

Analiza zidurilor de sprijin este efectuată pentru 3 secțiuni reprezentative:

Secțiunea 1: Secțiunea cu înălțime maximă a excavației, lungimea măsurată 231+639;

Secțiunea 2: Secțiunea la lungimea măsurată. 231+677;

Secțiunea 3: Secțiunea la lungimea măsurată 231+686

Secțiunea 1:

Secțiune și lungime măsurată	Lungimea măsurată 231+639
Tipul de ziduri încastrate	Pilonii zidului $\phi = 1200\text{mm}$, $L = 28\text{m}$; distanțare 1.30 m
Suprasarcini	Suprasarcină variabilă = 20 kN/m
Straturi geotehnice	De la 0 m la 5m h.c.
	De la 5 m la 15m h.c.
	De la 15 m la 30 m h.c.
Baza excavației	Z1 = 14.5 m de la grinda superioară (radierul tunelului)
Ancoră	Nivel I de ancoră H1 = 0,5 m
	Nivel II de ancoră H2 = 4,0 m
	Nivel III de ancoră H3 = 8 m
	Nivel IV de ancoră H3 = 12 m
Distanțarea transversală a ancorelor	1.3 m
Apa freatică	2 m de la h.c.

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Secțiunea 2:

Secțiune și lungime măsurată	Lungime măsurată 231+677
Tipul de ziduri încastrate	Pilonii zidului $\phi = 1200\text{mm}$; L=25m; distanțare 1.30 m
Suprasarcini	Suprasarcină variabilă = 20 kN/m
Straturi geotehnice	De la 0 m la 5m h.c.
	De la 5 m la 15m h.c.
	De la 15 m la 30 m h.c.
Baza excavației	Z1 = 10.2 m de la grinda superioară (radierul tunelului)
Ancoră	Nivel I de ancoră H1 = 0,5 m
	Nivel II de ancoră H2 = 4,0 m
	Nivel III de ancoră H3 = 8 m
Distanțarea transversală a ancorelor	1.3 m
Apa freatică	2 m de la h.c.

Secțiunea 3:

Secțiune și lungime măsurată	Lungime măsurată 231+686
Tipul de ziduri încastrate	Pilonii zidului $\phi = 1200\text{mm}$; L= 22m; distanțare 1.30 m
Suprasarcini	Suprasarcină variabilă = 20 kN/m
Straturi geotehnice	De la 0 m la 5m h.c.
	De la 5 m la 15m h.c.
	De la 15 m la 30 m h.c.
Baza excavației	Z1 = 7.2 m de la grinda superioară (radierul tunelului)
Ancoră	Nivel I de ancoră H1 = 0,5 m
	Nivel II de ancoră H2 = 4,0 m
Distanțarea transversală a ancorelor	1.3 m
Apa freatică	2 m de la h.c.

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

5.3.2. Date de intrare pentru analiză

În tabelele următoare sunt prezentați parametrii geotehnici pentru analizele executate. În mod conservator, analizele au fost efectuate cu parametri drenăți

Strat	Combi-nația	γ [kN/m ³]	c' [kPa]	ϕ' [°]	E'_{vc} [Mpa]	E'_{ur} [Mpa]
De la 0.0 m la 5.0 m	M1	19	20	25	12	17
	M2	19.5	16	20	12	17

γ = greutatea specifică totală
 c' = coeziunea
 ϕ' = unghiul de frecare
 E'_{vc} = modulul elastic
 E'_{ur} = modulul elastic în condiția de descărcare / reîncărcare

Strat	Combi-nația	γ [kN/m ³]	c' [kPa]	ϕ' [°]	E'_{vc} [Mpa]	E'_{ur} [Mpa]
De la 5.0m la 15.0 m	M1	19.5	45	25	18	23
	M2	19.5	36	20	18	23

γ = greutatea specifică totală
 c' = coeziunea
 ϕ' = unghiul de frecare
 E'_{vc} = modulul elastic
 E'_{ur} = modulul elastic în condiția de descărcare / reîncărcare

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Strat	Combi-nația	γ [kN/m ³]	c' [kPa]	ϕ' [°]	E'_{vc} [Mpa]	E'_{ur} [Mpa]
De la 15.0m la 30.0 m	M1	19.5	60	25	25	30
	M2	19.5	48	20	25	30
γ = greutatea specifică totală c' = coeziunea ϕ' = unghiul de frecare E'_{vc} = modulul elastic E'_{ur} = modulul elastic în condiția de descărcare / reîncărcare						

În tabelele următoare sunt rezumate valorile coeficienților presiunii active a pământului K_a și a coeficienților presiunii pasive a pământului K_p .

Strat	Combi-nația	k_{ah}	k_{ph}
De la 0.0 m la 5.0 m	M1	0.359	3.319
	M2	0.44	2.511

Strat	Combi-nația	k_{ah}	k_{ph}
De la 5.0m la 15.0 m	M1	0.359	3.319
	M2	0.44	2.511

Strat	Combi-nația	k_{ah}	k_{ph}
De la 15.0m la 30.0 m	M1	0.359	3.319
	M2	0.44	2.511

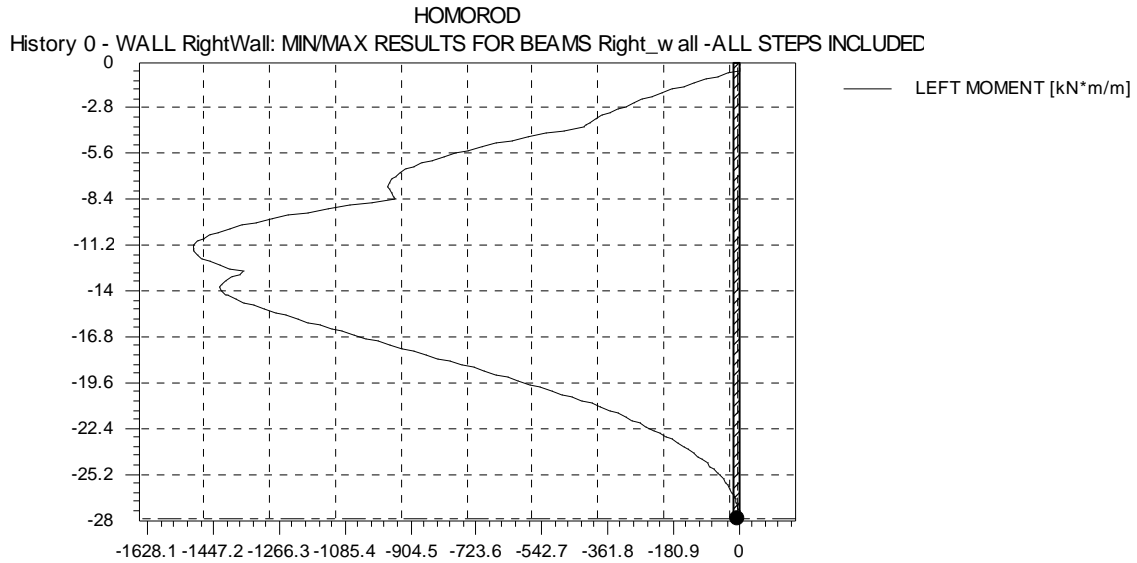
5.3.3. Rezultatele analizelor

În tabelele următoare sunt sintetizate rezultatele principale pentru analizele efectuate. Rezultatele se referă la 1 metru de zid rezemat pe piloni. Tensiunile sunt ca valori nominale.

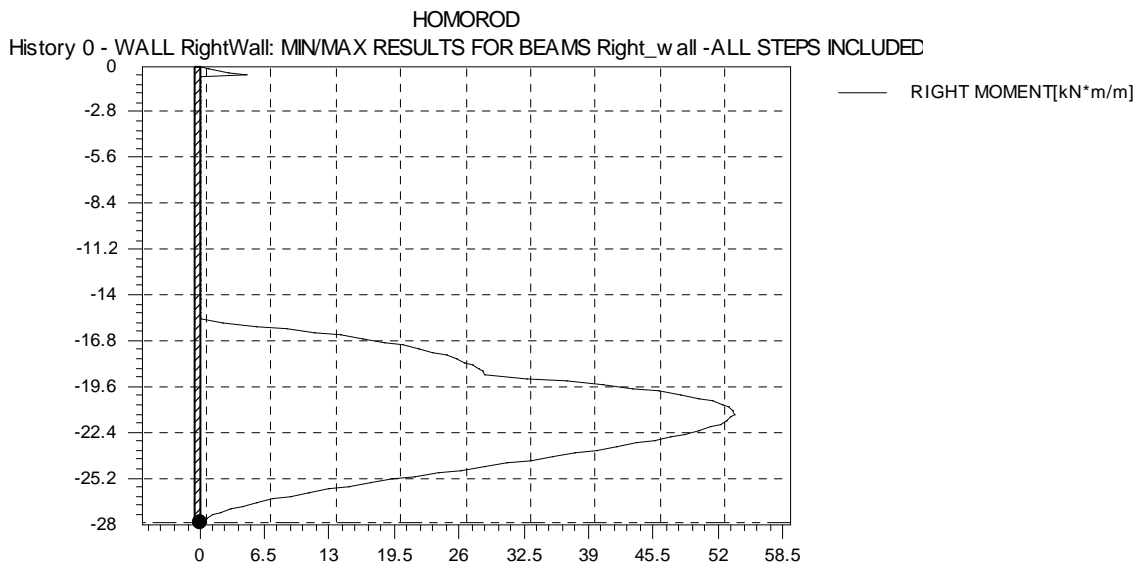
REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

5.3.3.1. Secțiunea 1 (Combinăția GEO)

Înfășurătoarea momentului de încovoiere



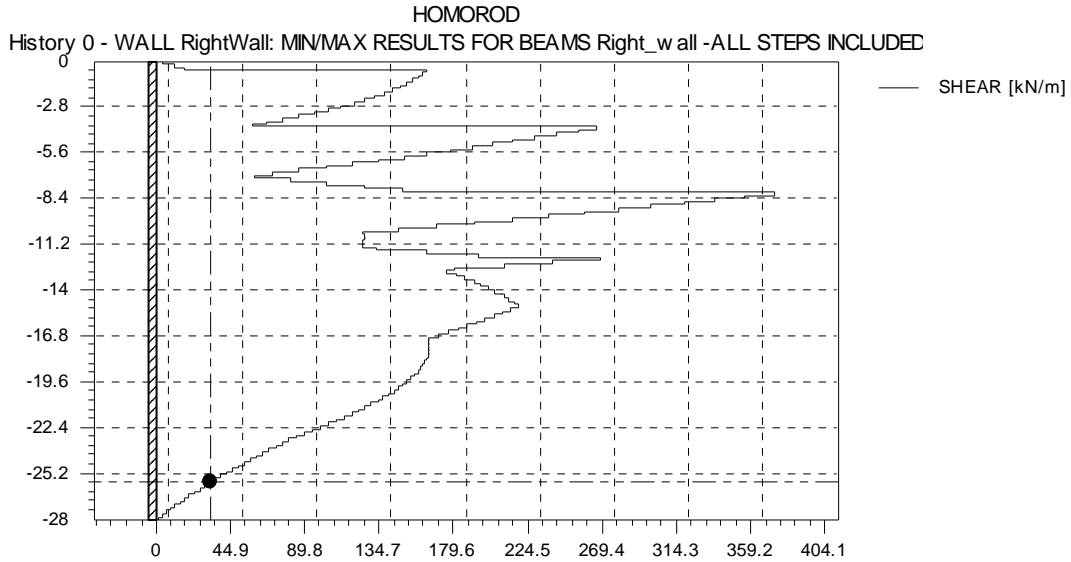
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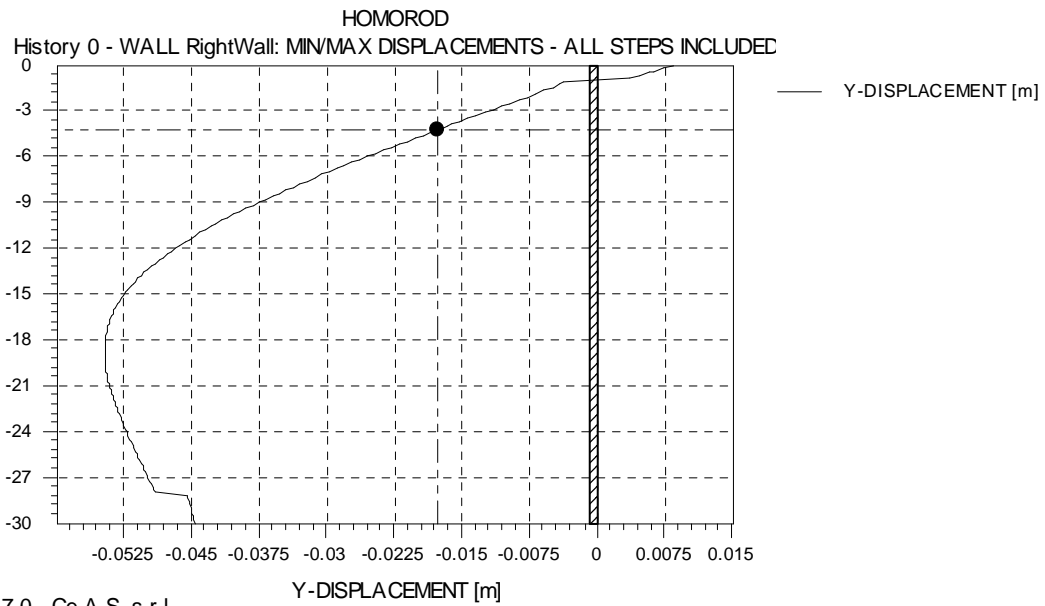
REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Înfășurătoarea de forfecare



PARATIE 7.0 - Ce.A.S. s.r.l

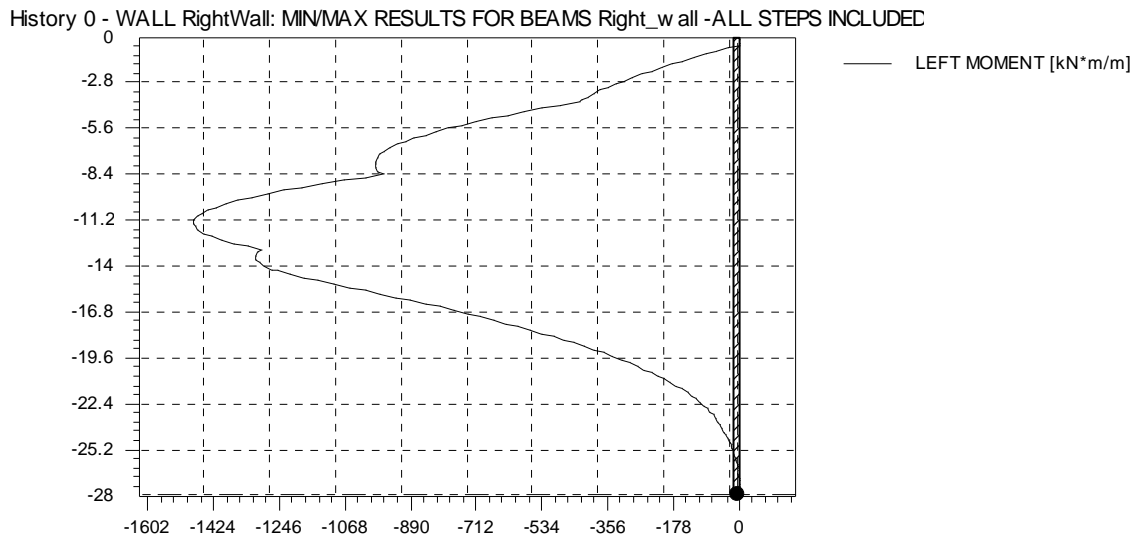
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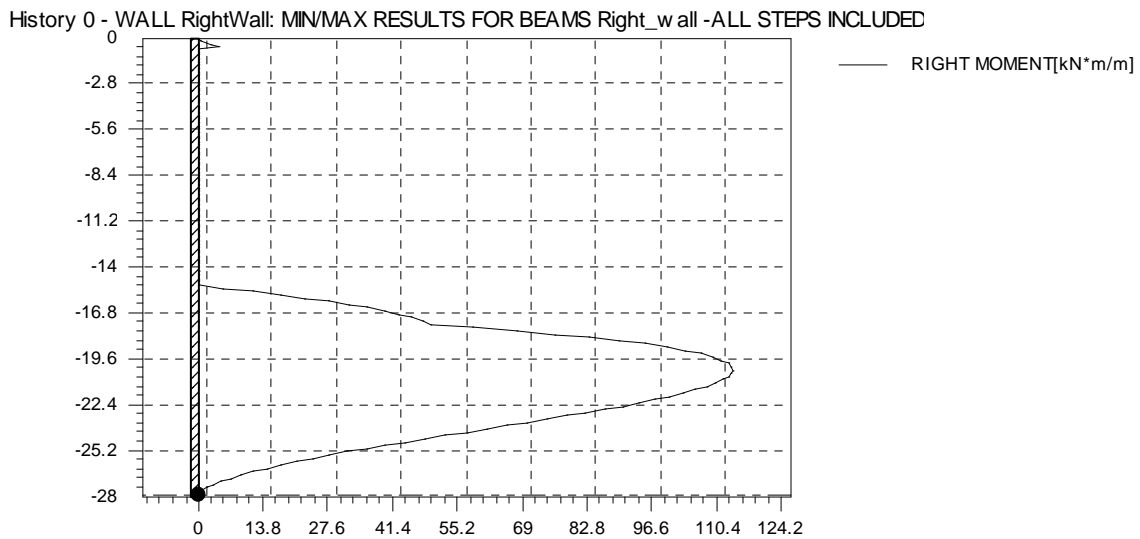
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REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

5.3.3.2. Secțiunea 1 (Combinăția STR)



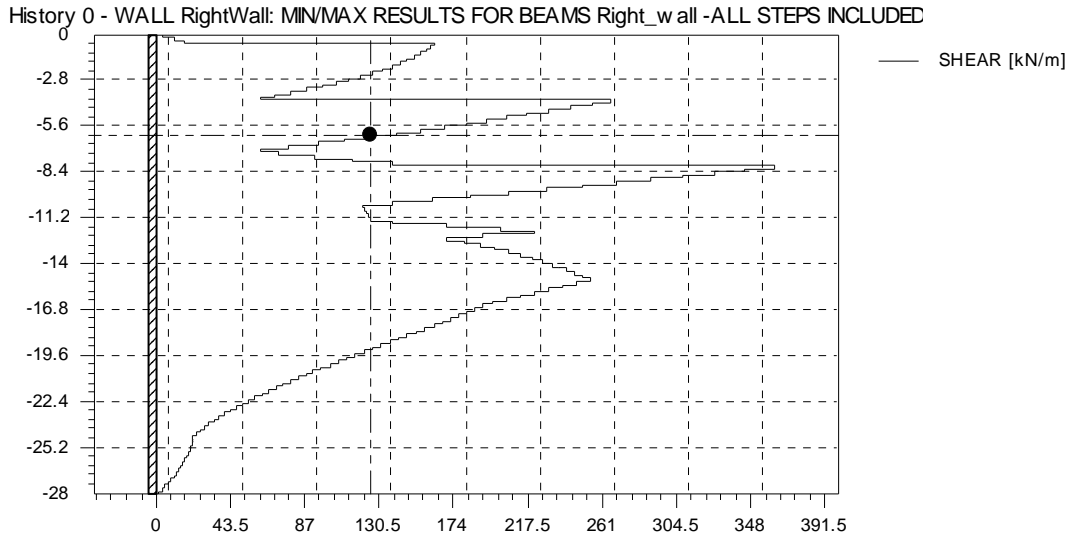
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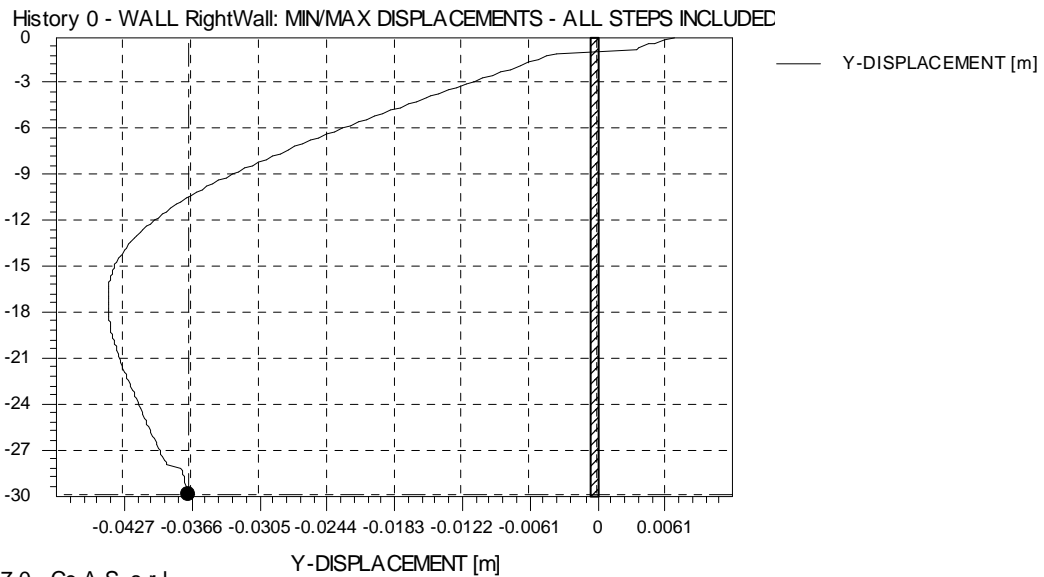
REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Înfășurătoarea de forfecare



PARATIE 7.0 - Ce.A.S. s.r.l

Deplasare

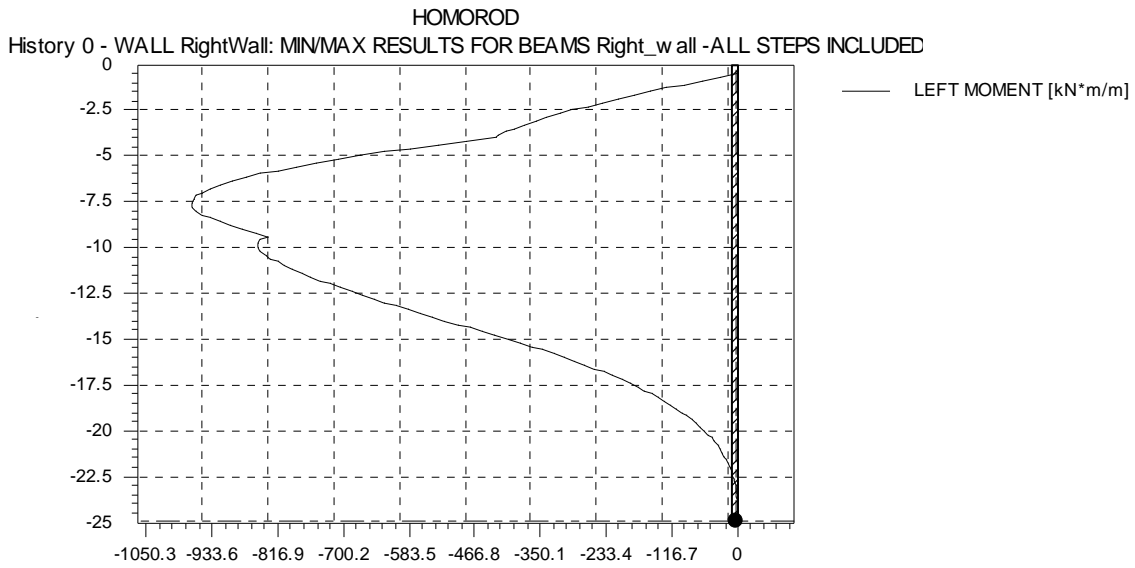


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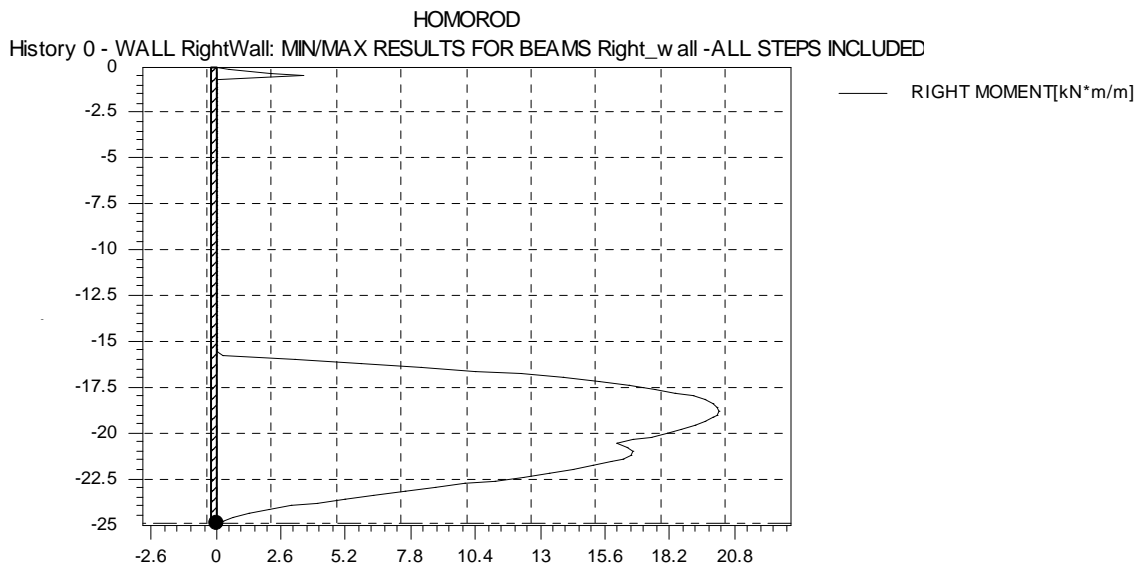
REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

5.3.3.3. Secțiunea 2 (Combinăția GEO)

Înfășurătoarea momentului de încovoiere



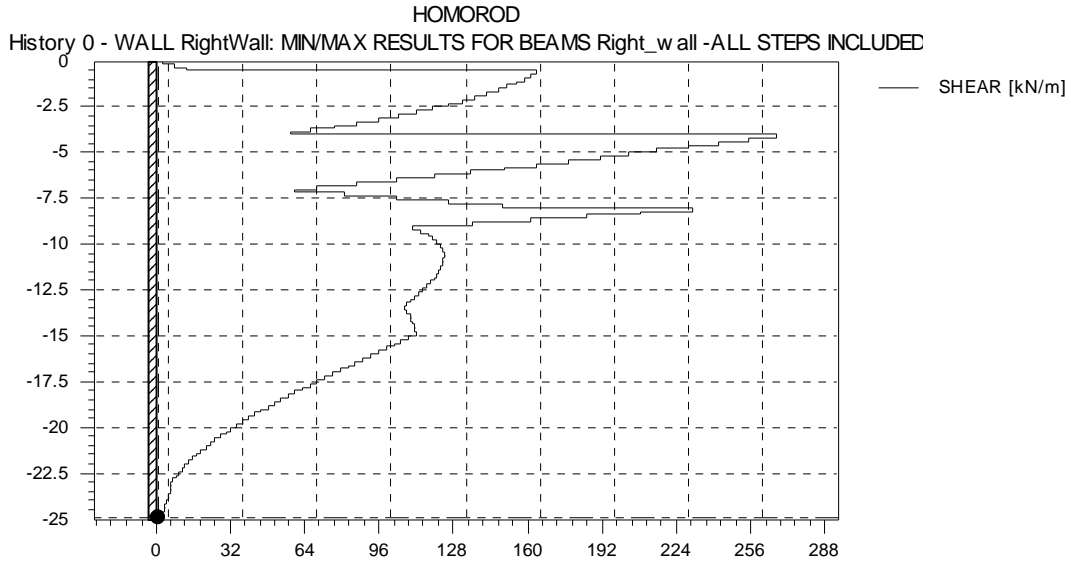
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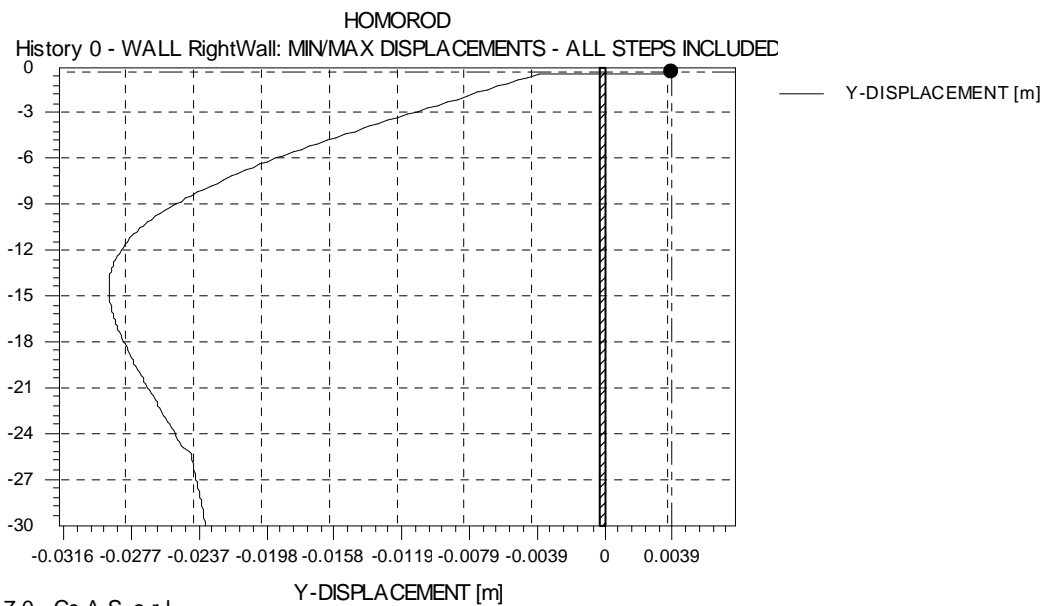
REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Înfășurătoarea de forfecare



PARATIE 7.0 - Ce.A.S. s.r.l

Deplasare

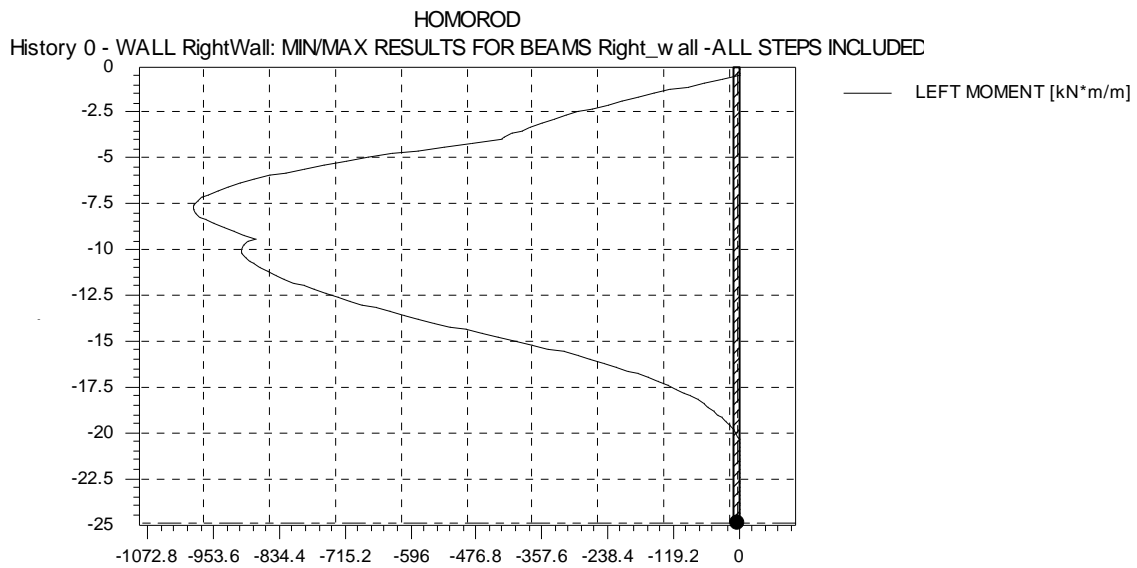


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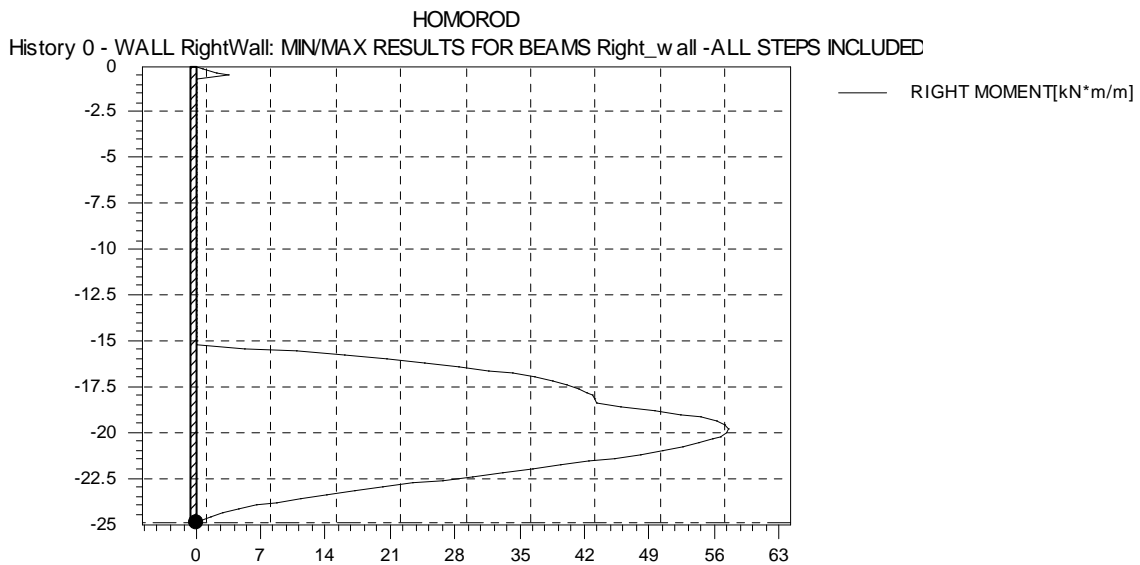
REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

5.3.3.4. Secțiunea 2 (Combinăția STR)

Înfășurătoarea momentului de încovoiere



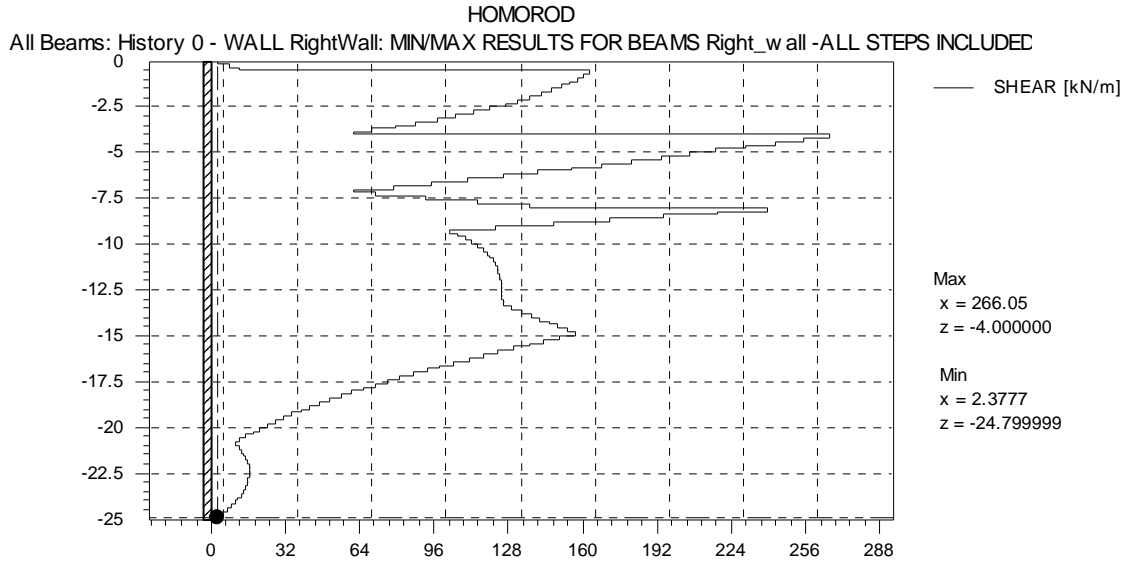
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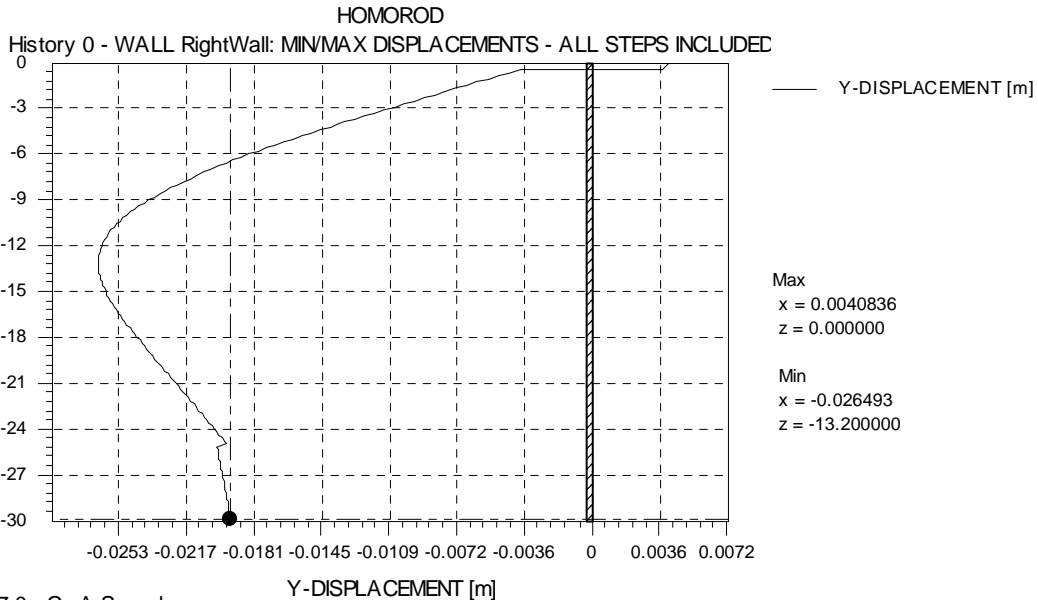
REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Înfășurătoarea de forfecare



PARATIE 7.0 - Ce.A.S. s.r.l

Deplasare

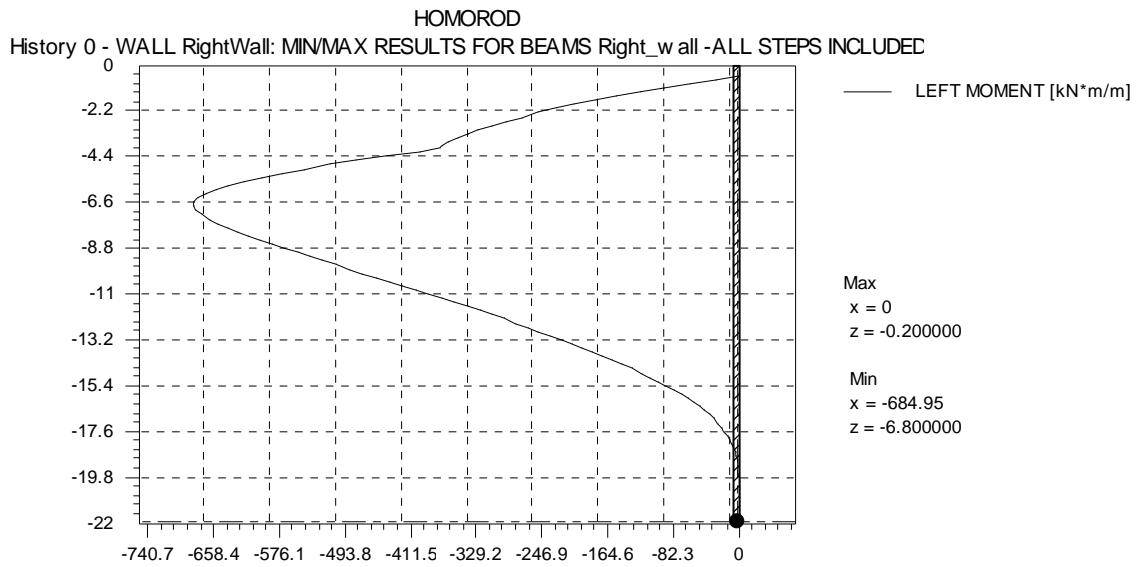


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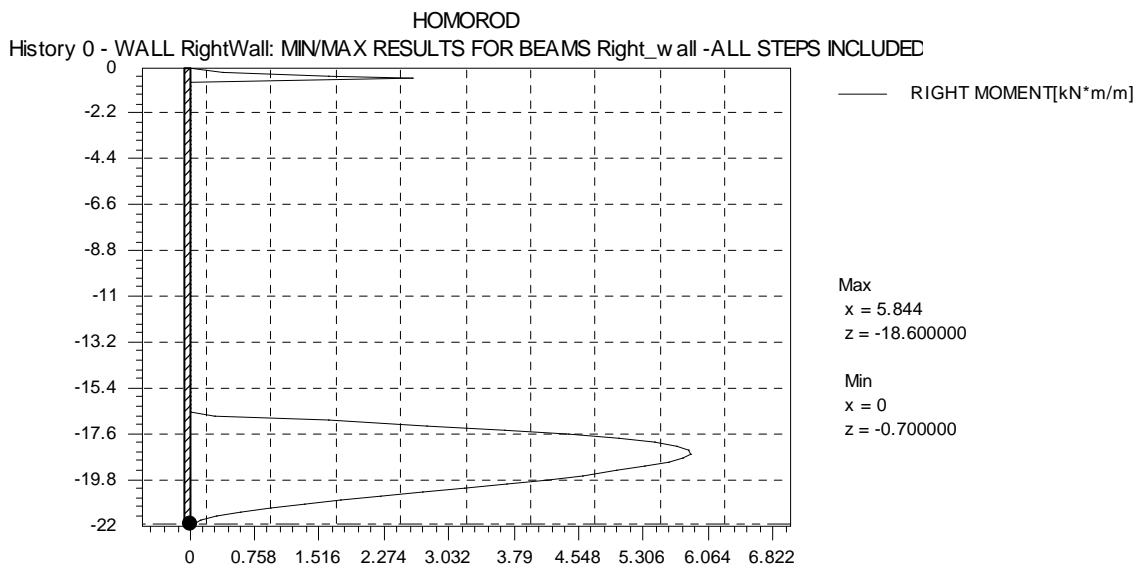
REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

5.3.3.5. Secțiunea 3 (Combinăția GEO)

Înfășurătoarea momentului de încovoiere



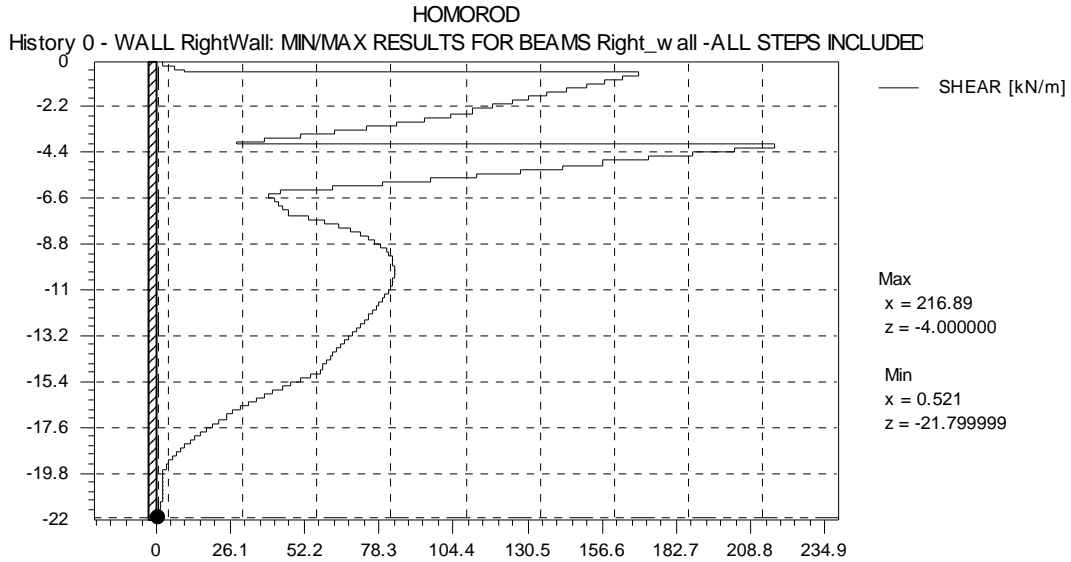
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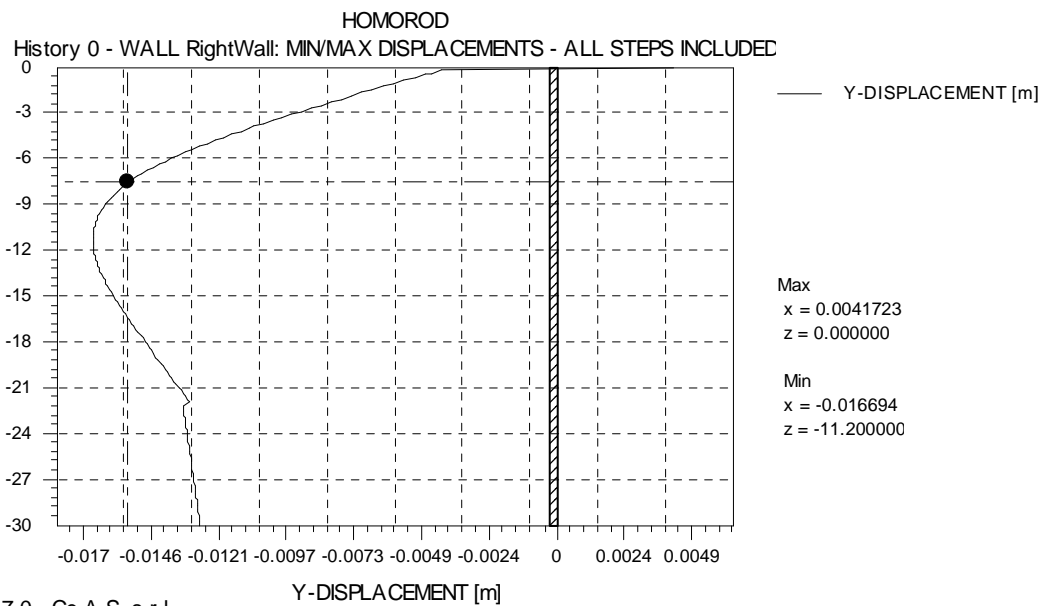
REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Înfășurătoarea de forfecare



PARATIE 7.0 - Ce.A.S. s.r.l

Deplasare

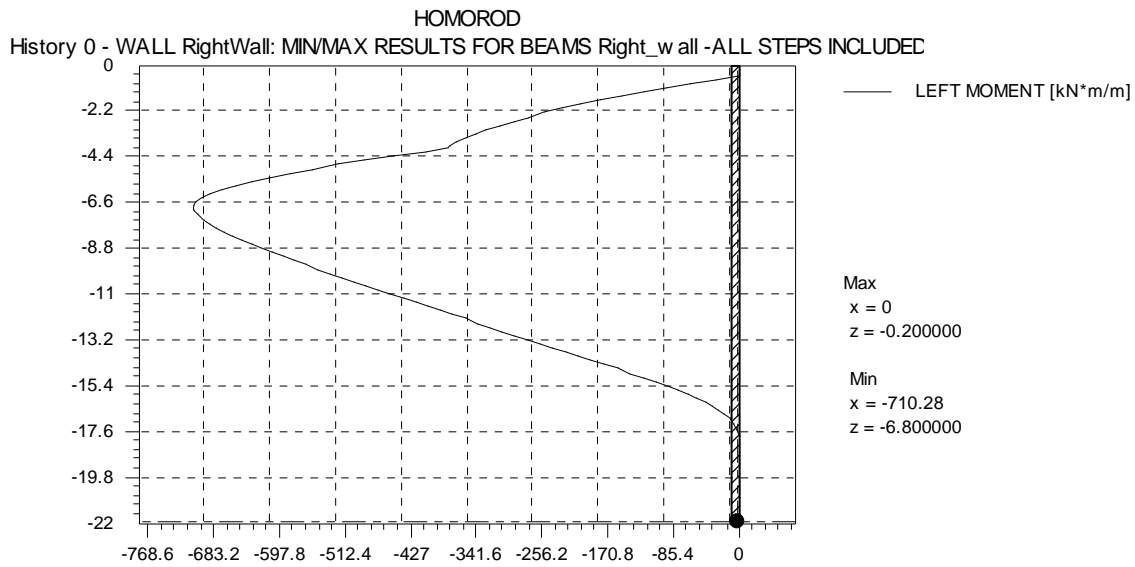


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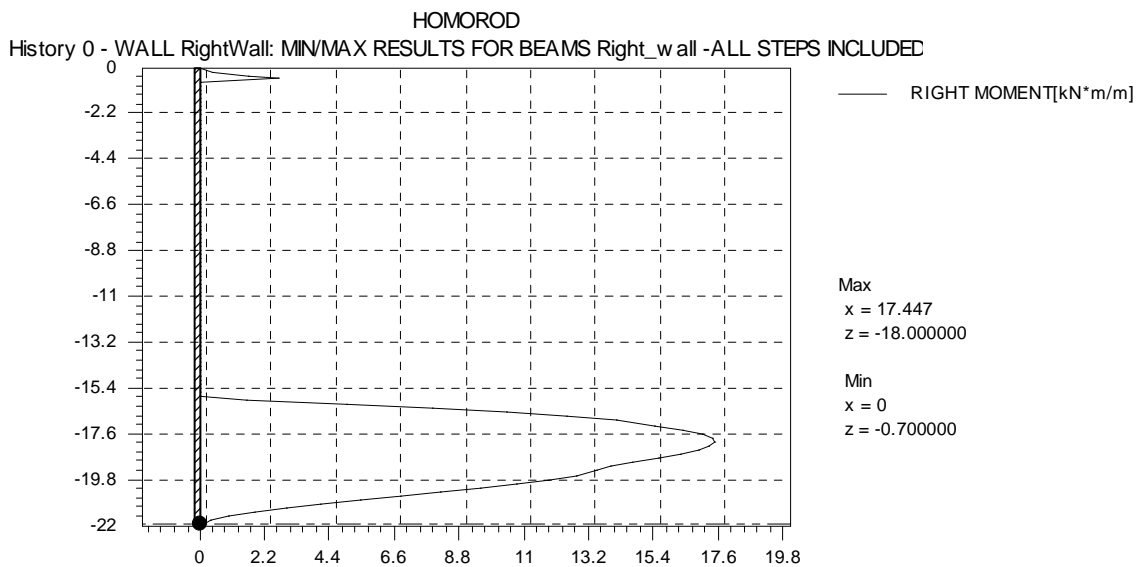
REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

5.3.3.6. Secțiunea 3 (Combinăția STR)

Înfășurătoarea momentului de încovoiere



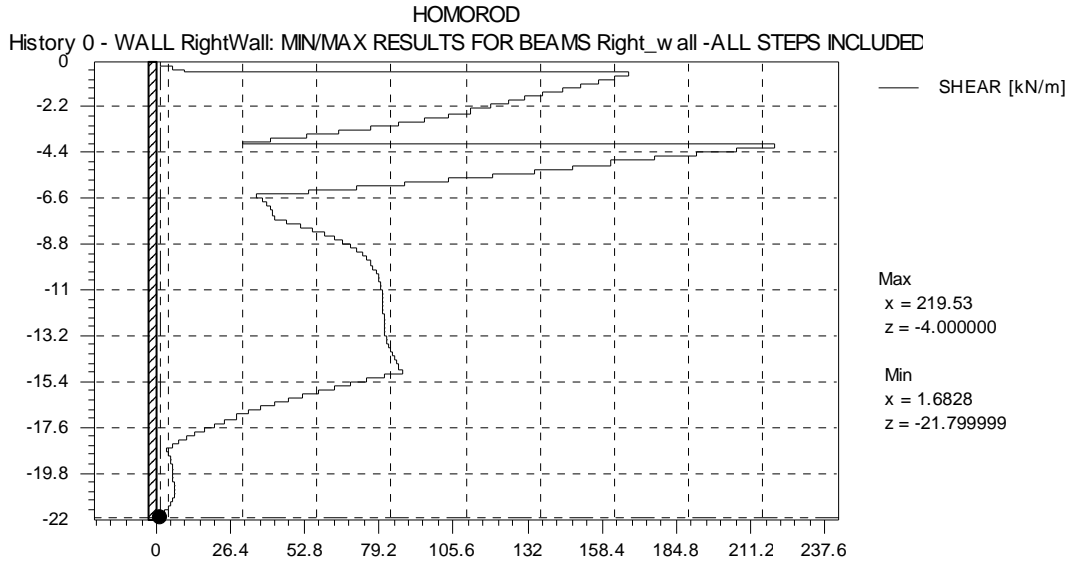
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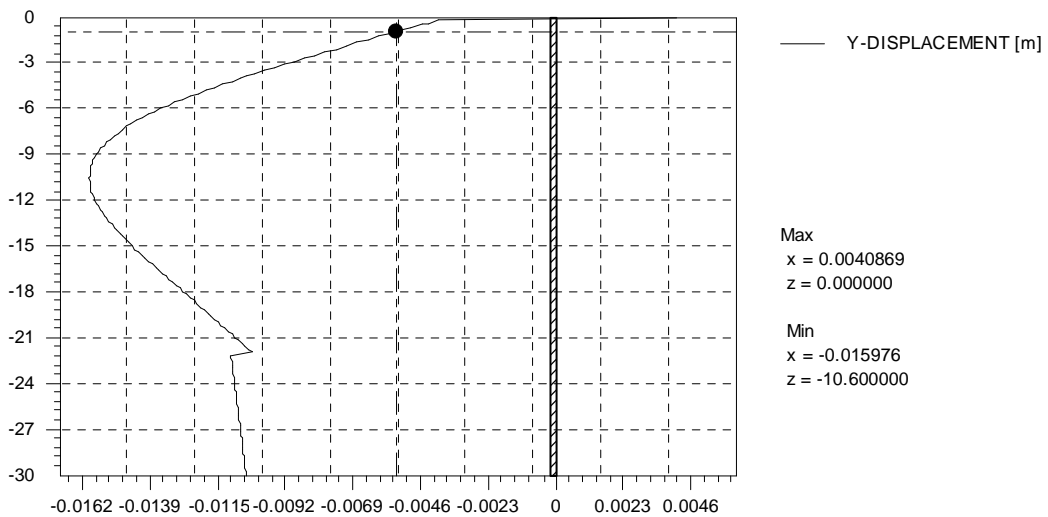
REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Înfășurătoarea de forfecare



PARATIE 7.0 - Ce.A.S. s.r.l

Deplasare



PARATIE 7.0 - Ce.A.S. s.r.l

5.3.4. Verificarea rezistenței elementelor structurale

În această secțiune este prezentată verificarea elementelor structurale. Toate verificările structurale sunt efectuate cu combinația ULS – STR și USL GEO.

5.3.4.1. Piloni

În tabelele următoare sunt sintetizate rezultatele repetării acțiunilor de încovoiere-axială (domeniul M-N) și verificările de forfecare pentru Secțiunea 1, 2 și 3. Pentru a obține valorile de proiectare, valorile luate prin Paratie sunt multiplicare cu distanțarea pilonilor (=1,30 m) și cu factorul parțial ULS privind efectele acțiunilor.

Verificările de forfecare a secțiunii circulare a pilonilor s-a referit la o secțiune rectangulară echivalentă, suprafața efectivă fiind obținută prin relația propusă de Buletinul CEB nr. 137, Anexa 5:

$$b_{w,eq} = 0,9 \cdot \Phi \text{ pilon} = 0,9 \cdot 120 = 108 \text{ cm}$$

$$h_{eq} = 0,45 \cdot \Phi \text{ pilon} + 0,64 \cdot (\Phi \text{ pilon} / 2 - c_p) + c_p = 96,0 \text{ cm}$$

Secțiunea 1 – Încovoierea cu forța axială								
	Secțiunea de verificat	Distanțare	M	Msd	Armare	Nsd	Mrd	S.F.
	m	m	KN*m/m	KN*m	n.	kN	KN*m	-
GEO	-11,4	1,3	1482	1927	35 ϕ 26	322	3129	1,62
STR	-11,4	1,3	1507	2645	35 ϕ 26	322	3129	1,18

Secțiunea 1 - Forfecare							
	Secțiunea de verificat	Distanțare	V	Vsd	Etrieri de grindă	Vrd	S.F.
	m	m	KN/m	KN	n.	KN*m	-
GEO	-8	1,3	400,2	520	Spirală ϕ 14/20 cm	1233	2,37
STR	-8	1,3	377	662	Spirală ϕ 14/20 cm	1233	1,86

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Secțiunea 2 – Încovoierea cu forța axială								
	Secțiunea de verificat	Distanțare	M	Msd	Armare	Nsd	Mrd	S.F.
	m	m	KN*m/m	KN*m	n.	kN	KN*m	-
GEO	-7,6	1,3	971,6	1263	30 ϕ 26	215	2722	2,16
STR	-7,8	1,3	992,5	1742	30 ϕ 26	221	2722	1,56

Secțiunea 2 - Forfecare							
	Secțiunea de verificat	Distanțare	V	Vsd	Etrieri de grindă	Vrd	S.F.
	m	m	KN/m	KN	n.	KN*m	-
GEO	-4	1,3	266	346	Spiral ϕ 12/20 cm	794	2,30
STR	-4	1,3	266	467	Spiral ϕ 12/20 cm	794	1,70

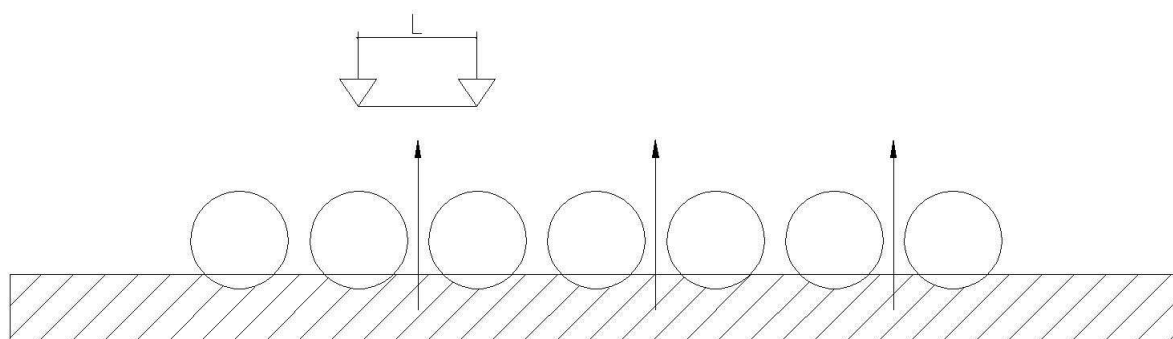
Secțiunea 3 – Încovoierea cu forța axială								
	Secțiunea de verificat	Distanțare	M	Msd	Armare	Nsd	Mrd	S.F.
	m	m	KN*m/m	KN*m	n.	kN	KN*m	-
GEO	-6,8	1,3	684,9	890	26 ϕ 20	192	1551	1,74
STR	-6,8	1,3	710,3	1247	26 ϕ 20	192	1551	1,24

Secțiunea 3- Forfecare							
	Secțiunea de verificat	Distanțare	V	Vsd	Etrieri de grindă	Vrd	S.F.
	m	m	KN/m	KN	n.	KN*m	-
GEO	-4	1,3	216	281	Spiral ϕ 12/20 cm	794	2,83
STR	-4	1,3	219	384	Spiral ϕ 12/20 cm	794	2,07

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5.3.4.2. Picioarele de reazem

Structura poate fi sintetizată cu o grindă simplu rezemată și supusă unei sarcini punctiforme la mijloc. Prin aceasta se formează încastrarea, în timp ce sarcina punctiformă este reprezentată de ancoră.



Secțiunea 1

	T	int.	α	Mx	My
	kPa	m	°	KN*m	KN*m
Nivel IV	659,7	1,3	22,5	198,1	82,0
Nivel III	763,5	1,3	22,5	229,3	95,0
Nivel II	470,1	1,3	22,5	141,1	58,5
Nivel I	317,6	1,3	22,5	95,4	39,5

Secțiunea 2

	T	int.	α	Mx	My
	kPa	m	°	KN*m	KN*m
Nivel III	650,1	1,3	22,5	195,2	80,9
Nivel II	440,8	1,3	22,5	132,4	54,8
Nivel I	336,7	1,3	22,5	101,1	41,9

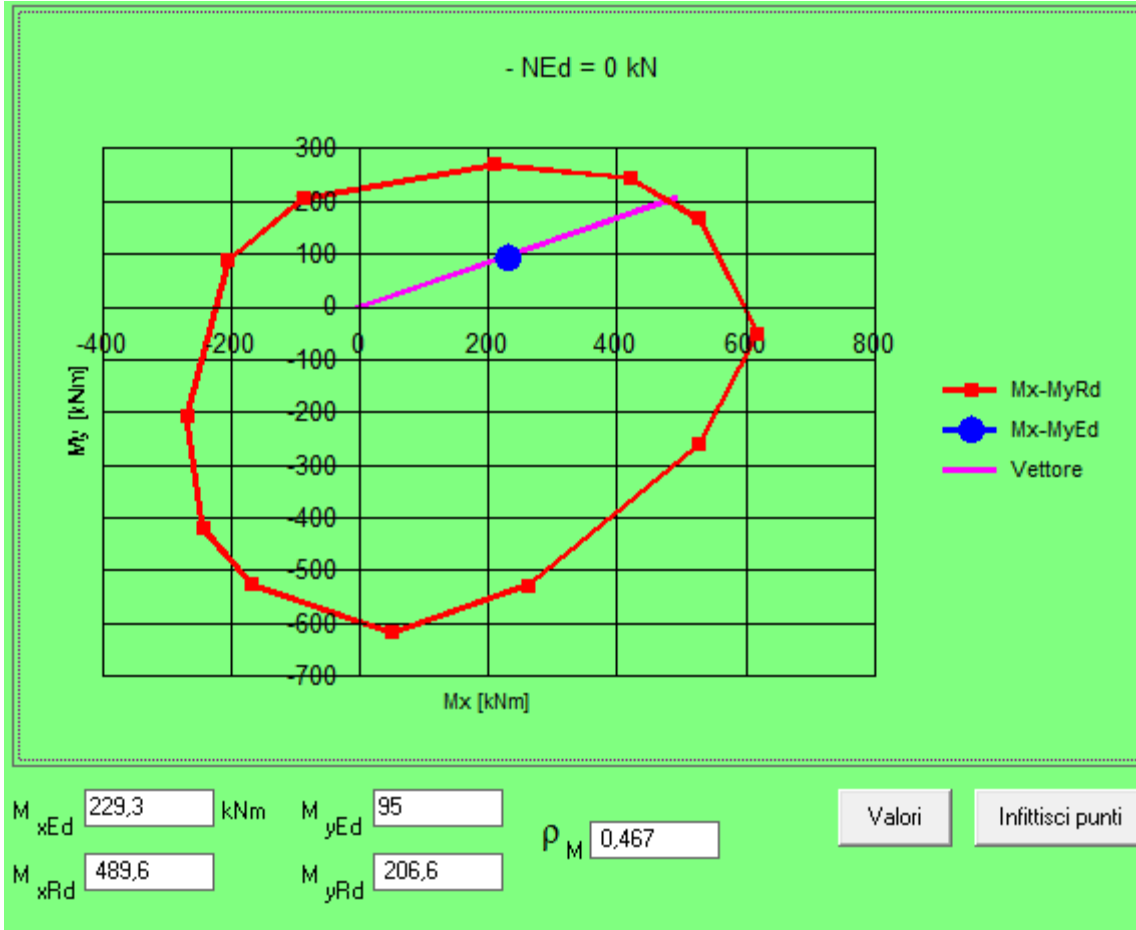
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Secțiunea 3

	T	int.	α	Mx	My
	kPa	m	°	KN*m	KN*m
Nivel II	399,9	1,3	22,5	120,1	49,7
Nivel I	343,4	1,3	22,5	103,1	42,7

Caracteristici		
Materiale		
C 25/30		
fcd	Mpa	14,17
B450C		
fyd	MPa	391
Secțiune		
b	cm	60
h	cm	70
As	cm ²	21.24
A's	cm ²	21.24
c	cm	5
d	cm	65
Msd _x	kN*m	229.3
Msd _y	kN*m	95

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Armare de forfecare

Caracteristici		
Materiale		
C 25/30		
fcd	Mpa	14,17
B450C		
fyd	MPa	391
Secțiune		
b	cm	60
h	cm	70
As	cm ²	21.24
A's	cm ²	21.24
c	cm	5
d	cm	65
Tsd	kN*m	381.5
Ast	cm ² /m	11.31
ctgθ =		2,5
θ	(°)	20.4
V _{Rsd}	kN	880,96
V _{Rcd}	kN	996,21
VRdu	kN	880,96

5.3.5. Proiectarea ancorelor

În lucrarea prezentă, pentru a defini o metodă de proiectare pentru fundația ancorei, a fost luată în considerare metoda propusă de Bustamante și Doix (1985). Rezistența laterală S este determinată prin:

$$S = \pi \cdot ds \cdot Ls \cdot s$$

unde ds este diametrul echivalent al fundației ancorei, Ls este lungimea zonei injectate, și s este rezistența tangențială la interfața dintre zona injectată și solul înconjurător. În ecuațiile anterioare s-a asumat $ds = \alpha \cdot d$, unde d este diametrul perforației și α este un coeficient de creștere. Valorile rezistenței tangențiale pe suprafața unitară s corespund interfeței dintre zona injectată și sol depind atât de natura și caracteristicile solului cât și de tehnologia utilizată și pot fi ușor evaluate prin diagramele corespunzătoare raportate de Bustamante și Doix (1985).

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Secțiunea 1

Parametru	Simbol	U.m.	Nivel IV	Nivel III	Nivel II	Nivel I
			-12 m	-8 m	-4 m	-0,5 m
Rezistența caracteristică la rupere prin întindere	f _{ptk}	N/mm	1860	1860	1860	1860
Limita de curgere la 0.1 % elongație	f _{p1k}	N/mm	1670	1670	1670	1670
Număr de toroane din sârmă	n	-	6	6	6	6
Suprafața unitară a toronului din sârmă	A _t	mm ²	140	140	140	140
Suprafața totală a toroanelor din sârmă	A	mm ²	840	840	840	840
Diametrul găurii de foraj	D _p	m	0,2	0,2	0,2	0,2
Unghiul	θ	°	22,5	22,5	22,5	22,5
Coeficientul lui Bustamante și Doix	α		1,2	1,2	1,2	1,2
Rezistență tangențială pe suprafață unitară	q _s	kPa	130	130	130	130
Distanțarea ancorelor	s	m	1,3	1,3	1,3	1,3
Sarcina care acționează pe ancoră (combinația STR)	T _k	kN	660	764	470	318
Sarcina care acționează pe ancoră (combinația GEO)	T _k	kN	520	601	361	237
Lungimea zonei injectate	L _{ck}	m	9,3	10,7	6,6	4,5
Înălțimea zidului sprijinit pe piloni	h _{pw}	m	28,0	28,0	28,0	28,0
Altitudinea ancorei	h _a	m	12,0	8,0	4,0	0,5
Lungimea liberă	L _f	m	9	10,8	13,0	14,9
Lungimea totală a ancorei	L _t	m	17,9	21,5	19,6	19,4
Tensiunea inițială a ancorei	T _i	KN	390	390	195	195
Rezistența caracteristică de rupere la întindere a unei singure ancore	R _k	kN	1562	1562	1562	1562
Rezistența extremă de rupere la întindere a unei singure ancore	R _d	kN	1420	1420	1420	1420

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Secțiunea 2

Parametru	Simbol	U.m.	Nivel III	Nivel II	Nivel I
			-8 m	-4 m	-0,5 m
Rezistența caracteristică la rupere prin întindere	f _{ptk}	N/mm	1860	1860	1860
Limita de curgere la 0.1 % elongație	f _{p1k}	N/mm	1670	1670	1670
Număr de toroane din sârmă	n	-	6	6	6
Suprafața unitară a toronului din sârmă	A _t	mm ²	140	140	140
Suprafața totală a toroanelor din sârmă	A	mm ²	840	840	840
Diametrul găurii de foraj	D _p	m	0,2	0,2	0,2
Unghiul	θ	°	22,5	22,5	22,5
Coeficientul lui Bustamante și Doix	α		1,2	1,2	1,2
Rezistență tangențială per suprafață unitară (q _s)	q _s	kPa	130	130	130
Distanțarea ancorelor	s	m	1,3	1,3	1,3
Sarcina care acționează pe ancoră (combinația STR)	T _k	kN	650	441	337
Sarcina care acționează pe ancoră (combinația GEO)	T _k	kN	490	334	251
Lungimea zonei injectate	L _{ck}	m	9,1	6,2	4,7
Înălțimea zidului sprijinit pe piloni	h _{pw}	m	25,0	25,0	25,0
Altitudinea ancorei	h _a	m	8,0	4,0	0,5
Lungimea liberă	L _f	m	9,2	11,4	13,3
Lungimea totală a ancorei	L _t	m	18,3	17,6	18,0
Tensiunea inițială a ancorei	T _i	KN	390	195	195
Rezistența caracteristică de rupere la întindere a unei singure ancore	R _k	kN	1562	1562	1562
Rezistența extremă de rupere la întindere a unei singure ancore	R _d	kN	1420	1420	1420

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Secțiunea 3

Parametru	Simbol	U.m.	Nivel II	Nivel I
			-4 m	-0,5 m
Rezistența caracteristică la rupere prin întindere	f _{ptk}	N/mm ²	1860	1860
Limita de curgere la 0.1 % elongație	f _{p1k}	N/mm ²	1670	1670
Număr de toroane din sârmă	n	-	6	6
Suprafața unitară a toronului din sârmă	A _t	mm ²	140	140
Suprafața totală a toroanelor din sârmă	A	mm ²	840	840
Diametrul găurii de foraj	D _p	m	0,2	0,2
Unghiul	θ	°	22,5	22,5
Coeficientul lui Bustamante și Doix	α		1,2	1,2
Rezistență tangențială per suprafață unitară (q _s)	q _s	kPa	130	130
Distanțarea ancorelor	s	m	1,3	1,3
Sarcina care acționează pe ancoră (combinația STR)	T _k	kN	400	343
Sarcina care acționează pe ancoră (combinația GEO)	T _k	kN	300	257
Lungimea zonei injectate	L _{ck}	m	5,6	4,8
Înălțimea zidului sprijinit pe piloni	h _{pw}	m	25,0	25,0
Altitudinea ancorei	h _a	m	4,0	0,5
Lungimea liberă	L _f	m	11,4	13,3
Lungimea totală a ancorei	L _t	m	17,0	18,1
Tensiunea inițială a ancorei	T _i	KN	195	195
Rezistența caracteristică de rupere la întindere a unei singure ancore	R _k	kN	1562	1562
Rezistența extremă de rupere la întindere a unei singure ancore	R _d	kN	1420	1420

6. CRITERIILE DE PROIECTARE ȘI ANALIZA STRUCTURILOR PERMANENTE

6.3. Descrierea structurilor permanente pentru intrarea tunelului

Structurile permanente pentru intrarea tunelului de pe latura Homorod sunt descrise după cum urmează:

	LATURA HOMOROD	
	TUNEL ARTIFICIAL	CANAL
	L (m)	L (m)
LINIA 1 HOMOROD	52.89	15,00
LINIA 2 HOMOROD	71.85	15,00

Structurile permanente sunt construite după executarea unei excavații sprijinită de zidul de reazem pe piloni și apoi acestea vor fi acoperite de excavarea solului.

6.4. Criteriile de proiectare

Tunelul artificial a fost verificat în secțiunea cu solul maxim de acoperire. Rezultatele acestei analize au fost extinse la portalul de intrare a tunelului.

Calculul a fost făcut cu programul FEM versiunea Nelineară 14.2 SAP 2000, distribuită de Computers and Structures, Inc., iar verificările au fost efectuate la ULS și SLS.

În continuare, sunt explicate criteriile pentru determinarea cazurilor de sarcini și verificarea așteptată de la Eurocod 2.

6.3. Cazurile de sarcină

6.3.1. Sarcini verticale

Sarcinile verticale luate în considerare în analize sunt:

- Greutatea proprie a căptușelii;
- Solul acoperitor.

Greutatea volumetrică a betonului, conform EN 1991-1-1, se presupune egală cu 24 kN/m³ și 25 kN/m³ pentru beton nearamat și respectiv armat.

Sarcina verticală datorată solului acoperitor este calculată prin ecuația următoare:

$$P_v = \gamma H$$

unde:

γ = greutatea specifică totală;

H = adâncimea solului acoperitor (raportată la coronament).

6.3.2. Sarcini orizontale

Sarcinile orizontale P_h , care acționează pe termen lung și sunt variabile în funcție de adâncimi, sunt estimate după cum urmează:

$$P_h = K P_v + K \gamma z$$

unde:

g = greutatea volumetrică;

K = coeficientul de presiune a pământului;

z = înălțimea totală a tunelului.

Dacă tunelul se confruntă cu un strat de apă, se va lua în considerare presiunea hidrostatică prin evaluarea presiunilor efective ale solului, în plus față de cea hidrostatică.

6.3.3.Sarcini seismice

Efectele seismice asupra tunelului căptușit artificial sunt introduce în calcul prin analiza statică echivalentă:

- $a_g = 0,16g$
- categoria de sol: C
- $S = 1,50$; $ST = 1,0$
- Coeficientul seismic orizontal (k_h) este
$$k_h = S \times ST \times a_g / g = 1,50 \times 1,0 \times 0,16 = 0,24$$

Punctul de aplicare trebuie să fie luat la jumătatea laturii verticale a pilonului stâng și drept. În plus față de împingerea terenului, tunelul este supusă la forțele de inerție:

$$F_i = k_h \times W$$

unde W sunt greutatea cu sarcinile lor uzate și permanente.

Aceste sarcini sunt aplicate pe o direcție sau alta în funcție de situația solicitărilor pentru mai multă structură.

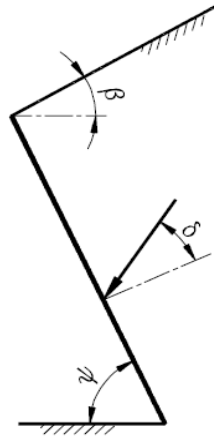
6.3.4. Presiunile seismice ale pământului (Mononobe–Okabe)

Aceasta a fost o extindere a metodei Coulomb în cazul static pentru determinarea presiunilor pământului luând în considerare echilibrul prisme triunghiulare de alunecare. Metoda este acum cunoscută în mod obișnuit ca și metoda Mononobe– Okabe. Pentru a calcula presiunea activă și pasivă a pământului prin forțele pseudostatice precum forțele seismice ce acționează în solul de umplutură fără coeziune, în analiză a fost asumată suprafața planară de rupere. Presiunea seismică activă și pasivă a pământului (P_{ae} , P_{pe}) poate fi calculată prin ecuația Mononobe–Okabe după cum urmează:

$$P_{ae}, P_{pe} = \frac{1}{2} \gamma H^2 (1 - kv) K$$

Presiunea activă a pământului:

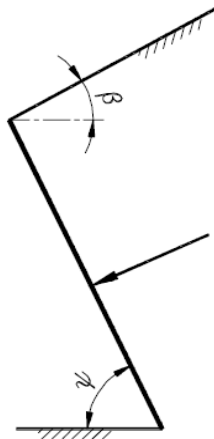
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$$\beta \leq \phi - \theta: \quad K = \frac{\text{sen}^2 (\psi + \phi - \theta)}{\cos \theta \text{sen}^2 \psi \text{sen} (\psi - \theta - \delta) \left[1 + \sqrt{\frac{\text{sen} (\phi + \delta) \text{sen} (\phi - \beta - \theta)}{\text{sen} (\psi - \theta - \delta) \text{sen} (\psi + \beta)}} \right]^2}$$

$$\beta > \phi - \theta: \quad K = \frac{\text{sen}^2 (\psi + \phi - \theta)}{\cos \theta \text{sen}^2 \psi \text{sen} (\psi - \theta - \delta)}$$

Presiunea pasivă a pământului:



$$K = \frac{\text{sen}^2 (\psi + \theta - \phi)}{\cos \theta \text{sen}^2 \psi \text{sen} (\psi + \theta) \left[1 - \sqrt{\frac{\text{sen} \phi \text{sen} (\phi + \beta - \theta)}{\text{sen} (\psi + \beta) \text{sen} (\psi + \theta)}} \right]^2}$$

$$\tan \vartheta = \frac{k_h}{1 \mp k_v}$$

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

unde

γ = greutatea specifică a solului;

H = înălțimea verticală a zidului;

K = coeficientul de presiune seismică activă și pasivă a pământului;

ϕ = unghiul de frecare a solului;

δ = unghiul de frecare a zidului;

β = înclinarea zidului față de verticală;

i = înclinarea terenului față de orizontală;

kh = coeficientul de accelerație seismică în direcție orizontală; kv = coeficientul de accelerație seismică în direcție verticală.

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

6.4. Caracterizarea materialului și criteriul de verificare

6.4.1. Starea limită extremă

Valorile de proiectare ale cazurilor de sarcină se găsesc prin aplicarea coeficientului prezentat în tabelul următor, în conformitate cu EN 1990:2002 (E): Baza proiectării structurale

Table A1.2(B) - Design values of actions (STR/GEO) (Set B)

Persistent and transient design situations	Permanent actions		Leading variable action	Accompanying variable actions (*)		Persistent and transient design situations	Permanent actions		Leading variable action (*)	Accompanying variable actions (*)	
	Unfavourable	Favourable		Main (if any)	Others		Unfavourable	Favourable		Action	Main
(Eq. 6.10)	$\gamma_{G,sup} G_{k,sup}$	$\gamma_{G,inf} G_{k,inf}$	$\gamma_{Q,1} Q_{k,1}$		$\gamma_{Q,i} \psi_{0,i} Q_{k,i}$	(Eq. 6.10a)	$\gamma_{G,sup} G_{k,sup}$	$\gamma_{G,inf} G_{k,inf}$		$\gamma_{Q,1} \psi_{0,1} Q_{k,1}$	$\gamma_{Q,i} \psi_{0,i} Q_{k,i}$
						(Eq. 6.10b)	$\xi \gamma_{G,sup} G_{k,sup}$	$\gamma_{G,inf} G_{k,inf}$	$\gamma_{Q,1} Q_{k,1}$		$\gamma_{Q,i} \psi_{0,i} Q_{k,i}$

(*) Variable actions are those considered in Table A1.1

NOTE 1 The choice between 6.10, or 6.10a and 6.10b will be in the National annex. In case of 6.10a and 6.10b, the National annex may in addition modify 6.10a to include permanent actions only.

NOTE 2 The γ and ξ values may be set by the National annex. The following values for γ and ξ are recommended when using expressions 6.10, or 6.10a and 6.10b.
 $\gamma_{G,sup} = 1,35$
 $\gamma_{G,inf} = 1,00$
 $\gamma_{Q,1} = 1,50$ where unfavourable (0 where favourable)
 $\gamma_{Q,i} = 1,50$ where unfavourable (0 where favourable)
 $\xi = 0,85$ (so that $\xi \gamma_{G,sup} = 0,85 \times 1,35 \approx 1,15$).
 See also EN 1991 to EN 1999 for γ values to be used for imposed deformations.

NOTE 3 The characteristic values of all permanent actions from one source are multiplied by $\gamma_{G,sup}$ if the total resulting action effect is unfavourable and $\gamma_{G,inf}$ if the total resulting action effect is favourable. For example, all actions originating from the self weight of the structure may be considered as coming from one source ; this also applies if different materials are involved.

NOTE 4 For particular verifications, the values for γ_G and γ_Q may be subdivided into γ_g and γ_q and the model uncertainty factor $\gamma_{\delta,i}$. A value of $\gamma_{\delta,i}$ in the range 1,05 to 1,15 can be used in most common cases and can be modified in the National annex.

Verificările sunt efectuate pentru repetarea forțelor axiale de încovoiere (domeniul M-N) și a forțelor de forfecare. Diagrama parabolă-rectangulară de tensiune-deformație se presupune că descrie comportarea betonului ($\epsilon_2 = 0,2\%$ și $\epsilon_{cu} = 0,35\%$), plastică perfect elastică pentru armăturile din oțel ($\epsilon_{yd} = 0,186\%$ și $\epsilon_{su} = 1\%$). Rezistența betonului la tensiune a fost asumată ca fiind egală cu zero.

6.4.2. Starea limită de deservire

Acțiunile de proiectare pentru starea limită de deservire sunt obținute aplicând coeficientul unitar la cazurile de sarcină persistentă. Pentru cazurile de sarcină accidentală sunt incluși coeficienții ψ_i , în conformitate cu Eurocod, pentru combinațiile frecvente și cvasi-permanente.

Verificarea diferitelor stări limită de deservire este efectuată ca limitare a tensiunilor și a lățimii crăpăturilor.

În conformitate cu EN 1992-1-1, conform condițiilor de sarcini de serviciu, este cerută limitarea eforturilor pentru:

- Eforturile de compresie în beton;
- Eforturile de întindere în oțel.

Eforturile de compresie în beton trebuie să fie mai mici de $k_2 f_{ck}$ ($k_2=0,45$), în timp ce tensiunea în barele de oțel poate fi $k_3 f_{yk}$ ($k_3=0,8$).

Starea limită de verificare a crăpăturilor presupune că trebuie să fie respectată următoarea verificare:

$$w_k \leq w_{lim}$$

Unde w_k denotă lățimea caracteristică a crăpăturii calculată așa cum se explică în EN 1992-1-1 paragraf 7.3.4 și fiind egală cu 0,3 mm.

Verificarea este efectuată asumând următorii parametri:

- $k_1=0,4$
- $k_2=0,8$
- $k_3=0,5$
- $f_{ctm}=3,2$ MPa

6.5. Metoda de calcul

A fost asumată metoda de reacție hiperstatică pentru a stabili acțiunile interne în căptușeala de beton prin modelul numeric de element finit monodimensional. Modelul a fost creat pentru a reprezenta o adâncime unitară (1,0 m) de tunel, precizând geometria secțiunii la elementele de grindă. Pentru a simula corect repetarea de structură-sol, pentru fiecare nod al modelului de element finit, se precizează suportii radiali de rigidizare. Valoarea de rigiditate se determină din modulul K de reacție a solului.

La radierul tunelului, K a fost calculat prin formula lui Galerkin pentru suprafață curbilinie după cum urmează:

$$K = E / [Re_q \times (1+\nu)] [F/L^3]$$

cu:

E = modulul de elasticitate a solului;

ν = coeficientul Poisson al solului;

Re_q = raza echivalentă de curbura a tunelului.

La piloni, K a fost calculat cu formula Bussinesque pentru suprafață liniară după cum urmează:

$$K = E / [(1+\nu^2) \times B \times C_d] [F/L^3]$$

E = modulul de elasticitate a solului;

ν = coeficientul Poisson al solului;

B = lățimea elementului structural.

C_d = coeficient de formă

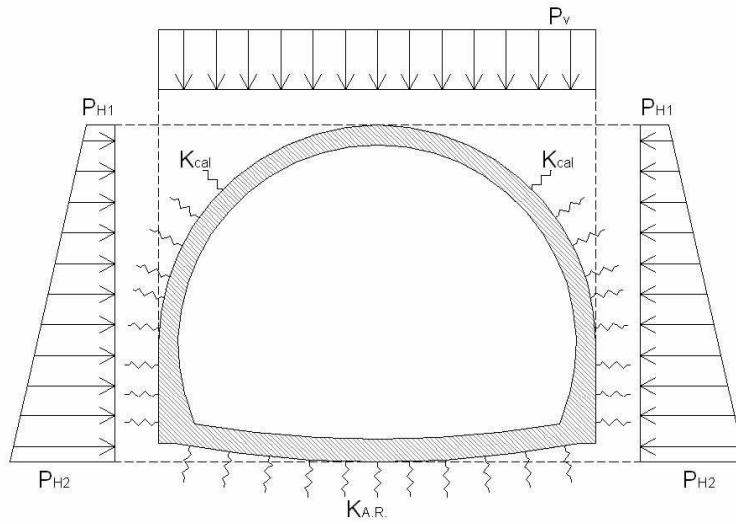
6.6. Cazuri analizate

În secțiunea tipică există o sarcină verticală uniformă și sarcini orizontale simetrice, toate definite ca permanente în conformitate cu Eurocod. Comportarea mecanică a solului este reprezentată prin suportii radiali, activi numai la compresie.

Tabelele următoare prezintă valorile sarcinilor și parametrilor folosiți în calcul:

USL			
Descriere	Simbol	U.M.	Valoare
Greutatea specifică a solului	γ	kN/m ³	21
Raza tunelului	R	m	5,1
Modulul de elasticitate a solului	Ed	kN/m ²	30000
Formula de rigiditate a lui Galerkin	Ka.r.	kN/m ³	4525
Formula de rigiditate a lui Boussinesque	Kcal	kN/m ³	13187
Presiunea activă a pământului (Caquot și Kerisel)	ka	-	0,44
Accelerația	a/g	-	0,16
Coeficient care ia în considerare aspectele stratigrafice și topografice	S	-	1,50
Coeficient seismic orizontal	kh	-	0,240
Coeficient seismic vertical	kv	-	0,120
Presiunea dinamică a pământului (Mononobe și Okabe)	kas	-	0,60

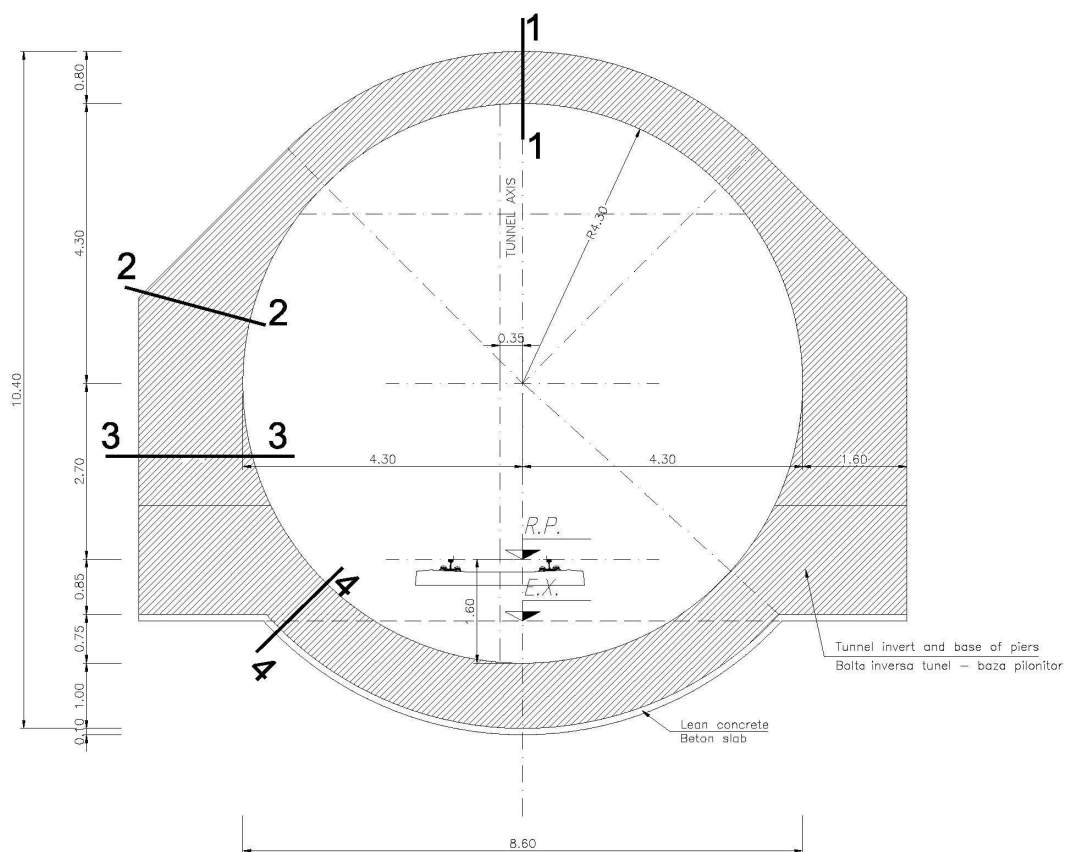
REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.



P_v	P_{vw}	$Ph1$	$Ph2$	$Phw1$	$phw2$	ΔS
kPa	kPa	kPa	kPa	kPa	kPa	kPa
63	20	27,72	114,576	20	94	24

6.7. Rezultatele analizei

A fost realizat un model de element finit pentru determinarea momentului de încovoiere și forța axială și de forfecare care acționează în diferite secțiuni ale studiului de caz. Modelul a fost creat în conformitate cu geometria secțiunii cu elemente de grindă. Condițiile de graniță au fost simulate cu suporturi de rigidizare radială așa cum s-a explicat în paragrafele anterioare. Rezultatele analizei de element finit sunt expuse pentru fiecare stare limită luată în considerare (extremă, seismică și de deservire). Rezultatele se referă la cazul de sarcină a înfășurătorii care limitează forța și momentul. În următoarele paragrafe sunt ilustrate cazurile cu rezultatul analizei și verificările pentru fiecare caz. Verificările sunt făcute în secțiunile indicate în figura de mai jos.

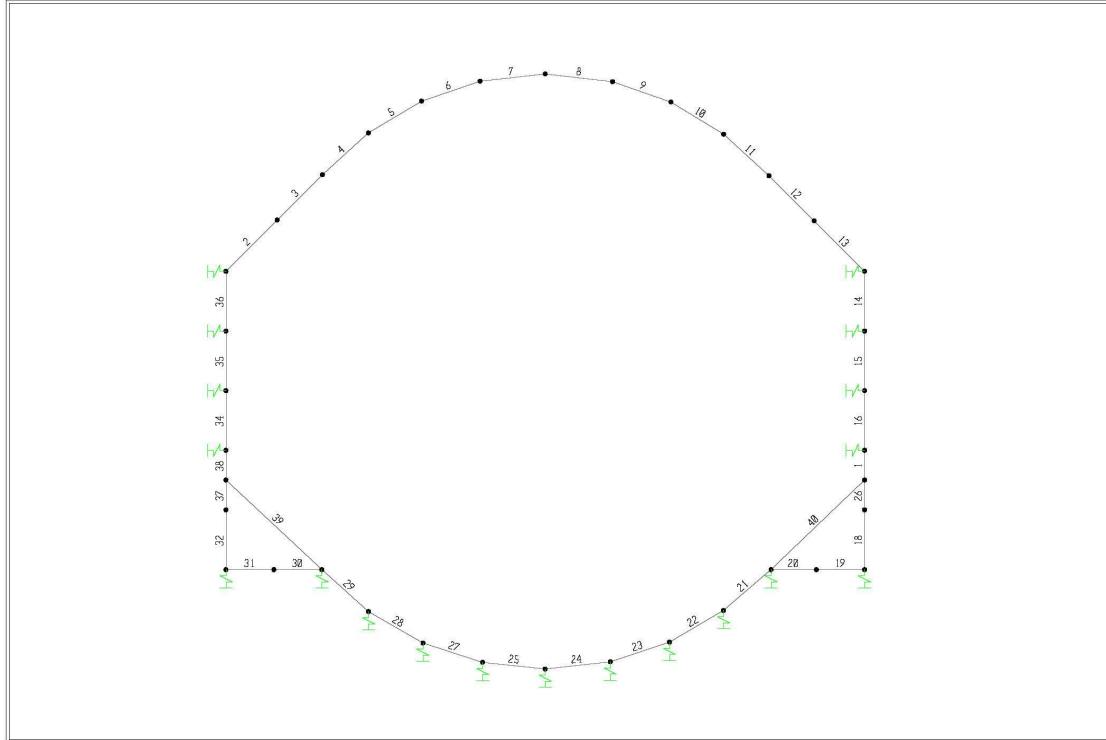


REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

STAREA LIMITĂ EXTREMĂ - STATICĂ

SAP2000

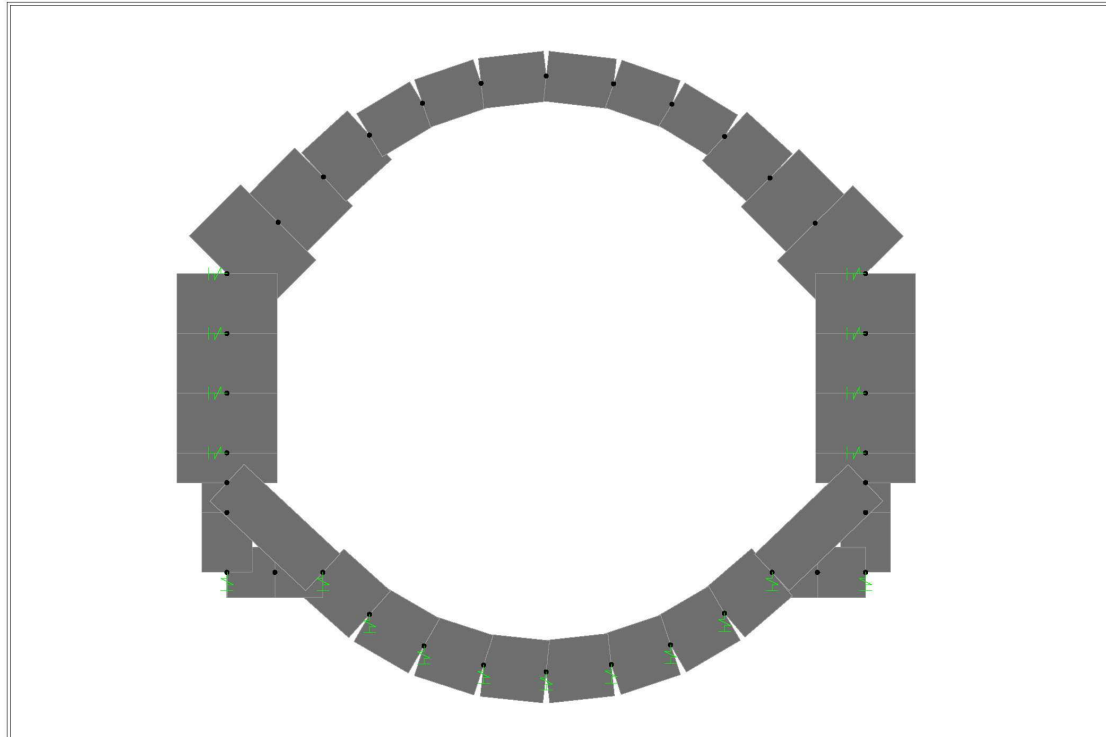
11/11/11 15:31:59



SAP2000 v14.2.2 - File:Homorod_H Static - X-Z Plane @ Y=0 - KN, m, C Units

SAP2000

11/11/11 15:33:20

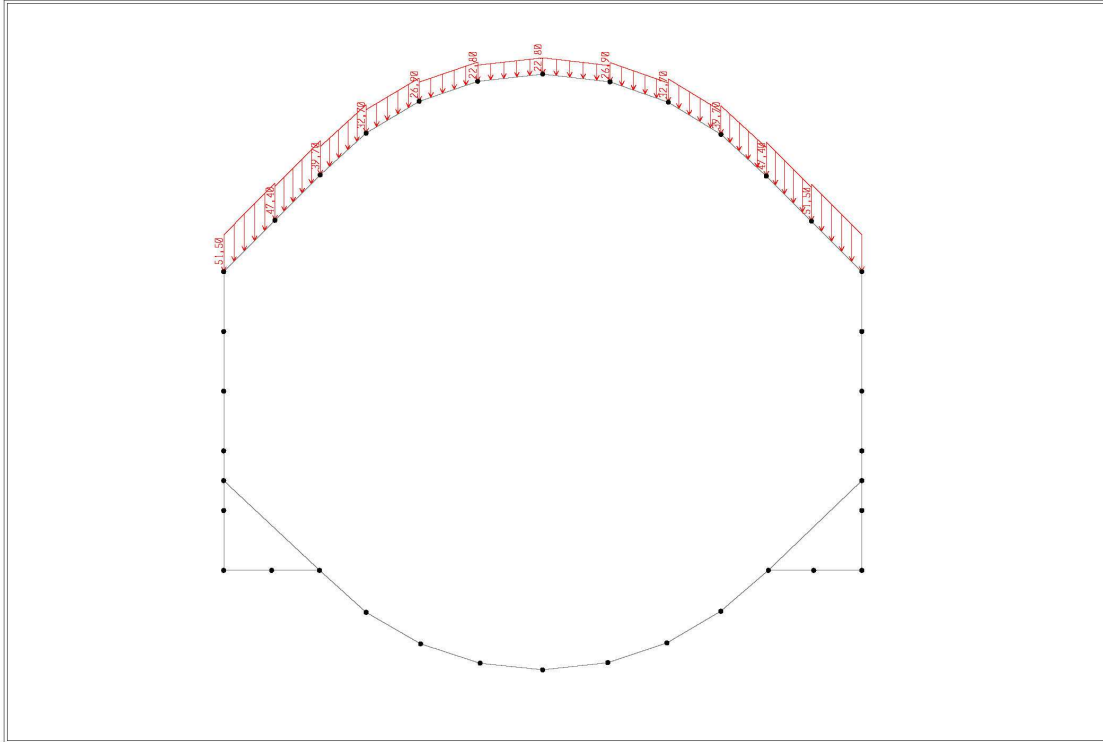


SAP2000 v14.2.2 - File:Homorod_H Static - X-Z Plane @ Y=0 - KN, m, C Units

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

SAP2000

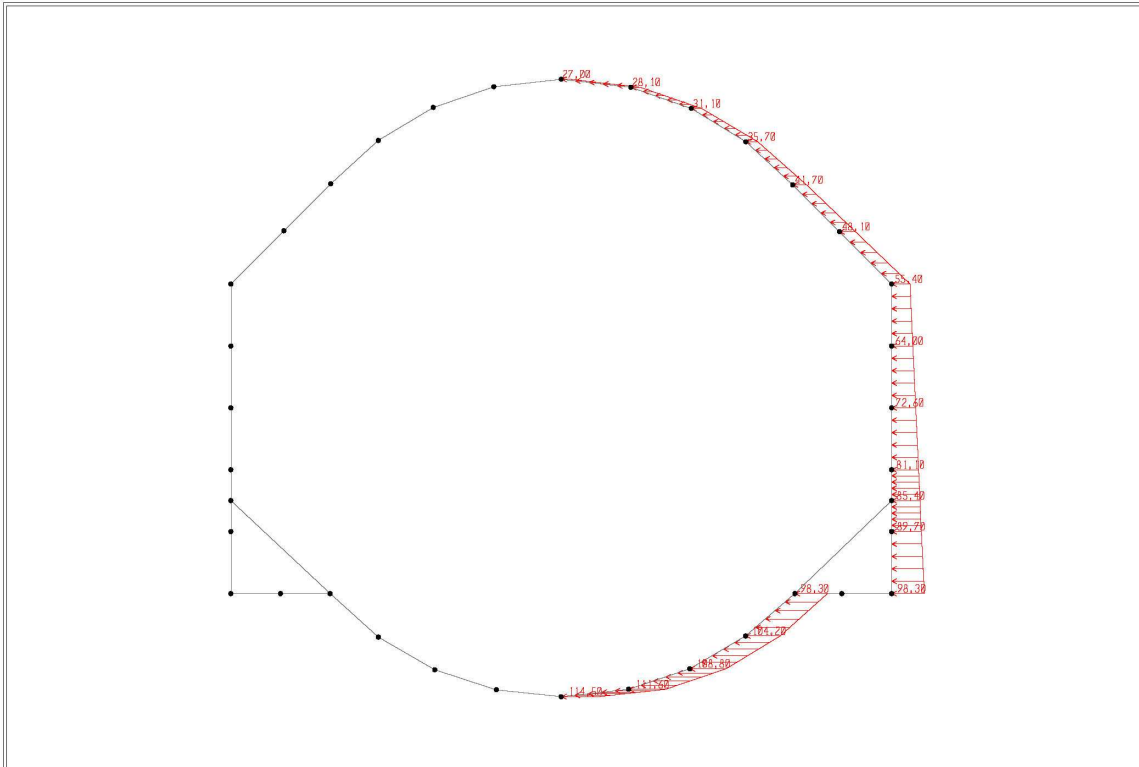
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SAP2000 v14.2.2 - File:Homorod_H Static - Frame Span Loads (EARTH) (As Defined) - KN, m, C Units

SAP2000

11/11/11 15:35:49

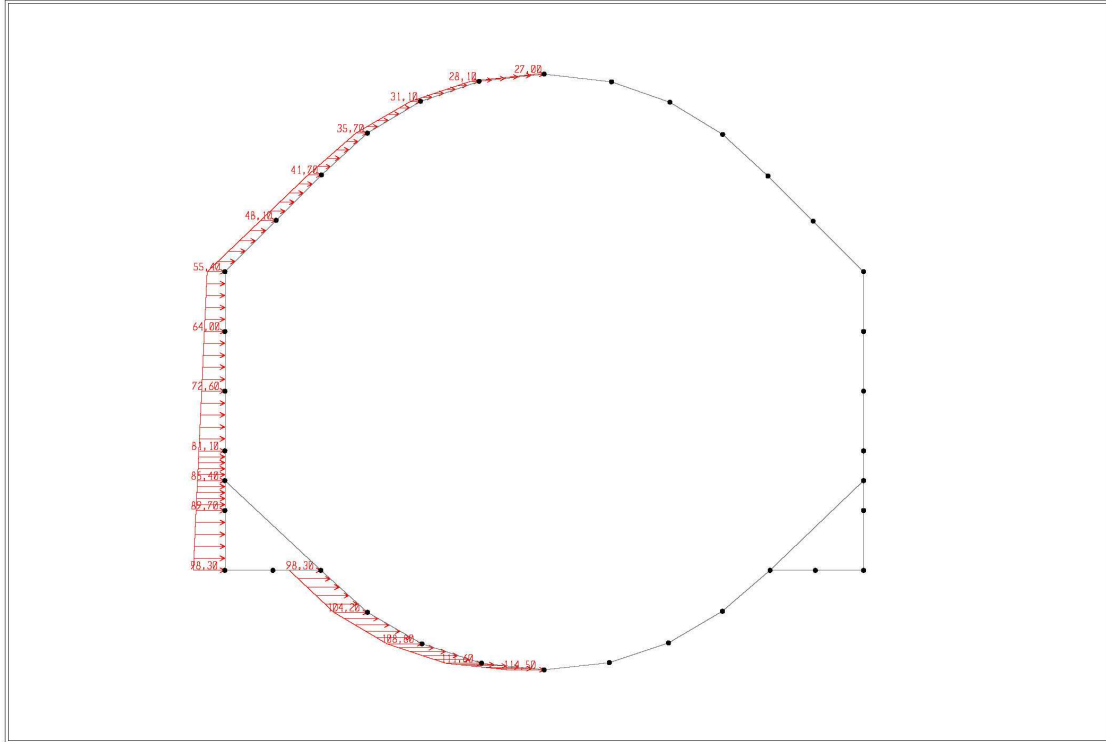


SAP2000 v14.2.2 - File:Homorod_H Static - Frame Span Loads (EARTH_PRESSUREDX) (As Defined) - KN, m, C Units

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

SAP2000

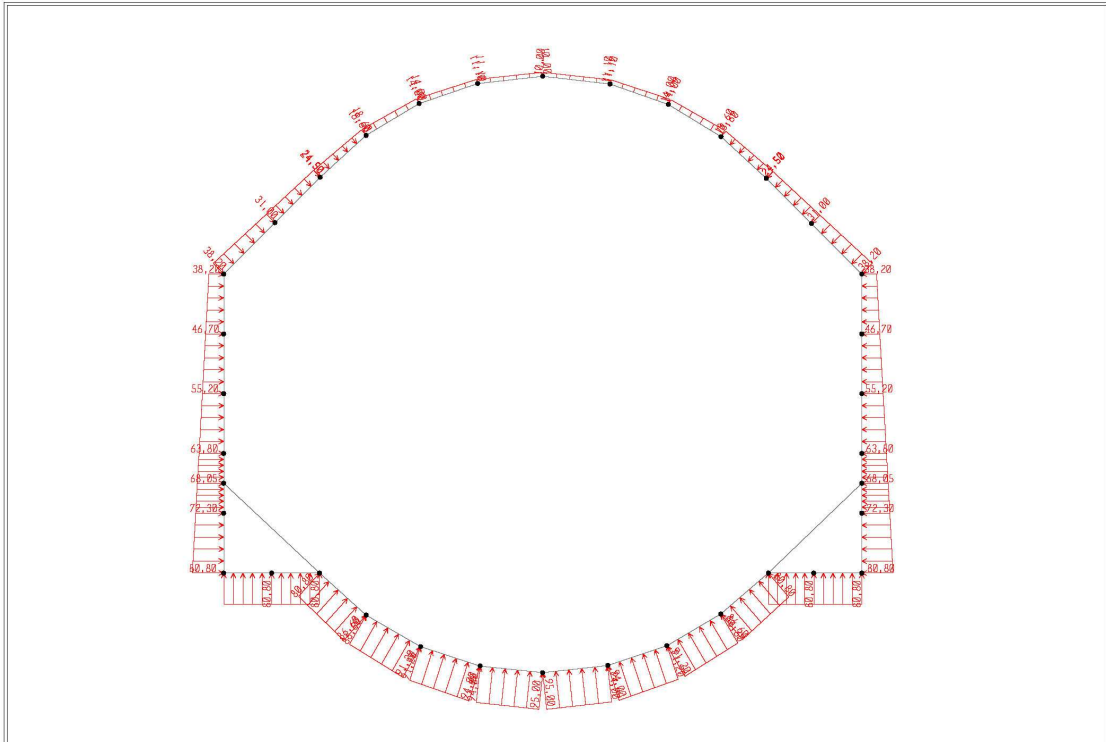
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SAP2000 v14.2.2 - File:Homorod_H Static - Frame Span Loads (EARTH_PRESURESX) (As Defined) - KN, m, C Units

SAP2000

11/11/11 15:37:56

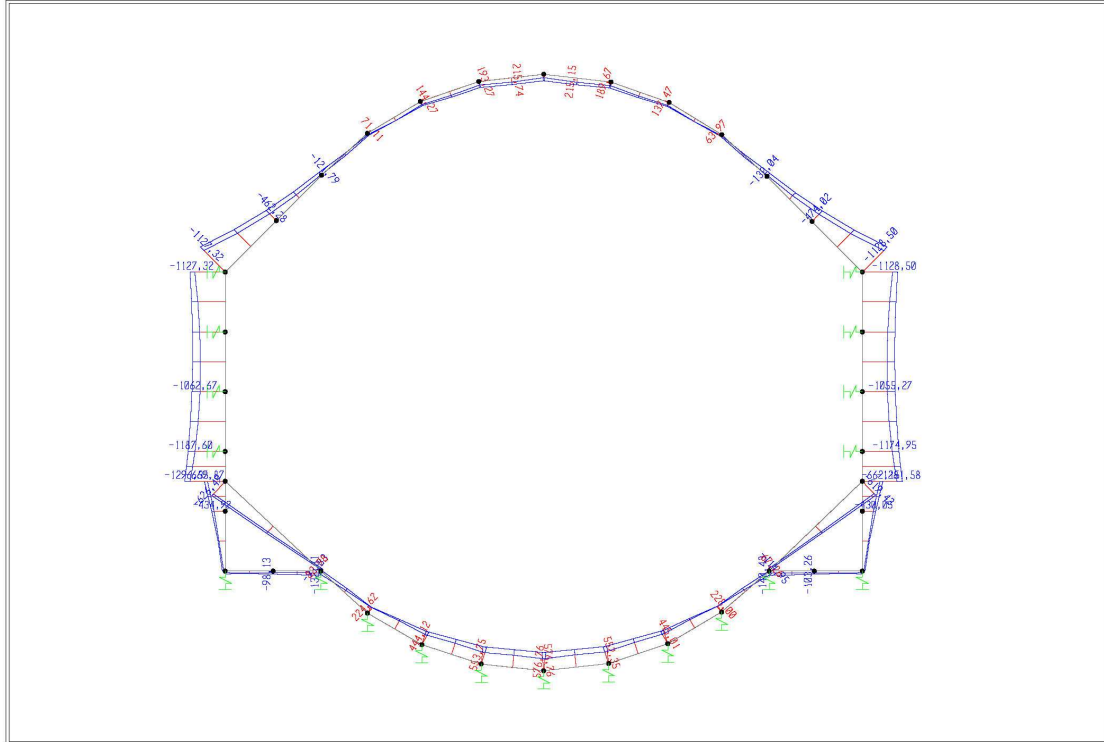


SAP2000 v14.2.2 - File:Homorod_H Static - Frame Span Loads (HYDROSTATIC) (As Defined) - KN, m, C Units

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

SAP2000

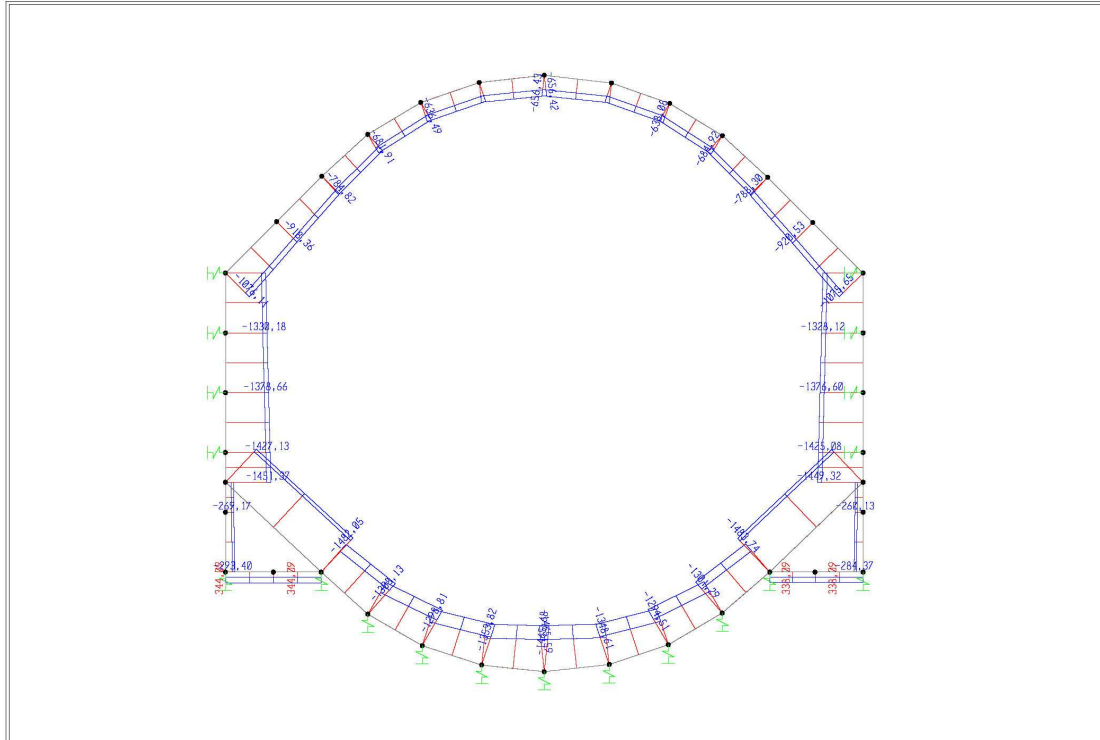
11/10/11 15:48:19



SAP2000 v14.2.2 - File:Homorod_Homorod Static - Moment 3-3 Diagram (ENVELOPE_ULS) - KN, m, C Units

SAP2000

11/10/11 15:49:32

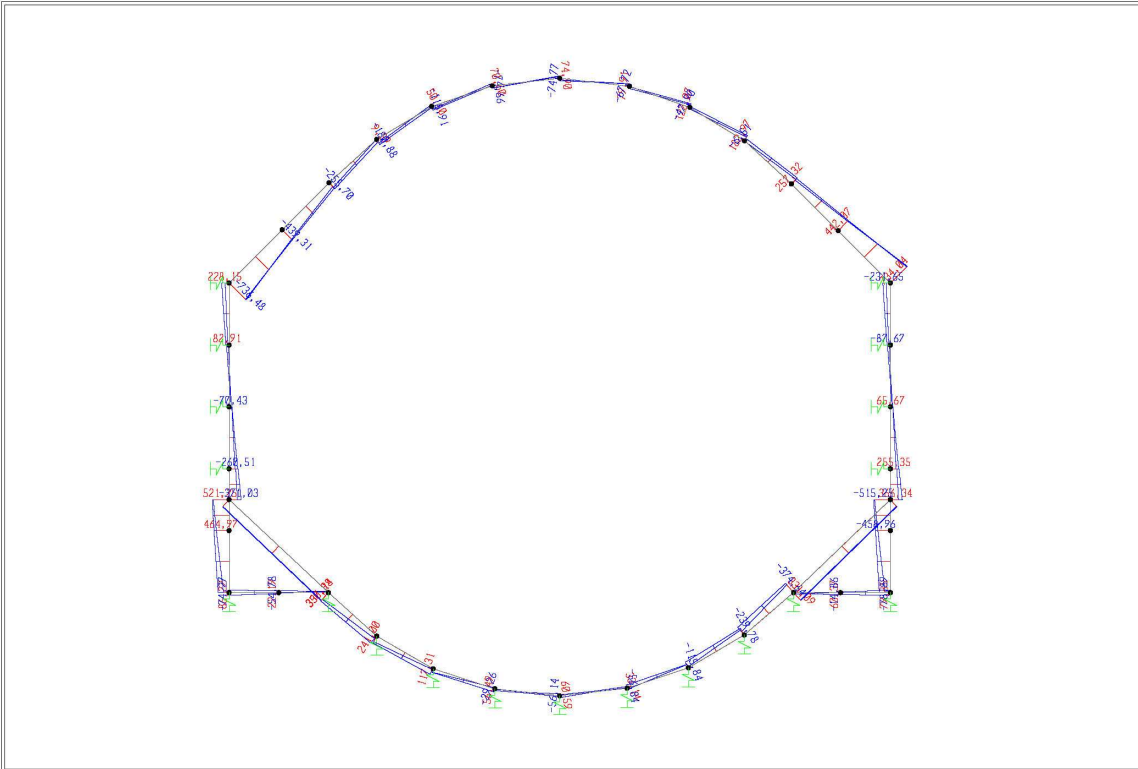


SAP2000 v14.2.2 - File:Homorod_Homorod Static - Axial Force Diagram (ENVELOPE_ULS) - KN, m, C Units

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

SAP2000

11/10/11 15:50:20



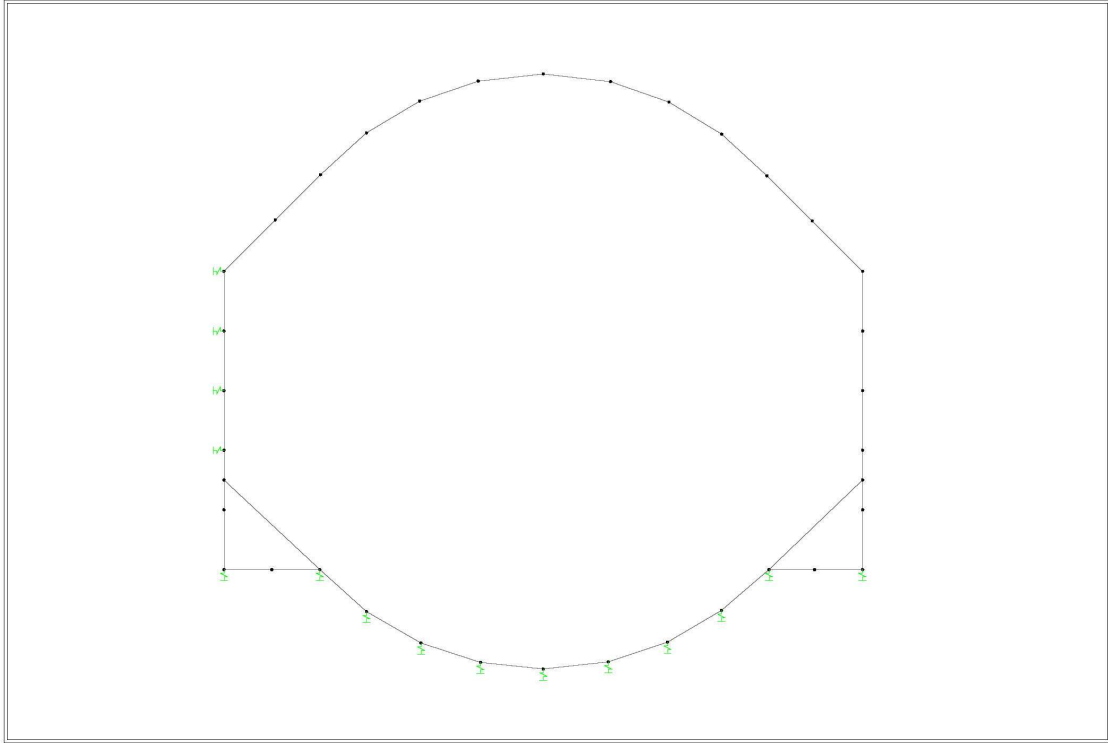
SAP2000 v14.2.2 - File:Homorod_Homorod Static - Shear Force 2-2 Diagram (ENVELOPE_ULS) - KN, m, C Units

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

STAREA LIMITĂ EXTREMĂ - SEISMICĂ

SAP2000

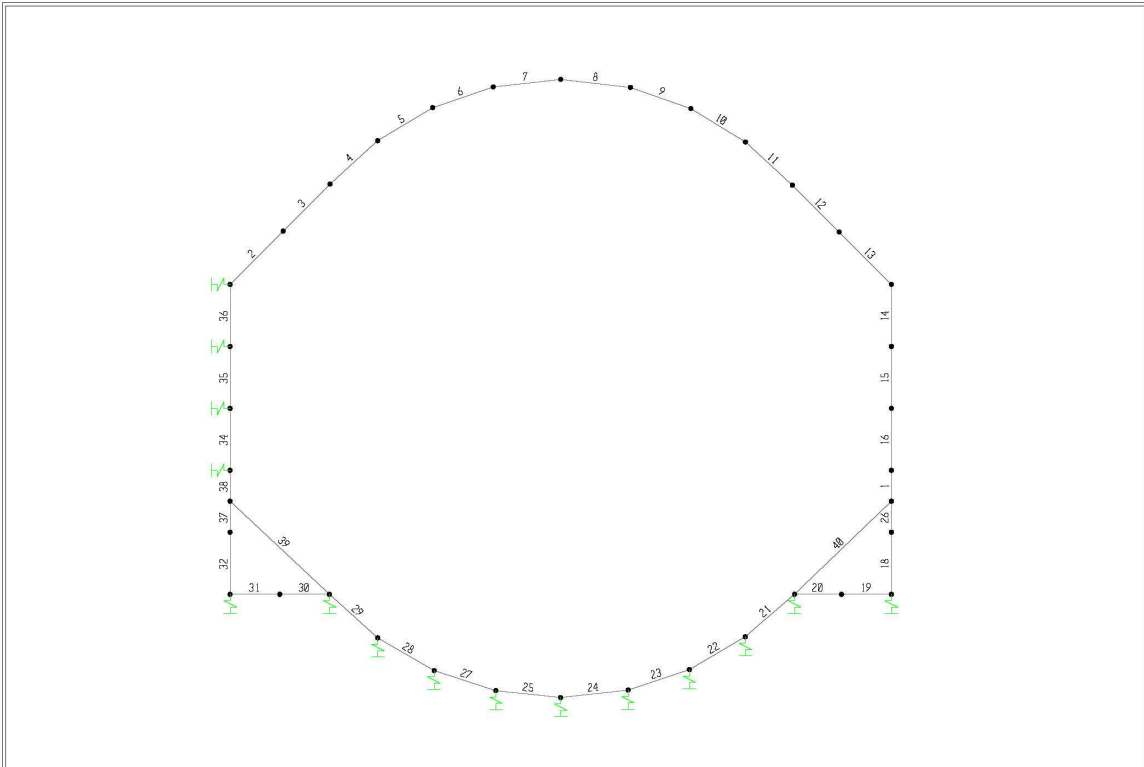
11/11/11 15:39:48



SAP2000 v14.2.2 - File:Homorod_H Seismic - X-Z Plane @ Y=0 - KN, m, C Units

SAP2000

11/11/11 15:41:06

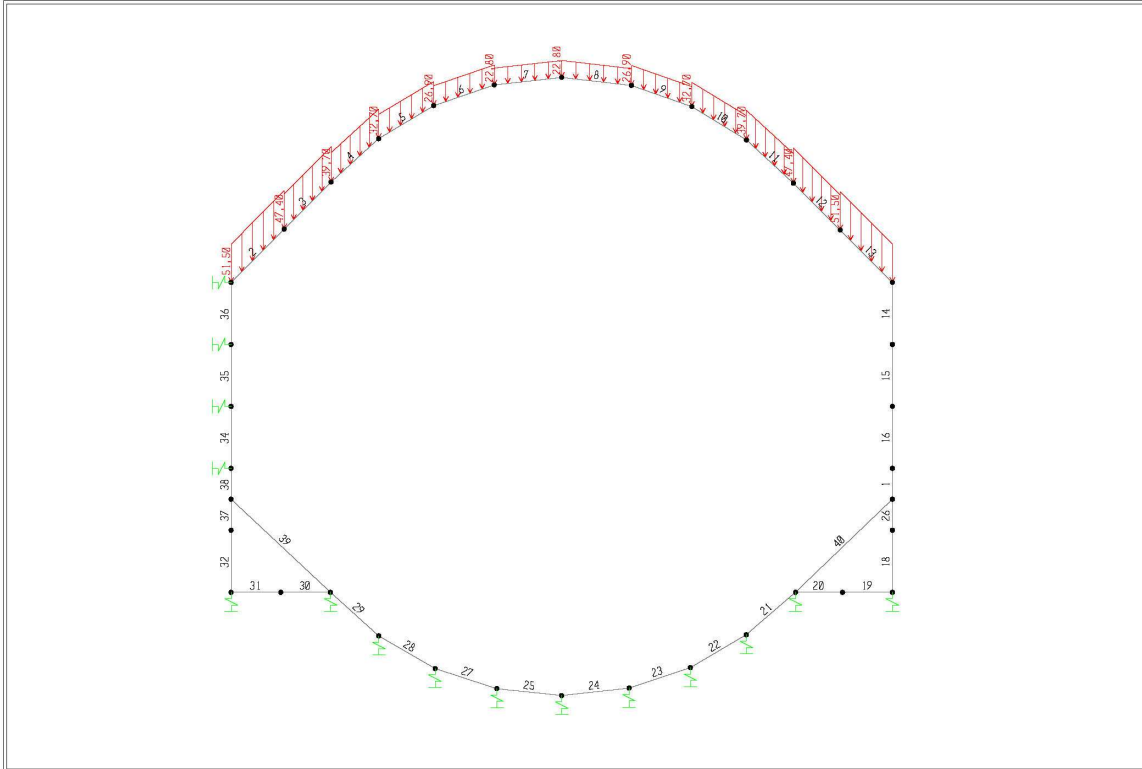


SAP2000 v14.2.2 - File:Homorod_H Seismic - X-Z Plane @ Y=0 - KN, m, C Units

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

SAP2000

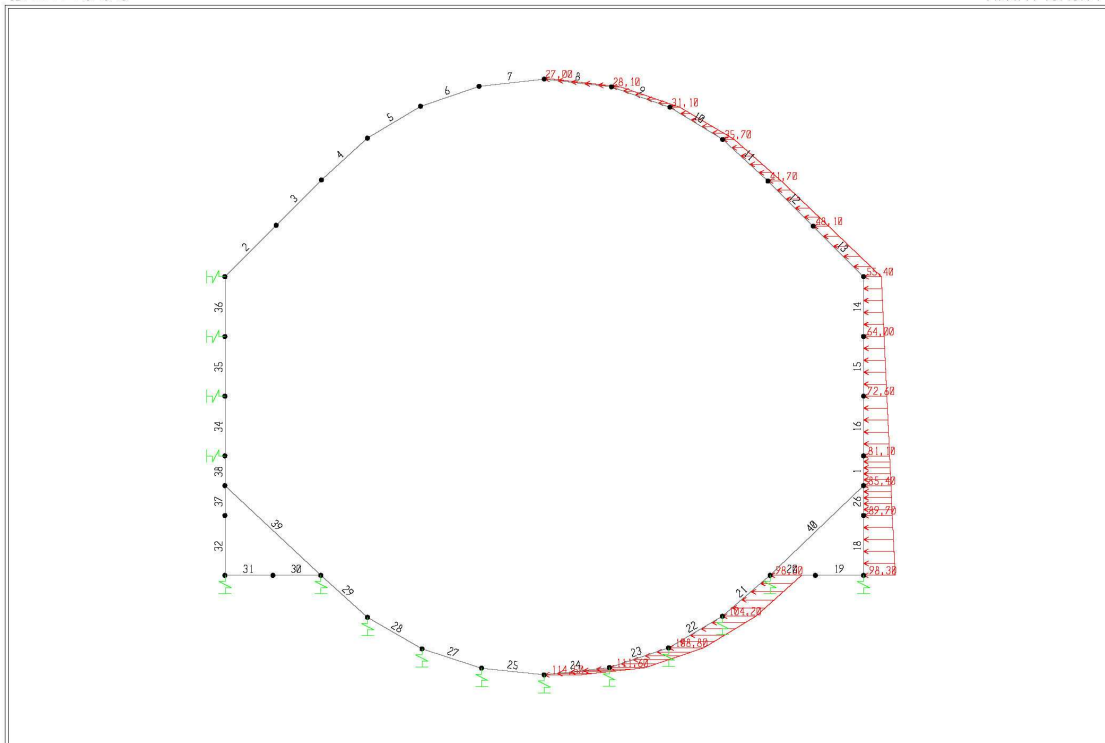
11/11/11 15:42:22



SAP2000 v14.2.2 - File:Homorod_H Seismic - Frame Span Loads (EARTH) (As Defined) - KN, m, C Units

SAP2000

11/11/11 15:43:14

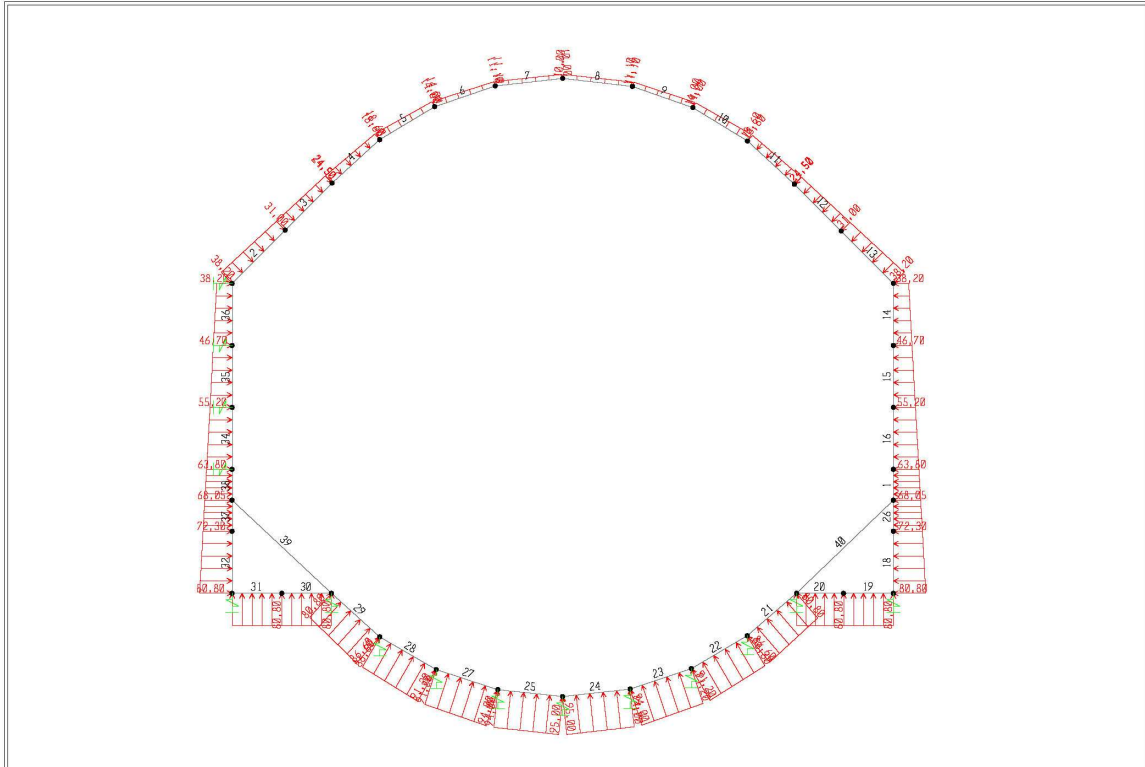


SAP2000 v14.2.2 - File:Homorod_H Seismic - Frame Span Loads (EARTH_PRESSURED) (As Defined) - KN, m, C Units

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

SAP2000

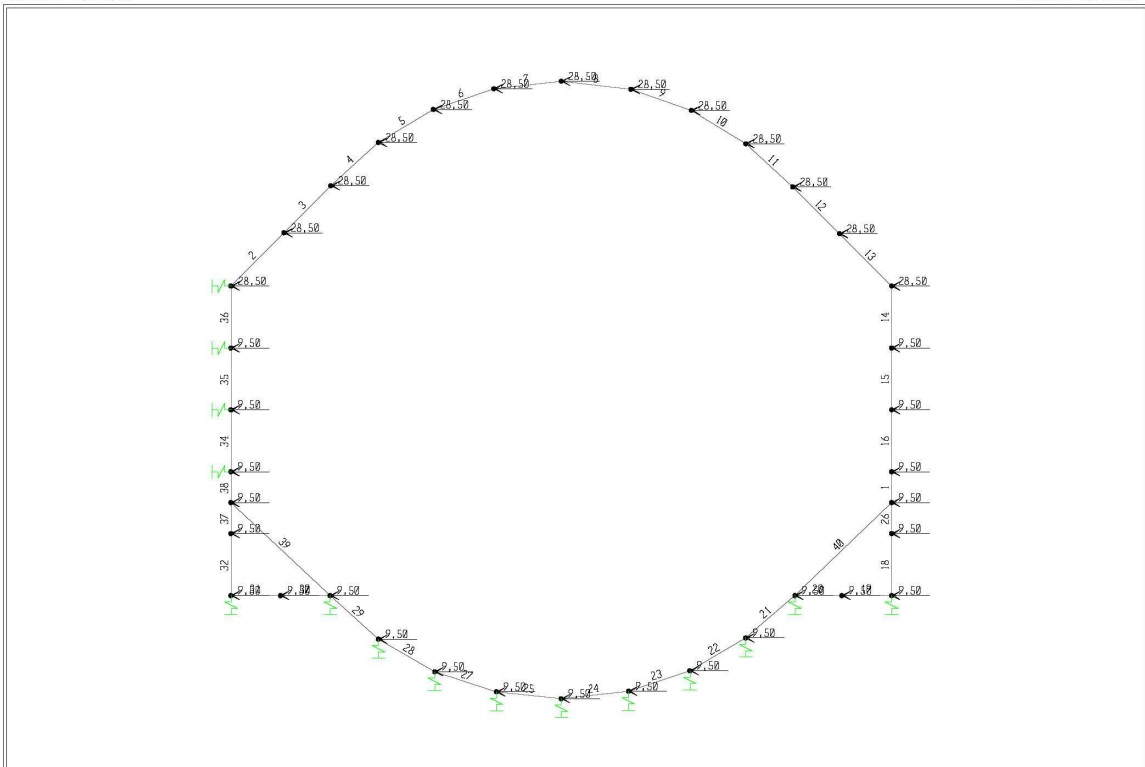
11/11/11 15:44:14



SAP2000 v14.2.2 - File:Homorod_H Seismic - Frame Span Loads (HYDROSTATIC) (As Defined) - KN, m, C Units

SAP2000

11/11/11 16:17:05

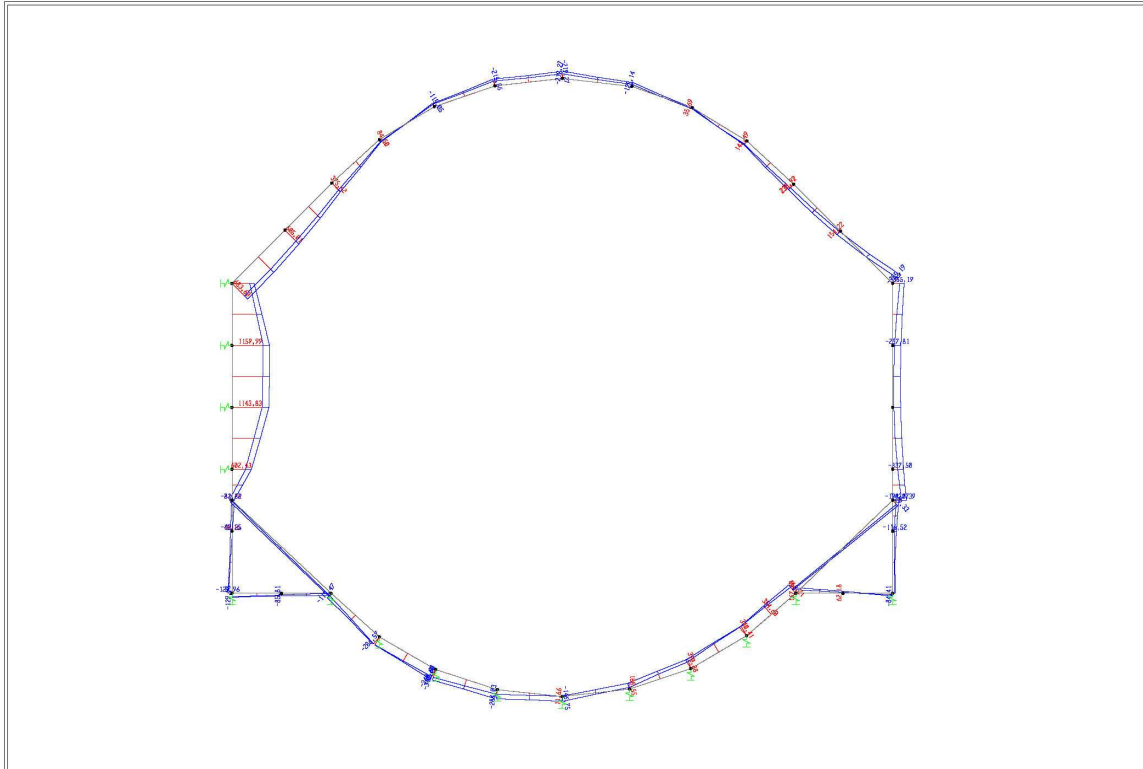


SAP2000 v14.2.2 - File:Homorod_H Seismic - Joint Loads (INERTIA) (As Defined) - KN, m, C Units

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

SAP2000

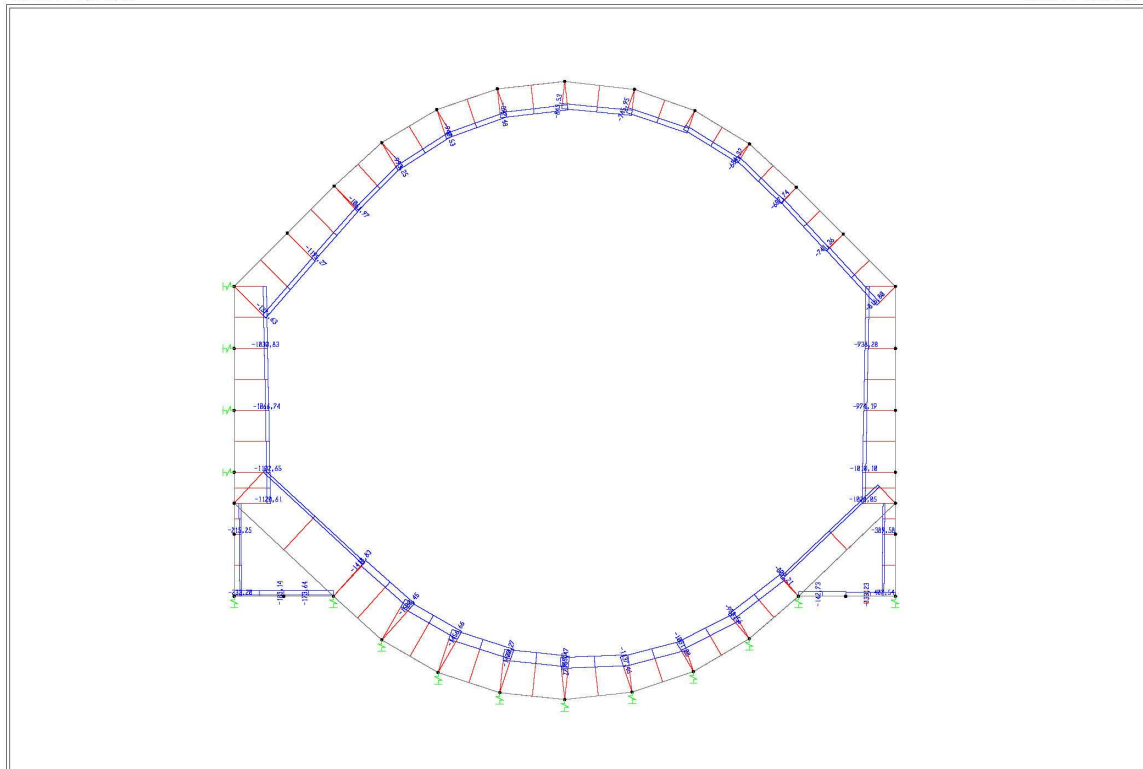
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SAP2000 v14.2.2 - File:Homorod_Homorod Seismic - Moment 3-3 Diagram (ENVELOPE_ULS) - KN, m, C Units

SAP2000

11/10/11 16:01:37

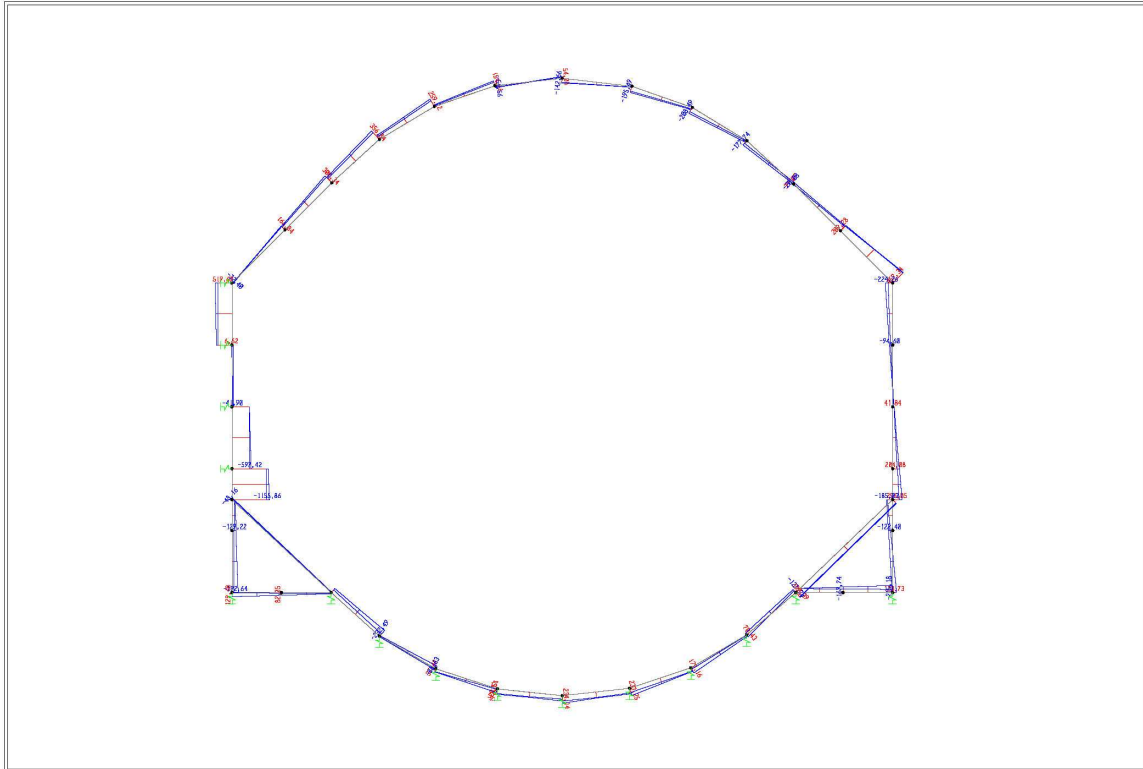


SAP2000 v14.2.2 - File:Homorod_Homorod Seismic - Axial Force Diagram (ENVELOPE_ULS) - KN, m, C Units

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

SAP2000

11/10/11 16:02:29



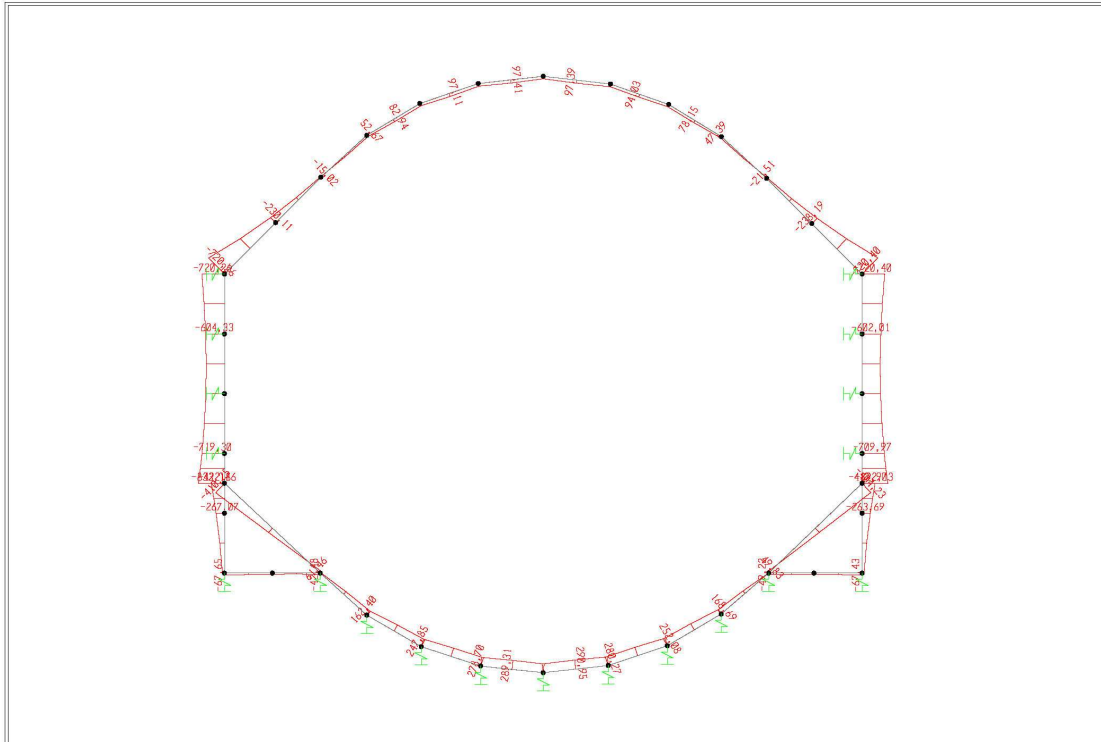
SAP2000 v14.2.2 - File:Homorod_Homorod Seismic - Shear Force 2-2 Diagram (ENVELOPE_ULS) - KN, m, C Units

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

STAREA LIMITĂ DE DESERVIRE

SAP2000

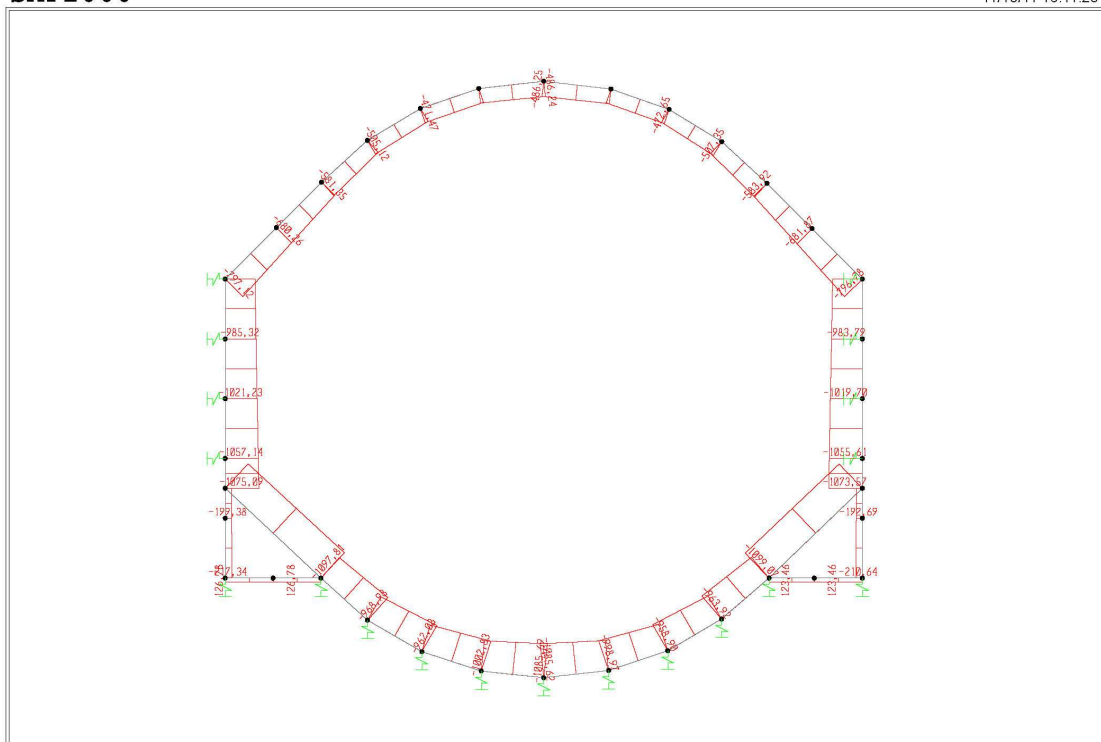
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SAP2000 v14.2.2 - File:Homorod_Homorod Static - Moment 3-3 Diagram (SLS) - KN, m, C Units

SAP2000

11/10/11 16:11:28

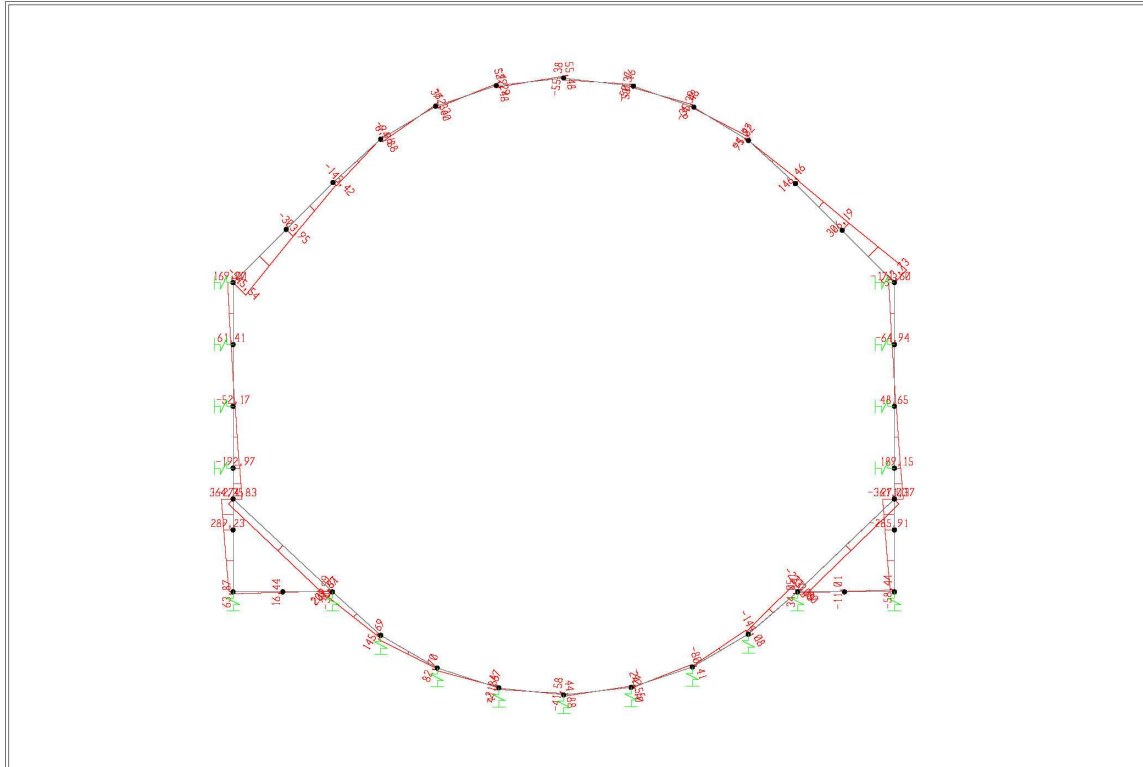


SAP2000 v14.2.2 - File:Homorod_Homorod Static - Axial Force Diagram (SLS) - KN, m, C Units

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

SAP2000

11/10/11 16:13:28



SAP2000 v14.2.2 - File:Homorod_Homorod Static - Shear Force 2-2 Diagram (SLS) - KN, m, C Units

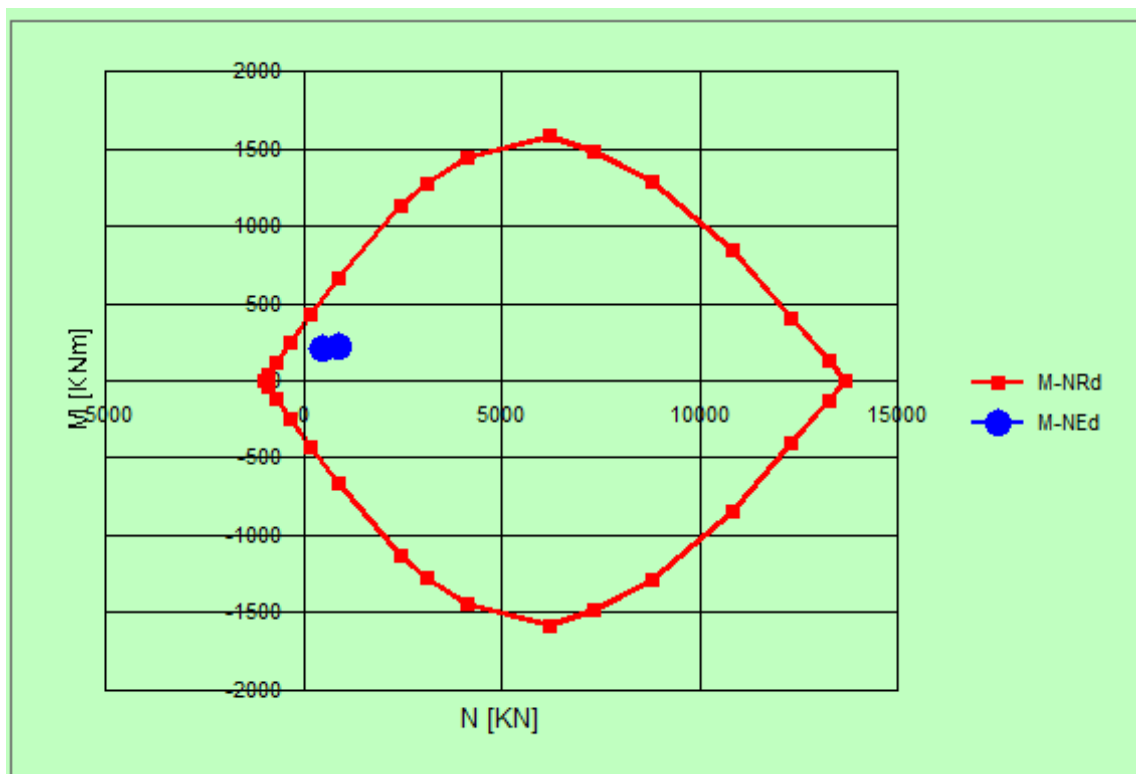
Secțiunea	B	H	ULS STATIC		ULS SEISMIC		SLS				
	cm	cm									
1	100	80	M=	215	kNm	M=	219	kNm	M=	97	kNm
			N=	442	kN	N=	882	kN	N=	477	kN
			T=	80	kN	T=	143	kN	T=	55	kN
2	100	160	M=	1127	kNm	M=	1160	kNm	M=	720	kNm
			N=	1076	kN	N=	930	kN	N=	797	kN
			T=	736	kN	T=	520	kN	T=	546	kN
3	100	160	M=	1296	kNm	M=	1144	kNm	M=	833	kNm
			N=	1451	kN	N=	966	kN	N=	1075	kN
			T=	521	kN	T=	1140	kN	T=	289	kN
4	100	100	M=	577	kNm	M=	287	kNm	M=	289	kNm
			N=	1025	kN	N=	1500	kN	N=	1028	kN
			T=	515	kN	T=	234	kN	T=	209	kN

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

6.8. Verificări structurale ULS

Sectiunea 1

Caracteristici			
Materiale			
C 30/37			
fcd	Mpa	17	
B450C			
fyd	MPa	391	
Sectiunea			
b	cm	100	
h	cm	80	
As	cm ²	12.72	5 ϕ 18
A's	cm ²	12.72	5 ϕ 18
c	cm	5	
d	cm	75	
Mrd	kN*m	522.3	



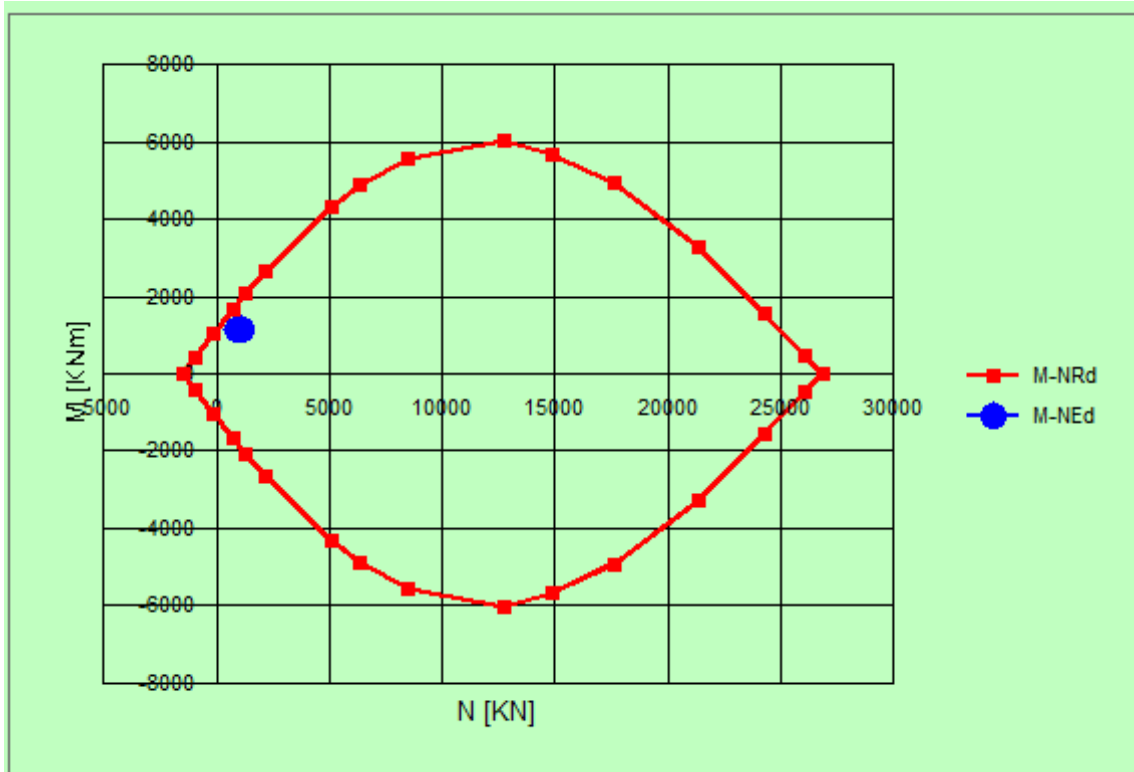
REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Caracteristici		
Materiale		
C 30/37		
fcd	Mpa	17
B450C		
fyd	MPa	391
Secțiunea		
b	cm	100
h	cm	80
As	cm ²	12.72
A's	cm ²	12.72
c	cm	5
d	cm	245
Tsd	kN*m	80
V _{Rd1}	kN	264 > 80
		Nu este necesară armătură de forfecare

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Sectiunea 2

Caracteristici			
Materiale			
C 30/37			
fcd	Mpa	17	
B450C			
fyd	MPa	391	
Sectiunea			
b	cm	100	
h	cm	160	
As	cm2	18.85	6 ϕ 20
A's	cm2	18.85	6 ϕ 20
c	cm	5	
d	cm	155	
Mrd	kN*m	1964	



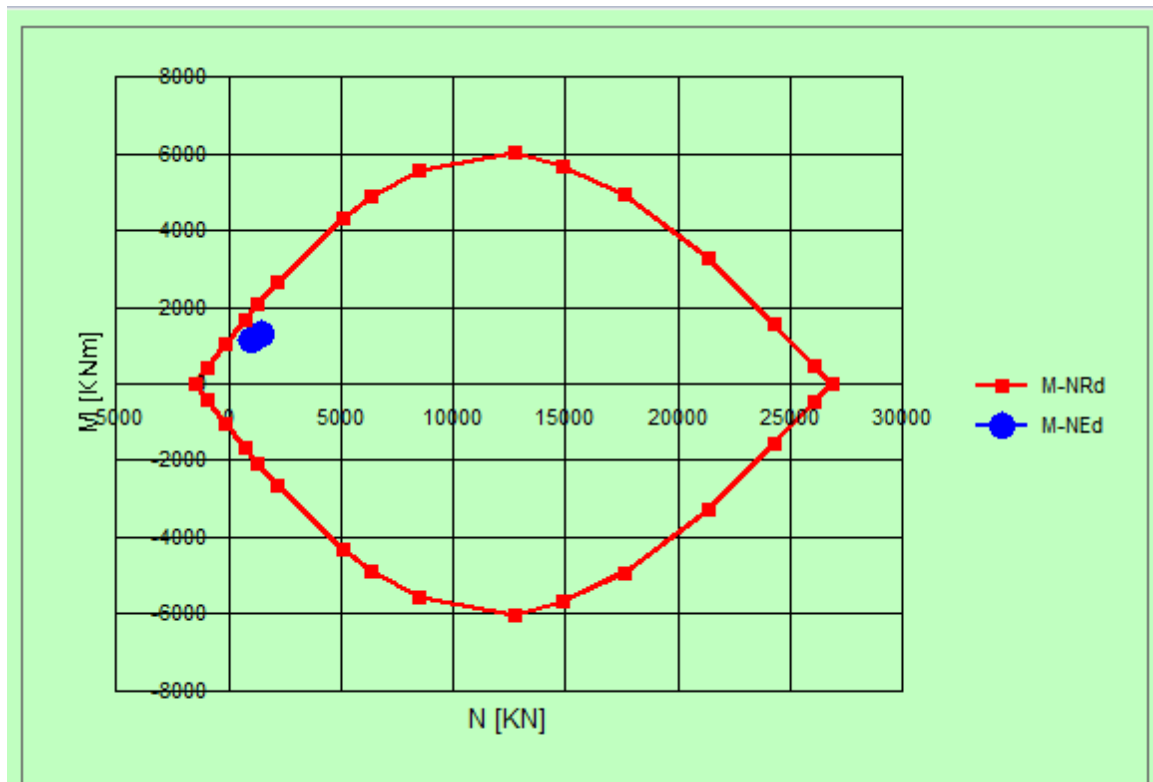
REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Caratteristici		
Materiale		
C 30/37		
fcd	Mpa	17
B450C		
fyd	MPa	391
Secțiunea		
b	cm	100
h	cm	160
As	cm ²	18.85
A's	cm ²	18.85
c	cm	5
d	cm	155
Tsd	kN*m	736
V _{Rd1}	kN	463 < 736
		Necesară armătură de forfecare
ctgθ =		2,5
θ	(°)	21.8
Ast	cm ² /m	15.39 (2φ14/20 cm)
V _{Rsd}	kN	2100
V _{Rcd}	kN	3959
VRdu	kN	2100

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Sectiunea 3

Caracteristici			
Materiale			
C 30/37			
fcd	Mpa	17	
B450C			
fyd	MPa	391	
Secțiune			
b	cm	100	
h	cm	160	
As	cm ²	18.85	6 φ 20
A's	cm ²	18.85	6 φ 20
c	cm	5	
d	cm	155	
Mrd	kN*m	2199	



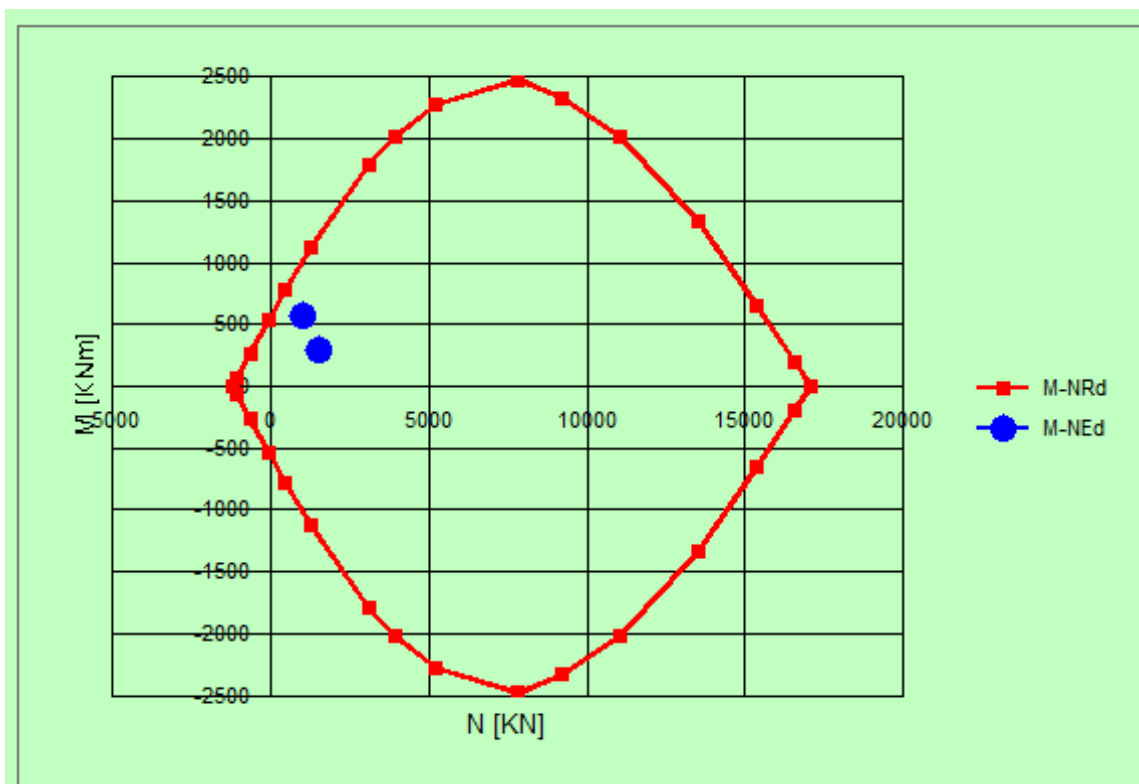
REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Caratteristici		
Materiale		
C 30/37		
fcd	Mpa	17
B450C		
fyd	MPa	391
Secțiunea		
b	cm	100
h	cm	160
As	cm ²	18.85
A's	cm ²	18.85
c	cm	5
d	cm	155
Tsd	kN*m	1140
V _{Rd1}	kN	463 < 1140
		Necesară armătură de forfecare
ctgθ =		2,5
θ	(°)	21.8
Ast	cm ² /m	15.39 (2φ14/20 cm)
V _{Rsd}	kN	2100
V _{Rcd}	kN	3959
VRdu	kN	2100

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Sectiunea

Caracteristici			
Materiale			
C 30/37			
fcd	Mpa	17	
B450C			
fyd	MPa	391	
Sectiunea			
b	cm	100	
h	cm	100	
As	cm2	15.71	5 ϕ 20
A's	cm2	15.71	5 ϕ 20
c	cm	5	
d	cm	95	
Mrd	kN*m	832	



REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

Caracteristici		
Materiale		
C 30/37		
fcd	Mpa	17
B450C		
fyd	MPa	391
Secțiune		
b	cm	100
h	cm	100
As	cm ²	15.71
A's	cm ²	15.71
c	cm	5
d	cm	95
Tsd	kN*m	315
VRd1	kN	315 < 355
		Necesară armătură de forfecare
ctgθ =		2,5
θ	(°)	21.8
Ast	cm ² /m	15.39 (2φ14/20 cm)
VRsd	kN	1287
VRcd	kN	2426
VRdu	kN	1287

6.9. Verificări SLS

Secțiune	B	H	Armătură		M	N	σs
			n.	n.			
1	100	80	5φ18	5φ18	97	477	4.00
2	100	160	6φ20	6φ20	720	797	85.03
3	100	160	6φ20	6φ20	833	1075	74.55
4	100	100	5φ20	5φ20	289	1028	12.25

REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

REFERINȚĂ 1992-1-1 paragraf 7.3

h	1600	[mm]
b	1000	[mm]
d	1550	[mm]
d'	50	[mm]
c	40	[mm]
n _{f,1}	6	[-]
φ _{f,1}	20	[mm]
A _{sf,1}	1885	[mm ²]
n _{f,2}	0	[-]
φ _{f,2}	0	[mm]
A _{sf,2}	0	[mm ²]
f _{ck}	37	[MPa]
f _{ctm}	3,2	[MPa]
E _{cm}	34077	[MPa]
f _{yk}	450	[MPa]
E _s	200000	[MPa]
σ _s	85	[MPa]
x	554	[mm]
α _e	5,87	[-]
A _s	1885	[mm ²]
A _{c,eff.1}	125000	[mm ²]
A _{c,eff.2}	348667	[mm ²]
A _{c,eff.3}	800000	[mm ²]
A _{c,eff.min}	125000	[mm ²]
ρ _{p,eff}	0,01508	[-]
f _{ct,eff}	3,2	[MPa]
k _t	0,4	[-]
[ε _{sm} -ε _{cm}] _{min}	0,000255	[-]
[ε _{sm} -ε _{cm}] _{calc.}	-0,000038	[-]
[ε_{sm}-ε_{cm}]	0,000255	[-]
s	166	[mm]
φ _{eq}	20,00	[mm]
s _{max,rif}	250	[mm]
k ₁	0,800	[-]
k ₂	1,000	[-]
k ₃	3,400	[-]
k ₄	0,425	[-]
s _{r,max.1}	587	[mm]
s _{r,max.2}	1360	[mm]
s_{r,max}	587	[mm]
w _{k,lim}	0,30	[mm]
w_k	0,15	[mm]

7. CONCLUZII

În acest raport ne ocupăm cu problemele de proiectare referitoare la implementarea lucrărilor de construcții ale intrărilor de tunel de-a lungul aliniamentului de cale ferată Brașov – Sighișoara ce aparține rețelei de căi ferate ale Coridorului IV Pan European. Evaluările efectuate au confirmat valabilitatea soluțiilor de proiectare adoptate, cu referire atât la structurile temporare cât și la cele permanente. Verificările statice efectuate au arătat solicitări ale materialului mai mici decât valorile permisibile conform regulilor.

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REHABILITATION OF THE RAILWAY LINE BRASOV – SIMERIA, COMPONENT PART OF IV PAN-EUROPEAN CORRIDOR FOR THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.

ANEXĂ

PARATIE 7.00
16 NOVEMBRE 2011 13:12:22
History 0 - HOMOROD

Ce.A.S. s.r.l. - Milano

PAG. 1

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**  
**          P  A  R  A  T  I  E          **  
**  
**          RELEASE 7.00  VERSIONE WIN  **  
**  
**  Ce.A.S. s.r.l. - Viale Giustiniano, 10  **  
**                      20129 MILANO      **  
**  
*****
```

JOBNAME C:\Users\Tecnico5\Desktop\Nuova cartella (3)\File Paratie Homorod L

16 NOVEMBRE 2011 13:12:22

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PAG. 2

ELENCO DEI DATI DI INPUT(PARAGEN)

Per il significato dei vari comandi
si faccia riferimento al manuale di
input PARAGEN, versione 7.00.

N. comando
1: * Paratie for Windows version 7.0
2: * Filename= <c:\users\tecnico5\desktop\nuova cartella (3)\file paratie
homorod 1
3: * project with "run time" parameters
4: * Force=kN Lenght=m
5: *
6: units m kN
7: title History 0 - HOMOROD
8: delta 0.2
9: option param itemax 20
10: option noprint echo
11: option noprint displ
12: option noprint react
13: option noprint stresses
14: wall RightWall 0 -30 0
15: *
16: soil DHRight RightWall -30 0 2 0
17: soil UHRight RightWall -30 0 1 180
18: *
19: material Pali 3.2308E+007
20: material Acciaio 2.1E+008
21: *
22: beam Right_wall RightWall -22 0 Pali 0.979439 00 00
23: *
24: wire Wire01 RightWall -0.5 Acciaio 2.87179E-005 150 157.5
25: wire Wire2 RightWall -4 Acciaio 4.30769E-005 150 157.5
26: *
27: * Soil Profile
28: *
29: ldata Soil 0
30: weight 19 9 10
31: atrest 1 0.5 1
32: resistance 20 25 0.359 3.319
33: young 12000 17000
34: endlayer
35: ldata Soil2 -5
36: weight 19.5 9.5 10
37: atrest 1 0.5 1
38: resistance 45 25 0.359 3.319

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N. comando

```
39:      young      18000 23000
40:      endlayer
41:      ldata      Soil3 -15
42:      weight     19.5 9.5 10
43:      atrest     1 0.5 1
44:      resistance 60 25 0.359 3.319
45:      young      25000 30000
46:      endlayer
47: *
48: step 1 :
49:      setwall RightWall
50:      geom 0 -0.5
51:      add Wire01
52: endstep
53: *
54: step 2 :
55:      setwall RightWall
56:      geom 0 -4
57:      water -2 2
58: endstep
59: *
60: step 3 :
61:      setwall RightWall
62:      add Wire2
63: endstep
64: *
65: step 4 :
66:      setwall RightWall
67:      geom 0 -7.2
68:      water -2 5.2
69:      surcharge 23 0 0 0
70: endstep
71: *
72: *
```

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 1

LAYER Soil			
natura 1=granulare, 2=argilla	=	1.0000	
quota superiore	=	0.0000	m
quota inferiore	=	-5.0000	m
peso fuori falda	=	19.000	kN/m ³
peso efficace in falda	=	9.0000	kN/m ³
peso dell'acqua	=	10.000	kN/m ³
coesione	=	20.000	kPa (A MONTE)
angolo di attrito	=	25.000	DEG (A MONTE)
coeff. spinta attiva ka	=	0.35900	(A MONTE)
coeff. spinta passiva kp	=	3.3190	(A MONTE)
Konc normal consolidato	=	1.0000	
esponente di OCR	=	0.50000	
OCR: grado di sovraconsolidazione	=	1.0000	
modello di rigidità	=	1.0000	
modulo el. compr. vergine	=	12000.	kPa
modulo el. scarico/ricarico	=	17000.	kPa
natura 1=granulare, 2=argilla	=	1.0000	(A VALLE)
coesione	=	20.000	kPa (A VALLE)
angolo di attrito	=	25.000	DEG (A VALLE)
coeff. spinta attiva ka	=	0.35900	(A VALLE)
coeff. spinta passiva kp	=	3.3190	(A VALLE)
LAYER Soil2			
natura 1=granulare, 2=argilla	=	1.0000	
quota superiore	=	-5.0000	m
quota inferiore	=	-15.000	m
peso fuori falda	=	19.500	kN/m ³
peso efficace in falda	=	9.5000	kN/m ³
peso dell'acqua	=	10.000	kN/m ³
coesione	=	45.000	kPa (A MONTE)
angolo di attrito	=	25.000	DEG (A MONTE)
coeff. spinta attiva ka	=	0.35900	(A MONTE)
coeff. spinta passiva kp	=	3.3190	(A MONTE)
Konc normal consolidato	=	1.0000	
esponente di OCR	=	0.50000	
OCR: grado di sovraconsolidazione	=	1.0000	
modello di rigidità	=	1.0000	
modulo el. compr. vergine	=	18000.	kPa
modulo el. scarico/ricarico	=	23000.	kPa
natura 1=granulare, 2=argilla	=	1.0000	(A VALLE)
coesione	=	45.000	kPa (A VALLE)

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RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 1

angolo di attrito	= 25.000	DEG	(A VALLE)
coeff. spinta attiva ka	= 0.35900		(A VALLE)
coeff. spinta passiva kp	= 3.3190		(A VALLE)

LAYER Soil3

natura 1=granulare, 2=argilla	= 1.0000		
quota superiore	= -15.000	m	
quota inferiore	= -0.10000E+31	m	
peso fuori falda	= 19.500	kN/m ³	
peso efficace in falda	= 9.5000	kN/m ³	
peso dell'acqua	= 10.000	kN/m ³	
coesione	= 60.000	kPa	(A MONTE)
angolo di attrito	= 25.000	DEG	(A MONTE)
coeff. spinta attiva ka	= 0.35900		(A MONTE)
coeff. spinta passiva kp	= 3.3190		(A MONTE)
Konc normal consolidato	= 1.0000		
esponente di OCR	= 0.50000		
OCR: grado di sovraconsolidazione	= 1.0000		
modello di rigidezza	= 1.0000		
modulo el. compr. vergine	= 25000.	kPa	
modulo el. scarico/ricarico	= 30000.	kPa	
natura 1=granulare, 2=argilla	= 1.0000		(A VALLE)
coesione	= 60.000	kPa	(A VALLE)
angolo di attrito	= 25.000	DEG	(A VALLE)
coeff. spinta attiva ka	= 0.35900		(A VALLE)
coeff. spinta passiva kp	= 3.3190		(A VALLE)

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 2

(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 3

(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 4

(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO DATI RELATIVI ALLA FASE 1

WALL RightWall

coordinata y	=	0.0000	m
quota piano campagna	=	0.0000	m
quota del fondo scavo	=	-0.50000	m
quota della falda	=	-0.99900E+30	m
sovraccarico a monte	=	0.0000	kPa
quota del sovraccarico a monte	=	0.0000	m
depressione falda a valle	=	0.0000	m
sovraccarico a valle	=	0.0000	kPa
quota del sovraccarico a valle	=	-0.99900E+30	m
quota di taglio	=	0.0000	m
quota di equil. pressioni dell'acqua	=	-30.000	m
indicatore comportamento acqua	=	0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	=	0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 2

WALL RightWall

coordinata y	=	0.0000	m
quota piano campagna	=	0.0000	m
quota del fondo scavo	=	-4.0000	m
quota della falda	=	-2.0000	m
sovraccarico a monte	=	0.0000	kPa
quota del sovraccarico a monte	=	0.0000	m
depressione falda a valle	=	2.0000	m
sovraccarico a valle	=	0.0000	kPa
quota del sovraccarico a valle	=	-0.99900E+30	m
quota di taglio	=	0.0000	m
quota di equil. pressioni dell'acqua	=	-30.000	m
indicatore comportamento acqua	=	0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	=	0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 3

WALL RightWall

coordinata y	=	0.0000	m
quota piano campagna	=	0.0000	m
quota del fondo scavo	=	-4.0000	m
quota della falda	=	-2.0000	m
sovraccarico a monte	=	0.0000	kPa

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RIASSUNTO DATI RELATIVI ALLA FASE 3

quota del sovraccarico a monte	= 0.0000	m
depressione falda a valle	= 2.0000	m
sovraccarico a valle	= 0.0000	kPa
quota del sovraccarico a valle	= -0.99900E+30	m
quota di taglio	= 0.0000	m
quota di equil. pressioni dell'acqua	= -30.000	m
indicatore comportamento acqua	= 0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	= 0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 4

WALL RightWall

coordinata y	= 0.0000	m
quota piano campagna	= 0.0000	m
quota del fondo scavo	= -7.2000	m
quota della falda	= -2.0000	m
sovraccarico a monte	= 23.000	kPa
quota del sovraccarico a monte	= 0.0000	m
depressione falda a valle	= 5.2000	m
sovraccarico a valle	= 0.0000	kPa
quota del sovraccarico a valle	= 0.0000	m
quota di taglio	= 0.0000	m
quota di equil. pressioni dell'acqua	= -30.000	m
indicatore comportamento acqua	= 0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	= 0.0000	(1=NO UPD)

RIASSUNTO ELEMENTI

=====

RIASSUNTO ELEMENTI SOIL						
Name	Wall	Z1	Z2	Flag	Angle	
		m	m		deg	
DHRight	RightWall	0.	-30.00	DOWNHILL	0.	
UHRight	RightWall	0.	-30.00	UPHILL	180.0	

RIASSUNTO ELEMENTI BEAM						
Name	Wall	Z1	Z2	Mat	thick	
		m	m		m	
Right_wall	RightWall	0.	-22.00	_	0.9794	

RIASSUNTO ELEMENTI WIRE						
Name	Wall	Zeta	Mat	A/L	Pinit	Angle
		m			kN/m	deg
Wire01	RightWall	-0.5000	_	0.2872E-04	150.0	157.5
Wire2	RightWall	-4.000	_	0.4308E-04	150.0	157.5

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RIASSUNTO DATI VARI
=====

MATERIALI	
Name	YOUNG MODULUS
	kPa
Pali	3.2308E+007
Acci	2.1E+008

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RIASSUNTO ANALISI INCREMENTALE

FASE	N. DI ITERAZIONI	CONVERGENZA
1	3	SI
2	2	SI
3	2	SI
4	2	SI

MASSIMI SPOSTAMENTI LATERALI

TUTTI I PASSI

* PARETE RightWall*

* I PASSI NON EQUILIBRATI SONO ESCLUSI *

* NOTA: LE QUOTE ESPRESSE IN m

E GLI SPOSTAMENTI IN m

NODO	QUOTA ZETA	SPOSTAMENTO MASSIMO	FASE PARETE RightWall
1	0.0000	0.40869E-02	1
2	-0.20000	-0.40339E-02	4
3	-0.40000	-0.44103E-02	4
4	-0.50000	-0.45985E-02	4
5	-0.70000	-0.49749E-02	4
6	-0.90000	-0.53507E-02	4
7	-1.1000	-0.57256E-02	4
8	-1.3000	-0.60990E-02	4
9	-1.5000	-0.64704E-02	4
10	-1.7000	-0.68393E-02	4
11	-1.9000	-0.72054E-02	4
12	-2.1000	-0.75682E-02	4
13	-2.3000	-0.79274E-02	4
14	-2.5000	-0.82825E-02	4
15	-2.7000	-0.86333E-02	4
16	-2.9000	-0.89794E-02	4
17	-3.1000	-0.93206E-02	4
18	-3.3000	-0.96567E-02	4
19	-3.5000	-0.99874E-02	4
20	-3.7000	-0.10313E-01	4
21	-3.9000	-0.10632E-01	4
22	-4.0000	-0.10790E-01	4
23	-4.2000	-0.11101E-01	4
24	-4.4000	-0.11405E-01	4
25	-4.6000	-0.11702E-01	4
26	-4.8000	-0.11992E-01	4
27	-5.0000	-0.12273E-01	4
28	-5.2000	-0.12546E-01	4
29	-5.4000	-0.12809E-01	4
30	-5.6000	-0.13063E-01	4
31	-5.8000	-0.13306E-01	4
32	-6.0000	-0.13539E-01	4
33	-6.2000	-0.13762E-01	4
34	-6.4000	-0.13974E-01	4
35	-6.6000	-0.14174E-01	4
36	-6.8000	-0.14364E-01	4
37	-7.0000	-0.14542E-01	4
38	-7.2000	-0.14709E-01	4

NODO	QUOTA ZETA	SPOSTAMENTO MASSIMO	FASE PARETE RightWall
39	-7.4000	-0.14865E-01	4
40	-7.6000	-0.15009E-01	4
41	-7.8000	-0.15143E-01	4
42	-8.0000	-0.15266E-01	4
43	-8.2000	-0.15379E-01	4
44	-8.4000	-0.15481E-01	4
45	-8.6000	-0.15573E-01	4
46	-8.8000	-0.15655E-01	4
47	-9.0000	-0.15727E-01	4
48	-9.2000	-0.15789E-01	4
49	-9.4000	-0.15842E-01	4
50	-9.6000	-0.15886E-01	4
51	-9.8000	-0.15920E-01	4
52	-10.000	-0.15947E-01	4
53	-10.200	-0.15964E-01	4
54	-10.400	-0.15974E-01	4
55	-10.600	-0.15976E-01	4
56	-10.800	-0.15970E-01	4
57	-11.000	-0.15956E-01	4
58	-11.200	-0.15935E-01	4
59	-11.400	-0.15908E-01	4
60	-11.600	-0.15873E-01	4
61	-11.800	-0.15833E-01	4
62	-12.000	-0.15786E-01	4
63	-12.200	-0.15733E-01	4
64	-12.400	-0.15675E-01	4
65	-12.600	-0.15611E-01	4
66	-12.800	-0.15542E-01	4
67	-13.000	-0.15468E-01	4
68	-13.200	-0.15389E-01	4
69	-13.400	-0.15307E-01	4
70	-13.600	-0.15220E-01	4
71	-13.800	-0.15129E-01	4
72	-14.000	-0.15034E-01	4
73	-14.200	-0.14937E-01	4
74	-14.400	-0.14836E-01	4
75	-14.600	-0.14732E-01	4
76	-14.800	-0.14626E-01	4
77	-15.000	-0.14518E-01	4
78	-15.200	-0.14407E-01	4
79	-15.400	-0.14295E-01	4
80	-15.600	-0.14182E-01	4
81	-15.800	-0.14067E-01	4
82	-16.000	-0.13951E-01	4
83	-16.200	-0.13834E-01	4
84	-16.400	-0.13717E-01	4

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NODO	QUOTA ZETA	SPOSTAMENTO MASSIMO	FASE PARETE RightWall
85	-16.600	-0.13599E-01	4
86	-16.800	-0.13480E-01	4
87	-17.000	-0.13362E-01	4
88	-17.200	-0.13243E-01	4
89	-17.400	-0.13123E-01	4
90	-17.600	-0.13004E-01	4
91	-17.800	-0.12885E-01	4
92	-18.000	-0.12766E-01	4
93	-18.200	-0.12647E-01	4
94	-18.400	-0.12528E-01	4
95	-18.600	-0.12410E-01	4
96	-18.800	-0.12291E-01	4
97	-19.000	-0.12173E-01	4
98	-19.200	-0.12055E-01	4
99	-19.400	-0.11938E-01	4
100	-19.600	-0.11820E-01	4
101	-19.800	-0.11703E-01	4
102	-20.000	-0.11586E-01	4
103	-20.200	-0.11469E-01	4
104	-20.400	-0.11352E-01	4
105	-20.600	-0.11235E-01	4
106	-20.800	-0.11119E-01	4
107	-21.000	-0.11002E-01	4
108	-21.200	-0.10886E-01	4
109	-21.400	-0.10769E-01	4
110	-21.600	-0.10653E-01	4
111	-21.800	-0.10537E-01	4
112	-22.000	-0.10420E-01	4
113	-22.200	-0.11142E-01	4
114	-22.400	-0.11127E-01	4
115	-22.600	-0.11113E-01	4
116	-22.800	-0.11099E-01	4
117	-23.000	-0.11085E-01	4
118	-23.200	-0.11071E-01	4
119	-23.400	-0.11057E-01	4
120	-23.600	-0.11043E-01	4
121	-23.800	-0.11029E-01	4
122	-24.000	-0.11016E-01	4
123	-24.200	-0.11002E-01	4
124	-24.400	-0.10988E-01	4
125	-24.600	-0.10975E-01	4
126	-24.800	-0.10961E-01	4
127	-25.000	-0.10948E-01	4
128	-25.200	-0.10935E-01	4
129	-25.400	-0.10921E-01	4
130	-25.600	-0.10908E-01	4

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NODO	QUOTA ZETA	SPOSTAMENTO MASSIMO	FASE PARETE RightWall
131	-25.800	-0.10895E-01	4
132	-26.000	-0.10882E-01	4
133	-26.200	-0.10868E-01	4
134	-26.400	-0.10855E-01	4
135	-26.600	-0.10842E-01	4
136	-26.800	-0.10829E-01	4
137	-27.000	-0.10816E-01	4
138	-27.200	-0.10803E-01	4
139	-27.400	-0.10790E-01	4
140	-27.600	-0.10778E-01	4
141	-27.800	-0.10765E-01	4
142	-28.000	-0.10752E-01	4
143	-28.200	-0.10739E-01	4
144	-28.400	-0.10726E-01	4
145	-28.600	-0.10714E-01	4
146	-28.800	-0.10701E-01	4
147	-29.000	-0.10688E-01	4
148	-29.200	-0.10676E-01	4
149	-29.400	-0.10663E-01	4
150	-29.600	-0.10651E-01	4
151	-29.800	-0.10638E-01	4
152	-30.000	-0.10626E-01	4

INVILUPPO AZIONI INTERNE NEGLI ELEMENTI DI PARETE
 (PER UNITA' DI PROFONDITA')

* PARETE RightWall GRUPPO Right_wall*

STEP 1 - 4

* I PASSI NON EQUILIBRATI SONO ESCLUSI *

Nella tabella si stampano i seguenti risultati:

MOMENTO SX = Momento che tende le fibre sulla faccia sinistra [kN*m/m]

MOMENTO DX = Momento che tende le fibre sulla faccia destra [kN*m/m]

TAGLIO = forza tagliante (valore assoluto, priva di segno)[kN/m]

BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
1	A	0.	0.3856E-09	0.2765E-09	1.925
	B	-0.2000	0.	0.3849	1.925
2	A	-0.2000	0.	0.3849	6.383
	B	-0.4000	0.	1.661	6.383
3	A	-0.4000	0.	1.661	10.18
	B	-0.5000	0.	2.680	10.18
4	A	-0.5000	0.	2.680	168.2
	B	-0.7000	31.12	0.	168.2
5	A	-0.7000	31.12	0.	162.9
	B	-0.9000	63.69	0.	162.9
6	A	-0.9000	63.69	0.	157.1
	B	-1.100	95.12	0.	157.1
7	A	-1.100	95.12	0.	150.9
	B	-1.300	125.3	0.	150.9
8	A	-1.300	125.3	0.	144.3
	B	-1.500	154.2	0.	144.3
9	A	-1.500	154.2	0.	137.2
	B	-1.700	181.6	0.	137.2
10	A	-1.700	181.6	0.	131.2
	B	-1.900	207.5	0.	131.2
11	A	-1.900	207.5	0.	125.5
	B	-2.100	231.8	0.	125.5
12	A	-2.100	231.8	0.	119.1
	B	-2.300	254.4	0.	119.1
13	A	-2.300	254.4	0.	112.0
	B	-2.500	275.3	0.	112.0
14	A	-2.500	275.3	0.	104.2
	B	-2.700	294.2	0.	104.2
15	A	-2.700	294.2	0.	95.53
	B	-2.900	312.0	0.	95.53
16	A	-2.900	312.0	0.	86.14
	B	-3.100	329.2	0.	86.14
17	A	-3.100	329.2	0.	75.98
	B	-3.300	344.4	0.	75.98

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BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
18	A	-3.300	344.4	0.	65.05
	B	-3.500	357.4	0.	65.05
19	A	-3.500	357.4	0.	53.36
	B	-3.700	368.1	0.	53.36
20	A	-3.700	368.1	0.	40.88
	B	-3.900	376.3	0.	40.88
21	A	-3.900	376.3	0.	30.94
	B	-4.000	379.4	0.	30.94
22	A	-4.000	379.4	0.	219.5
	B	-4.200	408.5	0.	219.5
23	A	-4.200	408.5	0.	205.9
	B	-4.400	449.7	0.	205.9
24	A	-4.400	449.7	0.	191.8
	B	-4.600	488.0	0.	191.8
25	A	-4.600	488.0	0.	177.1
	B	-4.800	523.4	0.	177.1
26	A	-4.800	523.4	0.	161.7
	B	-5.000	555.8	0.	161.7
27	A	-5.000	555.8	0.	148.3
	B	-5.200	585.4	0.	148.3
28	A	-5.200	585.4	0.	134.2
	B	-5.400	612.3	0.	134.2
29	A	-5.400	612.3	0.	119.5
	B	-5.600	636.2	0.	119.5
30	A	-5.600	636.2	0.	104.2
	B	-5.800	657.0	0.	104.2
31	A	-5.800	657.0	0.	88.11
	B	-6.000	674.6	0.	88.11
32	A	-6.000	674.6	0.	71.39
	B	-6.200	688.9	0.	71.39
33	A	-6.200	688.9	0.	53.97
	B	-6.400	699.7	0.	53.97
34	A	-6.400	699.7	0.	36.01
	B	-6.600	706.9	0.	36.01
35	A	-6.600	706.9	0.	37.77
	B	-6.800	710.3	0.	37.77
36	A	-6.800	710.3	0.	39.27
	B	-7.000	709.8	0.	39.27
37	A	-7.000	709.8	0.	40.53
	B	-7.200	705.2	0.	40.53
38	A	-7.200	705.2	0.	41.56
	B	-7.400	698.7	0.	41.56
39	A	-7.400	698.7	0.	42.39
	B	-7.600	690.7	0.	42.39
40	A	-7.600	690.7	0.	46.18
	B	-7.800	681.4	0.	46.18

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History 0 - HOMOROD

BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
41	A	-7.800	681.4	0.	51.45
	B	-8.000	671.1	0.	51.45
42	A	-8.000	671.1	0.	56.03
	B	-8.200	659.9	0.	56.03
43	A	-8.200	659.9	0.	60.01
	B	-8.400	647.9	0.	60.01
44	A	-8.400	647.9	0.	63.47
	B	-8.600	635.2	0.	63.47
45	A	-8.600	635.2	0.	66.47
	B	-8.800	621.9	0.	66.47
46	A	-8.800	621.9	0.	69.05
	B	-9.000	608.1	0.	69.05
47	A	-9.000	608.1	0.	71.28
	B	-9.200	593.9	0.	71.28
48	A	-9.200	593.9	0.	73.17
	B	-9.400	579.2	0.	73.17
49	A	-9.400	579.2	0.	74.77
	B	-9.600	564.3	0.	74.77
50	A	-9.600	564.3	0.	76.11
	B	-9.800	549.1	0.	76.11
51	A	-9.800	549.1	0.	77.22
	B	-10.00	533.6	0.	77.22
52	A	-10.00	533.6	0.	78.13
	B	-10.20	518.0	0.	78.13
53	A	-10.20	518.0	0.	78.86
	B	-10.40	502.2	0.	78.86
54	A	-10.40	502.2	0.	79.43
	B	-10.60	486.3	0.	79.43
55	A	-10.60	486.3	0.	79.86
	B	-10.80	470.4	0.	79.86
56	A	-10.80	470.4	0.	80.19
	B	-11.00	454.3	0.	80.19
57	A	-11.00	454.3	0.	80.43
	B	-11.20	438.2	0.	80.43
58	A	-11.20	438.2	0.	80.59
	B	-11.40	422.1	0.	80.59
59	A	-11.40	422.1	0.	80.70
	B	-11.60	406.0	0.	80.70
60	A	-11.60	406.0	0.	80.77
	B	-11.80	389.8	0.	80.77
61	A	-11.80	389.8	0.	80.81
	B	-12.00	373.7	0.	80.81
62	A	-12.00	373.7	0.	80.86
	B	-12.20	357.5	0.	80.86
63	A	-12.20	357.5	0.	80.91
	B	-12.40	341.3	0.	80.91

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History 0 - HOMOROD

BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
64	A	-12.40	341.3	0.	80.98
	B	-12.60	325.1	0.	80.98
65	A	-12.60	325.1	0.	81.09
	B	-12.80	308.9	0.	81.09
66	A	-12.80	308.9	0.	81.25
	B	-13.00	292.7	0.	81.25
67	A	-13.00	292.7	0.	81.47
	B	-13.20	276.4	0.	81.47
68	A	-13.20	276.4	0.	81.76
	B	-13.40	260.0	0.	81.76
69	A	-13.40	260.0	0.	82.13
	B	-13.60	243.6	0.	82.13
70	A	-13.60	243.6	0.	82.59
	B	-13.80	227.1	0.	82.59
71	A	-13.80	227.1	0.	83.15
	B	-14.00	210.4	0.	83.15
72	A	-14.00	210.4	0.	83.82
	B	-14.20	193.7	0.	83.82
73	A	-14.20	193.7	0.	84.61
	B	-14.40	176.8	0.	84.61
74	A	-14.40	176.8	0.	85.52
	B	-14.60	159.7	0.	85.52
75	A	-14.60	159.7	0.	86.56
	B	-14.80	142.3	0.	86.56
76	A	-14.80	142.3	0.	87.74
	B	-15.00	124.8	0.	87.74
77	A	-15.00	124.8	0.	81.28
	B	-15.20	108.5	0.	81.28
78	A	-15.20	108.5	0.	75.03
	B	-15.40	93.53	0.	75.03
79	A	-15.40	93.53	0.	68.99
	B	-15.60	79.73	0.	68.99
80	A	-15.60	79.73	0.	63.17
	B	-15.80	67.10	0.	63.17
81	A	-15.80	67.10	0.	57.56
	B	-16.00	55.58	1.558	57.56
82	A	-16.00	55.58	1.558	52.18
	B	-16.20	45.15	4.967	52.18
83	A	-16.20	45.15	4.967	47.03
	B	-16.40	35.74	7.902	47.03
84	A	-16.40	35.74	7.902	42.11
	B	-16.60	27.32	10.39	42.11
85	A	-16.60	27.32	10.39	37.41
	B	-16.80	19.84	12.46	37.41
86	A	-16.80	19.84	12.46	32.95
	B	-17.00	13.25	14.13	32.95

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History 0 - HOMOROD

BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
87	A	-17.00	13.25	14.13	28.73
	B	-17.20	7.500	15.43	28.73
88	A	-17.20	7.500	15.43	24.74
	B	-17.40	3.516	16.39	24.74
89	A	-17.40	3.516	16.39	20.99
	B	-17.60	1.292	17.03	20.99
90	A	-17.60	1.292	17.03	17.47
	B	-17.80	0.	17.37	17.47
91	A	-17.80	0.	17.37	14.19
	B	-18.00	0.	17.45	14.19
92	A	-18.00	0.	17.45	11.15
	B	-18.20	0.	17.28	11.15
93	A	-18.20	0.	17.28	8.344
	B	-18.40	0.	16.89	8.344
94	A	-18.40	0.	16.89	5.778
	B	-18.60	0.	16.32	5.778
95	A	-18.60	0.	16.32	3.746
	B	-18.80	0.	15.57	3.746
96	A	-18.80	0.	15.57	4.471
	B	-19.00	0.	14.67	4.471
97	A	-19.00	0.	14.67	5.077
	B	-19.20	0.	13.89	5.077
98	A	-19.20	0.	13.89	5.561
	B	-19.40	0.	13.47	5.561
99	A	-19.40	0.	13.47	5.927
	B	-19.60	0.	12.77	5.927
100	A	-19.60	0.	12.77	6.174
	B	-19.80	0.	11.84	6.174
101	A	-19.80	0.	11.84	6.302
	B	-20.00	0.	10.73	6.302
102	A	-20.00	0.	10.73	6.312
	B	-20.20	0.	9.487	6.312
103	A	-20.20	0.	9.487	6.661
	B	-20.40	0.	8.155	6.661
104	A	-20.40	0.	8.155	6.863
	B	-20.60	0.	6.783	6.863
105	A	-20.60	0.	6.783	6.829
	B	-20.80	0.	5.417	6.829
106	A	-20.80	0.	5.417	6.560
	B	-21.00	0.	4.105	6.560
107	A	-21.00	0.	4.105	6.056
	B	-21.20	0.	2.894	6.056
108	A	-21.20	0.	2.894	5.316
	B	-21.40	0.	1.831	5.316
109	A	-21.40	0.	1.831	4.341
	B	-21.60	0.	0.9625	4.341

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BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
110	A	-21.60	0.	0.9625	3.130
	B	-21.80	0.	0.3366	3.130
111	A	-21.80	0.	0.3366	1.683
	B	-22.00	0.1673E-09	0.2728E-10	1.683

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PAG. 21

FORZE NEGLI ANCORAGGI ATTIVI (PER UNITA' DI PROFONDITA')

TIRANTE	Wire01	1 PARETE RightWall	QUOTA	-0.50000
		FASE 1 FORZA	150.00	kN/m
		FASE 2 FORZA	170.03	kN/m
		FASE 3 FORZA	156.69	kN/m
		FASE 4 FORZA	196.16	kN/m
TIRANTE	Wire2	1 PARETE RightWall	QUOTA	-4.00000
		FASE 1 inattivo		
		FASE 2 inattivo		
		FASE 3 FORZA	150.00	kN/m
		FASE 4 FORZA	228.52	kN/m

INVILUPPO RISULTATI NEGLI ELEMENTI TERRENO

* PARETE RightWall GRUPPO DRight*

STEP 1 - 4

* I PASSI NON EQUILIBRATI SONO ESCLUSI *

Nella tabella si stampano i seguenti risultati:

SIGMA-H = massimo sforzo orizzontale efficace [kPa]

TAGLIO = massimo sforzo di taglio [kPa]

PR. ACQUA =massima pressione interstiziale [kPa]

GRAD. MAX =massimo gradiente idraulico

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
1	0.	0.	0.	0.	0.
2	-0.2000	0.	0.	0.	0.
3	-0.4000	0.	0.	0.	0.
4	-0.5000	0.	0.	0.	0.
5	-0.7000	0.	1.900	0.	0.
6	-0.9000	0.	3.800	0.	0.
7	-1.100	0.	5.700	0.	0.
8	-1.300	0.	7.600	0.	0.
9	-1.500	3.328	7.836	0.	0.
10	-1.700	7.966	7.417	0.	0.
11	-1.900	12.59	7.004	0.	0.
12	-2.100	17.21	6.596	0.	0.
13	-2.300	21.81	6.196	0.	0.
14	-2.500	26.40	5.802	0.	0.
15	-2.700	30.97	5.417	0.	0.
16	-2.900	35.52	5.039	0.	0.
17	-3.100	40.06	4.671	0.	0.
18	-3.300	44.58	4.312	0.	0.
19	-3.500	49.08	3.962	0.	0.
20	-3.700	53.56	3.621	0.	0.
21	-3.900	58.02	3.291	0.	0.
22	-4.000	60.24	8.985	0.	0.
23	-4.200	64.67	10.88	2.074	0.3704E-01
24	-4.400	69.08	12.87	4.148	0.3704E-01
25	-4.600	73.47	14.41	6.222	0.3704E-01
26	-4.800	77.84	15.71	8.296	0.3704E-01
27	-5.000	81.01	19.56	10.37	0.3704E-01
28	-5.200	85.62	20.77	12.44	0.3704E-01
29	-5.400	90.20	21.89	14.52	0.3704E-01
30	-5.600	94.76	22.94	16.59	0.3704E-01
31	-5.800	99.28	23.93	18.67	0.3704E-01
32	-6.000	103.8	24.87	20.74	0.3704E-01
33	-6.200	108.2	25.78	22.81	0.3704E-01
34	-6.400	112.7	26.62	24.89	0.3704E-01
35	-6.600	117.0	27.40	26.96	0.3704E-01

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History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
36	-6.800	121.2	28.15	29.04	0.3704E-01
37	-7.000	125.5	28.87	31.11	0.3704E-01
38	-7.200	129.8	29.56	33.19	0.3704E-01
39	-7.400	134.0	34.16	35.26	0.1024
40	-7.600	138.2	36.92	37.33	0.1024
41	-7.800	142.4	39.00	39.41	0.1024
42	-8.000	146.5	40.73	41.48	0.1024
43	-8.200	150.7	42.24	43.56	0.1024
44	-8.400	154.8	43.60	45.63	0.1024
45	-8.600	159.0	44.83	47.70	0.1024
46	-8.800	163.1	45.96	49.78	0.1024
47	-9.000	167.1	47.02	51.85	0.1024
48	-9.200	171.2	48.00	53.93	0.1024
49	-9.400	175.3	48.93	56.00	0.1024
50	-9.600	179.3	49.80	58.07	0.1024
51	-9.800	183.3	50.62	60.15	0.1024
52	-10.00	187.4	51.40	62.22	0.1024
53	-10.20	191.4	52.14	64.30	0.1024
54	-10.40	195.3	52.85	66.37	0.1024
55	-10.60	199.3	53.52	68.44	0.1024
56	-10.80	203.3	54.16	70.52	0.1024
57	-11.00	207.3	54.78	72.59	0.1024
58	-11.20	211.2	55.36	74.67	0.1024
59	-11.40	215.1	55.92	76.74	0.1024
60	-11.60	219.1	56.46	78.81	0.1024
61	-11.80	223.0	56.97	80.89	0.1024
62	-12.00	226.9	57.46	82.96	0.1024
63	-12.20	230.8	57.94	85.04	0.1024
64	-12.40	234.7	58.39	87.11	0.1024
65	-12.60	238.6	58.83	89.19	0.1024
66	-12.80	242.5	59.25	91.26	0.1024
67	-13.00	246.4	59.65	93.33	0.1024
68	-13.20	250.3	60.04	95.41	0.1024
69	-13.40	254.1	60.42	97.48	0.1024
70	-13.60	258.0	60.78	99.56	0.1024
71	-13.80	261.9	61.13	101.6	0.1024
72	-14.00	265.7	61.47	103.7	0.1024
73	-14.20	269.6	61.80	105.8	0.1024
74	-14.40	273.4	62.12	107.9	0.1024
75	-14.60	277.3	62.43	109.9	0.1024
76	-14.80	281.1	62.74	112.0	0.1024
77	-15.00	286.7	71.74	114.1	0.1024
78	-15.20	290.6	71.97	116.1	0.1024
79	-15.40	294.4	72.18	118.2	0.1024
80	-15.60	298.2	72.39	120.3	0.1024
81	-15.80	302.0	72.59	122.4	0.1024

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History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
82	-16.00	305.8	72.79	124.4	0.1024
83	-16.20	309.6	72.99	126.5	0.1024
84	-16.40	313.4	73.18	128.6	0.1024
85	-16.60	317.3	73.36	130.7	0.1024
86	-16.80	321.1	73.55	132.7	0.1024
87	-17.00	324.9	73.73	134.8	0.1024
88	-17.20	328.7	73.91	136.9	0.1024
89	-17.40	332.5	74.09	139.0	0.1024
90	-17.60	336.3	74.26	141.0	0.1024
91	-17.80	340.1	74.44	143.1	0.1024
92	-18.00	343.9	74.61	145.2	0.1024
93	-18.20	347.7	74.79	147.3	0.1024
94	-18.40	351.6	74.96	149.3	0.1024
95	-18.60	355.4	75.13	151.4	0.1024
96	-18.80	359.2	75.31	153.5	0.1024
97	-19.00	363.0	75.48	155.6	0.1024
98	-19.20	366.8	75.65	157.6	0.1024
99	-19.40	370.6	75.82	159.7	0.1024
100	-19.60	374.4	75.99	161.8	0.1024
101	-19.80	378.2	76.16	163.9	0.1024
102	-20.00	382.1	76.33	165.9	0.1024
103	-20.20	385.9	76.50	168.0	0.1024
104	-20.40	389.7	76.67	170.1	0.1024
105	-20.60	393.5	76.84	172.1	0.1024
106	-20.80	397.3	77.01	174.2	0.1024
107	-21.00	401.1	77.18	176.3	0.1024
108	-21.20	404.9	77.35	178.4	0.1024
109	-21.40	408.8	77.52	180.4	0.1024
110	-21.60	412.6	77.69	182.5	0.1024
111	-21.80	416.4	77.85	184.6	0.1024
112	-22.00	420.2	78.02	186.7	0.1024
113	-22.20	424.7	80.30	188.7	0.1024
114	-22.40	428.6	80.72	190.8	0.1024
115	-22.60	432.5	81.15	192.9	0.1024
116	-22.80	436.4	81.57	195.0	0.1024
117	-23.00	440.3	82.00	197.0	0.1024
118	-23.20	444.2	82.42	199.1	0.1024
119	-23.40	448.1	82.85	201.2	0.1024
120	-23.60	452.0	83.27	203.3	0.1024
121	-23.80	455.9	83.69	205.3	0.1024
122	-24.00	459.8	84.12	207.4	0.1024
123	-24.20	463.7	84.54	209.5	0.1024
124	-24.40	467.6	84.96	211.6	0.1024
125	-24.60	471.5	85.39	213.6	0.1024
126	-24.80	475.4	85.81	215.7	0.1024
127	-25.00	479.3	86.23	217.8	0.1024

PARATIE 7.00

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History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
128	-25.20	483.2	86.66	219.9	0.1024
129	-25.40	487.1	87.08	221.9	0.1024
130	-25.60	491.0	87.50	224.0	0.1024
131	-25.80	494.9	87.92	226.1	0.1024
132	-26.00	498.8	88.34	228.1	0.1024
133	-26.20	502.7	88.77	230.2	0.1024
134	-26.40	506.6	89.19	232.3	0.1024
135	-26.60	510.5	89.61	234.4	0.1024
136	-26.80	514.4	90.03	236.4	0.1024
137	-27.00	518.3	90.45	238.5	0.1024
138	-27.20	522.2	90.87	240.6	0.1024
139	-27.40	526.1	91.29	242.7	0.1024
140	-27.60	530.0	91.71	244.7	0.1024
141	-27.80	533.9	92.13	246.8	0.1024
142	-28.00	537.8	92.55	248.9	0.1024
143	-28.20	541.7	92.97	251.0	0.1024
144	-28.40	545.6	93.39	253.0	0.1024
145	-28.60	549.5	93.81	255.1	0.1024
146	-28.80	553.4	94.23	257.2	0.1024
147	-29.00	557.3	94.65	259.3	0.1024
148	-29.20	561.2	95.07	261.3	0.1024
149	-29.40	565.1	95.49	263.4	0.1024
150	-29.60	569.0	95.91	265.5	0.1024
151	-29.80	572.9	96.33	267.6	0.1024
152	-30.00	576.8	96.75	269.6	0.1024

INVILUPPO RISULTATI NEGLI ELEMENTI TERRENO

* PARETE RightWall GRUPPO UHRight*

STEP 1 - 4

* I PASSI NON EQUILIBRATI SONO ESCLUSI *

Nella tabella si stampano i seguenti risultati:

SIGMA-H = massimo sforzo orizzontale efficace [kPa]

TAGLIO = massimo sforzo di taglio [kPa]

PR. ACQUA =massima pressione interstiziale [kPa]

GRAD. MAX =massimo gradiente idraulico

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
1	0.	19.25	9.623	0.	0.
2	-0.2000	22.29	9.246	0.	0.
3	-0.4000	25.34	8.869	0.	0.
4	-0.5000	26.86	8.681	0.	0.
5	-0.7000	29.91	8.304	0.	0.
6	-0.9000	32.96	7.928	0.	0.
7	-1.100	36.01	7.554	0.	0.
8	-1.300	39.07	7.221	0.	0.
9	-1.500	42.13	7.975	0.	0.
10	-1.700	45.20	8.725	0.	0.
11	-1.900	48.28	9.468	0.	0.
12	-2.100	51.37	10.20	0.9630	0.1024
13	-2.300	54.48	10.93	2.889	0.1024
14	-2.500	57.59	11.65	4.815	0.1024
15	-2.700	60.72	12.36	6.741	0.1024
16	-2.900	63.86	13.06	8.667	0.1024
17	-3.100	67.02	13.75	10.59	0.1024
18	-3.300	70.20	14.43	12.52	0.1024
19	-3.500	73.39	15.10	14.44	0.1024
20	-3.700	76.60	15.75	16.37	0.1024
21	-3.900	79.82	16.40	18.30	0.1024
22	-4.000	81.44	16.72	19.26	0.1024
23	-4.200	84.70	17.34	21.19	0.1024
24	-4.400	87.97	17.96	23.11	0.1024
25	-4.600	91.25	18.47	25.04	0.1024
26	-4.800	94.56	18.61	26.96	0.1024
27	-5.000	99.33	25.48	28.89	0.1024
28	-5.200	102.5	25.82	30.81	0.1024
29	-5.400	105.8	26.14	32.74	0.1024
30	-5.600	109.1	26.43	34.67	0.1024
31	-5.800	112.4	26.70	36.59	0.1024
32	-6.000	115.7	26.94	38.52	0.1024
33	-6.200	119.0	27.16	40.44	0.1024
34	-6.400	122.4	27.35	42.37	0.1024
35	-6.600	125.7	27.56	44.30	0.1024

PARATIE 7.00

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History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
36	-6.800	129.0	27.76	46.22	0.1024
37	-7.000	132.3	27.93	48.15	0.1024
38	-7.200	135.7	28.06	50.07	0.1024
39	-7.400	139.1	28.16	52.00	0.1024
40	-7.600	142.5	28.23	53.93	0.1024
41	-7.800	146.0	28.27	55.85	0.1024
42	-8.000	149.5	28.28	57.78	0.1024
43	-8.200	153.0	28.26	59.70	0.1024
44	-8.400	156.5	28.21	61.63	0.1024
45	-8.600	160.1	28.12	63.56	0.1024
46	-8.800	163.6	28.01	65.48	0.1024
47	-9.000	167.3	27.88	67.41	0.1024
48	-9.200	170.9	27.71	69.33	0.1024
49	-9.400	174.6	27.52	71.26	0.1024
50	-9.600	178.2	27.30	73.19	0.1024
51	-9.800	181.9	27.05	75.11	0.1024
52	-10.00	185.7	26.78	77.04	0.1024
53	-10.20	189.4	26.49	78.96	0.1024
54	-10.40	193.1	26.17	80.89	0.1024
55	-10.60	196.9	25.83	82.81	0.1024
56	-10.80	200.7	25.47	84.74	0.1024
57	-11.00	204.5	25.09	86.67	0.1024
58	-11.20	208.3	24.68	88.59	0.1024
59	-11.40	212.2	24.26	90.52	0.1024
60	-11.60	216.0	23.82	92.44	0.1024
61	-11.80	219.9	23.36	94.37	0.1024
62	-12.00	223.8	22.88	96.30	0.1024
63	-12.20	227.7	22.38	98.22	0.1024
64	-12.40	231.6	21.87	100.1	0.1024
65	-12.60	235.5	21.35	102.1	0.1024
66	-12.80	239.4	20.81	104.0	0.1024
67	-13.00	243.3	20.25	105.9	0.1024
68	-13.20	247.2	19.68	107.9	0.1024
69	-13.40	251.2	19.10	109.8	0.1024
70	-13.60	255.1	18.51	111.7	0.1024
71	-13.80	259.1	17.91	113.6	0.1024
72	-14.00	263.1	17.30	115.6	0.1024
73	-14.20	267.0	16.68	117.5	0.1024
74	-14.40	271.0	16.05	119.4	0.1024
75	-14.60	275.0	15.41	121.3	0.1024
76	-14.80	279.0	14.77	123.3	0.1024
77	-15.00	280.8	24.85	125.2	0.1024
78	-15.20	284.8	24.11	127.1	0.1024
79	-15.40	288.8	23.37	129.0	0.1024
80	-15.60	292.8	22.62	131.0	0.1024
81	-15.80	296.9	21.86	132.9	0.1024

PARATIE 7.00

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History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
82	-16.00	300.9	21.11	134.8	0.1024
83	-16.20	304.9	20.35	136.7	0.1024
84	-16.40	309.0	19.58	138.7	0.1024
85	-16.60	313.0	18.82	140.6	0.1024
86	-16.80	317.0	18.05	142.5	0.1024
87	-17.00	321.0	17.28	144.4	0.1024
88	-17.20	325.1	16.52	146.4	0.1024
89	-17.40	329.1	15.75	148.3	0.1024
90	-17.60	333.1	14.98	150.2	0.1024
91	-17.80	337.2	14.21	152.1	0.1024
92	-18.00	341.2	14.03	154.1	0.1024
93	-18.20	345.2	14.62	156.0	0.1024
94	-18.40	349.3	15.21	157.9	0.1024
95	-18.60	353.3	15.80	159.9	0.1024
96	-18.80	357.3	16.39	161.8	0.1024
97	-19.00	361.4	16.98	163.7	0.1024
98	-19.20	365.4	17.57	165.6	0.1024
99	-19.40	369.4	18.16	167.6	0.1024
100	-19.60	373.4	18.74	169.5	0.1024
101	-19.80	377.5	19.32	171.4	0.1024
102	-20.00	381.5	19.91	173.3	0.1024
103	-20.20	385.5	20.49	175.3	0.1024
104	-20.40	389.6	21.07	177.2	0.1024
105	-20.60	393.6	21.65	179.1	0.1024
106	-20.80	397.6	22.24	181.0	0.1024
107	-21.00	401.6	22.82	183.0	0.1024
108	-21.20	405.7	23.40	184.9	0.1024
109	-21.40	409.7	23.98	186.8	0.1024
110	-21.60	413.7	24.56	188.7	0.1024
111	-21.80	417.7	25.14	190.7	0.1024
112	-22.00	421.8	25.72	192.6	0.1024
113	-22.20	424.7	24.51	194.5	0.1024
114	-22.40	428.6	24.92	196.4	0.1024
115	-22.60	432.5	25.34	198.4	0.1024
116	-22.80	436.4	25.75	200.3	0.1024
117	-23.00	440.3	26.17	202.2	0.1024
118	-23.20	444.2	26.58	204.1	0.1024
119	-23.40	448.1	27.00	206.1	0.1024
120	-23.60	452.0	27.41	208.0	0.1024
121	-23.80	455.9	27.83	209.9	0.1024
122	-24.00	459.8	28.24	211.9	0.1024
123	-24.20	463.7	28.66	213.8	0.1024
124	-24.40	467.6	29.07	215.7	0.1024
125	-24.60	471.5	29.48	217.6	0.1024
126	-24.80	475.4	29.90	219.6	0.1024
127	-25.00	479.3	30.31	221.5	0.1024

PARATIE 7.00

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History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
128	-25.20	483.2	30.73	223.4	0.1024
129	-25.40	487.1	31.14	225.3	0.1024
130	-25.60	491.0	31.56	227.3	0.1024
131	-25.80	494.9	31.97	229.2	0.1024
132	-26.00	498.8	32.38	231.1	0.1024
133	-26.20	502.7	32.80	233.0	0.1024
134	-26.40	506.6	33.21	235.0	0.1024
135	-26.60	510.5	33.63	236.9	0.1024
136	-26.80	514.4	34.04	238.8	0.1024
137	-27.00	518.3	34.46	240.7	0.1024
138	-27.20	522.2	34.87	242.7	0.1024
139	-27.40	526.1	35.28	244.6	0.1024
140	-27.60	530.0	35.70	246.5	0.1024
141	-27.80	533.9	36.11	248.4	0.1024
142	-28.00	537.8	36.52	250.4	0.1024
143	-28.20	541.7	36.94	252.3	0.1024
144	-28.40	545.6	37.35	254.2	0.1024
145	-28.60	549.5	37.77	256.1	0.1024
146	-28.80	553.4	38.18	258.1	0.1024
147	-29.00	557.3	38.59	260.0	0.1024
148	-29.20	561.2	39.01	261.9	0.1024
149	-29.40	565.1	39.42	263.9	0.1024
150	-29.60	569.0	39.84	265.8	0.1024
151	-29.80	572.9	40.25	267.7	0.1024
152	-30.00	576.8	40.66	269.6	0.1024

RIASSUNTO SPINTE NEGLI ELEMENTI TERRENO
(LE SPINTE SONO CALCOLATE INTEGRANDO GLI SFORZI NEI SINGOLI ELEMENTI MOLLA)

SPINTA EFFICACE VERA = Integrale delle pressioni orizzontali efficaci in tutti gli elementi nel gruppo: unita' di misura kN/m

SPINTA ACQUA = Integrale delle pressioni interstiziali in tutti gli elementi nel gruppo: unita' di misura kN/m

SPINTA TOTALE VERA = Somma della SPINTA EFFICACE e della SPINTA DELL'ACQUA: e' l' azione totale sulla parete: unita' di misura kN/m

SPINTA ATTIVA POSSIBILE = La minima spinta che puo' essere esercitata da questo gruppo di elementi terreno, in questa fase: unita' di misura kN/m

SPINTA PASSIVA POSSIBILE = La massima spinta che puo' essere esercitata da questo gruppo di elementi terreno, in questa fase: unita' di misura kN/m

RAPPORTO PASSIVA/VERA = e' il rapporto tra la massima spinta possibile e la spinta efficace vera: fornisce un'indicazione su quanta spinta passiva venga mobilitata;

SPINTA PASSIVA MOBILITATA = e' l'inverso del rapporto precedente, espresso in unita' percentuale: indica quanta parte della massima spinta possibile e' stata mobilitata;

RAPPORTO VERA/ATTIVA = e' il rapporto tra la spinta efficace vera e la minima spinta possibile: fornisce un'indicazione di quanto questa porzione di terreno sia prossima alla condizione di massimo rilascio.

FASE	1	GRUPPO -->	DHRi	UHRi
SPINTA EFFICACE VERA			8476.5	8615.1
SPINTA ACQUA			0.	0.
SPINTA TOTALE VERA			8476.5	8615.1
SPINTA ATTIVA (POSSIBILE)			1376.7	1455.3
SPINTA PASSIVA (POSSIBILE)			33223.	34194.
RAPPORTO PASSIVA/VERA			3.9194	3.9691
SPINTA PASSIVA MOBILITATA			26.%	25.%
RAPPORTO VERA/ATTIVA			6.1571	5.9197

PARATIE 7.00
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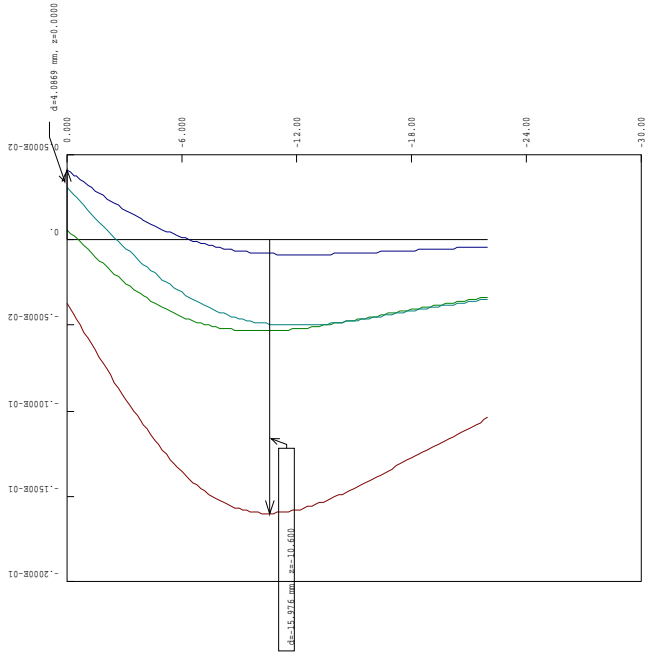
PAG. 31

FASE	2	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	5732.2	5619.6
		SPINTA ACQUA	3505.2	3774.9
		SPINTA TOTALE VERA	9237.4	9394.5
		SPINTA ATTIVA (POSSIBILE)	26.328	233.91
		SPINTA PASSIVA (POSSIBILE)	15209.	21665.
		RAPPORTO PASSIVA/VERA	2.6533	3.8552
		SPINTA PASSIVA MOBILITATA	38.%	26.%
		RAPPORTO VERA/ATTIVA	217.72	24.024

FASE	3	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	5695.1	5708.8
		SPINTA ACQUA	3505.2	3774.9
		SPINTA TOTALE VERA	9200.3	9483.6
		SPINTA ATTIVA (POSSIBILE)	26.328	233.91
		SPINTA PASSIVA (POSSIBILE)	15209.	21665.
		RAPPORTO PASSIVA/VERA	2.6706	3.7951
		SPINTA PASSIVA MOBILITATA	37.%	26.%
		RAPPORTO VERA/ATTIVA	216.31	24.405

FASE	4	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	5499.3	5238.2
		SPINTA ACQUA	2865.3	3518.8
		SPINTA TOTALE VERA	8364.6	8757.0
		SPINTA ATTIVA (POSSIBILE)	0.	448.24
		SPINTA PASSIVA (POSSIBILE)	11892.	24805.
		RAPPORTO PASSIVA/VERA	2.1625	4.7355
		SPINTA PASSIVA MOBILITATA	46.%	21.%
		RAPPORTO VERA/ATTIVA	0.10000E+06	11.686

OUTPUT PLOTS:



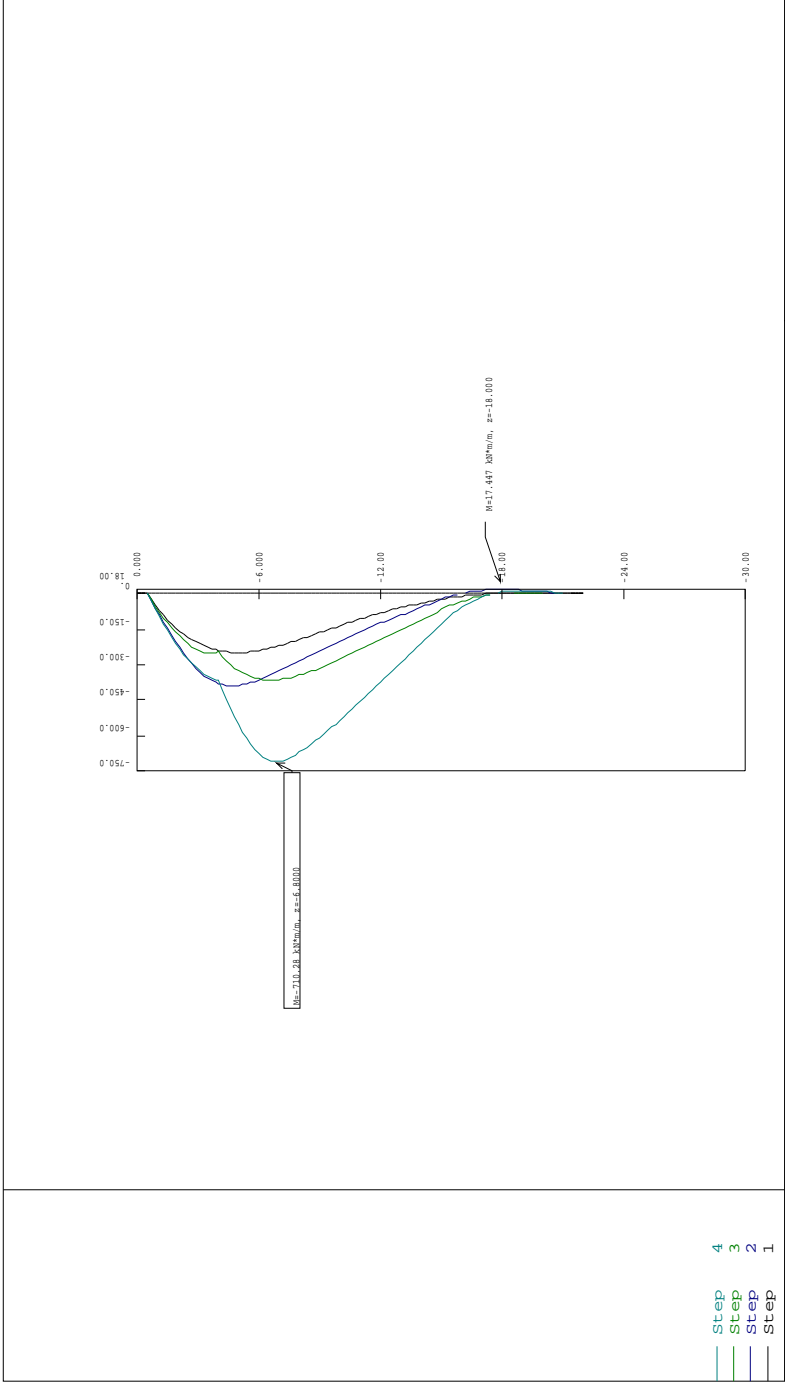
- step 4
- step 3
- step 2
- step 1

FATTORE SCALIA: 2.46 - FATTORE AMPLIF. : 841.80
 DEFORMATA PASSI 1 / 4 [m]

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REPORT 0 - MODELLO
 C:\Users\domini\Documents\simon\cassa\11\11\11 - Baralle - monod_Lato_Bassa\18 - Altimet_22im_1P1211

Force units= N
 Length units= m



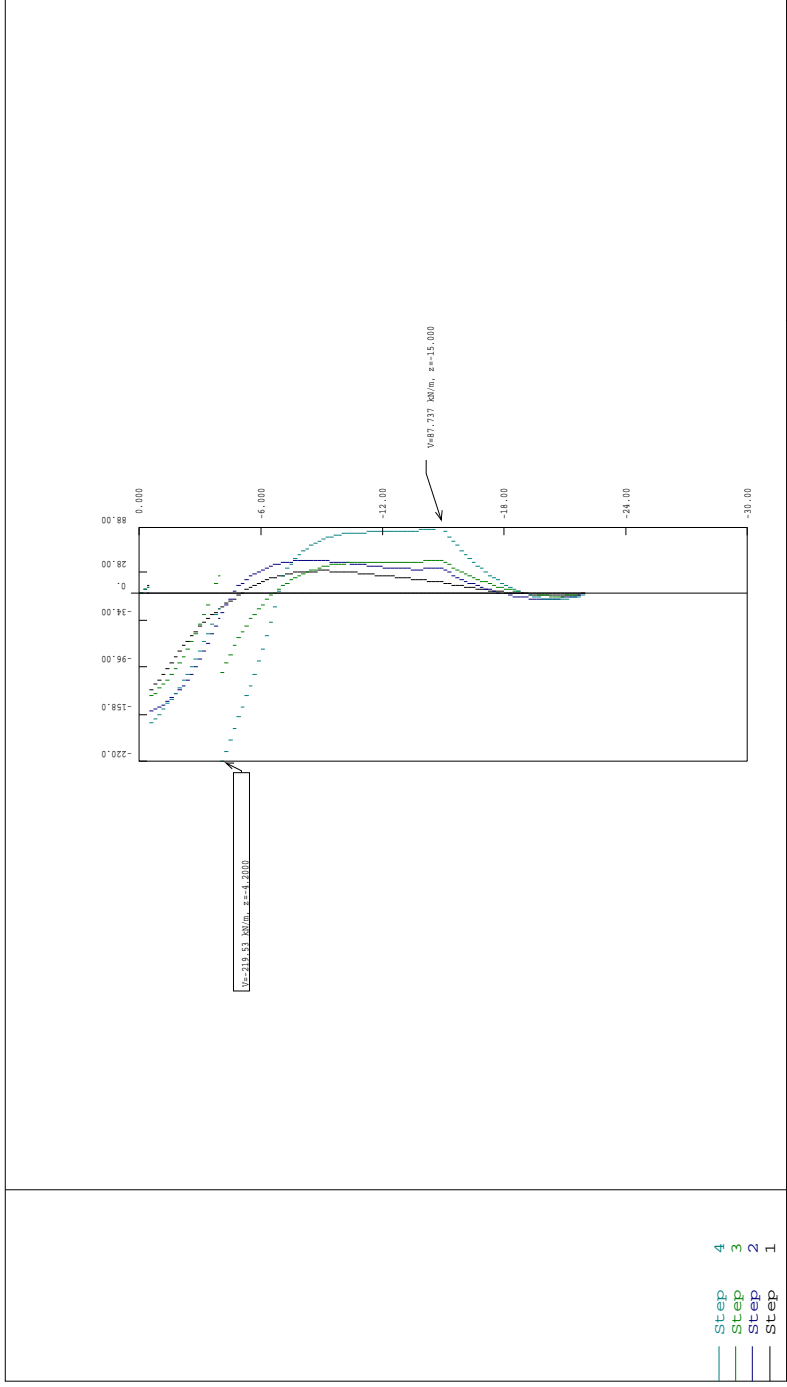
MOMENTI FLETTENTI [kN*m/m]
 INVILUPPO DA 1 A 4 SCALA GEOM. : 2,32

FILE: C:\Users\ADMINISTRATOR\AppData\Local\Temp\AutoCAD\2011\220m_0122011_01.dwg

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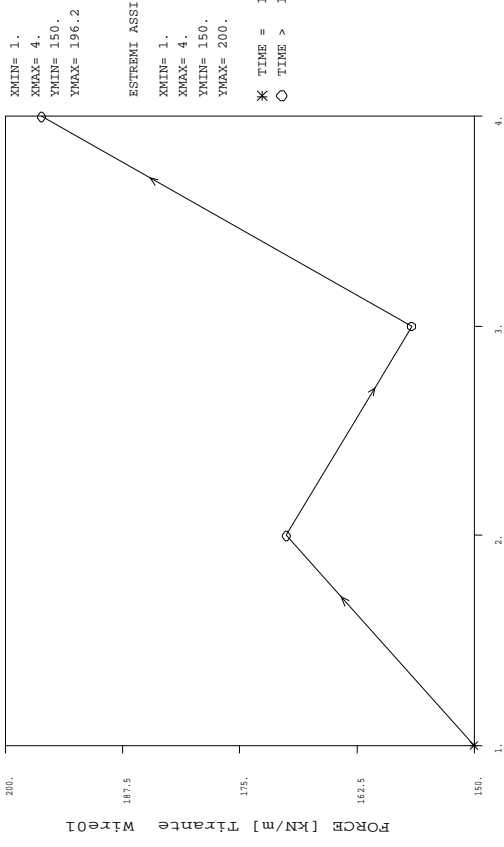
Perce unitas KN
 Length unitas M



TAGLI [KN/m]
 INVILUPPO DA 1 A 4 SCALA GEOM. : 2,32

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Tirante Wire01	
STEP	FORCE [KN/m]
1.	150.
2.	170.0
3.	156.7
4.	196.2



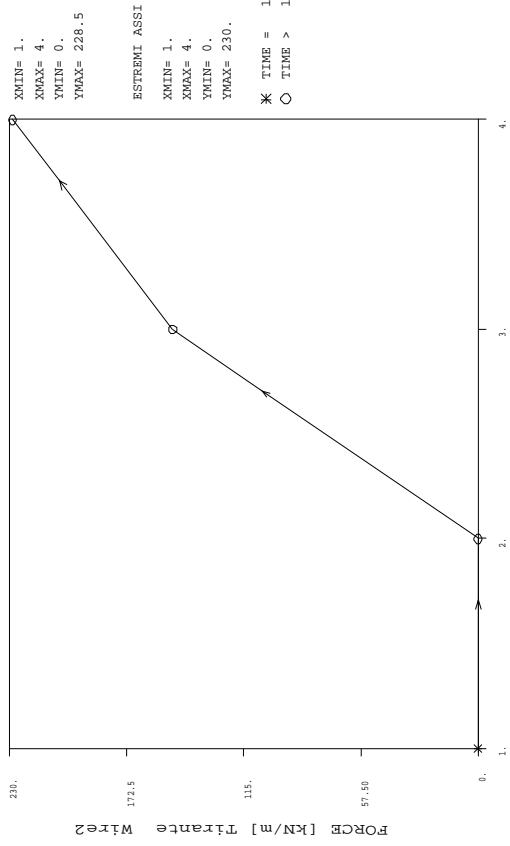
DAL PASSO 1 AL PASSO 4
DIAGRAMMA VARIABILE X / VARIABILE Y

REPORT 0 - FORCEDI
C:\Users\ADMINISTR\Documents\catala_11\11\11_11\Borealis_Borealis_000001_220m_111111

Force units= KN
Length units= M

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P A R A T I E 7.00
16 NOVEMBRE 2011 13:12:22

Tirante Wire2	FORCE [KN/m]
1.	0.
2.	0.
3.	150.
4.	228.5



STEP

DAL PASSO 1 AL PASSO 4
 DIAGRAMMA VARIABILE X / VARIABILE Y

REPORT 0 - FORCEDI
 C:\Users\ADMINISTRATORE\Desktop\Basilica_Borromeo_Lato_Baccolato_Album_22dm_01.dwg

Force units= KN
 Length units= M

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PARATIE 7.00
16 NOVEMBRE 2011 13:12:44
History 0 - HOMOROD

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PAG. 1

```
*****  
**  
**          P  A  R  A  T  I  E          **  
**  
**          RELEASE 7.00  VERSIONE WIN  **  
**  
**  Ce.A.S. s.r.l. - Viale Giustiniano, 10  **  
**                      20129 MILANO      **  
**  
*****
```

JOBNAME C:\Users\Tecnico5\Desktop\Nuova cartella (3)\File Paratie Homorod L

16 NOVEMBRE 2011 13:12:44

ELENCO DEI DATI DI INPUT(PARAGEN)

Per il significato dei vari comandi
si faccia riferimento al manuale di
input PARAGEN, versione 7.00.

N. comando

```
1: * Paratie for Windows version 7.0
2: * Filename= <c:\users\tecnico5\desktop\nuova cartella (3)\file paratie
  homorod 1
3: * project with "run time" parameters
4: * Force=kN Lenght=m
5: *
6: units m kN
7: title History 0 - HOMOROD
8: delta 0.2
9: option param itemax 20
10: option noprint echo
11: option noprint displ
12: option noprint react
13: option noprint stresses
14:   wall RightWall 0 -30 0
15: *
16: soil DHRight RightWall -30 0 2 0
17: soil UHRight RightWall -30 0 1 180
18: *
19: material Pali 3.2308E+007
20: material Acciaio 2.1E+008
21: *
22: beam Right_wall RightWall -25 0 Pali 0.979439 00 00
23: *
24: wire Wire01 RightWall -0.5 Acciaio 2.87179E-005 150 157.5
25: wire Wire2 RightWall -4 Acciaio 4.30769E-005 150 157.5
26: wire Wire3 RightWall -8 Acciaio 4.30769E-005 300 157.5
27: *
28: * Soil Profile
29: *
30:   ldata           Soil 0
31:     weight       19 9 10
32:     atrest       1 0.5 1
33:     resistance   20 25 0.359 3.319
34:     young        12000 17000
35:   endlayer
36:   ldata           Soil2 -5
37:     weight       19.5 9.5 10
38:     atrest       1 0.5 1
```

PARATIE 7.00
16 NOVEMBRE 2011 13:12:44
History 0 - HOMOROD

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PAG. 3

N. comando

```
39:      resistance 45 25 0.359 3.319
40:      young      18000 23000
41:      endlayer
42:      ldata      Soil3 -15
43:      weight     19.5 9.5 10
44:      atrest     1 0.5 1
45:      resistance 60 25 0.359 3.319
46:      young      25000 30000
47:      endlayer
48: *
49: step 1 :
50:      setwall RightWall
51:      geom 0 -0.5
52:      add Wire01
53: endstep
54: *
55: step 2 :
56:      setwall RightWall
57:      geom 0 -4
58:      water -2 2
59: endstep
60: *
61: step 3 :
62:      setwall RightWall
63:      add Wire2
64: endstep
65: *
66: step 4 :
67:      setwall RightWall
68:      geom 0 -8.5
69:      water -2 6.5
70: endstep
71: *
72: step 5 :
73:      setwall RightWall
74:      add Wire3
75: endstep
76: *
77: step 6 :
78:      setwall RightWall
79:      geom 0 -10.2
80:      water -2 8.2
81:      surcharge 23 0 0 0
82: endstep
83: *
84: *
```

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 1

LAYER Soil			
natura 1=granulare, 2=argilla	= 1.0000		
quota superiore	= 0.0000	m	
quota inferiore	= -5.0000	m	
peso fuori falda	= 19.000	kN/m ³	
peso efficace in falda	= 9.0000	kN/m ³	
peso dell'acqua	= 10.000	kN/m ³	
coesione	= 20.000	kPa	(A MONTE)
angolo di attrito	= 25.000	DEG	(A MONTE)
coeff. spinta attiva ka	= 0.35900		(A MONTE)
coeff. spinta passiva kp	= 3.3190		(A MONTE)
Konc normal consolidato	= 1.0000		
esponente di OCR	= 0.50000		
OCR: grado di sovraconsolidazione	= 1.0000		
modello di rigidezza	= 1.0000		
modulo el. compr. vergine	= 12000.	kPa	
modulo el. scarico/ricarico	= 17000.	kPa	
natura 1=granulare, 2=argilla	= 1.0000		(A VALLE)
coesione	= 20.000	kPa	(A VALLE)
angolo di attrito	= 25.000	DEG	(A VALLE)
coeff. spinta attiva ka	= 0.35900		(A VALLE)
coeff. spinta passiva kp	= 3.3190		(A VALLE)
LAYER Soil2			
natura 1=granulare, 2=argilla	= 1.0000		
quota superiore	= -5.0000	m	
quota inferiore	= -15.000	m	
peso fuori falda	= 19.500	kN/m ³	
peso efficace in falda	= 9.5000	kN/m ³	
peso dell'acqua	= 10.000	kN/m ³	
coesione	= 45.000	kPa	(A MONTE)
angolo di attrito	= 25.000	DEG	(A MONTE)
coeff. spinta attiva ka	= 0.35900		(A MONTE)
coeff. spinta passiva kp	= 3.3190		(A MONTE)
Konc normal consolidato	= 1.0000		
esponente di OCR	= 0.50000		
OCR: grado di sovraconsolidazione	= 1.0000		
modello di rigidezza	= 1.0000		
modulo el. compr. vergine	= 18000.	kPa	
modulo el. scarico/ricarico	= 23000.	kPa	
natura 1=granulare, 2=argilla	= 1.0000		(A VALLE)
coesione	= 45.000	kPa	(A VALLE)

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RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 1

angolo di attrito	= 25.000	DEG	(A VALLE)
coeff. spinta attiva ka	= 0.35900		(A VALLE)
coeff. spinta passiva kp	= 3.3190		(A VALLE)

LAYER Soil3

natura 1=granulare, 2=argilla	= 1.0000		
quota superiore	= -15.000	m	
quota inferiore	= -0.10000E+31	m	
peso fuori falda	= 19.500	kN/m ³	
peso efficace in falda	= 9.5000	kN/m ³	
peso dell'acqua	= 10.000	kN/m ³	
coesione	= 60.000	kPa	(A MONTE)
angolo di attrito	= 25.000	DEG	(A MONTE)
coeff. spinta attiva ka	= 0.35900		(A MONTE)
coeff. spinta passiva kp	= 3.3190		(A MONTE)
Konc normal consolidato	= 1.0000		
esponente di OCR	= 0.50000		
OCR: grado di sovraconsolidazione	= 1.0000		
modello di rigidezza	= 1.0000		
modulo el. compr. vergine	= 25000.	kPa	
modulo el. scarico/ricarico	= 30000.	kPa	
natura 1=granulare, 2=argilla	= 1.0000		(A VALLE)
coesione	= 60.000	kPa	(A VALLE)
angolo di attrito	= 25.000	DEG	(A VALLE)
coeff. spinta attiva ka	= 0.35900		(A VALLE)
coeff. spinta passiva kp	= 3.3190		(A VALLE)

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 2

(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 3

(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 4

(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 5

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(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 6

(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO DATI RELATIVI ALLA FASE 1

WALL RightWall

coordinata y	=	0.0000	m
quota piano campagna	=	0.0000	m
quota del fondo scavo	=	-0.50000	m
quota della falda	=	-0.99900E+30	m
sovraccarico a monte	=	0.0000	kPa
quota del sovraccarico a monte	=	0.0000	m
depressione falda a valle	=	0.0000	m
sovraccarico a valle	=	0.0000	kPa
quota del sovraccarico a valle	=	-0.99900E+30	m
quota di taglio	=	0.0000	m
quota di equil. pressioni dell'acqua	=	-30.000	m
indicatore comportamento acqua	=	0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	=	0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 2

WALL RightWall

coordinata y	=	0.0000	m
quota piano campagna	=	0.0000	m
quota del fondo scavo	=	-4.0000	m
quota della falda	=	-2.0000	m
sovraccarico a monte	=	0.0000	kPa
quota del sovraccarico a monte	=	0.0000	m
depressione falda a valle	=	2.0000	m
sovraccarico a valle	=	0.0000	kPa
quota del sovraccarico a valle	=	-0.99900E+30	m
quota di taglio	=	0.0000	m
quota di equil. pressioni dell'acqua	=	-30.000	m
indicatore comportamento acqua	=	0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	=	0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 3

WALL RightWall

coordinata y	=	0.0000	m
quota piano campagna	=	0.0000	m
quota del fondo scavo	=	-4.0000	m
quota della falda	=	-2.0000	m
sovraccarico a monte	=	0.0000	kPa

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RIASSUNTO DATI RELATIVI ALLA FASE 3

quota del sovraccarico a monte	= 0.0000	m
depressione falda a valle	= 2.0000	m
sovraccarico a valle	= 0.0000	kPa
quota del sovraccarico a valle	= -0.99900E+30	m
quota di taglio	= 0.0000	m
quota di equil. pressioni dell'acqua	= -30.0000	m
indicatore comportamento acqua	= 0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	= 0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 4

WALL RightWall

coordinata y	= 0.0000	m
quota piano campagna	= 0.0000	m
quota del fondo scavo	= -8.5000	m
quota della falda	= -2.0000	m
sovraccarico a monte	= 0.0000	kPa
quota del sovraccarico a monte	= 0.0000	m
depressione falda a valle	= 6.5000	m
sovraccarico a valle	= 0.0000	kPa
quota del sovraccarico a valle	= -0.99900E+30	m
quota di taglio	= 0.0000	m
quota di equil. pressioni dell'acqua	= -30.0000	m
indicatore comportamento acqua	= 0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	= 0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 5

WALL RightWall

coordinata y	= 0.0000	m
quota piano campagna	= 0.0000	m
quota del fondo scavo	= -8.5000	m
quota della falda	= -2.0000	m
sovraccarico a monte	= 0.0000	kPa
quota del sovraccarico a monte	= 0.0000	m
depressione falda a valle	= 6.5000	m
sovraccarico a valle	= 0.0000	kPa
quota del sovraccarico a valle	= -0.99900E+30	m
quota di taglio	= 0.0000	m
quota di equil. pressioni dell'acqua	= -30.0000	m
indicatore comportamento acqua	= 0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	= 0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 6

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WALL RightWall

coordinata y	=	0.0000	m
quota piano campagna	=	0.0000	m
quota del fondo scavo	=	-10.200	m
quota della falda	=	-2.0000	m
sovraccarico a monte	=	23.000	kPa
quota del sovraccarico a monte	=	0.0000	m
depressione falda a valle	=	8.2000	m
sovraccarico a valle	=	0.0000	kPa
quota del sovraccarico a valle	=	0.0000	m
quota di taglio	=	0.0000	m
quota di equil. pressioni dell'acqua	=	-30.000	m
indicatore comportamento acqua	=	0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	=	0.0000	(1=NO UPD)

RIASSUNTO ELEMENTI

=====

RIASSUNTO ELEMENTI SOIL						
Name	Wall	Z1	Z2	Flag	Angle	
		m	m		deg	
DHRight	RightWall	0.	-30.00	DOWNHILL	0.	
UHRight	RightWall	0.	-30.00	UPHILL	180.0	

RIASSUNTO ELEMENTI BEAM						
Name	Wall	Z1	Z2	Mat	thick	
		m	m		m	
Right_wall	RightWall	0.	-25.00	_	0.9794	

RIASSUNTO ELEMENTI WIRE						
Name	Wall	Zeta	Mat	A/L	Pinit	Angle
		m			kN/m	deg
Wire01	RightWall	-.5000	_	0.2872E-04	150.0	157.5
Wire2	RightWall	-4.000	_	0.4308E-04	150.0	157.5
Wire3	RightWall	-8.000	_	0.4308E-04	300.0	157.5

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RIASSUNTO DATI VARI
=====

MATERIALI	
Name	YOUNG MODULUS
	kPa
Pali	3.2308E+007
Acci	2.1E+008

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RIASSUNTO ANALISI INCREMENTALE

FASE	N. DI ITERAZIONI	CONVERGENZA
1	3	SI
2	2	SI
3	2	SI
4	2	SI
5	2	SI
6	2	SI

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MASSIMI SPOSTAMENTI LATERALI

TUTTI I PASSI

* PARETE RightWall*

* I PASSI NON EQUILIBRATI SONO ESCLUSI *

* NOTA: LE QUOTE ESPRESSE IN m

E GLI SPOSTAMENTI IN m

NODO	QUOTA ZETA	SPOSTAMENTO MASSIMO	FASE PARETE RightWall
1	0.0000	0.40836E-02	1
2	-0.20000	0.39238E-02	1
3	-0.40000	0.37641E-02	1
4	-0.50000	-0.39174E-02	6
5	-0.70000	-0.44903E-02	6
6	-0.90000	-0.50628E-02	6
7	-1.1000	-0.56343E-02	6
8	-1.3000	-0.62044E-02	6
9	-1.5000	-0.67727E-02	6
10	-1.7000	-0.73387E-02	6
11	-1.9000	-0.79021E-02	6
12	-2.1000	-0.84624E-02	6
13	-2.3000	-0.90194E-02	6
14	-2.5000	-0.95727E-02	6
15	-2.7000	-0.10122E-01	6
16	-2.9000	-0.10667E-01	6
17	-3.1000	-0.11208E-01	6
18	-3.3000	-0.11744E-01	6
19	-3.5000	-0.12275E-01	6
20	-3.7000	-0.12802E-01	6
21	-3.9000	-0.13324E-01	6
22	-4.0000	-0.13583E-01	6
23	-4.2000	-0.14097E-01	6
24	-4.4000	-0.14605E-01	6
25	-4.6000	-0.15107E-01	6
26	-4.8000	-0.15602E-01	6
27	-5.0000	-0.16090E-01	6
28	-5.2000	-0.16570E-01	6
29	-5.4000	-0.17041E-01	6
30	-5.6000	-0.17503E-01	6
31	-5.8000	-0.17956E-01	6
32	-6.0000	-0.18399E-01	6
33	-6.2000	-0.18832E-01	6
34	-6.4000	-0.19255E-01	6
35	-6.6000	-0.19667E-01	6
36	-6.8000	-0.20069E-01	6
37	-7.0000	-0.20459E-01	6
38	-7.2000	-0.20839E-01	6

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NODO	QUOTA ZETA	SPOSTAMENTO MASSIMO	FASE PARETE RightWall
39	-7.4000	-0.21209E-01	6
40	-7.6000	-0.21567E-01	6
41	-7.8000	-0.21915E-01	6
42	-8.0000	-0.22253E-01	6
43	-8.2000	-0.22580E-01	6
44	-8.4000	-0.22896E-01	6
45	-8.6000	-0.23201E-01	6
46	-8.8000	-0.23493E-01	6
47	-9.0000	-0.23773E-01	6
48	-9.2000	-0.24040E-01	6
49	-9.4000	-0.24293E-01	6
50	-9.6000	-0.24532E-01	6
51	-9.8000	-0.24757E-01	6
52	-10.000	-0.24967E-01	6
53	-10.200	-0.25164E-01	6
54	-10.400	-0.25346E-01	6
55	-10.600	-0.25514E-01	6
56	-10.800	-0.25668E-01	6
57	-11.000	-0.25807E-01	6
58	-11.200	-0.25934E-01	6
59	-11.400	-0.26046E-01	6
60	-11.600	-0.26145E-01	6
61	-11.800	-0.26231E-01	6
62	-12.000	-0.26305E-01	6
63	-12.200	-0.26366E-01	6
64	-12.400	-0.26414E-01	6
65	-12.600	-0.26451E-01	6
66	-12.800	-0.26476E-01	6
67	-13.000	-0.26490E-01	6
68	-13.200	-0.26493E-01	6
69	-13.400	-0.26485E-01	6
70	-13.600	-0.26468E-01	6
71	-13.800	-0.26441E-01	6
72	-14.000	-0.26404E-01	6
73	-14.200	-0.26359E-01	6
74	-14.400	-0.26306E-01	6
75	-14.600	-0.26244E-01	6
76	-14.800	-0.26176E-01	6
77	-15.000	-0.26100E-01	6
78	-15.200	-0.26018E-01	6
79	-15.400	-0.25929E-01	6
80	-15.600	-0.25836E-01	6
81	-15.800	-0.25737E-01	6
82	-16.000	-0.25633E-01	6
83	-16.200	-0.25526E-01	6
84	-16.400	-0.25414E-01	6

NODO	QUOTA ZETA	SPOSTAMENTO MASSIMO	FASE PARETE RightWall
85	-16.600	-0.25299E-01	6
86	-16.800	-0.25180E-01	6
87	-17.000	-0.25059E-01	6
88	-17.200	-0.24935E-01	6
89	-17.400	-0.24809E-01	6
90	-17.600	-0.24680E-01	6
91	-17.800	-0.24550E-01	6
92	-18.000	-0.24418E-01	6
93	-18.200	-0.24284E-01	6
94	-18.400	-0.24150E-01	6
95	-18.600	-0.24014E-01	6
96	-18.800	-0.23878E-01	6
97	-19.000	-0.23740E-01	6
98	-19.200	-0.23602E-01	6
99	-19.400	-0.23464E-01	6
100	-19.600	-0.23325E-01	6
101	-19.800	-0.23186E-01	6
102	-20.000	-0.23047E-01	6
103	-20.200	-0.22907E-01	6
104	-20.400	-0.22768E-01	6
105	-20.600	-0.22628E-01	6
106	-20.800	-0.22489E-01	6
107	-21.000	-0.22350E-01	6
108	-21.200	-0.22211E-01	6
109	-21.400	-0.22071E-01	6
110	-21.600	-0.21933E-01	6
111	-21.800	-0.21794E-01	6
112	-22.000	-0.21655E-01	6
113	-22.200	-0.21517E-01	6
114	-22.400	-0.21379E-01	6
115	-22.600	-0.21241E-01	6
116	-22.800	-0.21103E-01	6
117	-23.000	-0.20965E-01	6
118	-23.200	-0.20828E-01	6
119	-23.400	-0.20690E-01	6
120	-23.600	-0.20553E-01	6
121	-23.800	-0.20416E-01	6
122	-24.000	-0.20278E-01	6
123	-24.200	-0.20141E-01	6
124	-24.400	-0.20004E-01	6
125	-24.600	-0.19867E-01	6
126	-24.800	-0.19730E-01	6
127	-25.000	-0.19593E-01	6
128	-25.200	-0.20135E-01	6
129	-25.400	-0.20102E-01	6
130	-25.600	-0.20069E-01	6

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NODO	QUOTA ZETA	SPOSTAMENTO MASSIMO	FASE PARETE RightWall
131	-25.800	-0.20036E-01	6
132	-26.000	-0.20004E-01	6
133	-26.200	-0.19971E-01	6
134	-26.400	-0.19939E-01	6
135	-26.600	-0.19907E-01	6
136	-26.800	-0.19875E-01	6
137	-27.000	-0.19843E-01	6
138	-27.200	-0.19812E-01	6
139	-27.400	-0.19781E-01	6
140	-27.600	-0.19749E-01	6
141	-27.800	-0.19718E-01	6
142	-28.000	-0.19687E-01	6
143	-28.200	-0.19656E-01	6
144	-28.400	-0.19626E-01	6
145	-28.600	-0.19595E-01	6
146	-28.800	-0.19565E-01	6
147	-29.000	-0.19534E-01	6
148	-29.200	-0.19504E-01	6
149	-29.400	-0.19474E-01	6
150	-29.600	-0.19444E-01	6
151	-29.800	-0.19414E-01	6
152	-30.000	-0.19384E-01	6

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PAG. 17

INVILUPPO AZIONI INTERNE NEGLI ELEMENTI DI PARETE
 (PER UNITA' DI PROFONDITA')

* PARETE RightWall GRUPPO Right_wall*

STEP 1 - 6

* I PASSI NON EQUILIBRATI SONO ESCLUSI *

Nella tabella si stampano i seguenti risultati:

MOMENTO SX = Momento che tende le fibre sulla faccia sinistra [kN*m/m]

MOMENTO DX = Momento che tende le fibre sulla faccia destra [kN*m/m]

TAGLIO = forza tagliante (valore assoluto, priva di segno)[kN/m]

BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
1	A	0.	0.9095E-10	0.2765E-09	2.573
	B	-0.2000	0.	0.5147	2.573
2	A	-0.2000	0.	0.5147	8.102
	B	-0.4000	0.	2.135	8.102
3	A	-0.4000	0.	2.135	12.53
	B	-0.5000	0.	3.389	12.53
4	A	-0.5000	0.	3.389	162.7
	B	-0.7000	31.67	0.	162.7
5	A	-0.7000	31.67	0.	160.2
	B	-0.9000	63.72	0.	160.2
6	A	-0.9000	63.72	0.	157.4
	B	-1.100	95.20	0.	157.4
7	A	-1.100	95.20	0.	154.1
	B	-1.300	126.0	0.	154.1
8	A	-1.300	126.0	0.	150.5
	B	-1.500	156.1	0.	150.5
9	A	-1.500	156.1	0.	146.5
	B	-1.700	185.4	0.	146.5
10	A	-1.700	185.4	0.	142.1
	B	-1.900	213.9	0.	142.1
11	A	-1.900	213.9	0.	137.3
	B	-2.100	241.3	0.	137.3
12	A	-2.100	241.3	0.	132.0
	B	-2.300	267.7	0.	132.0
13	A	-2.300	267.7	0.	126.1
	B	-2.500	292.9	0.	126.1
14	A	-2.500	292.9	0.	119.7
	B	-2.700	316.9	0.	119.7
15	A	-2.700	316.9	0.	112.7
	B	-2.900	339.4	0.	112.7
16	A	-2.900	339.4	0.	105.1
	B	-3.100	360.4	0.	105.1
17	A	-3.100	360.4	0.	96.93
	B	-3.300	379.8	0.	96.93

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BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
18	A	-3.300	379.8	0.	88.17
	B	-3.500	397.5	0.	88.17
19	A	-3.500	397.5	0.	78.84
	B	-3.700	413.2	0.	78.84
20	A	-3.700	413.2	0.	68.91
	B	-3.900	427.0	0.	68.91
21	A	-3.900	427.0	0.	61.02
	B	-4.000	433.1	0.	61.02
22	A	-4.000	433.1	0.	266.0
	B	-4.200	486.3	0.	266.0
23	A	-4.200	486.3	0.	254.6
	B	-4.400	537.2	0.	254.6
24	A	-4.400	537.2	0.	242.6
	B	-4.600	585.8	0.	242.6
25	A	-4.600	585.8	0.	230.0
	B	-4.800	631.8	0.	230.0
26	A	-4.800	631.8	0.	216.7
	B	-5.000	675.1	0.	216.7
27	A	-5.000	675.1	0.	205.4
	B	-5.200	716.2	0.	205.4
28	A	-5.200	716.2	0.	193.6
	B	-5.400	754.9	0.	193.6
29	A	-5.400	754.9	0.	181.2
	B	-5.600	791.1	0.	181.2
30	A	-5.600	791.1	0.	168.2
	B	-5.800	824.8	0.	168.2
31	A	-5.800	824.8	0.	154.7
	B	-6.000	855.7	0.	154.7
32	A	-6.000	855.7	0.	140.6
	B	-6.200	883.8	0.	140.6
33	A	-6.200	883.8	0.	125.9
	B	-6.400	909.0	0.	125.9
34	A	-6.400	909.0	0.	110.6
	B	-6.600	931.1	0.	110.6
35	A	-6.600	931.1	0.	94.63
	B	-6.800	950.0	0.	94.63
36	A	-6.800	950.0	0.	78.10
	B	-7.000	965.7	0.	78.10
37	A	-7.000	965.7	0.	60.94
	B	-7.200	977.8	0.	60.94
38	A	-7.200	977.8	0.	71.05
	B	-7.400	986.5	0.	71.05
39	A	-7.400	986.5	0.	92.44
	B	-7.600	991.4	0.	92.44
40	A	-7.600	991.4	0.	114.5
	B	-7.800	992.5	0.	114.5

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BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
41	A	-7.800	992.5	0.	137.2
	B	-8.000	989.7	0.	137.2
42	A	-8.000	989.7	0.	239.5
	B	-8.200	982.7	0.	239.5
43	A	-8.200	982.7	0.	217.5
	B	-8.400	971.5	0.	217.5
44	A	-8.400	971.5	0.	194.8
	B	-8.600	955.9	0.	194.8
45	A	-8.600	955.9	0.	171.4
	B	-8.800	938.8	0.	171.4
46	A	-8.800	938.8	0.	147.4
	B	-9.000	920.3	0.	147.4
47	A	-9.000	920.3	0.	122.6
	B	-9.200	900.8	0.	122.6
48	A	-9.200	900.8	0.	102.1
	B	-9.400	880.4	0.	102.1
49	A	-9.400	880.4	0.	106.0
	B	-9.600	894.2	0.	106.0
50	A	-9.600	894.2	0.	109.3
	B	-9.800	903.0	0.	109.3
51	A	-9.800	903.0	0.	112.2
	B	-10.00	906.2	0.	112.2
52	A	-10.00	906.2	0.	114.6
	B	-10.20	903.8	0.	114.6
53	A	-10.20	903.8	0.	116.7
	B	-10.40	898.5	0.	116.7
54	A	-10.40	898.5	0.	118.4
	B	-10.60	891.1	0.	118.4
55	A	-10.60	891.1	0.	119.9
	B	-10.80	881.7	0.	119.9
56	A	-10.80	881.7	0.	121.1
	B	-11.00	870.5	0.	121.1
57	A	-11.00	870.5	0.	122.0
	B	-11.20	857.7	0.	122.0
58	A	-11.20	857.7	0.	122.8
	B	-11.40	843.5	0.	122.8
59	A	-11.40	843.5	0.	123.4
	B	-11.60	827.8	0.	123.4
60	A	-11.60	827.8	0.	123.9
	B	-11.80	810.9	0.	123.9
61	A	-11.80	810.9	0.	124.3
	B	-12.00	792.7	0.	124.3
62	A	-12.00	792.7	0.	124.6
	B	-12.20	773.4	0.	124.6
63	A	-12.20	773.4	0.	124.8
	B	-12.40	753.0	0.	124.8

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BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
64	A	-12.40	753.0	0.	125.0
	B	-12.60	731.6	0.	125.0
65	A	-12.60	731.6	0.	125.1
	B	-12.80	709.3	0.	125.1
66	A	-12.80	709.3	0.	125.2
	B	-13.00	686.0	0.	125.2
67	A	-13.00	686.0	0.	125.4
	B	-13.20	661.8	0.	125.4
68	A	-13.20	661.8	0.	125.5
	B	-13.40	636.7	0.	125.5
69	A	-13.40	636.7	0.	129.5
	B	-13.60	610.8	0.	129.5
70	A	-13.60	610.8	0.	133.6
	B	-13.80	584.1	0.	133.6
71	A	-13.80	584.1	0.	137.6
	B	-14.00	556.6	0.	137.6
72	A	-14.00	556.6	0.	141.5
	B	-14.20	528.3	0.	141.5
73	A	-14.20	528.3	0.	145.4
	B	-14.40	499.2	0.	145.4
74	A	-14.40	499.2	0.	149.2
	B	-14.60	469.4	0.	149.2
75	A	-14.60	469.4	0.	153.0
	B	-14.80	438.8	0.	153.0
76	A	-14.80	438.8	0.	156.8
	B	-15.00	407.4	0.	156.8
77	A	-15.00	407.4	0.	150.0
	B	-15.20	377.4	0.	150.0
78	A	-15.20	377.4	0.	143.2
	B	-15.40	348.7	5.076	143.2
79	A	-15.40	348.7	5.076	136.5
	B	-15.60	321.4	10.75	136.5
80	A	-15.60	321.4	10.75	129.9
	B	-15.80	295.5	15.88	129.9
81	A	-15.80	295.5	15.88	123.4
	B	-16.00	270.8	20.49	123.4
82	A	-16.00	270.8	20.49	117.0
	B	-16.20	247.4	24.59	117.0
83	A	-16.20	247.4	24.59	110.7
	B	-16.40	225.2	28.22	110.7
84	A	-16.40	225.2	28.22	104.6
	B	-16.60	204.3	31.39	104.6
85	A	-16.60	204.3	31.39	98.53
	B	-16.80	184.6	34.13	98.53
86	A	-16.80	184.6	34.13	92.65
	B	-17.00	166.1	36.45	92.65

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PAG. 21

BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
87	A	-17.00	166.1	36.45	86.91
	B	-17.20	148.7	38.39	86.91
88	A	-17.20	148.7	38.39	81.32
	B	-17.40	132.4	39.96	81.32
89	A	-17.40	132.4	39.96	75.89
	B	-17.60	117.3	41.19	75.89
90	A	-17.60	117.3	41.19	70.62
	B	-17.80	103.1	42.09	70.62
91	A	-17.80	103.1	42.09	65.52
	B	-18.00	90.03	42.69	65.52
92	A	-18.00	90.03	42.69	60.58
	B	-18.20	77.92	43.00	60.58
93	A	-18.20	77.92	43.00	55.81
	B	-18.40	66.76	43.05	55.81
94	A	-18.40	66.76	43.05	51.22
	B	-18.60	56.51	45.69	51.22
95	A	-18.60	56.51	45.69	46.80
	B	-18.80	47.15	49.33	46.80
96	A	-18.80	47.15	49.33	42.55
	B	-19.00	38.64	52.24	42.55
97	A	-19.00	38.64	52.24	38.48
	B	-19.20	30.95	54.45	38.48
98	A	-19.20	30.95	54.45	34.60
	B	-19.40	24.03	56.02	34.60
99	A	-19.40	24.03	56.02	30.89
	B	-19.60	17.85	56.98	30.89
100	A	-19.60	17.85	56.98	27.36
	B	-19.80	12.38	57.38	27.36
101	A	-19.80	12.38	57.38	24.01
	B	-20.00	7.577	57.25	24.01
102	A	-20.00	7.577	57.25	20.84
	B	-20.20	3.410	56.64	20.84
103	A	-20.20	3.410	56.64	17.85
	B	-20.40	0.	55.60	17.85
104	A	-20.40	0.	55.60	15.04
	B	-20.60	0.	54.15	15.04
105	A	-20.60	0.	54.15	12.41
	B	-20.80	0.	52.35	12.41
106	A	-20.80	0.	52.35	10.62
	B	-21.00	0.	50.23	10.62
107	A	-21.00	0.	50.23	12.02
	B	-21.20	0.	47.82	12.02
108	A	-21.20	0.	47.82	13.22
	B	-21.40	0.	45.18	13.22
109	A	-21.40	0.	45.18	14.22
	B	-21.60	0.	42.33	14.22

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PAG. 22

BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
110	A	-21.60	0.	42.33	15.04
	B	-21.80	0.	39.33	15.04
111	A	-21.80	0.	39.33	15.66
	B	-22.00	0.	36.19	15.66
112	A	-22.00	0.	36.19	16.09
	B	-22.20	0.	32.98	16.09
113	A	-22.20	0.	32.98	16.33
	B	-22.40	0.	29.71	16.33
114	A	-22.40	0.	29.71	16.38
	B	-22.60	0.	26.44	16.38
115	A	-22.60	0.	26.44	16.24
	B	-22.80	0.	23.19	16.24
116	A	-22.80	0.	23.19	15.91
	B	-23.00	0.	20.01	15.91
117	A	-23.00	0.	20.01	15.40
	B	-23.20	0.	16.93	15.40
118	A	-23.20	0.	16.93	14.69
	B	-23.40	0.	13.99	14.69
119	A	-23.40	0.	13.99	13.81
	B	-23.60	0.	11.23	13.81
120	A	-23.60	0.	11.23	12.73
	B	-23.80	0.	8.682	12.73
121	A	-23.80	0.	8.682	11.47
	B	-24.00	0.	6.387	11.47
122	A	-24.00	0.	6.387	10.02
	B	-24.20	0.	4.383	10.02
123	A	-24.20	0.	4.383	8.392
	B	-24.40	0.	2.704	8.392
124	A	-24.40	0.	2.704	6.574
	B	-24.60	0.	1.389	6.574
125	A	-24.60	0.	1.389	4.569
	B	-24.80	0.	0.4755	4.569
126	A	-24.80	0.	0.4755	2.378
	B	-25.00	0.1066E-08	0.9313E-09	2.378

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PAG. 23

FORZE NEGLI ANCORAGGI ATTIVI (PER UNITA' DI PROFONDITA')

TIRANTE	Wire01	1 PARETE RightWall	QUOTA	-0.50000
		FASE 1 FORZA	150.00	kN/m
		FASE 2 FORZA	170.06	kN/m
		FASE 3 FORZA	156.71	kN/m
		FASE 4 FORZA	181.50	kN/m
		FASE 5 FORZA	167.53	kN/m
		FASE 6 FORZA	192.35	kN/m
TIRANTE	Wire2	1 PARETE RightWall	QUOTA	-4.0000
		FASE 1 inattivo		
		FASE 2 inattivo		
		FASE 3 FORZA	150.00	kN/m
		FASE 4 FORZA	230.70	kN/m
		FASE 5 FORZA	198.46	kN/m
		FASE 6 FORZA	251.91	kN/m
TIRANTE	Wire3	1 PARETE RightWall	QUOTA	-8.0000
		FASE 1 inattivo		
		FASE 2 inattivo		
		FASE 3 inattivo		
		FASE 4 inattivo		
		FASE 5 FORZA	300.00	kN/m
		FASE 6 FORZA	371.48	kN/m

INVILUPPO RISULTATI NEGLI ELEMENTI TERRENO

* PARETE RightWall GRUPPO DRight*

STEP 1 - 6

* I PASSI NON EQUILIBRATI SONO ESCLUSI *

Nella tabella si stampano i seguenti risultati:

SIGMA-H = massimo sforzo orizzontale efficace [kPa]
 TAGLIO = massimo sforzo di taglio [kPa]
 PR. ACQUA =massima pressione interstiziale [kPa]
 GRAD. MAX =massimo gradiente idraulico

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
1	0.	0.	0.	0.	0.
2	-0.2000	0.	0.	0.	0.
3	-0.4000	0.	0.	0.	0.
4	-0.5000	0.	0.	0.	0.
5	-0.7000	0.	1.900	0.	0.
6	-0.9000	0.	3.800	0.	0.
7	-1.100	0.	5.700	0.	0.
8	-1.300	0.	7.600	0.	0.
9	-1.500	3.337	7.832	0.	0.
10	-1.700	7.973	7.413	0.	0.
11	-1.900	12.60	7.000	0.	0.
12	-2.100	17.21	6.594	0.	0.
13	-2.300	21.81	6.193	0.	0.
14	-2.500	26.40	5.801	0.	0.
15	-2.700	30.97	5.416	0.	0.
16	-2.900	35.52	5.039	0.	0.
17	-3.100	40.06	4.671	0.	0.
18	-3.300	44.57	4.313	0.	0.
19	-3.500	49.07	3.963	0.	0.
20	-3.700	53.55	3.624	0.	0.
21	-3.900	58.01	3.294	0.	0.
22	-4.000	60.23	8.973	0.	0.
23	-4.200	64.66	10.86	2.074	0.3704E-01
24	-4.400	69.07	12.85	4.148	0.3704E-01
25	-4.600	73.46	14.38	6.222	0.3704E-01
26	-4.800	77.82	15.69	8.296	0.3704E-01
27	-5.000	80.99	19.53	10.37	0.3704E-01
28	-5.200	85.60	20.73	12.44	0.3704E-01
29	-5.400	90.18	21.85	14.52	0.3704E-01
30	-5.600	94.73	22.90	16.59	0.3704E-01
31	-5.800	99.26	23.89	18.67	0.3704E-01
32	-6.000	103.8	24.83	20.74	0.3704E-01
33	-6.200	108.2	25.73	22.81	0.3704E-01
34	-6.400	112.6	26.57	24.89	0.3704E-01
35	-6.600	116.9	27.35	26.96	0.3704E-01

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SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
36	-6.800	121.2	28.09	29.04	0.3704E-01
37	-7.000	125.5	28.81	31.11	0.3704E-01
38	-7.200	129.7	29.51	33.19	0.3704E-01
39	-7.400	134.0	30.18	35.26	0.3704E-01
40	-7.600	138.2	30.83	37.33	0.3704E-01
41	-7.800	142.3	31.46	39.41	0.3704E-01
42	-8.000	146.5	32.07	41.48	0.3704E-01
43	-8.200	150.7	32.66	43.56	0.3704E-01
44	-8.400	154.8	33.24	45.63	0.3704E-01
45	-8.600	158.9	36.14	47.70	0.1313
46	-8.800	163.0	39.89	49.78	0.1313
47	-9.000	167.1	42.39	51.85	0.1313
48	-9.200	171.2	44.39	53.93	0.1313
49	-9.400	175.2	46.08	56.00	0.1313
50	-9.600	179.3	47.57	58.07	0.1313
51	-9.800	183.3	48.91	60.15	0.1313
52	-10.00	187.3	50.13	62.22	0.1313
53	-10.20	191.3	51.24	64.30	0.1313
54	-10.40	195.3	52.28	66.37	0.1715
55	-10.60	199.3	53.24	68.44	0.1715
56	-10.80	203.2	54.15	70.52	0.1715
57	-11.00	207.2	54.99	72.59	0.1715
58	-11.20	211.1	55.79	74.67	0.1715
59	-11.40	215.1	56.55	76.74	0.1715
60	-11.60	219.0	57.74	78.81	0.1715
61	-11.80	222.9	58.98	80.89	0.1715
62	-12.00	226.9	60.12	82.96	0.1715
63	-12.20	230.8	61.18	85.04	0.1715
64	-12.40	234.7	62.17	87.11	0.1715
65	-12.60	238.6	63.10	89.19	0.1715
66	-12.80	242.4	63.97	91.26	0.1715
67	-13.00	246.3	64.80	93.33	0.1715
68	-13.20	250.2	65.58	95.41	0.1715
69	-13.40	254.1	66.32	97.48	0.1715
70	-13.60	258.0	67.02	99.56	0.1715
71	-13.80	261.8	67.69	101.6	0.1715
72	-14.00	265.7	68.33	103.7	0.1715
73	-14.20	269.5	68.94	105.8	0.1715
74	-14.40	273.4	69.52	107.9	0.1715
75	-14.60	277.3	70.08	109.9	0.1715
76	-14.80	281.1	70.62	112.0	0.1715
77	-15.00	286.7	83.08	114.1	0.1715
78	-15.20	290.5	83.53	116.1	0.1715
79	-15.40	294.3	83.96	118.2	0.1715
80	-15.60	298.2	84.37	120.3	0.1715
81	-15.80	302.0	84.77	122.4	0.1715

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History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
82	-16.00	305.8	85.15	124.4	0.1715
83	-16.20	309.6	85.51	126.5	0.1715
84	-16.40	313.5	85.87	128.6	0.1715
85	-16.60	317.3	86.21	130.7	0.1715
86	-16.80	321.1	86.54	132.7	0.1715
87	-17.00	324.9	86.86	134.8	0.1715
88	-17.20	328.7	87.18	136.9	0.1715
89	-17.40	332.6	87.48	139.0	0.1715
90	-17.60	336.4	87.78	141.0	0.1715
91	-17.80	340.2	88.07	143.1	0.1715
92	-18.00	344.0	88.36	145.2	0.1715
93	-18.20	347.9	88.64	147.3	0.1715
94	-18.40	351.7	88.91	149.3	0.1715
95	-18.60	355.5	89.19	151.4	0.1715
96	-18.80	359.4	89.45	153.5	0.1715
97	-19.00	363.2	89.72	155.6	0.1715
98	-19.20	367.0	89.98	157.6	0.1715
99	-19.40	370.9	90.24	159.7	0.1715
100	-19.60	374.7	90.50	161.8	0.1715
101	-19.80	378.5	90.76	163.9	0.1715
102	-20.00	382.4	91.01	165.9	0.1715
103	-20.20	386.2	91.26	168.0	0.1715
104	-20.40	390.1	91.51	170.1	0.1715
105	-20.60	393.9	91.76	172.1	0.1715
106	-20.80	397.8	92.01	174.2	0.1715
107	-21.00	401.6	92.26	176.3	0.1715
108	-21.20	405.4	92.51	178.4	0.1715
109	-21.40	409.3	92.76	180.4	0.1715
110	-21.60	413.1	93.00	182.5	0.1715
111	-21.80	417.0	93.25	184.6	0.1715
112	-22.00	420.8	93.49	186.7	0.1715
113	-22.20	424.7	93.74	188.7	0.1715
114	-22.40	428.5	93.98	190.8	0.1715
115	-22.60	432.4	94.22	192.9	0.1715
116	-22.80	436.3	94.47	195.0	0.1715
117	-23.00	440.1	94.71	197.0	0.1715
118	-23.20	444.0	94.95	199.1	0.1715
119	-23.40	447.8	95.19	201.2	0.1715
120	-23.60	451.7	95.43	203.3	0.1715
121	-23.80	455.5	95.67	205.3	0.1715
122	-24.00	459.4	95.91	207.4	0.1715
123	-24.20	463.2	96.14	209.5	0.1715
124	-24.40	467.1	96.38	211.6	0.1715
125	-24.60	470.9	96.61	213.6	0.1715
126	-24.80	474.8	96.85	215.7	0.1715
127	-25.00	478.6	97.08	217.8	0.1715

PARATIE 7.00

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History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
128	-25.20	483.2	98.96	219.9	0.1715
129	-25.40	487.1	99.39	221.9	0.1715
130	-25.60	491.0	99.82	224.0	0.1715
131	-25.80	494.9	100.3	226.1	0.1715
132	-26.00	498.8	100.7	228.1	0.1715
133	-26.20	502.7	101.1	230.2	0.1715
134	-26.40	506.6	101.5	232.3	0.1715
135	-26.60	510.5	102.0	234.4	0.1715
136	-26.80	514.4	102.4	236.4	0.1715
137	-27.00	518.3	102.8	238.5	0.1715
138	-27.20	522.2	103.3	240.6	0.1715
139	-27.40	526.1	103.7	242.7	0.1715
140	-27.60	530.0	104.1	244.7	0.1715
141	-27.80	533.9	104.5	246.8	0.1715
142	-28.00	537.8	105.0	248.9	0.1715
143	-28.20	541.7	105.4	251.0	0.1715
144	-28.40	545.6	105.8	253.0	0.1715
145	-28.60	549.5	106.3	255.1	0.1715
146	-28.80	553.4	106.7	257.2	0.1715
147	-29.00	557.3	107.1	259.3	0.1715
148	-29.20	561.2	107.5	261.3	0.1715
149	-29.40	565.1	108.0	263.4	0.1715
150	-29.60	569.0	108.4	265.5	0.1715
151	-29.80	572.9	108.8	267.6	0.1715
152	-30.00	576.8	109.2	269.6	0.1715

INVILUPPO RISULTATI NEGLI ELEMENTI TERRENO

* PARETE RightWall GRUPPO UHRight*

STEP 1 - 6

* I PASSI NON EQUILIBRATI SONO ESCLUSI *

Nella tabella si stampano i seguenti risultati:

SIGMA-H = massimo sforzo orizzontale efficace [kPa]

TAGLIO = massimo sforzo di taglio [kPa]

PR. ACQUA =massima pressione interstiziale [kPa]

GRAD. MAX =massimo gradiente idraulico

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
1	0.	25.73	9.615	0.	0.
2	-0.2000	27.64	9.239	0.	0.
3	-0.4000	29.55	8.863	0.	0.
4	-0.5000	30.51	8.674	0.	0.
5	-0.7000	32.42	8.298	0.	0.
6	-0.9000	34.33	7.923	0.	0.
7	-1.100	36.25	7.549	0.	0.
8	-1.300	39.06	7.178	0.	0.
9	-1.500	42.12	6.810	0.	0.
10	-1.700	45.19	6.630	0.	0.
11	-1.900	48.28	7.554	0.	0.
12	-2.100	51.37	8.472	0.9630	0.1715
13	-2.300	54.47	9.382	2.889	0.1715
14	-2.500	57.59	10.28	4.815	0.1715
15	-2.700	60.72	11.18	6.741	0.1715
16	-2.900	63.86	12.06	8.667	0.1715
17	-3.100	67.02	12.94	10.59	0.1715
18	-3.300	70.20	13.80	12.52	0.1715
19	-3.500	73.39	14.66	14.44	0.1715
20	-3.700	76.60	15.50	16.37	0.1715
21	-3.900	79.83	16.33	18.30	0.1715
22	-4.000	81.45	16.75	19.26	0.1715
23	-4.200	84.70	17.56	21.19	0.1715
24	-4.400	87.97	18.37	23.11	0.1715
25	-4.600	91.26	19.16	25.04	0.1715
26	-4.800	94.57	19.89	26.96	0.1715
27	-5.000	99.34	27.34	28.89	0.1715
28	-5.200	102.6	27.98	30.81	0.1715
29	-5.400	105.8	28.60	32.74	0.1715
30	-5.600	109.1	29.19	34.67	0.1715
31	-5.800	112.4	29.76	36.59	0.1715
32	-6.000	115.7	30.31	38.52	0.1715
33	-6.200	119.1	30.84	40.44	0.1715
34	-6.400	122.4	31.34	42.37	0.1715
35	-6.600	125.7	31.86	44.30	0.1715

PARATIE 7.00

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SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
36	-6.800	129.0	32.38	46.22	0.1715
37	-7.000	132.4	32.86	48.15	0.1715
38	-7.200	135.7	33.32	50.07	0.1715
39	-7.400	139.1	33.74	52.00	0.1715
40	-7.600	142.6	34.14	53.93	0.1715
41	-7.800	146.0	34.50	55.85	0.1715
42	-8.000	149.5	34.84	57.78	0.1715
43	-8.200	153.0	35.15	59.70	0.1715
44	-8.400	156.6	35.44	61.63	0.1715
45	-8.600	160.1	35.69	63.56	0.1715
46	-8.800	163.7	35.91	65.48	0.1715
47	-9.000	167.3	36.10	67.41	0.1715
48	-9.200	171.0	36.27	69.33	0.1715
49	-9.400	174.6	36.40	71.26	0.1715
50	-9.600	178.3	36.49	73.19	0.1715
51	-9.800	182.0	36.56	75.11	0.1715
52	-10.00	185.7	36.60	77.04	0.1715
53	-10.20	189.5	36.60	78.96	0.1715
54	-10.40	193.2	36.58	80.89	0.1715
55	-10.60	197.0	36.52	82.81	0.1715
56	-10.80	200.8	36.43	84.74	0.1715
57	-11.00	204.6	36.32	86.67	0.1715
58	-11.20	208.4	36.18	88.59	0.1715
59	-11.40	212.3	36.00	90.52	0.1715
60	-11.60	216.1	35.81	92.44	0.1715
61	-11.80	220.0	35.58	94.37	0.1715
62	-12.00	223.9	35.33	96.30	0.1715
63	-12.20	227.7	35.05	98.22	0.1715
64	-12.40	231.6	34.75	100.1	0.1715
65	-12.60	235.5	34.42	102.1	0.1715
66	-12.80	239.5	34.08	104.0	0.1715
67	-13.00	243.4	33.71	105.9	0.1715
68	-13.20	247.3	33.31	107.9	0.1715
69	-13.40	251.3	32.90	109.8	0.1715
70	-13.60	255.2	32.47	111.7	0.1715
71	-13.80	259.2	32.02	113.6	0.1715
72	-14.00	263.1	31.56	115.6	0.1715
73	-14.20	267.1	31.08	117.5	0.1715
74	-14.40	271.1	30.58	119.4	0.1715
75	-14.60	275.0	30.06	121.3	0.1715
76	-14.80	279.0	29.54	123.3	0.1715
77	-15.00	280.9	43.72	125.2	0.1715
78	-15.20	284.9	43.11	127.1	0.1715
79	-15.40	288.9	42.49	129.0	0.1715
80	-15.60	292.9	41.86	131.0	0.1715
81	-15.80	296.9	41.22	132.9	0.1715

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History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
82	-16.00	300.9	40.56	134.8	0.1715
83	-16.20	304.9	39.90	136.7	0.1715
84	-16.40	308.9	39.23	138.7	0.1715
85	-16.60	313.0	38.55	140.6	0.1715
86	-16.80	317.0	37.87	142.5	0.1715
87	-17.00	321.0	37.18	144.4	0.1715
88	-17.20	325.0	36.49	146.4	0.1715
89	-17.40	329.0	35.79	148.3	0.1715
90	-17.60	333.0	35.09	150.2	0.1715
91	-17.80	337.0	34.39	152.1	0.1715
92	-18.00	341.0	33.69	154.1	0.1715
93	-18.20	345.0	32.98	156.0	0.1715
94	-18.40	349.0	32.27	157.9	0.1715
95	-18.60	353.1	31.57	159.9	0.1715
96	-18.80	357.1	30.86	161.8	0.1715
97	-19.00	361.1	30.15	163.7	0.1715
98	-19.20	365.0	29.44	165.6	0.1715
99	-19.40	369.0	28.73	167.6	0.1715
100	-19.60	373.0	28.03	169.5	0.1715
101	-19.80	377.0	27.32	171.4	0.1715
102	-20.00	381.0	26.61	173.3	0.1715
103	-20.20	385.0	25.91	175.3	0.1715
104	-20.40	389.0	25.21	177.2	0.1715
105	-20.60	393.0	24.50	179.1	0.1715
106	-20.80	397.0	23.80	181.0	0.1715
107	-21.00	400.9	23.10	183.0	0.1715
108	-21.20	404.9	22.41	184.9	0.1715
109	-21.40	408.9	22.77	186.8	0.1715
110	-21.60	412.9	23.27	188.7	0.1715
111	-21.80	416.8	23.78	190.7	0.1715
112	-22.00	420.8	24.29	192.6	0.1715
113	-22.20	424.8	24.79	194.5	0.1715
114	-22.40	428.8	25.29	196.4	0.1715
115	-22.60	432.7	25.79	198.4	0.1715
116	-22.80	436.7	26.29	200.3	0.1715
117	-23.00	440.7	26.79	202.2	0.1715
118	-23.20	444.6	27.29	204.1	0.1715
119	-23.40	448.6	27.79	206.1	0.1715
120	-23.60	452.6	28.29	208.0	0.1715
121	-23.80	456.5	28.78	209.9	0.1715
122	-24.00	460.5	29.28	211.9	0.1715
123	-24.20	464.5	29.78	213.8	0.1715
124	-24.40	468.4	30.27	215.7	0.1715
125	-24.60	472.4	30.77	217.6	0.1715
126	-24.80	476.4	31.27	219.6	0.1715
127	-25.00	480.3	31.76	221.5	0.1715

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History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
128	-25.20	483.2	30.73	223.4	0.1715
129	-25.40	487.1	31.14	225.3	0.1715
130	-25.60	491.0	31.56	227.3	0.1715
131	-25.80	494.9	31.97	229.2	0.1715
132	-26.00	498.8	32.38	231.1	0.1715
133	-26.20	502.7	32.80	233.0	0.1715
134	-26.40	506.6	33.21	235.0	0.1715
135	-26.60	510.5	33.63	236.9	0.1715
136	-26.80	514.4	34.04	238.8	0.1715
137	-27.00	518.3	34.46	240.7	0.1715
138	-27.20	522.2	34.87	242.7	0.1715
139	-27.40	526.1	35.28	244.6	0.1715
140	-27.60	530.0	35.70	246.5	0.1715
141	-27.80	533.9	36.11	248.4	0.1715
142	-28.00	537.8	36.52	250.4	0.1715
143	-28.20	541.7	36.94	252.3	0.1715
144	-28.40	545.6	37.35	254.2	0.1715
145	-28.60	549.5	37.77	256.1	0.1715
146	-28.80	553.4	38.18	258.1	0.1715
147	-29.00	557.3	38.59	260.0	0.1715
148	-29.20	561.2	39.01	261.9	0.1715
149	-29.40	565.1	39.42	263.9	0.1715
150	-29.60	569.0	39.84	265.8	0.1715
151	-29.80	572.9	40.25	267.7	0.1715
152	-30.00	576.8	40.66	269.6	0.1715

RIASSUNTO SPINTE NEGLI ELEMENTI TERRENO
(LE SPINTE SONO CALCOLATE INTEGRANDO GLI SFORZI NEI SINGOLI ELEMENTI MOLLA)

SPINTA EFFICACE VERA = Integrale delle pressioni orizzontali efficaci in tutti gli elementi nel gruppo: unita' di misura kN/m

SPINTA ACQUA = Integrale delle pressioni interstiziali in tutti gli elementi nel gruppo: unita' di misura kN/m

SPINTA TOTALE VERA = Somma della SPINTA EFFICACE e della SPINTA DELL'ACQUA: e' l' azione totale sulla parete: unita' di misura kN/m

SPINTA ATTIVA POSSIBILE = La minima spinta che puo' essere esercitata da questo gruppo di elementi terreno, in questa fase: unita' di misura kN/m

SPINTA PASSIVA POSSIBILE = La massima spinta che puo' essere esercitata da questo gruppo di elementi terreno, in questa fase: unita' di misura kN/m

RAPPORTO PASSIVA/VERA = e' il rapporto tra la massima spinta possibile e la spinta efficace vera: fornisce un'indicazione su quanta spinta passiva venga mobilitata;

SPINTA PASSIVA MOBILITATA = e' l'inverso del rapporto precedente, espresso in unita' percentuale: indica quanta parte della massima spinta possibile e' stata mobilitata;

RAPPORTO VERA/ATTIVA = e' il rapporto tra la spinta efficace vera e la minima spinta possibile: fornisce un'indicazione di quanto questa porzione di terreno sia prossima alla condizione di massimo rilascio.

FASE	1	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	8476.5	8615.1
		SPINTA ACQUA	0.	0.
		SPINTA TOTALE VERA	8476.5	8615.1
		SPINTA ATTIVA (POSSIBILE)	1376.7	1455.3
		SPINTA PASSIVA (POSSIBILE)	33223.	34194.
		RAPPORTO PASSIVA/VERA	3.9194	3.9691
		SPINTA PASSIVA MOBILITATA	26.%	25.%
		RAPPORTO VERA/ATTIVA	6.1571	5.9197

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FASE	2	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	5732.2	5619.6
		SPINTA ACQUA	3505.2	3774.9
		SPINTA TOTALE VERA	9237.4	9394.5
		SPINTA ATTIVA (POSSIBILE)	26.328	233.91
		SPINTA PASSIVA (POSSIBILE)	15209.	21665.
		RAPPORTO PASSIVA/VERA	2.6533	3.8552
		SPINTA PASSIVA MOBILITATA	38.%	26.%
		RAPPORTO VERA/ATTIVA	217.72	24.024

FASE	3	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	5695.1	5708.8
		SPINTA ACQUA	3505.2	3774.9
		SPINTA TOTALE VERA	9200.3	9483.6
		SPINTA ATTIVA (POSSIBILE)	26.328	233.91
		SPINTA PASSIVA (POSSIBILE)	15209.	21665.
		RAPPORTO PASSIVA/VERA	2.6706	3.7951
		SPINTA PASSIVA MOBILITATA	37.%	26.%
		RAPPORTO VERA/ATTIVA	216.31	24.405

FASE	4	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	5164.8	4755.1
		SPINTA ACQUA	2614.8	3405.3
		SPINTA TOTALE VERA	7779.6	8160.4
		SPINTA ATTIVA (POSSIBILE)	0.	331.74
		SPINTA PASSIVA (POSSIBILE)	10631.	22892.
		RAPPORTO PASSIVA/VERA	2.0583	4.8141
		SPINTA PASSIVA MOBILITATA	49.%	21.%
		RAPPORTO VERA/ATTIVA	0.10000E+06	14.334

FASE	5	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	5099.6	4924.4
		SPINTA ACQUA	2614.8	3405.3
		SPINTA TOTALE VERA	7714.4	8329.7
		SPINTA ATTIVA (POSSIBILE)	0.	331.74
		SPINTA PASSIVA (POSSIBILE)	10631.	22892.
		RAPPORTO PASSIVA/VERA	2.0846	4.6486
		SPINTA PASSIVA MOBILITATA	48.%	22.%
		RAPPORTO VERA/ATTIVA	0.10000E+06	14.844

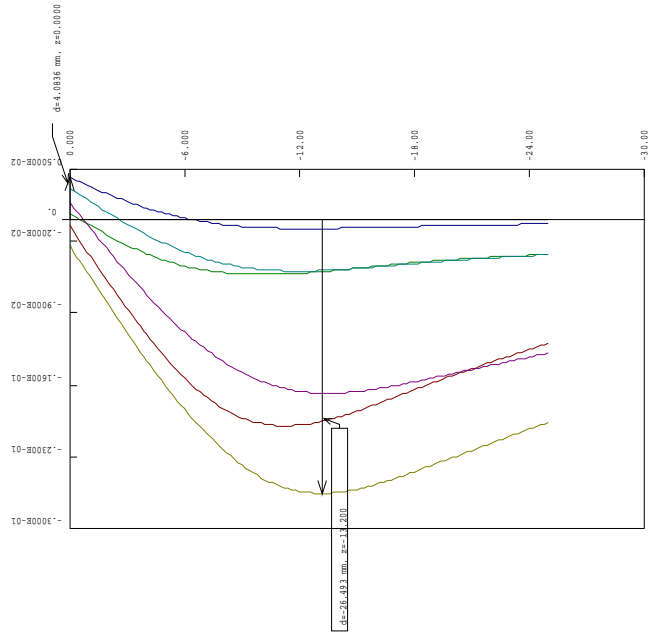
PARATIE 7.00
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FASE	6	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	4978.2	4780.7
		SPINTA ACQUA	2296.5	3247.6
		SPINTA TOTALE VERA	7274.6	8028.3
		SPINTA ATTIVA (POSSIBILE)	0.	537.54
		SPINTA PASSIVA (POSSIBILE)	9152.7	25705.
		RAPPORTO PASSIVA/VERA	1.8386	5.3769
		SPINTA PASSIVA MOBILITATA	54.%	19.%
		RAPPORTO VERA/ATTIVA	0.10000E+06	8.8936

OUTPUT PLOTS:

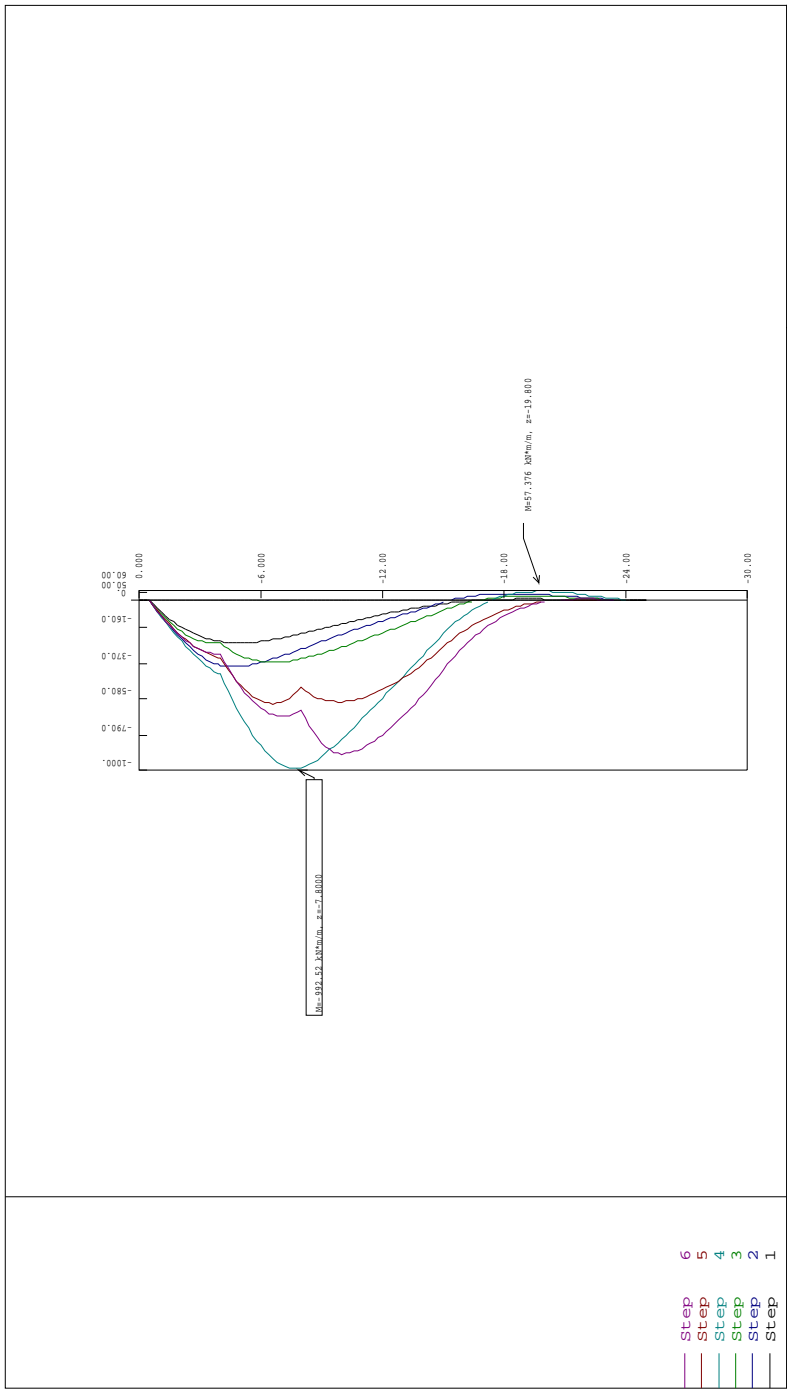


- step 6
- step 5
- step 4
- step 3
- step 2
- step 1

FATTORE SCALA: 2.46 - FATTORE AMPLIF. : 507.62
 DEFORMATA PASSI 1 / 6 [m]

HKEYSY 0 - HKEYSY000
 C:\Users\ADMINISTRATORE\AppData\Local\Microsoft\Excel\DRAWING\ALIBLERE_11211010_11211010

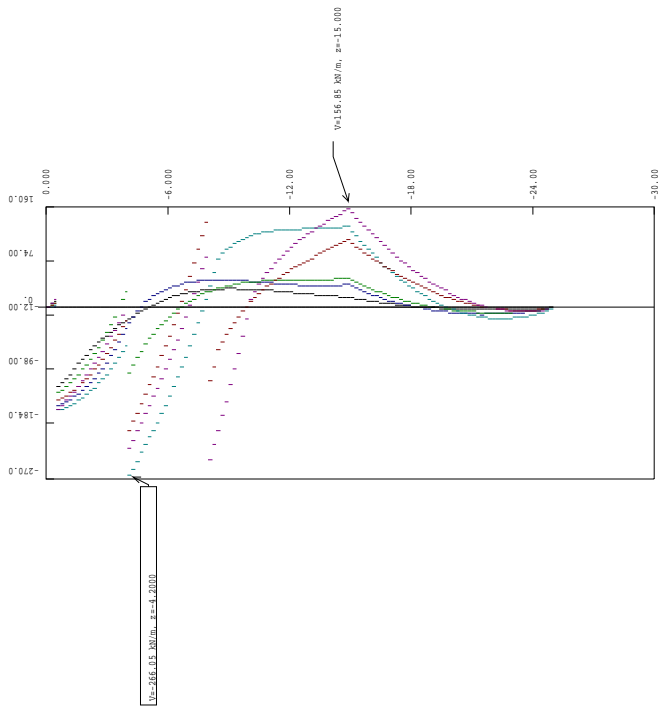
* Ce.A.S. S.r.l. Milano *
 www.ceas.it
 P A R A T I E 7.00
 16 NOVEMBRE 2011 13:12:44



MOMENTI FLETTENTI [kN*m/m]
 INVILUPPO DA 1 A 6 SCALA GEOM. : 2,32
 Piece name: KN
 Length: unitas: m
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- Step 6
- Step 5
- Step 4
- Step 3
- Step 2
- Step 1

TAGLI [KN/m]
 INVILUPPO DA 1 A 6 SCALA GEOM. : 2,32

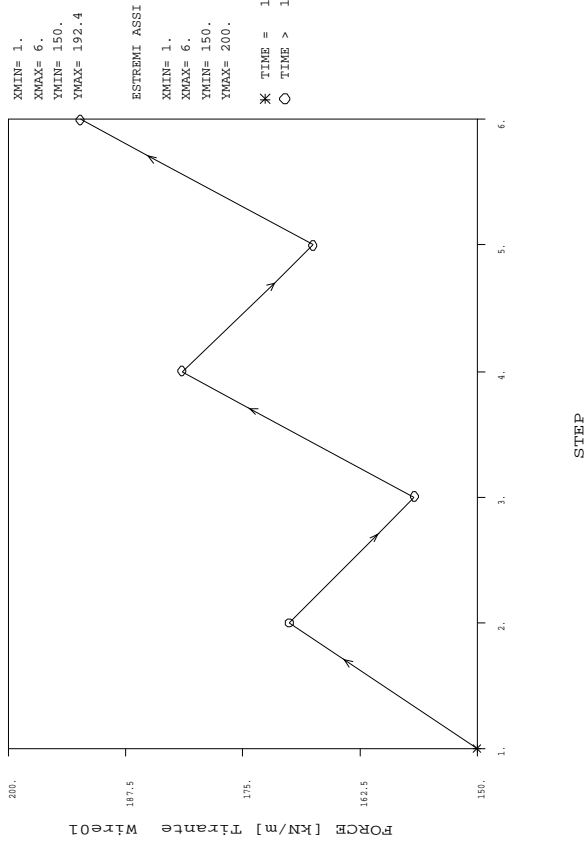


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Force units= KN
 Length units= M

URI: C:\Users\A1800564\Documents\cattella_111\ella_duella_boncod_eato_recovate_alimble_122m_122m.dwg
 HKEYSY 0 - HKEYSYD
 C:\Users\A1800564\Documents\cattella_111\ella_duella_boncod_eato_recovate_alimble_122m_122m.dwg

Tirante Wire01	
STEP	FORCE [KN/m]
1.	150.
2.	170.1
3.	156.7
4.	181.5
5.	167.5
6.	192.4



DAL PASSO 1 AL PASSO 6
 DIAGRAMMA VARIABILE X / VARIABILE Y

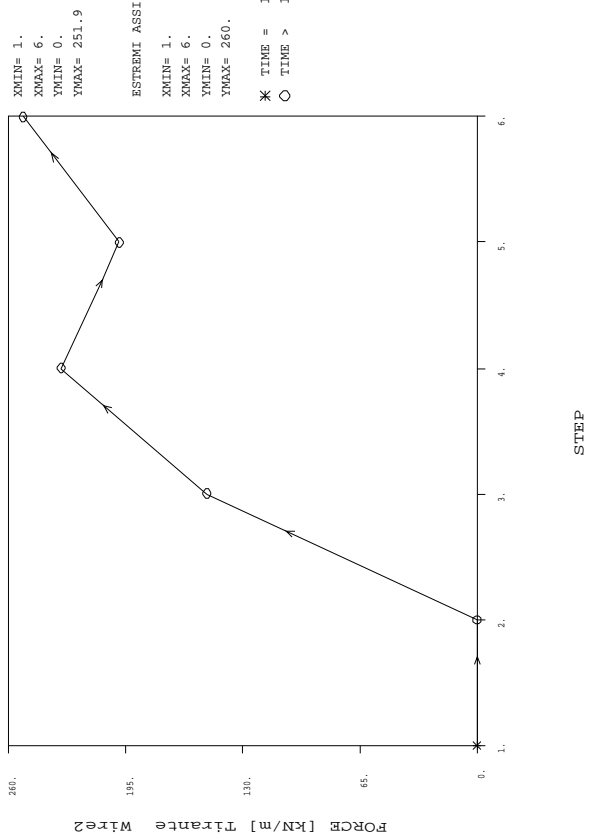
HISTORY 0 - HISTORY

FILE: C:\Users\A\Documents\A\Bakalop\Bakalop_01\Bakalop_01\Bakalop_01_History_01_History_01.History

Force unit= KN
 Length unit= M

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Tirante Wire2	
STEP	FORCE [KN/m]
1.	0.
2.	0.
3.	150.
4.	230.7
5.	198.5
6.	251.9



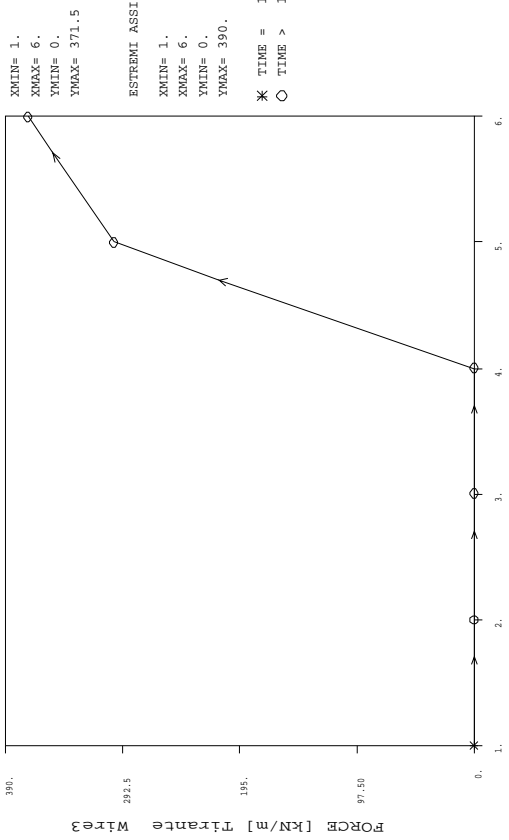
DAL PASSO 1 AL PASSO 6
 DIAGRAMMA VARIABILE X / VARIABILE Y

Hierarchy 0 - Hierarchy
 C:\Users\Administrator\AppData\Local\Microsoft\Excel\Excel12\HIERH.HIERD

Force units= KN
 Length units= M

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Tirante Wipe3	
STEP	FORCE [KN/m]
1.	0.
2.	0.
3.	0.
4.	0.
5.	300.
6.	371.5



DAL PASSO 1 AL PASSO 6
 DIAGRAMMA VARIABILE X / VARIABILE Y

Hystory 0 - HOMOIOO
 C:\Users\ADMINISTR\Documents\cassaella_111\Bella_Buella_Bonned_Lato_Ricostruz_A1\Bella_Buella_HISTO

Piece units= KN
 Length units= M

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PARATIE 7.00
16 NOVEMBRE 2011 13:14:19
History 0 - HOMOROD

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PAG. 1

```
*****  
**  
**          P  A  R  A  T  I  E          **  
**  
**          RELEASE 7.00  VERSIONE WIN  **  
**  
**  Ce.A.S. s.r.l. - Viale Giustiniano, 10  **  
**                      20129 MILANO      **  
**  
*****
```

JOBNAME C:\Users\Tecnico5\Desktop\Nuova cartella (3)\File Paratie Homorod L

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PAG. 2

ELENCO DEI DATI DI INPUT(PARAGEN)

Per il significato dei vari comandi
si faccia riferimento al manuale di
input PARAGEN, versione 7.00.

N. comando
1: * Paratie for Windows version 7.0
2: * Filename= <c:\users\tecnico5\desktop\nuova cartella (3)\file paratie
homorod 1
3: * project with "run time" parameters
4: * Force=kN Lenght=m
5: *
6: units m kN
7: title History 0 - HOMOROD
8: delta 0.2
9: option param itemax 20
10: option noprint echo
11: option noprint displ
12: option noprint react
13: option noprint stresses
14: wall RightWall 0 -30 0
15: *
16: soil DHRight RightWall -30 0 2 0
17: soil UHRight RightWall -30 0 1 180
18: *
19: prescribe RightWall -14.3 1 0 REL 9 9
20: *
21: material Pali 3.2308E+007
22: material Acciaio 2.1E+008
23: *
24: beam Right_wall RightWall -28 0 Pali 0.979439 00 00
25: *
26: wire Wire01 RightWall -0.5 Acciaio 2.87179E-005 150 157.5
27: wire Wire2 RightWall -4 Acciaio 4.30769E-005 150 157.5
28: wire Wire3 RightWall -8 Acciaio 4.30769E-005 300 157.5
29: wire Wire4 RightWall -12 Acciaio 4.30769E-005 300 157.5
30: *
31: * Soil Profile
32: *
33: ldata Soil 0
34: weight 19 9 10
35: atrest 1 0.5 1
36: resistance 20 25 0.359 3.319
37: young 12000 17000
38: endlayer

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PAG. 3

N. comando

```
39:      ldata          Soil2 -5
40:          weight      19.5 9.5 10
41:          atrest      1 0.5 1
42:          resistance  45 25 0.359 3.319
43:          young       18000 23000
44:      endlayer
45:      ldata          Soil3 -15
46:          weight      19.5 9.5 10
47:          atrest      1 0.5 1
48:          resistance  60 25 0.359 3.319
49:          young       25000 30000
50:      endlayer
51: *
52: step 1 :
53:     setwall RightWall
54:         geom 0 -0.5
55:         add Wire01
56: endstep
57: *
58: step 2 :
59:     setwall RightWall
60:         geom 0 -4
61:         water -2 2
62: endstep
63: *
64: step 3 :
65:     setwall RightWall
66:         add Wire2
67: endstep
68: *
69: step 4 :
70:     setwall RightWall
71:         geom 0 -8.5
72:         water -2 6.5
73: endstep
74: *
75: step 5 :
76:     setwall RightWall
77:         add Wire3
78: endstep
79: *
80: step 6 :
81:     setwall RightWall
82:         geom 0 -12.5
83:         water -2 10.5
84: endstep
```

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PAG. 4

N. comando

```
85: *
86: step 7 :
87:     setwall RightWall
88:         geom 0 -12.5
89:         water -2 10.5
90:         add Wire4
91: endstep
92: *
93: step 8 :
94:     setwall RightWall
95:         geom 0 -14.5
96:         water -2 12.5
97:         surcharge 0 0 0 0
98: endstep
99: *
100: step 9 :
101:     setwall RightWall
102:         geom 0 -14.5
103:         water -2 12.5
104:         surcharge 23 0 0 0
105: endstep
106: *
107: *
```


RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 1

LAYER Soil			
natura 1=granulare, 2=argilla	=	1.0000	
quota superiore	=	0.0000	m
quota inferiore	=	-5.0000	m
peso fuori falda	=	19.000	kN/m ³
peso efficace in falda	=	9.0000	kN/m ³
peso dell'acqua	=	10.000	kN/m ³
coesione	=	20.000	kPa (A MONTE)
angolo di attrito	=	25.000	DEG (A MONTE)
coeff. spinta attiva ka	=	0.35900	(A MONTE)
coeff. spinta passiva kp	=	3.3190	(A MONTE)
Konc normal consolidato	=	1.0000	
esponente di OCR	=	0.50000	
OCR: grado di sovraconsolidazione	=	1.0000	
modello di rigidità	=	1.0000	
modulo el. compr. vergine	=	12000.	kPa
modulo el. scarico/ricarico	=	17000.	kPa
natura 1=granulare, 2=argilla	=	1.0000	(A VALLE)
coesione	=	20.000	kPa (A VALLE)
angolo di attrito	=	25.000	DEG (A VALLE)
coeff. spinta attiva ka	=	0.35900	(A VALLE)
coeff. spinta passiva kp	=	3.3190	(A VALLE)
LAYER Soil2			
natura 1=granulare, 2=argilla	=	1.0000	
quota superiore	=	-5.0000	m
quota inferiore	=	-15.000	m
peso fuori falda	=	19.500	kN/m ³
peso efficace in falda	=	9.5000	kN/m ³
peso dell'acqua	=	10.000	kN/m ³
coesione	=	45.000	kPa (A MONTE)
angolo di attrito	=	25.000	DEG (A MONTE)
coeff. spinta attiva ka	=	0.35900	(A MONTE)
coeff. spinta passiva kp	=	3.3190	(A MONTE)
Konc normal consolidato	=	1.0000	
esponente di OCR	=	0.50000	
OCR: grado di sovraconsolidazione	=	1.0000	
modello di rigidità	=	1.0000	
modulo el. compr. vergine	=	18000.	kPa
modulo el. scarico/ricarico	=	23000.	kPa
natura 1=granulare, 2=argilla	=	1.0000	(A VALLE)
coesione	=	45.000	kPa (A VALLE)

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PAG. 6

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 1

angolo di attrito	= 25.000	DEG	(A VALLE)
coeff. spinta attiva ka	= 0.35900		(A VALLE)
coeff. spinta passiva kp	= 3.3190		(A VALLE)

LAYER Soil3

natura 1=granulare, 2=argilla	= 1.0000		
quota superiore	= -15.000	m	
quota inferiore	= -0.10000E+31	m	
peso fuori falda	= 19.500	kN/m ³	
peso efficace in falda	= 9.5000	kN/m ³	
peso dell'acqua	= 10.000	kN/m ³	
coesione	= 60.000	kPa	(A MONTE)
angolo di attrito	= 25.000	DEG	(A MONTE)
coeff. spinta attiva ka	= 0.35900		(A MONTE)
coeff. spinta passiva kp	= 3.3190		(A MONTE)
Konc normal consolidato	= 1.0000		
esponente di OCR	= 0.50000		
OCR: grado di sovraconsolidazione	= 1.0000		
modello di rigidezza	= 1.0000		
modulo el. compr. vergine	= 25000.	kPa	
modulo el. scarico/ricarico	= 30000.	kPa	
natura 1=granulare, 2=argilla	= 1.0000		(A VALLE)
coesione	= 60.000	kPa	(A VALLE)
angolo di attrito	= 25.000	DEG	(A VALLE)
coeff. spinta attiva ka	= 0.35900		(A VALLE)
coeff. spinta passiva kp	= 3.3190		(A VALLE)

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 2

(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 3

(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 4

(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 5

(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 6

(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 7

(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 8

(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO PARAMETRI GEOTECNICI PER LA FASE 9

(SOLO I PARAMETRI CHE POSSONO VARIARE)

NESSUN CAMBIAMENTO RISPETTO AL PASSO PRECEDENTE

RIASSUNTO DATI RELATIVI ALLA FASE 1

WALL RightWall

coordinata y	=	0.0000	m
quota piano campagna	=	0.0000	m
quota del fondo scavo	=	-0.50000	m
quota della falda	=	-0.99900E+30	m
sovraccarico a monte	=	0.0000	kPa
quota del sovraccarico a monte	=	0.0000	m
depressione falda a valle	=	0.0000	m
sovraccarico a valle	=	0.0000	kPa
quota del sovraccarico a valle	=	-0.99900E+30	m
quota di taglio	=	0.0000	m
quota di equil. pressioni dell'acqua	=	-30.000	m
indicatore comportamento acqua	=	0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	=	0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 2

WALL RightWall

coordinata y	=	0.0000	m
quota piano campagna	=	0.0000	m
quota del fondo scavo	=	-4.0000	m
quota della falda	=	-2.0000	m
sovraccarico a monte	=	0.0000	kPa
quota del sovraccarico a monte	=	0.0000	m
depressione falda a valle	=	2.0000	m
sovraccarico a valle	=	0.0000	kPa
quota del sovraccarico a valle	=	-0.99900E+30	m
quota di taglio	=	0.0000	m
quota di equil. pressioni dell'acqua	=	-30.000	m
indicatore comportamento acqua	=	0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	=	0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 3

WALL RightWall

coordinata y	=	0.0000	m
quota piano campagna	=	0.0000	m
quota del fondo scavo	=	-4.0000	m
quota della falda	=	-2.0000	m
sovraccarico a monte	=	0.0000	kPa

RIASSUNTO DATI RELATIVI ALLA FASE 3

quota del sovraccarico a monte	= 0.0000	m
depressione falda a valle	= 2.0000	m
sovraccarico a valle	= 0.0000	kPa
quota del sovraccarico a valle	= -0.99900E+30	m
quota di taglio	= 0.0000	m
quota di equil. pressioni dell'acqua	= -30.0000	m
indicatore comportamento acqua	= 0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	= 0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 4

WALL RightWall

coordinata y	= 0.0000	m
quota piano campagna	= 0.0000	m
quota del fondo scavo	= -8.5000	m
quota della falda	= -2.0000	m
sovraccarico a monte	= 0.0000	kPa
quota del sovraccarico a monte	= 0.0000	m
depressione falda a valle	= 6.5000	m
sovraccarico a valle	= 0.0000	kPa
quota del sovraccarico a valle	= -0.99900E+30	m
quota di taglio	= 0.0000	m
quota di equil. pressioni dell'acqua	= -30.0000	m
indicatore comportamento acqua	= 0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	= 0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 5

WALL RightWall

coordinata y	= 0.0000	m
quota piano campagna	= 0.0000	m
quota del fondo scavo	= -8.5000	m
quota della falda	= -2.0000	m
sovraccarico a monte	= 0.0000	kPa
quota del sovraccarico a monte	= 0.0000	m
depressione falda a valle	= 6.5000	m
sovraccarico a valle	= 0.0000	kPa
quota del sovraccarico a valle	= -0.99900E+30	m
quota di taglio	= 0.0000	m
quota di equil. pressioni dell'acqua	= -30.0000	m
indicatore comportamento acqua	= 0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	= 0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 6

WALL RightWall

coordinata y	=	0.0000	m
quota piano campagna	=	0.0000	m
quota del fondo scavo	=	-12.500	m
quota della falda	=	-2.0000	m
sovraccarico a monte	=	0.0000	kPa
quota del sovraccarico a monte	=	0.0000	m
depressione falda a valle	=	10.500	m
sovraccarico a valle	=	0.0000	kPa
quota del sovraccarico a valle	=	-0.99900E+30	m
quota di taglio	=	0.0000	m
quota di equil. pressioni dell'acqua	=	-30.000	m
indicatore comportamento acqua	=	0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	=	0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 7

WALL RightWall

coordinata y	=	0.0000	m
quota piano campagna	=	0.0000	m
quota del fondo scavo	=	-12.500	m
quota della falda	=	-2.0000	m
sovraccarico a monte	=	0.0000	kPa
quota del sovraccarico a monte	=	0.0000	m
depressione falda a valle	=	10.500	m
sovraccarico a valle	=	0.0000	kPa
quota del sovraccarico a valle	=	-0.99900E+30	m
quota di taglio	=	0.0000	m
quota di equil. pressioni dell'acqua	=	-30.000	m
indicatore comportamento acqua	=	0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	=	0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 8

WALL RightWall

coordinata y	=	0.0000	m
quota piano campagna	=	0.0000	m
quota del fondo scavo	=	-14.500	m
quota della falda	=	-2.0000	m
sovraccarico a monte	=	0.0000	kPa
quota del sovraccarico a monte	=	0.0000	m
depressione falda a valle	=	12.500	m
sovraccarico a valle	=	0.0000	kPa

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RIASSUNTO DATI RELATIVI ALLA FASE 8

quota del sovraccarico a valle	= 0.0000	m
quota di taglio	= 0.0000	m
quota di equil. pressioni dell'acqua	= -30.000	m
indicatore comportamento acqua	= 0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	= 0.0000	(1=NO UPD)

RIASSUNTO DATI RELATIVI ALLA FASE 9

WALL RightWall

coordinata y	= 0.0000	m
quota piano campagna	= 0.0000	m
quota del fondo scavo	= -14.500	m
quota della falda	= -2.0000	m
sovraccarico a monte	= 23.000	kPa
quota del sovraccarico a monte	= 0.0000	m
depressione falda a valle	= 12.500	m
sovraccarico a valle	= 0.0000	kPa
quota del sovraccarico a valle	= 0.0000	m
quota di taglio	= 0.0000	m
quota di equil. pressioni dell'acqua	= -30.000	m
indicatore comportamento acqua	= 0.0000	(1=REMOVE)
opzione aggiornamento pressioni acqua	= 0.0000	(1=NO UPD)

RIASSUNTO ELEMENTI
 =====

RIASSUNTO ELEMENTI SOIL						
Name	Wall	Z1	Z2	Flag	Angle	
		m	m		deg	
DHRight	RightWall	0.	-30.00	DOWNHILL	0.	
UHRight	RightWall	0.	-30.00	UPHILL	180.0	

RIASSUNTO ELEMENTI BEAM						
Name	Wall	Z1	Z2	Mat	thick	
		m	m		m	
Right_wall	RightWall	0.	-28.00	_	0.9794	

RIASSUNTO ELEMENTI WIRE						
Name	Wall	Zeta	Mat	A/L	Pinit	Angle
		m			kN/m	deg
Wire01	RightWall	-.5000	_	0.2872E-04	150.0	157.5
Wire2	RightWall	-4.000	_	0.4308E-04	150.0	157.5
Wire3	RightWall	-8.000	_	0.4308E-04	300.0	157.5
Wire4	RightWall	-12.00	_	0.4308E-04	300.0	157.5

RIASSUNTO DATI VARI
=====

MATERIALI	
Name	YOUNG MODULUS
	kPa
Pali	3.2308E+007
Acci	2.1E+008

SPOSTAMENTI IMPRESSI							
Wall	Zeta	Dir.	type	value	units	from	to
Righ	-14.3	ydispl	REL	0	m	9	9

PARATIE 7.00

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RIASSUNTO ANALISI INCREMENTALE

FASE	N. DI ITERAZIONI	CONVERGENZA
1	3	SI
2	2	SI
3	2	SI
4	2	SI
5	2	SI
6	2	SI
7	2	SI
8	2	SI
9	2	SI

MASSIMI SPOSTAMENTI LATERALI

TUTTI I PASSI

* PARETE RightWall*

* I PASSI NON EQUILIBRATI SONO ESCLUSI *

* NOTA: LE QUOTE ESPRESSE IN m

E GLI SPOSTAMENTI IN m

NODO	QUOTA ZETA	SPOSTAMENTO MASSIMO	FASE PARETE RightWall
1	0.0000	0.68558E-02	8
2	-0.20000	0.59208E-02	8
3	-0.40000	0.49858E-02	8
4	-0.50000	0.45183E-02	8
5	-0.70000	0.35833E-02	8
6	-0.90000	0.33639E-02	1
7	-1.1000	-0.38037E-02	9
8	-1.3000	-0.46342E-02	9
9	-1.5000	-0.54632E-02	9
10	-1.7000	-0.62902E-02	9
11	-1.9000	-0.71150E-02	9
12	-2.1000	-0.79372E-02	9
13	-2.3000	-0.87566E-02	9
14	-2.5000	-0.95729E-02	9
15	-2.7000	-0.10386E-01	9
16	-2.9000	-0.11196E-01	9
17	-3.1000	-0.12002E-01	9
18	-3.3000	-0.12805E-01	9
19	-3.5000	-0.13604E-01	9
20	-3.7000	-0.14399E-01	9
21	-3.9000	-0.15190E-01	9
22	-4.0000	-0.15585E-01	9
23	-4.2000	-0.16371E-01	9
24	-4.4000	-0.17153E-01	9
25	-4.6000	-0.17930E-01	9
26	-4.8000	-0.18701E-01	9
27	-5.0000	-0.19467E-01	9
28	-5.2000	-0.20226E-01	9
29	-5.4000	-0.20978E-01	9
30	-5.6000	-0.21723E-01	9
31	-5.8000	-0.22460E-01	9
32	-6.0000	-0.23190E-01	9
33	-6.2000	-0.23911E-01	9
34	-6.4000	-0.24623E-01	9
35	-6.6000	-0.25327E-01	9
36	-6.8000	-0.26022E-01	9
37	-7.0000	-0.26708E-01	9
38	-7.2000	-0.27385E-01	9

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History 0 - HOMOROD

NODO	QUOTA ZETA	SPOSTAMENTO MASSIMO	FASE PARETE RightWall
39	-7.4000	-0.28053E-01	9
40	-7.6000	-0.28712E-01	9
41	-7.8000	-0.29362E-01	9
42	-8.0000	-0.30003E-01	9
43	-8.2000	-0.30636E-01	9
44	-8.4000	-0.31259E-01	9
45	-8.6000	-0.31872E-01	9
46	-8.8000	-0.32473E-01	9
47	-9.0000	-0.33063E-01	9
48	-9.2000	-0.33640E-01	9
49	-9.4000	-0.34203E-01	9
50	-9.6000	-0.34752E-01	9
51	-9.8000	-0.35286E-01	9
52	-10.000	-0.35805E-01	9
53	-10.200	-0.36309E-01	9
54	-10.400	-0.36797E-01	9
55	-10.600	-0.37269E-01	9
56	-10.800	-0.37725E-01	9
57	-11.000	-0.38164E-01	9
58	-11.200	-0.38588E-01	9
59	-11.400	-0.38995E-01	9
60	-11.600	-0.39386E-01	9
61	-11.800	-0.39762E-01	9
62	-12.000	-0.40122E-01	9
63	-12.200	-0.40467E-01	9
64	-12.400	-0.40797E-01	9
65	-12.600	-0.41112E-01	9
66	-12.800	-0.41410E-01	9
67	-13.000	-0.41692E-01	9
68	-13.200	-0.41958E-01	9
69	-13.400	-0.42207E-01	9
70	-13.600	-0.42440E-01	9
71	-13.800	-0.42657E-01	9
72	-14.000	-0.42858E-01	9
73	-14.200	-0.43044E-01	9
74	-14.300	-0.43132E-01	9
75	-14.500	-0.43303E-01	8
76	-14.700	-0.43454E-01	8
77	-14.900	-0.43587E-01	8
78	-15.100	-0.43707E-01	9
79	-15.300	-0.43818E-01	9
80	-15.500	-0.43916E-01	9
81	-15.700	-0.44002E-01	9
82	-15.900	-0.44077E-01	9
83	-16.100	-0.44140E-01	9
84	-16.300	-0.44192E-01	9

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History 0 - HOMOROD

NODO	QUOTA ZETA	SPOSTAMENTO MASSIMO	FASE PARETE RightWall
85	-16.500	-0.44234E-01	9
86	-16.700	-0.44266E-01	9
87	-16.900	-0.44289E-01	9
88	-17.100	-0.44302E-01	9
89	-17.300	-0.44306E-01	9
90	-17.500	-0.44302E-01	9
91	-17.700	-0.44290E-01	9
92	-17.900	-0.44271E-01	9
93	-18.100	-0.44244E-01	9
94	-18.300	-0.44210E-01	9
95	-18.500	-0.44170E-01	9
96	-18.700	-0.44123E-01	9
97	-18.900	-0.44071E-01	9
98	-19.100	-0.44013E-01	9
99	-19.300	-0.43949E-01	9
100	-19.500	-0.43881E-01	9
101	-19.700	-0.43808E-01	9
102	-19.900	-0.43731E-01	9
103	-20.100	-0.43649E-01	9
104	-20.300	-0.43563E-01	9
105	-20.500	-0.43474E-01	9
106	-20.700	-0.43382E-01	9
107	-20.900	-0.43286E-01	9
108	-21.100	-0.43187E-01	9
109	-21.300	-0.43086E-01	9
110	-21.500	-0.42982E-01	9
111	-21.700	-0.42875E-01	9
112	-21.900	-0.42767E-01	9
113	-22.100	-0.42656E-01	9
114	-22.300	-0.42544E-01	9
115	-22.500	-0.42430E-01	9
116	-22.700	-0.42314E-01	9
117	-22.900	-0.42197E-01	9
118	-23.100	-0.42079E-01	9
119	-23.300	-0.41959E-01	9
120	-23.500	-0.41839E-01	9
121	-23.700	-0.41717E-01	9
122	-23.900	-0.41595E-01	9
123	-24.100	-0.41472E-01	9
124	-24.300	-0.41348E-01	9
125	-24.500	-0.41224E-01	9
126	-24.700	-0.41099E-01	9
127	-24.900	-0.40974E-01	9
128	-25.100	-0.40848E-01	9
129	-25.300	-0.40722E-01	9
130	-25.500	-0.40596E-01	9

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History 0 - HOMOROD

NODO	QUOTA ZETA	SPOSTAMENTO MASSIMO	FASE PARETE RightWall
131	-25.700	-0.40470E-01	9
132	-25.900	-0.40343E-01	9
133	-26.100	-0.40216E-01	9
134	-26.300	-0.40090E-01	9
135	-26.500	-0.39963E-01	9
136	-26.700	-0.39836E-01	9
137	-26.900	-0.39708E-01	9
138	-27.100	-0.39581E-01	9
139	-27.300	-0.39454E-01	9
140	-27.500	-0.39327E-01	9
141	-27.700	-0.39200E-01	9
142	-27.900	-0.39073E-01	9
143	-28.000	-0.39009E-01	9
144	-28.200	-0.37671E-01	9
145	-28.400	-0.37594E-01	9
146	-28.600	-0.37518E-01	9
147	-28.800	-0.37443E-01	9
148	-29.000	-0.37368E-01	9
149	-29.200	-0.37293E-01	9
150	-29.400	-0.37219E-01	9
151	-29.600	-0.37145E-01	9
152	-29.800	-0.37072E-01	9
153	-30.000	-0.36999E-01	9

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PAG. 19

STEP DI CARICO NO. 9

NOD	Y-REACT [kN/m]	X-MOM-R [kN*m/m]
74	0.17578976E+03	0.00000000E+00

INVILUPPO AZIONI INTERNE NEGLI ELEMENTI DI PARETE
 (PER UNITA' DI PROFONDITA')

* PARETE RightWall GRUPPO Right_wall*

STEP 1 - 9

* I PASSI NON EQUILIBRATI SONO ESCLUSI *

Nella tabella si stampano i seguenti risultati:

MOMENTO SX = Momento che tende le fibre sulla faccia sinistra [kN*m/m]

MOMENTO DX = Momento che tende le fibre sulla faccia destra [kN*m/m]

TAGLIO = forza tagliante (valore assoluto, priva di segno)[kN/m]

BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
1	A	0.	0.3056E-09	0.3129E-09	3.319
	B	-0.2000	0.	0.6637	3.319
2	A	-0.2000	0.	0.6637	10.27
	B	-0.4000	0.	2.717	10.27
3	A	-0.4000	0.	2.717	15.71
	B	-0.5000	0.	4.288	15.71
4	A	-0.5000	0.	4.288	162.7
	B	-0.7000	31.67	0.	162.7
5	A	-0.7000	31.67	0.	160.2
	B	-0.9000	63.72	0.	160.2
6	A	-0.9000	63.72	0.	157.4
	B	-1.100	95.19	0.	157.4
7	A	-1.100	95.19	0.	154.1
	B	-1.300	126.0	0.	154.1
8	A	-1.300	126.0	0.	150.5
	B	-1.500	156.1	0.	150.5
9	A	-1.500	156.1	0.	146.5
	B	-1.700	185.4	0.	146.5
10	A	-1.700	185.4	0.	142.1
	B	-1.900	213.8	0.	142.1
11	A	-1.900	213.8	0.	137.3
	B	-2.100	241.3	0.	137.3
12	A	-2.100	241.3	0.	132.0
	B	-2.300	267.7	0.	132.0
13	A	-2.300	267.7	0.	126.1
	B	-2.500	292.9	0.	126.1
14	A	-2.500	292.9	0.	119.6
	B	-2.700	316.8	0.	119.6
15	A	-2.700	316.8	0.	112.6
	B	-2.900	339.3	0.	112.6
16	A	-2.900	339.3	0.	105.0
	B	-3.100	360.4	0.	105.0
17	A	-3.100	360.4	0.	96.85
	B	-3.300	379.7	0.	96.85

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History 0 - HOMOROD

BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
18	A	-3.300	379.7	0.	88.09
	B	-3.500	397.3	0.	88.09
19	A	-3.500	397.3	0.	78.74
	B	-3.700	413.1	0.	78.74
20	A	-3.700	413.1	0.	68.80
	B	-3.900	426.8	0.	68.80
21	A	-3.900	426.8	0.	60.90
	B	-4.000	432.9	0.	60.90
22	A	-4.000	432.9	0.	265.7
	B	-4.200	486.1	0.	265.7
23	A	-4.200	486.1	0.	254.3
	B	-4.400	536.9	0.	254.3
24	A	-4.400	536.9	0.	242.2
	B	-4.600	585.4	0.	242.2
25	A	-4.600	585.4	0.	229.6
	B	-4.800	631.3	0.	229.6
26	A	-4.800	631.3	0.	216.3
	B	-5.000	674.6	0.	216.3
27	A	-5.000	674.6	0.	205.0
	B	-5.200	715.6	0.	205.0
28	A	-5.200	715.6	0.	193.1
	B	-5.400	754.2	0.	193.1
29	A	-5.400	754.2	0.	180.7
	B	-5.600	790.3	0.	180.7
30	A	-5.600	790.3	0.	167.7
	B	-5.800	823.9	0.	167.7
31	A	-5.800	823.9	0.	154.2
	B	-6.000	854.7	0.	154.2
32	A	-6.000	854.7	0.	140.0
	B	-6.200	882.7	0.	140.0
33	A	-6.200	882.7	0.	125.3
	B	-6.400	907.8	0.	125.3
34	A	-6.400	907.8	0.	109.9
	B	-6.600	929.7	0.	109.9
35	A	-6.600	929.7	0.	93.99
	B	-6.800	948.5	0.	93.99
36	A	-6.800	948.5	0.	77.43
	B	-7.000	964.0	0.	77.43
37	A	-7.000	964.0	0.	60.24
	B	-7.200	976.1	0.	60.24
38	A	-7.200	976.1	0.	71.14
	B	-7.400	984.6	0.	71.14
39	A	-7.400	984.6	0.	92.53
	B	-7.600	989.3	0.	92.53
40	A	-7.600	989.3	0.	114.6
	B	-7.800	990.3	0.	114.6

PARATIE 7.00

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History 0 - HOMOROD

BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
41	A	-7.800	990.3	0.	137.3
	B	-8.000	987.3	0.	137.3
42	A	-8.000	987.3	0.	361.5
	B	-8.200	980.1	0.	361.5
43	A	-8.200	980.1	0.	344.0
	B	-8.400	968.8	0.	344.0
44	A	-8.400	968.8	0.	326.0
	B	-8.600	1014.	0.	326.0
45	A	-8.600	1014.	0.	307.5
	B	-8.800	1076.	0.	307.5
46	A	-8.800	1076.	0.	288.4
	B	-9.000	1133.	0.	288.4
47	A	-9.000	1133.	0.	268.7
	B	-9.200	1187.	0.	268.7
48	A	-9.200	1187.	0.	248.4
	B	-9.400	1237.	0.	248.4
49	A	-9.400	1237.	0.	227.5
	B	-9.600	1282.	0.	227.5
50	A	-9.600	1282.	0.	206.0
	B	-9.800	1323.	0.	206.0
51	A	-9.800	1323.	0.	183.9
	B	-10.00	1360.	0.	183.9
52	A	-10.00	1360.	0.	161.1
	B	-10.20	1392.	0.	161.1
53	A	-10.20	1392.	0.	137.6
	B	-10.40	1420.	0.	137.6
54	A	-10.40	1420.	0.	120.2
	B	-10.60	1443.	0.	120.2
55	A	-10.60	1443.	0.	121.7
	B	-10.80	1460.	0.	121.7
56	A	-10.80	1460.	0.	123.0
	B	-11.00	1473.	0.	123.0
57	A	-11.00	1473.	0.	124.0
	B	-11.20	1480.	0.	124.0
58	A	-11.20	1480.	0.	124.9
	B	-11.40	1482.	0.	124.9
59	A	-11.40	1482.	0.	138.1
	B	-11.60	1479.	0.	138.1
60	A	-11.60	1479.	0.	169.0
	B	-11.80	1469.	0.	169.0
61	A	-11.80	1469.	0.	200.7
	B	-12.00	1454.	0.	200.7
62	A	-12.00	1454.	0.	220.4
	B	-12.20	1433.	0.	220.4
63	A	-12.20	1433.	0.	190.9
	B	-12.40	1405.	0.	190.9

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History 0 - HOMOROD

BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
64	A	-12.40	1405.	0.	168.8
	B	-12.60	1372.	0.	168.8
65	A	-12.60	1372.	0.	179.9
	B	-12.80	1336.	0.	179.9
66	A	-12.80	1336.	0.	189.5
	B	-13.00	1298.	0.	189.5
67	A	-13.00	1298.	0.	197.9
	B	-13.20	1306.	0.	197.9
68	A	-13.20	1306.	0.	205.7
	B	-13.40	1313.	0.	205.7
69	A	-13.40	1313.	0.	212.8
	B	-13.60	1312.	0.	212.8
70	A	-13.60	1312.	0.	219.3
	B	-13.80	1305.	0.	219.3
71	A	-13.80	1305.	0.	225.5
	B	-14.00	1290.	0.	225.5
72	A	-14.00	1290.	0.	231.3
	B	-14.20	1268.	0.	231.3
73	A	-14.20	1268.	0.	235.4
	B	-14.30	1254.	0.	235.4
74	A	-14.30	1254.	0.	239.4
	B	-14.50	1221.	0.	239.4
75	A	-14.50	1221.	0.	244.5
	B	-14.70	1184.	0.	244.5
76	A	-14.70	1184.	0.	249.4
	B	-14.90	1144.	0.	249.4
77	A	-14.90	1144.	0.	254.2
	B	-15.10	1101.	0.	254.2
78	A	-15.10	1101.	0.	245.9
	B	-15.30	1059.	5.054	245.9
79	A	-15.30	1059.	5.054	237.7
	B	-15.50	1017.	11.53	237.7
80	A	-15.50	1017.	11.53	229.3
	B	-15.70	975.1	17.46	229.3
81	A	-15.70	975.1	17.46	221.0
	B	-15.90	934.1	22.86	221.0
82	A	-15.90	934.1	22.86	212.6
	B	-16.10	893.6	27.75	212.6
83	A	-16.10	893.6	27.75	204.3
	B	-16.30	853.9	32.15	204.3
84	A	-16.30	853.9	32.15	196.0
	B	-16.50	815.0	36.10	196.0
85	A	-16.50	815.0	36.10	190.4
	B	-16.70	776.9	39.60	190.4
86	A	-16.70	776.9	39.60	186.0
	B	-16.90	739.7	42.69	186.0

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History 0 - HOMOROD

BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
87	A	-16.90	739.7	42.69	181.5
	B	-17.10	703.4	45.38	181.5
88	A	-17.10	703.4	45.38	176.8
	B	-17.30	668.1	47.69	176.8
89	A	-17.30	668.1	47.69	171.9
	B	-17.50	633.7	49.65	171.9
90	A	-17.50	633.7	49.65	167.0
	B	-17.70	600.3	58.66	167.0
91	A	-17.70	600.3	58.66	161.9
	B	-17.90	567.9	67.73	161.9
92	A	-17.90	567.9	67.73	156.9
	B	-18.10	536.5	75.86	156.9
93	A	-18.10	536.5	75.86	151.7
	B	-18.30	506.2	83.08	151.7
94	A	-18.30	506.2	83.08	146.6
	B	-18.50	476.9	89.43	146.6
95	A	-18.50	476.9	89.43	141.4
	B	-18.70	448.6	94.96	141.4
96	A	-18.70	448.6	94.96	136.3
	B	-18.90	421.3	99.69	136.3
97	A	-18.90	421.3	99.69	131.1
	B	-19.10	395.1	103.7	131.1
98	A	-19.10	395.1	103.7	126.0
	B	-19.30	369.9	106.9	126.0
99	A	-19.30	369.9	106.9	120.9
	B	-19.50	345.7	109.5	120.9
100	A	-19.50	345.7	109.5	115.9
	B	-19.70	322.6	111.5	115.9
101	A	-19.70	322.6	111.5	110.9
	B	-19.90	300.4	112.8	110.9
102	A	-19.90	300.4	112.8	105.9
	B	-20.10	279.2	113.6	105.9
103	A	-20.10	279.2	113.6	101.1
	B	-20.30	259.0	113.9	101.1
104	A	-20.30	259.0	113.9	96.29
	B	-20.50	239.7	113.6	96.29
105	A	-20.50	239.7	113.6	91.58
	B	-20.70	221.4	112.9	91.58
106	A	-20.70	221.4	112.9	86.96
	B	-20.90	204.0	111.7	86.96
107	A	-20.90	204.0	111.7	82.44
	B	-21.10	187.5	110.1	82.44
108	A	-21.10	187.5	110.1	78.00
	B	-21.30	171.9	108.2	78.00
109	A	-21.30	171.9	108.2	73.67
	B	-21.50	157.2	105.9	73.67

PARATIE 7.00

Ce.A.S. s.r.l. - Milano

PAG. 25

16 NOVEMBRE 2011 13:14:19

History 0 - HOMOROD

BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
110	A	-21.50	157.2	105.9	69.44
	B	-21.70	143.3	103.3	69.44
111	A	-21.70	143.3	103.3	65.32
	B	-21.90	130.2	100.4	65.32
112	A	-21.90	130.2	100.4	61.31
	B	-22.10	118.0	97.22	61.31
113	A	-22.10	118.0	97.22	57.41
	B	-22.30	106.8	93.83	57.41
114	A	-22.30	106.8	93.83	53.62
	B	-22.50	97.58	90.23	53.62
115	A	-22.50	97.58	90.23	49.95
	B	-22.70	88.85	86.45	49.95
116	A	-22.70	88.85	86.45	46.40
	B	-22.90	80.63	82.51	46.40
117	A	-22.90	80.63	82.51	42.98
	B	-23.10	72.91	78.45	42.98
118	A	-23.10	72.91	78.45	39.67
	B	-23.30	65.67	74.28	39.67
119	A	-23.30	65.67	74.28	36.49
	B	-23.50	58.91	70.03	36.49
120	A	-23.50	58.91	70.03	33.44
	B	-23.70	52.61	65.72	33.44
121	A	-23.70	52.61	65.72	30.51
	B	-23.90	46.76	61.37	30.51
122	A	-23.90	46.76	61.37	27.71
	B	-24.10	41.33	57.02	27.71
123	A	-24.10	41.33	57.02	25.04
	B	-24.30	36.33	52.67	25.04
124	A	-24.30	36.33	52.67	23.02
	B	-24.50	31.72	48.36	23.02
125	A	-24.50	31.72	48.36	21.30
	B	-24.70	27.51	44.10	21.30
126	A	-24.70	27.51	44.10	20.92
	B	-24.90	23.66	39.91	20.92
127	A	-24.90	23.66	39.91	20.44
	B	-25.10	20.18	35.83	20.44
128	A	-25.10	20.18	35.83	19.85
	B	-25.30	17.03	31.86	19.85
129	A	-25.30	17.03	31.86	19.16
	B	-25.50	14.22	28.02	19.16
130	A	-25.50	14.22	28.02	18.37
	B	-25.70	11.71	24.35	18.37
131	A	-25.70	11.71	24.35	17.48
	B	-25.90	9.500	20.85	17.48
132	A	-25.90	9.500	20.85	16.48
	B	-26.10	7.568	17.56	16.48

PARATIE 7.00
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History 0 - HOMOROD

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PAG. 26

BEAM EL.	ESTREMO	QUOTA	MOMENTO SX	MOMENTO DX	TAGLIO
133	A	-26.10	7.568	17.56	15.38
	B	-26.30	5.899	14.48	15.38
134	A	-26.30	5.899	14.48	14.19
	B	-26.50	4.477	11.64	14.19
135	A	-26.50	4.477	11.64	12.89
	B	-26.70	3.286	9.065	12.89
136	A	-26.70	3.286	9.065	11.50
	B	-26.90	2.308	6.766	11.50
137	A	-26.90	2.308	6.766	10.00
	B	-27.10	1.527	4.766	10.00
138	A	-27.10	1.527	4.766	8.406
	B	-27.30	0.9271	3.085	8.406
139	A	-27.30	0.9271	3.085	6.712
	B	-27.50	0.4903	1.742	6.712
140	A	-27.50	0.4903	1.742	4.919
	B	-27.70	0.1999	0.7584	4.919
141	A	-27.70	0.1999	0.7584	3.026
	B	-27.90	0.3868E-01	0.1532	3.026
142	A	-27.90	0.3868E-01	0.1532	1.532
	B	-28.00	0.1056E-07	0.2183E-08	1.532

PARATIE 7.00
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History 0 - HOMOROD

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PAG. 27

FORZE NEGLI ANCORAGGI ATTIVI (PER UNITA' DI PROFONDITA')

TIRANTE	Wire01	1 PARETE RightWall	QUOTA	-0.50000
		FASE 1 FORZA	150.00	kN/m
		FASE 2 FORZA	170.07	kN/m
		FASE 3 FORZA	156.72	kN/m
		FASE 4 FORZA	181.48	kN/m
		FASE 5 FORZA	167.51	kN/m
		FASE 6 FORZA	158.42	kN/m
		FASE 7 FORZA	158.36	kN/m
		FASE 8 FORZA	145.35	kN/m
		FASE 9 FORZA	177.80	kN/m
TIRANTE	Wire2	1 PARETE RightWall	QUOTA	-4.0000
		FASE 1 inattivo		
		FASE 2 inattivo		
		FASE 3 FORZA	150.00	kN/m
		FASE 4 FORZA	230.47	kN/m
		FASE 5 FORZA	198.44	kN/m
		FASE 6 FORZA	245.88	kN/m
		FASE 7 FORZA	228.43	kN/m
		FASE 8 FORZA	235.06	kN/m
		FASE 9 FORZA	268.64	kN/m
TIRANTE	Wire3	1 PARETE RightWall	QUOTA	-8.0000
		FASE 1 inattivo		
		FASE 2 inattivo		
		FASE 3 inattivo		
		FASE 4 inattivo		
		FASE 5 FORZA	300.00	kN/m
		FASE 6 FORZA	416.33	kN/m
		FASE 7 FORZA	380.21	kN/m
		FASE 8 FORZA	419.50	kN/m
		FASE 9 FORZA	436.27	kN/m
TIRANTE	Wire4	1 PARETE RightWall	QUOTA	-12.000
		FASE 1 inattivo		
		FASE 2 inattivo		
		FASE 3 inattivo		
		FASE 4 inattivo		
		FASE 5 inattivo		
		FASE 6 inattivo		
		FASE 7 FORZA	300.00	kN/m
		FASE 8 FORZA	373.53	kN/m
		FASE 9 FORZA	376.97	kN/m

INVILUPPO RISULTATI NEGLI ELEMENTI TERRENO

* PARETE RightWall GRUPPO DHRight*

STEP 1 - 9

* I PASSI NON EQUILIBRATI SONO ESCLUSI *

Nella tabella si stampano i seguenti risultati:

SIGMA-H = massimo sforzo orizzontale efficace [kPa]
 TAGLIO = massimo sforzo di taglio [kPa]
 PR. ACQUA =massima pressione interstiziale [kPa]
 GRAD. MAX =massimo gradiente idraulico

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
1	0.	0.	0.	0.	0.
2	-0.2000	0.	0.	0.	0.
3	-0.4000	0.	0.	0.	0.
4	-0.5000	0.	0.	0.	0.
5	-0.7000	0.	1.900	0.	0.
6	-0.9000	0.	3.800	0.	0.
7	-1.100	0.	5.700	0.	0.
8	-1.300	0.	7.600	0.	0.
9	-1.500	3.342	7.829	0.	0.
10	-1.700	7.978	7.411	0.	0.
11	-1.900	12.60	6.998	0.	0.
12	-2.100	17.22	6.591	0.	0.
13	-2.300	21.82	6.192	0.	0.
14	-2.500	26.40	5.799	0.	0.
15	-2.700	30.97	5.414	0.	0.
16	-2.900	35.52	5.038	0.	0.
17	-3.100	40.06	4.670	0.	0.
18	-3.300	44.58	4.311	0.	0.
19	-3.500	49.08	3.962	0.	0.
20	-3.700	53.55	3.623	0.	0.
21	-3.900	58.01	3.293	0.	0.
22	-4.000	60.24	8.972	0.	0.
23	-4.200	64.66	10.86	2.074	0.3704E-01
24	-4.400	69.07	12.85	4.148	0.3704E-01
25	-4.600	73.46	14.38	6.222	0.3704E-01
26	-4.800	77.82	15.69	8.296	0.3704E-01
27	-5.000	80.99	19.53	10.37	0.3704E-01
28	-5.200	85.60	20.73	12.44	0.3704E-01
29	-5.400	90.18	21.84	14.52	0.3704E-01
30	-5.600	94.73	22.89	16.59	0.3704E-01
31	-5.800	99.25	23.88	18.67	0.3704E-01
32	-6.000	103.7	24.82	20.74	0.3704E-01
33	-6.200	108.2	25.72	22.81	0.3704E-01
34	-6.400	112.6	26.57	24.89	0.3704E-01
35	-6.600	116.9	27.34	26.96	0.3704E-01

PARATIE 7.00

Ce.A.S. s.r.l. - Milano

PAG. 29

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History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
36	-6.800	121.2	28.09	29.04	0.3704E-01
37	-7.000	125.5	28.80	31.11	0.3704E-01
38	-7.200	129.7	29.50	33.19	0.3704E-01
39	-7.400	133.9	30.17	35.26	0.3704E-01
40	-7.600	138.2	30.82	37.33	0.3704E-01
41	-7.800	142.3	31.45	39.41	0.3704E-01
42	-8.000	146.5	32.06	41.48	0.3704E-01
43	-8.200	150.7	32.65	43.56	0.3704E-01
44	-8.400	154.8	33.23	45.63	0.3704E-01
45	-8.600	158.9	36.05	47.70	0.1313
46	-8.800	163.0	39.80	49.78	0.1313
47	-9.000	167.1	42.31	51.85	0.1313
48	-9.200	171.2	44.30	53.93	0.1313
49	-9.400	175.2	46.00	56.00	0.1313
50	-9.600	179.3	47.49	58.07	0.1313
51	-9.800	183.3	48.82	60.15	0.1313
52	-10.00	187.3	50.04	62.22	0.1313
53	-10.20	191.3	51.15	64.30	0.1313
54	-10.40	195.3	52.19	66.37	0.1313
55	-10.60	199.3	53.15	68.44	0.1313
56	-10.80	203.2	54.05	70.52	0.1313
57	-11.00	207.2	54.90	72.59	0.1313
58	-11.20	211.1	55.70	74.67	0.1313
59	-11.40	215.1	56.45	76.74	0.1313
60	-11.60	219.0	57.16	78.81	0.1313
61	-11.80	222.9	57.84	80.89	0.1313
62	-12.00	226.8	58.48	82.96	0.1313
63	-12.20	230.7	59.09	85.04	0.1313
64	-12.40	234.6	59.67	87.11	0.1313
65	-12.60	238.5	60.22	89.19	0.2308
66	-12.80	242.4	60.75	91.26	0.2308
67	-13.00	246.3	61.25	93.33	0.2308
68	-13.20	250.2	62.00	95.41	0.2308
69	-13.40	254.1	63.84	97.48	0.2308
70	-13.60	257.9	65.44	99.56	0.2308
71	-13.80	261.8	66.86	101.6	0.2308
72	-14.00	265.7	68.13	103.7	0.2308
73	-14.20	269.5	69.30	105.8	0.2308
74	-14.30	271.4	69.84	106.8	0.2308
75	-14.50	275.3	70.87	108.9	0.2308
76	-14.70	279.2	71.83	111.0	0.2874
77	-14.90	283.0	72.71	113.0	0.2874
78	-15.10	288.6	87.90	115.1	0.2874
79	-15.30	292.4	88.64	117.2	0.2874
80	-15.50	296.2	89.33	119.3	0.2874
81	-15.70	300.0	89.98	121.3	0.2874

PARATIE 7.00

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History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
82	-15.90	303.9	90.59	123.4	0.2874
83	-16.10	307.7	91.16	125.5	0.2874
84	-16.30	311.5	91.70	127.6	0.2874
85	-16.50	315.3	92.20	129.6	0.2874
86	-16.70	319.2	92.83	131.7	0.2874
87	-16.90	323.0	93.81	133.8	0.2874
88	-17.10	326.8	94.73	135.9	0.2874
89	-17.30	330.6	95.60	137.9	0.2874
90	-17.50	334.5	96.42	140.0	0.2874
91	-17.70	338.3	97.21	142.1	0.2874
92	-17.90	342.1	97.96	144.1	0.2874
93	-18.10	346.0	98.68	146.2	0.2874
94	-18.30	349.8	99.37	148.3	0.2874
95	-18.50	353.6	100.0	150.4	0.2874
96	-18.70	357.5	100.7	152.4	0.2874
97	-18.90	361.3	101.3	154.5	0.2874
98	-19.10	365.1	101.9	156.6	0.2874
99	-19.30	369.0	102.5	158.7	0.2874
100	-19.50	372.8	103.0	160.7	0.2874
101	-19.70	376.7	103.6	162.8	0.2874
102	-19.90	380.5	104.1	164.9	0.2874
103	-20.10	384.4	104.7	167.0	0.2874
104	-20.30	388.2	105.2	169.0	0.2874
105	-20.50	392.1	105.7	171.1	0.2874
106	-20.70	395.9	106.2	173.2	0.2874
107	-20.90	399.8	106.6	175.3	0.2874
108	-21.10	403.6	107.1	177.3	0.2874
109	-21.30	407.5	107.6	179.4	0.2874
110	-21.50	411.4	108.0	181.5	0.2874
111	-21.70	415.2	108.5	183.6	0.2874
112	-21.90	419.1	108.9	185.6	0.2874
113	-22.10	423.0	109.3	187.7	0.2874
114	-22.30	426.8	109.8	189.8	0.2874
115	-22.50	430.7	110.2	191.9	0.2874
116	-22.70	434.6	110.6	193.9	0.2874
117	-22.90	438.4	111.0	196.0	0.2874
118	-23.10	442.3	111.4	198.1	0.2874
119	-23.30	446.2	111.8	200.1	0.2874
120	-23.50	450.1	112.2	202.2	0.2874
121	-23.70	453.9	112.6	204.3	0.2874
122	-23.90	457.8	113.0	206.4	0.2874
123	-24.10	461.7	113.4	208.4	0.2874
124	-24.30	465.6	113.8	210.5	0.2874
125	-24.50	469.5	114.2	212.6	0.2874
126	-24.70	473.3	114.6	214.7	0.2874
127	-24.90	477.2	114.9	216.7	0.2874

PARATIE 7.00

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PAG. 31

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History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
128	-25.10	481.1	115.3	218.8	0.2874
129	-25.30	485.0	115.7	220.9	0.2874
130	-25.50	488.9	116.1	223.0	0.2874
131	-25.70	492.7	116.4	225.0	0.2874
132	-25.90	496.6	116.8	227.1	0.2874
133	-26.10	500.5	117.2	229.2	0.2874
134	-26.30	504.4	117.5	231.3	0.2874
135	-26.50	508.3	117.9	233.3	0.2874
136	-26.70	512.2	118.2	235.4	0.2874
137	-26.90	516.0	118.6	237.5	0.2874
138	-27.10	519.9	118.9	239.6	0.2874
139	-27.30	523.8	119.3	241.6	0.2874
140	-27.50	527.7	119.7	243.7	0.2874
141	-27.70	531.6	120.0	245.8	0.2874
142	-27.90	535.5	120.3	247.9	0.2874
143	-28.00	537.4	120.5	248.9	0.2874
144	-28.20	541.7	120.4	251.0	0.2874
145	-28.40	545.6	120.8	253.0	0.2874
146	-28.60	549.5	121.3	255.1	0.2874
147	-28.80	553.4	121.7	257.2	0.2874
148	-29.00	557.3	122.1	259.3	0.2874
149	-29.20	561.2	122.6	261.3	0.2874
150	-29.40	565.1	123.0	263.4	0.2874
151	-29.60	569.0	123.4	265.5	0.2874
152	-29.80	572.9	123.9	267.6	0.2874
153	-30.00	576.8	124.3	269.6	0.2874

INVILUPPO RISULTATI NEGLI ELEMENTI TERRENO

* PARETE RightWall GRUPPO UHRight*

STEP 1 - 9

* I PASSI NON EQUILIBRATI SONO ESCLUSI *

Nella tabella si stampano i seguenti risultati:

SIGMA-H = massimo sforzo orizzontale efficace [kPa]

TAGLIO = massimo sforzo di taglio [kPa]

PR. ACQUA =massima pressione interstiziale [kPa]

GRAD. MAX =massimo gradiente idraulico

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
1	0.	33.19	9.612	0.	0.
2	-0.2000	34.74	9.236	0.	0.
3	-0.4000	36.29	8.860	0.	0.
4	-0.5000	37.06	8.672	0.	0.
5	-0.7000	38.61	8.296	0.	0.
6	-0.9000	40.17	7.920	0.	0.
7	-1.100	41.72	7.547	0.	0.
8	-1.300	43.28	7.176	0.	0.
9	-1.500	44.85	6.808	0.	0.
10	-1.700	46.43	6.445	0.	0.
11	-1.900	48.27	6.086	0.	0.
12	-2.100	51.36	6.705	0.9630	0.2874
13	-2.300	54.47	7.729	2.889	0.2874
14	-2.500	57.59	8.813	4.815	0.2874
15	-2.700	60.72	9.889	6.741	0.2874
16	-2.900	63.86	10.96	8.667	0.2874
17	-3.100	67.02	12.02	10.59	0.2874
18	-3.300	70.20	13.06	12.52	0.2874
19	-3.500	73.39	14.10	14.44	0.2874
20	-3.700	76.60	15.14	16.37	0.2874
21	-3.900	79.83	16.16	18.30	0.2874
22	-4.000	81.45	16.66	19.26	0.2874
23	-4.200	84.70	17.67	21.19	0.2874
24	-4.400	87.97	18.66	23.11	0.2874
25	-4.600	91.26	19.65	25.04	0.2874
26	-4.800	94.57	20.62	26.96	0.2874
27	-5.000	99.34	28.98	28.89	0.2874
28	-5.200	102.6	30.28	30.81	0.2874
29	-5.400	105.8	31.26	32.74	0.2874
30	-5.600	109.1	32.18	34.67	0.2874
31	-5.800	112.4	33.06	36.59	0.2874
32	-6.000	115.7	33.93	38.52	0.2874
33	-6.200	119.1	34.78	40.44	0.2874
34	-6.400	122.4	35.60	42.37	0.2874
35	-6.600	125.8	36.44	44.30	0.2874

PARATIE 7.00

Ce.A.S. s.r.l. - Milano

PAG. 33

16 NOVEMBRE 2011 13:14:19

History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
36	-6.800	129.1	37.28	46.22	0.2874
37	-7.000	132.4	38.09	48.15	0.2874
38	-7.200	135.8	38.87	50.07	0.2874
39	-7.400	139.2	39.63	52.00	0.2874
40	-7.600	142.6	40.35	53.93	0.2874
41	-7.800	146.0	41.05	55.85	0.2874
42	-8.000	149.5	41.73	57.78	0.2874
43	-8.200	153.0	42.37	59.70	0.2874
44	-8.400	156.6	42.99	61.63	0.2874
45	-8.600	160.1	43.59	63.56	0.2874
46	-8.800	163.7	44.15	65.48	0.2874
47	-9.000	167.3	44.68	67.41	0.2874
48	-9.200	171.0	45.19	69.33	0.2874
49	-9.400	174.6	45.66	71.26	0.2874
50	-9.600	178.3	46.11	73.19	0.2874
51	-9.800	182.0	46.52	75.11	0.2874
52	-10.00	185.7	46.90	77.04	0.2874
53	-10.20	189.5	47.25	78.96	0.2874
54	-10.40	193.2	47.57	80.89	0.2874
55	-10.60	197.0	47.85	82.81	0.2874
56	-10.80	200.8	48.11	84.74	0.2874
57	-11.00	204.6	48.33	86.67	0.2874
58	-11.20	208.5	48.53	88.59	0.2874
59	-11.40	212.3	48.69	90.52	0.2874
60	-11.60	216.1	48.83	92.44	0.2874
61	-11.80	220.0	48.94	94.37	0.2874
62	-12.00	223.9	49.02	96.30	0.2874
63	-12.20	227.8	49.07	98.22	0.2874
64	-12.40	231.7	49.10	100.1	0.2874
65	-12.60	235.6	49.10	102.1	0.2874
66	-12.80	239.5	49.07	104.0	0.2874
67	-13.00	243.4	49.02	105.9	0.2874
68	-13.20	247.4	48.94	107.9	0.2874
69	-13.40	251.3	48.83	109.8	0.2874
70	-13.60	255.2	48.70	111.7	0.2874
71	-13.80	259.2	48.55	113.6	0.2874
72	-14.00	263.2	48.38	115.6	0.2874
73	-14.20	267.1	48.18	117.5	0.2874
74	-14.30	269.1	48.07	118.4	0.2874
75	-14.50	273.1	47.84	120.4	0.2874
76	-14.70	277.1	47.59	122.3	0.2874
77	-14.90	281.0	47.32	124.2	0.2874
78	-15.10	282.9	66.33	126.1	0.2874
79	-15.30	286.9	66.04	128.1	0.2874
80	-15.50	290.9	65.72	130.0	0.2874
81	-15.70	294.9	65.38	131.9	0.2874

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History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
82	-15.90	298.9	65.02	133.9	0.2874
83	-16.10	303.0	64.64	135.8	0.2874
84	-16.30	307.0	64.25	137.7	0.2874
85	-16.50	311.0	63.84	139.6	0.2874
86	-16.70	315.0	63.42	141.6	0.2874
87	-16.90	319.0	62.99	143.5	0.2874
88	-17.10	323.0	62.54	145.4	0.2874
89	-17.30	327.0	62.08	147.3	0.2874
90	-17.50	331.0	61.61	149.3	0.2874
91	-17.70	335.0	61.12	151.2	0.2874
92	-17.90	339.1	60.63	153.1	0.2874
93	-18.10	343.1	60.13	155.0	0.2874
94	-18.30	347.1	59.62	157.0	0.2874
95	-18.50	351.0	59.11	158.9	0.2874
96	-18.70	355.0	58.59	160.8	0.2874
97	-18.90	359.0	58.06	162.7	0.2874
98	-19.10	363.0	57.53	164.7	0.2874
99	-19.30	367.0	56.99	166.6	0.2874
100	-19.50	371.0	56.44	168.5	0.2874
101	-19.70	375.0	55.90	170.4	0.2874
102	-19.90	379.0	55.35	172.4	0.2874
103	-20.10	382.9	54.79	174.3	0.2874
104	-20.30	386.9	54.23	176.2	0.2874
105	-20.50	390.9	53.68	178.1	0.2874
106	-20.70	394.8	53.11	180.1	0.2874
107	-20.90	398.8	52.55	182.0	0.2874
108	-21.10	402.8	51.98	183.9	0.2874
109	-21.30	406.7	51.42	185.9	0.2874
110	-21.50	410.7	50.85	187.8	0.2874
111	-21.70	414.6	50.28	189.7	0.2874
112	-21.90	418.6	49.71	191.6	0.2874
113	-22.10	422.5	49.14	193.6	0.2874
114	-22.30	426.5	48.57	195.5	0.2874
115	-22.50	430.4	48.00	197.4	0.2874
116	-22.70	434.4	47.43	199.3	0.2874
117	-22.90	438.3	46.86	201.3	0.2874
118	-23.10	442.2	46.29	203.2	0.2874
119	-23.30	446.2	45.72	205.1	0.2874
120	-23.50	450.1	45.15	207.0	0.2874
121	-23.70	454.1	44.58	209.0	0.2874
122	-23.90	458.0	44.01	210.9	0.2874
123	-24.10	461.9	43.44	212.8	0.2874
124	-24.30	465.8	42.87	214.7	0.2874
125	-24.50	469.8	42.30	216.7	0.2874
126	-24.70	473.7	41.73	218.6	0.2874
127	-24.90	477.6	41.16	220.5	0.2874

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History 0 - HOMOROD

SOIL EL.	QUOTA	SIGMA-H	TAGLIO	PR. ACQUA	GRAD. MAX
128	-25.10	481.6	40.60	222.4	0.2874
129	-25.30	485.5	40.03	224.4	0.2874
130	-25.50	489.4	39.46	226.3	0.2874
131	-25.70	493.3	38.89	228.2	0.2874
132	-25.90	497.3	38.33	230.1	0.2874
133	-26.10	501.2	37.76	232.1	0.2874
134	-26.30	505.1	37.20	234.0	0.2874
135	-26.50	509.0	36.63	235.9	0.2874
136	-26.70	513.0	36.06	237.9	0.2874
137	-26.90	516.9	35.50	239.8	0.2874
138	-27.10	520.8	35.39	241.7	0.2874
139	-27.30	524.7	35.84	243.6	0.2874
140	-27.50	528.6	36.29	245.6	0.2874
141	-27.70	532.6	36.74	247.5	0.2874
142	-27.90	536.5	37.19	249.4	0.2874
143	-28.00	538.4	37.41	250.4	0.2874
144	-28.20	541.7	36.94	252.3	0.2874
145	-28.40	545.6	37.35	254.2	0.2874
146	-28.60	549.5	37.77	256.1	0.2874
147	-28.80	553.4	38.18	258.1	0.2874
148	-29.00	557.3	38.59	260.0	0.2874
149	-29.20	561.2	39.01	261.9	0.2874
150	-29.40	565.1	39.42	263.9	0.2874
151	-29.60	569.0	39.84	265.8	0.2874
152	-29.80	572.9	40.25	267.7	0.2874
153	-30.00	576.8	40.66	269.6	0.2874

RIASSUNTO SPINTE NEGLI ELEMENTI TERRENO
(LE SPINTE SONO CALCOLATE INTEGRANDO GLI SFORZI NEI SINGOLI ELEMENTI MOLLA)

SPINTA EFFICACE VERA = Integrale delle pressioni orizzontali efficaci in tutti gli elementi nel gruppo: unita' di misura kN/m

SPINTA ACQUA = Integrale delle pressioni interstiziali in tutti gli elementi nel gruppo: unita' di misura kN/m

SPINTA TOTALE VERA = Somma della SPINTA EFFICACE e della SPINTA DELL'ACQUA: e' l' azione totale sulla parete: unita' di misura kN/m

SPINTA ATTIVA POSSIBILE = La minima spinta che puo' essere esercitata da questo gruppo di elementi terreno, in questa fase: unita' di misura kN/m

SPINTA PASSIVA POSSIBILE = La massima spinta che puo' essere esercitata da questo gruppo di elementi terreno, in questa fase: unita' di misura kN/m

RAPPORTO PASSIVA/VERA = e' il rapporto tra la massima spinta possibile e la spinta efficace vera: fornisce un'indicazione su quanta spinta passiva venga mobilitata;

SPINTA PASSIVA MOBILITATA = e' l'inverso del rapporto precedente, espresso in unita' percentuale: indica quanta parte della massima spinta possibile e' stata mobilitata;

RAPPORTO VERA/ATTIVA = e' il rapporto tra la spinta efficace vera e la minima spinta possibile: fornisce un'indicazione di quanto questa porzione di terreno sia prossima alla condizione di massimo rilascio.

FASE	1	GRUPPO -->	DHRi	UHRi
SPINTA EFFICACE VERA			8476.4	8615.1
SPINTA ACQUA			0.	0.
SPINTA TOTALE VERA			8476.4	8615.1
SPINTA ATTIVA (POSSIBILE)			1378.5	1457.1
SPINTA PASSIVA (POSSIBILE)			33218.	34188.
RAPPORTO PASSIVA/VERA			3.9188	3.9684
SPINTA PASSIVA MOBILITATA			26.%	25.%
RAPPORTO VERA/ATTIVA			6.1490	5.9123

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History 0 - HOMOROD

FASE	2	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	5732.2	5619.6
		SPINTA ACQUA	3505.2	3774.9
		SPINTA TOTALE VERA	9237.4	9394.5
		SPINTA ATTIVA (POSSIBILE)	26.342	234.44
		SPINTA PASSIVA (POSSIBILE)	15204.	21660.
		RAPPORTO PASSIVA/VERA	2.6524	3.8543
		SPINTA PASSIVA MOBILITATA	38.%	26.%
		RAPPORTO VERA/ATTIVA	217.60	23.971

FASE	3	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	5695.0	5708.7
		SPINTA ACQUA	3505.2	3774.9
		SPINTA TOTALE VERA	9200.2	9483.6
		SPINTA ATTIVA (POSSIBILE)	26.342	234.44
		SPINTA PASSIVA (POSSIBILE)	15204.	21660.
		RAPPORTO PASSIVA/VERA	2.6697	3.7941
		SPINTA PASSIVA MOBILITATA	37.%	26.%
		RAPPORTO VERA/ATTIVA	216.19	24.351

FASE	4	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	5165.2	4755.3
		SPINTA ACQUA	2614.8	3405.3
		SPINTA TOTALE VERA	7780.0	8160.6
		SPINTA ATTIVA (POSSIBILE)	0.	332.68
		SPINTA PASSIVA (POSSIBILE)	10625.	22886.
		RAPPORTO PASSIVA/VERA	2.0571	4.8128
		SPINTA PASSIVA MOBILITATA	49.%	21.%
		RAPPORTO VERA/ATTIVA	0.10000E+06	14.294

FASE	5	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	5099.6	4924.4
		SPINTA ACQUA	2614.8	3405.3
		SPINTA TOTALE VERA	7714.4	8329.7
		SPINTA ATTIVA (POSSIBILE)	0.	332.68
		SPINTA PASSIVA (POSSIBILE)	10625.	22886.
		RAPPORTO PASSIVA/VERA	2.0836	4.6475
		SPINTA PASSIVA MOBILITATA	48.%	22.%
		RAPPORTO VERA/ATTIVA	0.10000E+06	14.802

PARATIE 7.00

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History 0 - HOMOROD

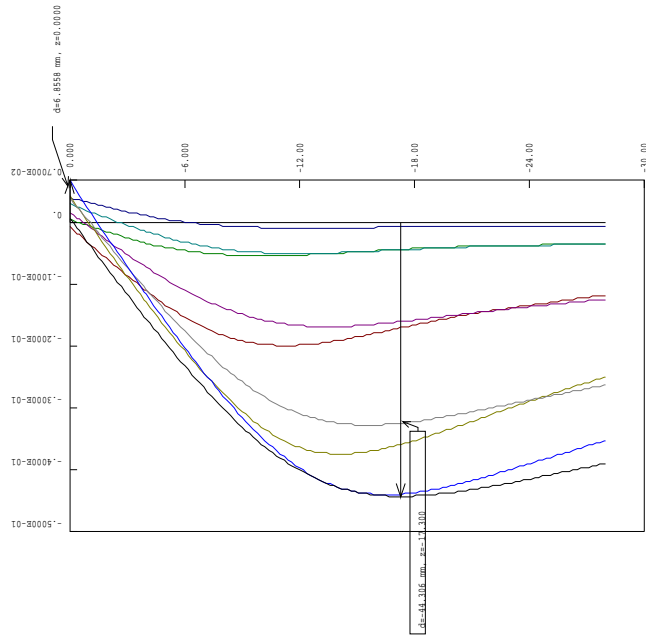
FASE	6	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	4468.9	4096.3
		SPINTA ACQUA	1884.7	3015.4
		SPINTA TOTALE VERA	6353.6	7111.7
		SPINTA ATTIVA (POSSIBILE)	0.	447.46
		SPINTA PASSIVA (POSSIBILE)	7344.6	24180.
		RAPPORTO PASSIVA/VERA	1.6435	5.9029
		SPINTA PASSIVA MOBILITATA	61.%	17.%
		RAPPORTO VERA/ATTIVA	0.10000E+06	9.1545

FASE	7	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	4403.8	4258.9
		SPINTA ACQUA	1884.7	3015.4
		SPINTA TOTALE VERA	6288.5	7274.3
		SPINTA ATTIVA (POSSIBILE)	0.	447.46
		SPINTA PASSIVA (POSSIBILE)	7344.6	24180.
		RAPPORTO PASSIVA/VERA	1.6678	5.6776
		SPINTA PASSIVA MOBILITATA	60.%	18.%
		RAPPORTO VERA/ATTIVA	0.10000E+06	9.5177

FASE	8	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	4058.1	3895.1
		SPINTA ACQUA	1546.4	2793.6
		SPINTA TOTALE VERA	5604.5	6688.7
		SPINTA ATTIVA (POSSIBILE)	0.	516.85
		SPINTA PASSIVA (POSSIBILE)	6019.6	24916.
		RAPPORTO PASSIVA/VERA	1.4833	6.3970
		SPINTA PASSIVA MOBILITATA	67.%	16.%
		RAPPORTO VERA/ATTIVA	0.10000E+06	7.5362

FASE	9	GRUPPO -->	DHRi	UHRi
		SPINTA EFFICACE VERA	4113.8	4206.3
		SPINTA ACQUA	1546.4	2793.6
		SPINTA TOTALE VERA	5660.3	6999.9
		SPINTA ATTIVA (POSSIBILE)	0.	691.67
		SPINTA PASSIVA (POSSIBILE)	6019.6	27207.
		RAPPORTO PASSIVA/VERA	1.4632	6.4681
		SPINTA PASSIVA MOBILITATA	68.%	15.%
		RAPPORTO VERA/ATTIVA	0.10000E+06	6.0813

OUTPUT PLOTS:

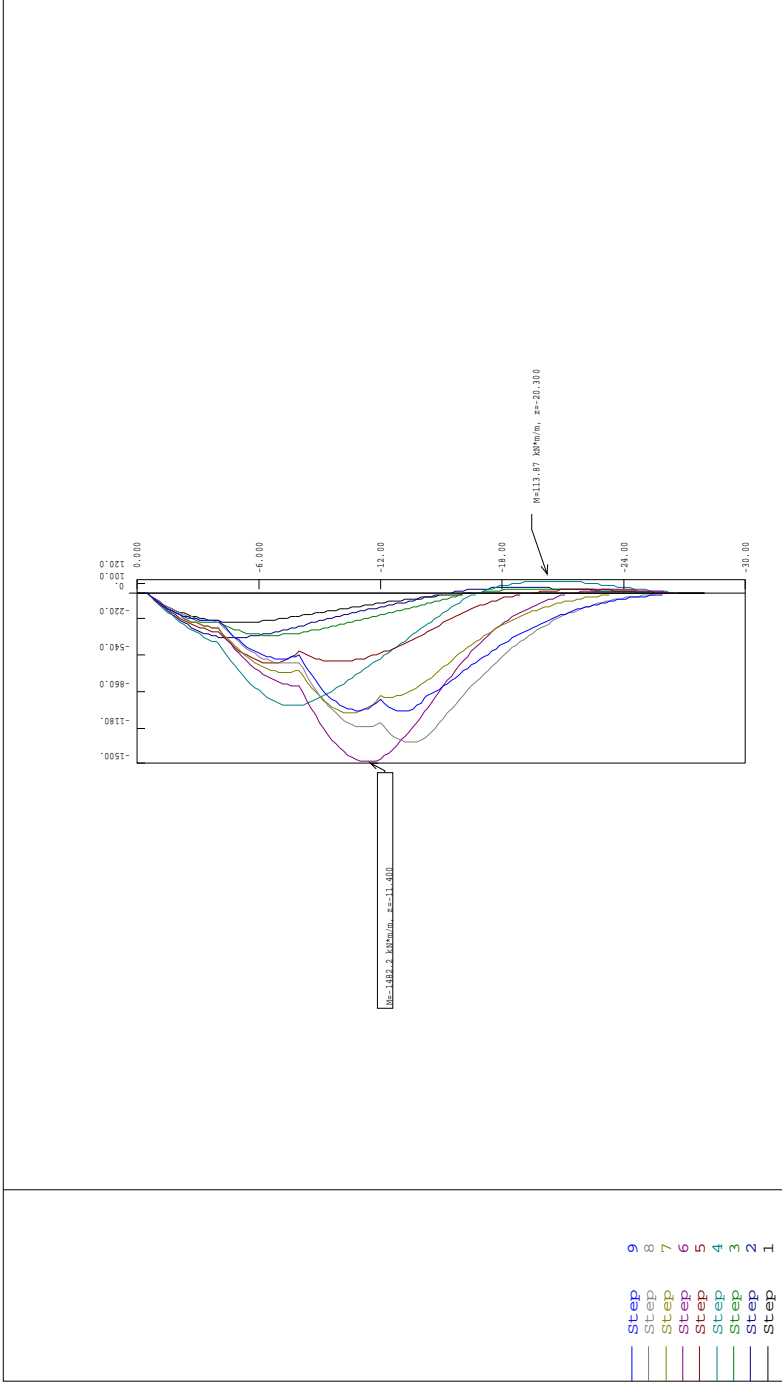


- step 9
- step 8
- step 7
- step 6
- step 5
- step 4
- step 3
- step 2
- step 1

FATTORE SCALA: 2.46 - FATTORE AMPLIF. : 303.53
 DEFORMATA PASSI 1 / 9 [m]

Perce units= N
 Length units= M

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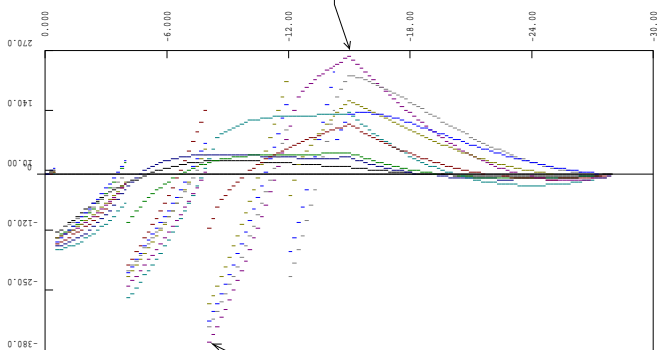


MOMENTI FLETTENTI [kN*m/m]
INVILUPPO DA 1 A 9 SCALA GEOM. : 2,32

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History 0 - RWORDD
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Perce units= KN
Length units= M



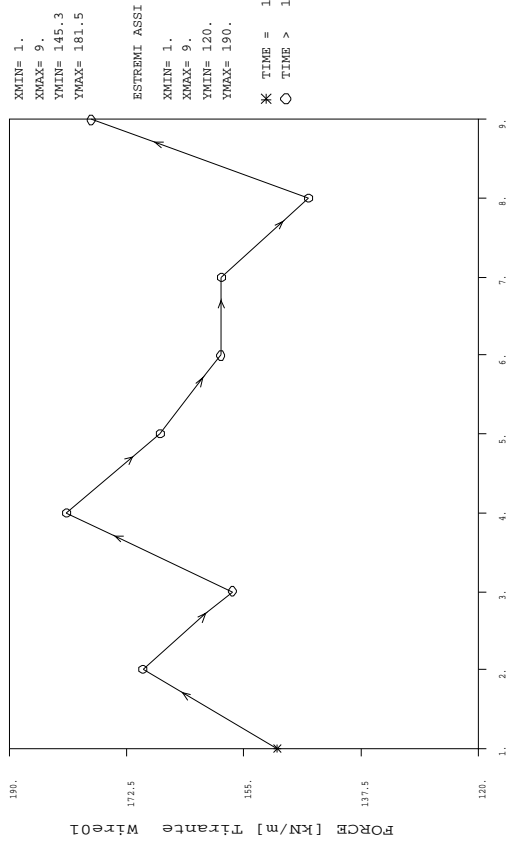
- Step 9
- Step 8
- Step 7
- Step 6
- Step 5
- Step 4
- Step 3
- Step 2
- Step 1

TAGLI [KN/m]
 INVILUPPO DA 1 A 9 SCALA GEOM. : 2.32

Force units= KN
 Length units= M

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Tirante Wire01	
STEP	FORCE [KN/m]
1.	150.
2.	170.1
3.	156.7
4.	181.5
5.	167.5
6.	158.4
7.	158.4
8.	145.3
9.	177.8



STEP

DAL PASSO 1 AL PASSO 9
 DIAGRAMMA VARIABLE X / VARIABLE Y

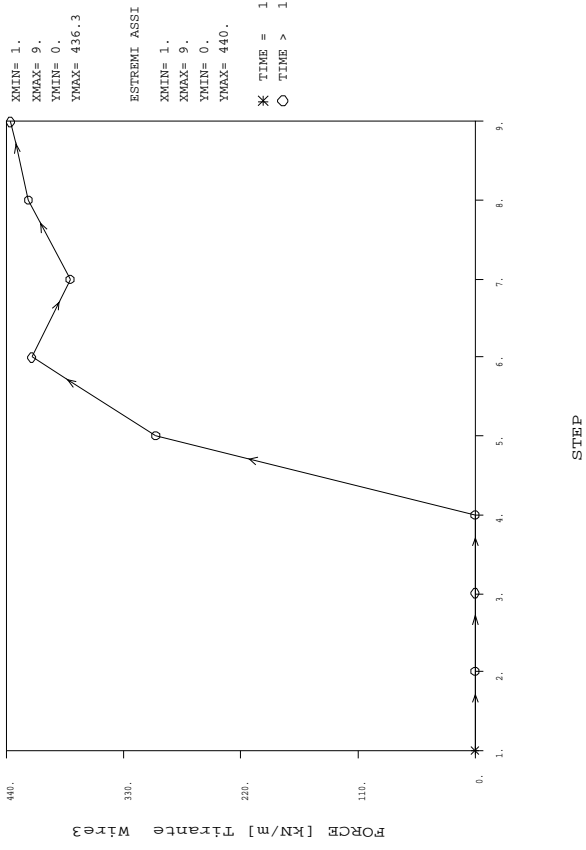
History 0 - HISTORY

URL: C:\Users\Tommaso\Documents\cattella_111\Bella_Bianca_Boncodato_Boncodato_A110181_110m_1102011

Force units= KN
 Length units= M

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Tirante Wire3 STEP	FORCE [KN/m]
1.	0.
2.	0.
3.	0.
4.	0.
5.	300.
6.	416.3
7.	380.2
8.	419.5
9.	436.3



DAL PASSO 1 AL PASSO 9
DIAGRAMMA VARIABILE X / VARIABILE Y

History 0 - MONOPRO

FILE... C:\Users\A7emile04\AppData\Local\Temp\1111111111\Blastie_Boncod_1406..._0111111111\Blastie_Boncod_1406_Boncod_VET_1406_1406_1406_1406_1406_1406

Force units= KN
Length units= M

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PARATE 7.00
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Table: Combination Definitions, Part 1 of 3

Table: Combination Definitions, Part 1 of 3

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor	SteelDesign
USL1	Linear Add	No	Linear Static	EARTH	1,350000	None
USL1			Linear Static	EARTH_PRESSURE DX	1,350000	
USL1			Linear Static	EARTH_PRESSURE SX	1,350000	
USL1			Linear Static	HYDROSTATIC	1,350000	
USL1			Linear Static	DEAD	1,350000	
ULS2	Linear Add	No	Linear Static	DEAD	1,350000	None
ULS2			Linear Static	EARTH	1,350000	
ULS2			Linear Static	EARTH_PRESSURE DX	1,350000	
ULS2			Linear Static	EARTH_PRESSURE SX	1,350000	
ENVELOPE_ULS	Envelope	No	Response Combo	ULS2	1,000000	None
ENVELOPE_ULS			Response Combo	USL1	1,000000	
SLS	Linear Add	No	Linear Static	DEAD	1,000000	None
SLS			Linear Static	EARTH	1,000000	
SLS			Linear Static	EARTH_PRESSURE DX	1,000000	
SLS			Linear Static	EARTH_PRESSURE SX	1,000000	
SLS			Linear Static	HYDROSTATIC	1,000000	

Table: Combination Definitions, Part 2 of 3

Table: Combination Definitions, Part 2 of 3

ComboName	CaseName	ConcDesign	AlumDesign	ColdDesign
USL1	EARTH	None	None	None
USL1	EARTH_PRESSURE DX			
USL1	EARTH_PRESSURE SX			
USL1	HYDROSTATIC			
USL1	DEAD			
ULS2	DEAD	None	None	None
ULS2	EARTH			
ULS2	EARTH_PRESSURE DX			
ULS2	EARTH_PRESSURE SX			
ENVELOPE_ULS	ULS2	None	None	None
ENVELOPE_ULS	USL1			
SLS	DEAD	None	None	None
SLS	EARTH			
SLS	EARTH_PRESSURE DX			
SLS	EARTH_PRESSURE SX			
SLS	HYDROSTATIC			

Table: Combination Definitions, Part 3 of 3

Table: Combination Definitions, Part 3 of 3

ComboName	CaseName	GUID	Notes
USL1	EARTH		
USL1	EARTH_PRESSURE DX		
USL1	EARTH_PRESSURE SX		
USL1	HYDROSTATIC		
USL1	DEAD		
ULS2	DEAD		
ULS2	EARTH		
ULS2	EARTH_PRESSURE DX		
ULS2	EARTH_PRESSURE SX		
ENVELOPE_ULS	ULS2		
ENVELOPE_ULS	USL1		
SLS	DEAD		
SLS	EARTH		
SLS	EARTH_PRESSURE DX		
SLS	EARTH_PRESSURE SX		
SLS	HYDROSTATIC		

Table: Element Forces - Frames, Part 1 of 2

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
1	0,00000	USL1	Combination		-1425,077	270,433	5,776E-14	1,622E-13
1	0,23812	USL1	Combination		-1437,197	317,701	5,776E-14	1,622E-13
1	0,47625	USL1	Combination		-1449,316	366,343	5,776E-14	1,622E-13
1	0,00000	ULS2	Combination		-1289,673	197,357	2,041E-16	-8,504E-16
1	0,23812	ULS2	Combination		-1301,792	223,773	2,041E-16	-8,504E-16
1	0,47625	ULS2	Combination		-1313,912	250,881	2,041E-16	-8,504E-16
1	0,00000	ENVELOPE_ ULS	Combination	Max	-1289,673	270,433	5,776E-14	1,622E-13
1	0,23812	ENVELOPE_ ULS	Combination	Max	-1301,792	317,701	5,776E-14	1,622E-13
1	0,47625	ENVELOPE_ ULS	Combination	Max	-1313,912	366,343	5,776E-14	1,622E-13
1	0,00000	ENVELOPE_ ULS	Combination	Min	-1425,077	197,357	2,041E-16	-8,504E-16
1	0,23812	ENVELOPE_ ULS	Combination	Min	-1437,197	223,773	2,041E-16	-8,504E-16
1	0,47625	ENVELOPE_ ULS	Combination	Min	-1449,316	250,881	2,041E-16	-8,504E-16
1	0,00000	SLS	Combination		-1055,613	200,321	4,278E-14	1,202E-13
1	0,23812	SLS	Combination		-1064,590	235,334	4,278E-14	1,202E-13
1	0,47625	SLS	Combination		-1073,568	271,365	4,278E-14	1,202E-13
2	0,00000	USL1	Combination		-1076,113	-736,483	7,694E-14	8,739E-14
2	0,57862	USL1	Combination		-998,243	-570,996	7,694E-14	8,739E-14
2	1,15723	USL1	Combination		-918,356	-410,336	7,694E-14	8,739E-14
2	0,00000	ULS2	Combination		-909,114	-711,402	2,041E-16	1,058E-15
2	0,57862	ULS2	Combination		-831,243	-574,348	2,041E-16	1,058E-15
2	1,15723	ULS2	Combination		-751,357	-439,310	2,041E-16	1,058E-15
2	0,00000	ENVELOPE_ ULS	Combination	Max	-909,114	-711,402	7,694E-14	8,739E-14
2	0,57862	ENVELOPE_ ULS	Combination	Max	-831,243	-570,996	7,694E-14	8,739E-14

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
2	1,15723	ENVELOPE_ ULS	Combination	Max	-751,357	-410,336	7,694E-14	8,739E-14
2	0,00000	ENVELOPE_ ULS	Combination	Min	-1076,113	-736,483	2,041E-16	1,058E-15
2	0,57862	ENVELOPE_ ULS	Combination	Min	-998,243	-574,348	2,041E-16	1,058E-15
2	1,15723	ENVELOPE_ ULS	Combination	Min	-918,356	-439,310	2,041E-16	1,058E-15
2	0,00000	SLS	Combination		-797,121	-545,543	5,699E-14	6,473E-14
2	0,57862	SLS	Combination		-739,439	-422,960	5,699E-14	6,473E-14
2	1,15723	SLS	Combination		-680,264	-303,953	5,699E-14	6,473E-14
3	0,00000	USL1	Combination		-918,356	-410,336	-3,817E-14	9,458E-14
3	0,51232	USL1	Combination		-856,572	-282,754	-3,817E-14	9,458E-14
3	1,02464	USL1	Combination		-793,223	-158,984	-3,817E-14	9,458E-14
3	0,00000	ULS2	Combination		-751,357	-439,310	2,041E-16	1,058E-15
3	0,51232	ULS2	Combination		-689,573	-332,044	2,041E-16	1,058E-15
3	1,02464	ULS2	Combination		-626,224	-226,343	2,041E-16	1,058E-15
3	0,00000	ENVELOPE_ ULS	Combination	Max	-751,357	-410,336	2,041E-16	9,458E-14
3	0,51232	ENVELOPE_ ULS	Combination	Max	-689,573	-282,754	2,041E-16	9,458E-14
3	1,02464	ENVELOPE_ ULS	Combination	Max	-626,224	-158,984	2,041E-16	9,458E-14
3	0,00000	ENVELOPE_ ULS	Combination	Min	-918,356	-439,310	-3,817E-14	1,058E-15
3	0,51232	ENVELOPE_ ULS	Combination	Min	-856,572	-332,044	-3,817E-14	1,058E-15
3	1,02464	ENVELOPE_ ULS	Combination	Min	-793,223	-226,343	-3,817E-14	1,058E-15
3	0,00000	SLS	Combination		-680,264	-303,953	-2,827E-14	7,006E-14
3	0,51232	SLS	Combination		-634,498	-209,447	-2,827E-14	7,006E-14
3	1,02464	SLS	Combination		-587,573	-117,766	-2,827E-14	7,006E-14
4	0,00000	USL1	Combination		-784,819	-196,313	-7,653E-14	3,954E-14
4	0,49473	USL1	Combination		-740,037	-91,801	-7,653E-14	3,954E-14
4	0,98945	USL1	Combination		-693,774	9,391	-7,653E-14	3,954E-14
4	0,00000	ULS2	Combination		-614,821	-255,700	2,041E-16	1,168E-15
4	0,49473	ULS2	Combination		-570,040	-166,567	2,041E-16	1,168E-15
4	0,98945	ULS2	Combination		-523,776	-78,782	2,041E-16	1,168E-15
4	0,00000	ENVELOPE_ ULS	Combination	Max	-614,821	-196,313	2,041E-16	3,954E-14
4	0,49473	ENVELOPE_ ULS	Combination	Max	-570,040	-91,801	2,041E-16	3,954E-14
4	0,98945	ENVELOPE_ ULS	Combination	Max	-523,776	9,391	2,041E-16	3,954E-14
4	0,00000	ENVELOPE_ ULS	Combination	Min	-784,819	-255,700	-7,653E-14	1,168E-15
4	0,49473	ENVELOPE_ ULS	Combination	Min	-740,037	-166,567	-7,653E-14	1,168E-15
4	0,98945	ENVELOPE_ ULS	Combination	Min	-693,774	-78,782	-7,653E-14	1,168E-15
4	0,00000	SLS	Combination		-581,347	-145,417	-5,669E-14	2,929E-14
4	0,49473	SLS	Combination		-548,176	-68,001	-5,669E-14	2,929E-14
4	0,98945	SLS	Combination		-513,906	6,956	-5,669E-14	2,929E-14
5	0,00000	USL1	Combination		-681,910	-128,095	7,694E-14	-3,236E-15
5	0,49402	USL1	Combination		-661,661	-37,688	7,694E-14	-3,236E-15
5	0,98804	USL1	Combination		-640,095	50,397	7,694E-14	-3,236E-15
5	0,00000	ULS2	Combination		-497,826	-180,881	2,041E-16	1,560E-15
5	0,49402	ULS2	Combination		-477,576	-102,112	2,041E-16	1,560E-15
5	0,98804	ULS2	Combination		-456,011	-24,131	2,041E-16	1,560E-15
5	0,00000	ENVELOPE_ ULS	Combination	Max	-497,826	-128,095	7,694E-14	1,560E-15

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
5	0,49402	ENVELOPE_ ULS	Combination	Max	-477,576	-37,688	7,694E-14	1,560E-15
5	0,98804	ENVELOPE_ ULS	Combination	Max	-456,011	50,397	7,694E-14	1,560E-15
5	0,00000	ENVELOPE_ ULS	Combination	Min	-681,910	-180,881	2,041E-16	-3,236E-15
5	0,49402	ENVELOPE_ ULS	Combination	Min	-661,661	-102,112	2,041E-16	-3,236E-15
5	0,98804	ENVELOPE_ ULS	Combination	Min	-640,095	-24,131	2,041E-16	-3,236E-15
5	0,00000	SLS	Combination		-505,119	-94,885	5,699E-14	-2,397E-15
5	0,49402	SLS	Combination		-490,119	-27,917	5,699E-14	-2,397E-15
5	0,98804	SLS	Combination		-474,145	37,331	5,699E-14	-2,397E-15
6	0,00000	USL1	Combination		-636,491	-84,505	-1,533E-13	-5,329E-14
6	0,49382	USL1	Combination		-634,244	-6,310	-1,533E-13	-5,329E-14
6	0,98763	USL1	Combination		-631,050	70,595	-1,533E-13	-5,329E-14
6	0,00000	ULS2	Combination		-440,895	-118,910	2,041E-16	1,865E-15
6	0,49382	ULS2	Combination		-438,648	-49,566	2,041E-16	1,865E-15
6	0,98763	ULS2	Combination		-435,454	19,457	2,041E-16	1,865E-15
6	0,00000	ENVELOPE_ ULS	Combination	Max	-440,895	-84,505	2,041E-16	1,865E-15
6	0,49382	ENVELOPE_ ULS	Combination	Max	-438,648	-6,310	2,041E-16	1,865E-15
6	0,98763	ENVELOPE_ ULS	Combination	Max	-435,454	70,595	2,041E-16	1,865E-15
6	0,00000	ENVELOPE_ ULS	Combination	Min	-636,491	-118,910	-1,533E-13	-5,329E-14
6	0,49382	ENVELOPE_ ULS	Combination	Min	-634,244	-49,566	-1,533E-13	-5,329E-14
6	0,98763	ENVELOPE_ ULS	Combination	Min	-631,050	19,457	-1,533E-13	-5,329E-14
6	0,00000	SLS	Combination		-471,475	-62,596	-1,135E-13	-3,947E-14
6	0,49382	SLS	Combination		-469,810	-4,674	-1,135E-13	-3,947E-14
6	0,98763	SLS	Combination		-467,445	52,293	-1,135E-13	-3,947E-14
7	0,00000	USL1	Combination		-631,464	-66,792	-1,533E-13	-8,188E-14
7	0,52308	USL1	Combination		-644,134	4,270	-1,533E-13	-8,188E-14
7	1,04617	USL1	Combination		-656,418	74,899	-1,533E-13	-8,188E-14
7	0,00000	ULS2	Combination		-429,447	-74,662	2,041E-16	2,049E-15
7	0,52308	ULS2	Combination		-442,116	-11,245	2,041E-16	2,049E-15
7	1,04617	ULS2	Combination		-454,400	52,129	2,041E-16	2,049E-15
7	0,00000	ENVELOPE_ ULS	Combination	Max	-429,447	-66,792	2,041E-16	2,049E-15
7	0,52308	ENVELOPE_ ULS	Combination	Max	-442,116	4,270	2,041E-16	2,049E-15
7	1,04617	ENVELOPE_ ULS	Combination	Max	-454,400	74,899	2,041E-16	2,049E-15
7	0,00000	ENVELOPE_ ULS	Combination	Min	-631,464	-74,662	-1,533E-13	-8,188E-14
7	0,52308	ENVELOPE_ ULS	Combination	Min	-644,134	-11,245	-1,533E-13	-8,188E-14
7	1,04617	ENVELOPE_ ULS	Combination	Min	-656,418	52,129	-1,533E-13	-8,188E-14
7	0,00000	SLS	Combination		-467,751	-49,475	-1,135E-13	-6,065E-14
7	0,52308	SLS	Combination		-477,136	3,163	-1,135E-13	-6,065E-14
7	1,04617	SLS	Combination		-486,235	55,481	-1,135E-13	-6,065E-14
8	0,00000	USL1	Combination		-656,432	-74,770	-7,653E-14	-9,383E-14
8	0,54165	USL1	Combination		-643,974	-1,583	-7,653E-14	-9,383E-14
8	1,08329	USL1	Combination		-631,115	72,051	-7,653E-14	-9,383E-14
8	0,00000	ULS2	Combination		-454,474	-51,485	2,041E-16	2,091E-15
8	0,54165	ULS2	Combination		-442,015	14,188	2,041E-16	2,091E-15
8	1,08329	ULS2	Combination		-429,157	79,907	2,041E-16	2,091E-15

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
8	0,00000	ENVELOPE_	Combination	Max	-454,474	-51,485	2,041E-16	2,091E-15
		ULS						
8	0,54165	ENVELOPE_	Combination	Max	-442,015	14,188	2,041E-16	2,091E-15
		ULS						
8	1,08329	ENVELOPE_	Combination	Max	-429,157	79,907	2,041E-16	2,091E-15
		ULS						
8	0,00000	ENVELOPE_	Combination	Min	-656,432	-74,770	-7,653E-14	-9,383E-14
		ULS						
8	0,54165	ENVELOPE_	Combination	Min	-643,974	-1,583	-7,653E-14	-9,383E-14
		ULS						
8	1,08329	ENVELOPE_	Combination	Min	-631,115	72,051	-7,653E-14	-9,383E-14
		ULS						
8	0,00000	SLS	Combination		-486,246	-55,385	-5,669E-14	-6,951E-14
8	0,54165	SLS	Combination		-477,018	-1,173	-5,669E-14	-6,951E-14
8	1,08329	SLS	Combination		-467,493	53,371	-5,669E-14	-6,951E-14
9	0,00000	USL1	Combination		-631,595	-67,720	7,694E-14	-7,236E-14
9	0,49252	USL1	Combination		-635,308	8,958	7,694E-14	-7,236E-14
9	0,98504	USL1	Combination		-638,080	86,928	7,694E-14	-7,236E-14
9	0,00000	ULS2	Combination		-436,243	-15,885	2,041E-16	1,981E-15
9	0,49252	ULS2	Combination		-439,957	52,930	2,041E-16	1,981E-15
9	0,98504	ULS2	Combination		-442,729	122,073	2,041E-16	1,981E-15
9	0,00000	ENVELOPE_	Combination	Max	-436,243	-15,885	7,694E-14	1,981E-15
		ULS						
9	0,49252	ENVELOPE_	Combination	Max	-439,957	52,930	7,694E-14	1,981E-15
		ULS						
9	0,98504	ENVELOPE_	Combination	Max	-442,729	122,073	7,694E-14	1,981E-15
		ULS						
9	0,00000	ENVELOPE_	Combination	Min	-631,595	-67,720	2,041E-16	-7,236E-14
		ULS						
9	0,49252	ENVELOPE_	Combination	Min	-635,308	8,958	2,041E-16	-7,236E-14
		ULS						
9	0,98504	ENVELOPE_	Combination	Min	-638,080	86,928	2,041E-16	-7,236E-14
		ULS						
9	0,00000	SLS	Combination		-467,848	-50,163	5,699E-14	-5,360E-14
9	0,49252	SLS	Combination		-470,599	6,635	5,699E-14	-5,360E-14
9	0,98504	SLS	Combination		-472,652	64,391	5,699E-14	-5,360E-14
10	0,00000	USL1	Combination		-642,190	-47,900	2,041E-16	-7,979E-14
10	0,49197	USL1	Combination		-664,206	39,668	2,041E-16	-7,979E-14
10	0,98394	USL1	Combination		-684,917	129,557	2,041E-16	-7,979E-14
10	0,00000	ULS2	Combination		-458,446	27,169	2,041E-16	1,745E-15
10	0,49197	ULS2	Combination		-480,462	104,675	2,041E-16	1,745E-15
10	0,98394	ULS2	Combination		-501,172	182,974	2,041E-16	1,745E-15
10	0,00000	ENVELOPE_	Combination	Max	-458,446	27,169	2,041E-16	1,745E-15
		ULS						
10	0,49197	ENVELOPE_	Combination	Max	-480,462	104,675	2,041E-16	1,745E-15
		ULS						
10	0,98394	ENVELOPE_	Combination	Max	-501,172	182,974	2,041E-16	1,745E-15
		ULS						
10	0,00000	ENVELOPE_	Combination	Min	-642,190	-47,900	2,041E-16	-7,979E-14
		ULS						
10	0,49197	ENVELOPE_	Combination	Min	-664,206	39,668	2,041E-16	-7,979E-14
		ULS						
10	0,98394	ENVELOPE_	Combination	Min	-684,917	129,557	2,041E-16	-7,979E-14
		ULS						
10	0,00000	SLS	Combination		-475,696	-35,481	1,512E-16	-5,910E-14
10	0,49197	SLS	Combination		-492,005	29,384	1,512E-16	-5,910E-14
10	0,98394	SLS	Combination		-507,346	95,968	1,512E-16	-5,910E-14
11	0,00000	USL1	Combination		-697,032	-6,513	-7,653E-14	-4,655E-14
11	0,49208	USL1	Combination		-743,400	93,952	-7,653E-14	-4,655E-14
11	0,98416	USL1	Combination		-788,299	197,724	-7,653E-14	-4,655E-14
11	0,00000	ULS2	Combination		-527,234	81,715	2,041E-16	1,415E-15
11	0,49208	ULS2	Combination		-573,602	168,844	2,041E-16	1,415E-15

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
11	0,98416	ULS2	Combination		-618,500	257,320	2,041E-16	1,415E-15
11	0,00000	ENVELOPE_ ULS	Combination	Max	-527,234	81,715	2,041E-16	1,415E-15
11	0,49208	ENVELOPE_ ULS	Combination	Max	-573,602	168,844	2,041E-16	1,415E-15
11	0,98416	ENVELOPE_ ULS	Combination	Max	-618,500	257,320	2,041E-16	1,415E-15
11	0,00000	ENVELOPE_ ULS	Combination	Min	-697,032	-6,513	-7,653E-14	-4,655E-14
11	0,49208	ENVELOPE_ ULS	Combination	Min	-743,400	93,952	-7,653E-14	-4,655E-14
11	0,98416	ENVELOPE_ ULS	Combination	Min	-788,299	197,724	-7,653E-14	-4,655E-14
11	0,00000	SLS	Combination		-516,320	-4,824	-5,669E-14	-3,448E-14
11	0,49208	SLS	Combination		-550,666	69,594	-5,669E-14	-3,448E-14
11	0,98416	SLS	Combination		-583,925	146,462	-5,669E-14	-3,448E-14
12	0,00000	USL1	Combination		-796,114	163,439	-7,653E-14	1,326E-15
12	0,50938	USL1	Combination		-859,099	286,499	-7,653E-14	1,326E-15
12	1,01876	USL1	Combination		-920,528	413,350	-7,653E-14	1,326E-15
12	0,00000	ULS2	Combination		-629,052	230,324	2,041E-16	1,326E-15
12	0,50938	ULS2	Combination		-692,038	335,419	2,041E-16	1,326E-15
12	1,01876	ULS2	Combination		-753,467	442,070	2,041E-16	1,326E-15
12	0,00000	ENVELOPE_ ULS	Combination	Max	-629,052	230,324	2,041E-16	1,326E-15
12	0,50938	ENVELOPE_ ULS	Combination	Max	-692,038	335,419	2,041E-16	1,326E-15
12	1,01876	ENVELOPE_ ULS	Combination	Max	-753,467	442,070	2,041E-16	1,326E-15
12	0,00000	ENVELOPE_ ULS	Combination	Min	-796,114	163,439	-7,653E-14	1,326E-15
12	0,50938	ENVELOPE_ ULS	Combination	Min	-859,099	286,499	-7,653E-14	1,326E-15
12	1,01876	ENVELOPE_ ULS	Combination	Min	-920,528	413,350	-7,653E-14	1,326E-15
12	0,00000	SLS	Combination		-589,714	121,066	-5,669E-14	9,824E-16
12	0,50938	SLS	Combination		-636,370	212,222	-5,669E-14	9,824E-16
12	1,01876	SLS	Combination		-681,873	306,185	-5,669E-14	9,824E-16
13	0,00000	USL1	Combination		-920,528	413,350	-7,653E-14	2,531E-14
13	0,56894	USL1	Combination		-999,079	571,322	-7,653E-14	2,531E-14
13	1,13787	USL1	Combination		-1075,646	734,041	-7,653E-14	2,531E-14
13	0,00000	ULS2	Combination		-753,467	442,070	2,041E-16	1,326E-15
13	0,56894	ULS2	Combination		-832,017	574,849	2,041E-16	1,326E-15
13	1,13787	ULS2	Combination		-908,585	709,611	2,041E-16	1,326E-15
13	0,00000	ENVELOPE_ ULS	Combination	Max	-753,467	442,070	2,041E-16	2,531E-14
13	0,56894	ENVELOPE_ ULS	Combination	Max	-832,017	574,849	2,041E-16	2,531E-14
13	1,13787	ENVELOPE_ ULS	Combination	Max	-908,585	734,041	2,041E-16	2,531E-14
13	0,00000	ENVELOPE_ ULS	Combination	Min	-920,528	413,350	-7,653E-14	1,326E-15
13	0,56894	ENVELOPE_ ULS	Combination	Min	-999,079	571,322	-7,653E-14	1,326E-15
13	1,13787	ENVELOPE_ ULS	Combination	Min	-1075,646	709,611	-7,653E-14	1,326E-15
13	0,00000	SLS	Combination		-681,873	306,185	-5,669E-14	1,875E-14
13	0,56894	SLS	Combination		-740,058	423,201	-5,669E-14	1,875E-14
13	1,13787	SLS	Combination		-796,775	543,734	-5,669E-14	1,875E-14
14	0,00000	USL1	Combination		-1279,642	-231,654	2,041E-16	1,670E-13
14	0,47625	USL1	Combination		-1303,881	-168,727	2,041E-16	1,670E-13
14	0,95249	USL1	Combination		-1328,120	-100,303	2,041E-16	1,670E-13
14	0,00000	ULS2	Combination		-1144,237	-126,158	2,041E-16	-8,504E-16

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
14	0,47625	ULS2	Combination		-1168,477	-89,157	2,041E-16	-8,504E-16
14	0,95249	ULS2	Combination		-1192,716	-49,392	2,041E-16	-8,504E-16
14	0,00000	ENVELOPE_ ULS	Combination	Max	-1144,237	-126,158	2,041E-16	1,670E-13
14	0,47625	ENVELOPE_ ULS	Combination	Max	-1168,477	-89,157	2,041E-16	1,670E-13
14	0,95249	ENVELOPE_ ULS	Combination	Max	-1192,716	-49,392	2,041E-16	1,670E-13
14	0,00000	ENVELOPE_ ULS	Combination	Min	-1279,642	-231,654	2,041E-16	-8,504E-16
14	0,47625	ENVELOPE_ ULS	Combination	Min	-1303,881	-168,727	2,041E-16	-8,504E-16
14	0,95249	ENVELOPE_ ULS	Combination	Min	-1328,120	-100,303	2,041E-16	-8,504E-16
14	0,00000	SLS	Combination		-947,883	-171,596	1,512E-16	1,237E-13
14	0,47625	SLS	Combination		-965,838	-124,983	1,512E-16	1,237E-13
14	0,95249	SLS	Combination		-983,793	-74,299	1,512E-16	1,237E-13
15	0,00000	USL1	Combination		-1328,120	-87,666	1,537E-13	1,670E-13
15	0,47625	USL1	Combination		-1352,360	-13,745	1,537E-13	1,670E-13
15	0,95249	USL1	Combination		-1376,599	65,673	1,537E-13	1,670E-13
15	0,00000	ULS2	Combination		-1192,716	-31,175	2,041E-16	-8,504E-16
15	0,47625	ULS2	Combination		-1216,955	11,355	2,041E-16	-8,504E-16
15	0,95249	ULS2	Combination		-1241,194	56,650	2,041E-16	-8,504E-16
15	0,00000	ENVELOPE_ ULS	Combination	Max	-1192,716	-31,175	1,537E-13	1,670E-13
15	0,47625	ENVELOPE_ ULS	Combination	Max	-1216,955	11,355	1,537E-13	1,670E-13
15	0,95249	ENVELOPE_ ULS	Combination	Max	-1241,194	65,673	1,537E-13	1,670E-13
15	0,00000	ENVELOPE_ ULS	Combination	Min	-1328,120	-87,666	2,041E-16	-8,504E-16
15	0,47625	ENVELOPE_ ULS	Combination	Min	-1352,360	-13,745	2,041E-16	-8,504E-16
15	0,95249	ENVELOPE_ ULS	Combination	Min	-1376,599	56,650	2,041E-16	-8,504E-16
15	0,00000	SLS	Combination		-983,793	-64,938	1,138E-13	1,237E-13
15	0,47625	SLS	Combination		-1001,748	-10,181	1,138E-13	1,237E-13
15	0,95249	SLS	Combination		-1019,703	48,647	1,138E-13	1,237E-13
16	0,00000	USL1	Combination		-1376,599	80,026	3,857E-14	1,646E-13
16	0,47625	USL1	Combination		-1400,838	164,941	3,857E-14	1,646E-13
16	0,95249	USL1	Combination		-1425,077	255,353	3,857E-14	1,646E-13
16	0,00000	ULS2	Combination		-1241,194	77,152	2,041E-16	-8,504E-16
16	0,47625	ULS2	Combination		-1265,433	125,195	2,041E-16	-8,504E-16
16	0,95249	ULS2	Combination		-1289,673	175,970	2,041E-16	-8,504E-16
16	0,00000	ENVELOPE_ ULS	Combination	Max	-1241,194	80,026	3,857E-14	1,646E-13
16	0,47625	ENVELOPE_ ULS	Combination	Max	-1265,433	164,941	3,857E-14	1,646E-13
16	0,95249	ENVELOPE_ ULS	Combination	Max	-1289,673	255,353	3,857E-14	1,646E-13
16	0,00000	ENVELOPE_ ULS	Combination	Min	-1376,599	77,152	2,041E-16	-8,504E-16
16	0,47625	ENVELOPE_ ULS	Combination	Min	-1400,838	125,195	2,041E-16	-8,504E-16
16	0,95249	ENVELOPE_ ULS	Combination	Min	-1425,077	175,970	2,041E-16	-8,504E-16
16	0,00000	SLS	Combination		-1019,703	59,278	2,857E-14	1,219E-13
16	0,47625	SLS	Combination		-1037,658	122,178	2,857E-14	1,219E-13
16	0,95249	SLS	Combination		-1055,613	189,151	2,857E-14	1,219E-13
18	0,00000	USL1	Combination		-260,127	-385,981	4,443E-14	6,592E-14
18	0,47625	USL1	Combination		-272,247	-279,078	4,443E-14	6,592E-14
18	0,95249	USL1	Combination		-284,366	-166,677	4,443E-14	6,592E-14

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
18	0,00000	ULS2	Combination		-187,162	-458,962	-3,531E-15	7,762E-15
18	0,47625	ULS2	Combination		-199,281	-399,908	-3,531E-15	7,762E-15
18	0,95249	ULS2	Combination		-211,401	-338,090	-3,531E-15	7,762E-15
18	0,00000	ENVELOPE_ ULS	Combination	Max	-187,162	-385,981	4,443E-14	6,592E-14
18	0,47625	ENVELOPE_ ULS	Combination	Max	-199,281	-279,078	4,443E-14	6,592E-14
18	0,95249	ENVELOPE_ ULS	Combination	Max	-211,401	-166,677	4,443E-14	6,592E-14
18	0,00000	ENVELOPE_ ULS	Combination	Min	-260,127	-458,962	-3,531E-15	7,762E-15
18	0,47625	ENVELOPE_ ULS	Combination	Min	-272,247	-399,908	-3,531E-15	7,762E-15
18	0,95249	ENVELOPE_ ULS	Combination	Min	-284,366	-338,090	-3,531E-15	7,762E-15
18	0,00000	SLS	Combination		-192,687	-285,912	3,291E-14	4,883E-14
18	0,47625	SLS	Combination		-201,664	-206,724	3,291E-14	4,883E-14
18	0,95249	SLS	Combination		-210,642	-123,464	3,291E-14	4,883E-14
19	0,00000	USL1	Combination		166,677	-78,893	2,543E-14	-4,798E-14
19	0,38282	USL1	Combination		166,677	-46,877	2,424E-14	-4,798E-14
19	0,76564	USL1	Combination		166,677	-14,861	2,305E-14	-4,798E-14
19	0,00000	ULS2	Combination		338,090	79,850	6,248E-15	-4,819E-15
19	0,38282	ULS2	Combination		338,090	70,108	5,055E-15	-4,819E-15
19	0,76564	ULS2	Combination		338,090	60,366	3,862E-15	-4,819E-15
19	0,00000	ENVELOPE_ ULS	Combination	Max	338,090	79,850	2,543E-14	-4,819E-15
19	0,38282	ENVELOPE_ ULS	Combination	Max	338,090	70,108	2,424E-14	-4,819E-15
19	0,76564	ENVELOPE_ ULS	Combination	Max	338,090	60,366	2,305E-14	-4,819E-15
19	0,00000	ENVELOPE_ ULS	Combination	Min	166,677	-78,893	6,248E-15	-4,798E-14
19	0,38282	ENVELOPE_ ULS	Combination	Min	166,677	-46,877	5,055E-15	-4,798E-14
19	0,76564	ENVELOPE_ ULS	Combination	Min	166,677	-14,861	3,862E-15	-4,798E-14
19	0,00000	SLS	Combination		123,464	-58,439	1,884E-14	-3,554E-14
19	0,38282	SLS	Combination		123,464	-34,724	1,796E-14	-3,554E-14
19	0,76564	SLS	Combination		123,464	-11,008	1,707E-14	-3,554E-14
20	0,00000	USL1	Combination		166,677	-14,861	3,862E-15	-5,278E-14
20	0,36365	USL1	Combination		166,677	15,551	2,728E-15	-5,278E-14
20	0,72730	USL1	Combination		166,677	45,964	1,595E-15	-5,278E-14
20	0,00000	ULS2	Combination		338,090	60,366	3,862E-15	-4,819E-15
20	0,36365	ULS2	Combination		338,090	51,112	2,728E-15	-4,819E-15
20	0,72730	ULS2	Combination		338,090	41,858	1,595E-15	-4,819E-15
20	0,00000	ENVELOPE_ ULS	Combination	Max	338,090	60,366	3,862E-15	-4,819E-15
20	0,36365	ENVELOPE_ ULS	Combination	Max	338,090	51,112	2,728E-15	-4,819E-15
20	0,72730	ENVELOPE_ ULS	Combination	Max	338,090	45,964	1,595E-15	-4,819E-15
20	0,00000	ENVELOPE_ ULS	Combination	Min	166,677	-14,861	3,862E-15	-5,278E-14
20	0,36365	ENVELOPE_ ULS	Combination	Min	166,677	15,551	2,728E-15	-5,278E-14
20	0,72730	ENVELOPE_ ULS	Combination	Min	166,677	41,858	1,595E-15	-5,278E-14
20	0,00000	SLS	Combination		123,464	-11,008	2,860E-15	-3,910E-14
20	0,36365	SLS	Combination		123,464	11,519	2,021E-15	-3,910E-14
20	0,72730	SLS	Combination		123,464	34,047	1,181E-15	-3,910E-14
21	0,00000	USL1	Combination		-1176,760	-314,659	-7,307E-15	6,159E-14
21	0,50061	USL1	Combination		-1238,268	-227,180	-3,401E-15	6,159E-14

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
21	1,00122	USL1	Combination		-1301,289	-136,442	6,639E-16	6,159E-14
21	0,00000	ULS2	Combination		-886,724	-374,639	-4,568E-14	-3,160E-15
21	0,50061	ULS2	Combination		-948,233	-342,746	-4,177E-14	-3,160E-15
21	1,00122	ULS2	Combination		-1011,254	-309,554	-3,771E-14	-3,160E-15
21	0,00000	ENVELOPE_ ULS	Combination	Max	-886,724	-314,659	-7,307E-15	6,159E-14
21	0,50061	ENVELOPE_ ULS	Combination	Max	-948,233	-227,180	-3,401E-15	6,159E-14
21	1,00122	ENVELOPE_ ULS	Combination	Max	-1011,254	-136,442	6,639E-16	6,159E-14
21	0,00000	ENVELOPE_ ULS	Combination	Min	-1176,760	-374,639	-4,568E-14	-3,160E-15
21	0,50061	ENVELOPE_ ULS	Combination	Min	-1238,268	-342,746	-4,177E-14	-3,160E-15
21	1,00122	ENVELOPE_ ULS	Combination	Min	-1301,289	-309,554	-3,771E-14	-3,160E-15
21	0,00000	SLS	Combination		-871,674	-233,081	-5,412E-15	4,562E-14
21	0,50061	SLS	Combination		-917,236	-168,282	-2,519E-15	4,562E-14
21	1,00122	SLS	Combination		-963,918	-101,068	4,918E-16	4,562E-14
22	0,00000	USL1	Combination		-1154,673	-194,513	-6,753E-14	1,808E-14
22	0,49901	USL1	Combination		-1223,924	-113,194	-6,481E-14	1,808E-14
22	0,99802	USL1	Combination		-1294,511	-29,541	-6,200E-14	1,808E-14
22	0,00000	ULS2	Combination		-795,448	-239,781	-2,916E-14	-3,503E-15
22	0,49901	ULS2	Combination		-864,699	-217,575	-2,644E-14	-3,503E-15
22	0,99802	ULS2	Combination		-935,286	-194,586	-2,363E-14	-3,503E-15
22	0,00000	ENVELOPE_ ULS	Combination	Max	-795,448	-194,513	-2,916E-14	1,808E-14
22	0,49901	ENVELOPE_ ULS	Combination	Max	-864,699	-113,194	-2,644E-14	1,808E-14
22	0,99802	ENVELOPE_ ULS	Combination	Max	-935,286	-29,541	-2,363E-14	1,808E-14
22	0,00000	ENVELOPE_ ULS	Combination	Min	-1154,673	-239,781	-6,753E-14	-3,503E-15
22	0,49901	ENVELOPE_ ULS	Combination	Min	-1223,924	-217,575	-6,481E-14	-3,503E-15
22	0,99802	ENVELOPE_ ULS	Combination	Min	-1294,511	-194,586	-6,200E-14	-3,503E-15
22	0,00000	SLS	Combination		-855,313	-144,084	-5,002E-14	1,339E-14
22	0,49901	SLS	Combination		-906,610	-83,847	-4,801E-14	1,339E-14
22	0,99802	SLS	Combination		-958,897	-21,882	-4,592E-14	1,339E-14
23	0,00000	USL1	Combination		-1197,654	-108,548	2,439E-14	-1,819E-14
23	0,49922	USL1	Combination		-1272,684	-38,323	2,540E-14	-1,819E-14
23	0,99844	USL1	Combination		-1348,609	33,145	2,645E-14	-1,819E-14
23	0,00000	ULS2	Combination		-785,411	-115,841	-1,398E-14	-3,800E-15
23	0,49922	ULS2	Combination		-860,440	-107,551	-1,297E-14	-3,800E-15
23	0,99844	ULS2	Combination		-936,365	-98,963	-1,192E-14	-3,800E-15
23	0,00000	ENVELOPE_ ULS	Combination	Max	-785,411	-108,548	2,439E-14	-3,800E-15
23	0,49922	ENVELOPE_ ULS	Combination	Max	-860,440	-38,323	2,540E-14	-3,800E-15
23	0,99844	ENVELOPE_ ULS	Combination	Max	-936,365	33,145	2,645E-14	-3,800E-15
23	0,00000	ENVELOPE_ ULS	Combination	Min	-1197,654	-115,841	-1,398E-14	-1,819E-14
23	0,49922	ENVELOPE_ ULS	Combination	Min	-1272,684	-107,551	-1,297E-14	-1,819E-14
23	0,99844	ENVELOPE_ ULS	Combination	Min	-1348,609	-98,963	-1,192E-14	-1,819E-14
23	0,00000	SLS	Combination		-887,151	-80,406	1,806E-14	-1,347E-14
23	0,49922	SLS	Combination		-942,729	-28,387	1,882E-14	-1,347E-14
23	0,99844	SLS	Combination		-998,969	24,552	1,960E-14	-1,347E-14
24	0,00000	USL1	Combination		-1303,687	-56,835	-2,319E-13	-7,592E-14

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
24	0,52170	USL1	Combination		-1384,131	1,645	-2,329E-13	-7,592E-14
24	1,04339	USL1	Combination		-1465,591	60,589	-2,338E-13	-7,592E-14
24	0,00000	ULS2	Combination		-863,727	-15,518	-1,696E-15	-3,977E-15
24	0,52170	ULS2	Combination		-944,171	-23,417	-2,664E-15	-3,977E-15
24	1,04339	ULS2	Combination		-1025,631	-31,205	-3,617E-15	-3,977E-15
24	0,00000	ENVELOPE_ ULS	Combination	Max	-863,727	-15,518	-1,696E-15	-3,977E-15
24	0,52170	ENVELOPE_ ULS	Combination	Max	-944,171	1,645	-2,664E-15	-3,977E-15
24	1,04339	ENVELOPE_ ULS	Combination	Max	-1025,631	60,589	-3,617E-15	-3,977E-15
24	0,00000	ENVELOPE_ ULS	Combination	Min	-1303,687	-56,835	-2,319E-13	-7,592E-14
24	0,52170	ENVELOPE_ ULS	Combination	Min	-1384,131	-23,417	-2,329E-13	-7,592E-14
24	1,04339	ENVELOPE_ ULS	Combination	Min	-1465,591	-31,205	-2,338E-13	-7,592E-14
24	0,00000	SLS	Combination		-965,694	-42,100	-1,718E-13	-5,624E-14
24	0,52170	SLS	Combination		-1025,283	1,219	-1,725E-13	-5,624E-14
24	1,04339	SLS	Combination		-1085,623	44,881	-1,732E-13	-5,624E-14
25	0,00000	USL1	Combination		-1465,683	-56,137	-7,277E-14	-9,035E-14
25	0,50307	USL1	Combination		-1387,161	0,396	-7,373E-14	-9,035E-14
25	1,00615	USL1	Combination		-1309,618	56,486	-7,470E-14	-9,035E-14
25	0,00000	ULS2	Combination		-1025,027	30,706	3,964E-15	-4,020E-15
25	0,50307	ULS2	Combination		-946,505	22,890	3,007E-15	-4,020E-15
25	1,00615	ULS2	Combination		-868,963	14,970	2,037E-15	-4,020E-15
25	0,00000	ENVELOPE_ ULS	Combination	Max	-1025,027	30,706	3,964E-15	-4,020E-15
25	0,50307	ENVELOPE_ ULS	Combination	Max	-946,505	22,890	3,007E-15	-4,020E-15
25	1,00615	ENVELOPE_ ULS	Combination	Max	-868,963	56,486	2,037E-15	-4,020E-15
25	0,00000	ENVELOPE_ ULS	Combination	Min	-1465,683	-56,137	-7,277E-14	-9,035E-14
25	0,50307	ENVELOPE_ ULS	Combination	Min	-1387,161	0,396	-7,373E-14	-9,035E-14
25	1,00615	ENVELOPE_ ULS	Combination	Min	-1309,618	14,970	-7,470E-14	-9,035E-14
25	0,00000	SLS	Combination		-1085,691	-41,583	-5,391E-14	-6,693E-14
25	0,50307	SLS	Combination		-1027,527	0,293	-5,462E-14	-6,693E-14
25	1,00615	SLS	Combination		-970,088	41,842	-5,533E-14	-6,693E-14
26	0,00000	USL1	Combination		-248,007	-487,388	6,841E-14	6,652E-14
26	0,23812	USL1	Combination		-254,067	-437,372	6,841E-14	6,652E-14
26	0,47625	USL1	Combination		-260,127	-385,981	6,841E-14	6,652E-14
26	0,00000	ULS2	Combination		-175,042	-515,250	-3,531E-15	7,762E-15
26	0,23812	ULS2	Combination		-181,102	-487,452	-3,531E-15	7,762E-15
26	0,47625	ULS2	Combination		-187,162	-458,962	-3,531E-15	7,762E-15
26	0,00000	ENVELOPE_ ULS	Combination	Max	-175,042	-487,388	6,841E-14	6,652E-14
26	0,23812	ENVELOPE_ ULS	Combination	Max	-181,102	-437,372	6,841E-14	6,652E-14
26	0,47625	ENVELOPE_ ULS	Combination	Max	-187,162	-385,981	6,841E-14	6,652E-14
26	0,00000	ENVELOPE_ ULS	Combination	Min	-248,007	-515,250	-3,531E-15	7,762E-15
26	0,23812	ENVELOPE_ ULS	Combination	Min	-254,067	-487,452	-3,531E-15	7,762E-15
26	0,47625	ENVELOPE_ ULS	Combination	Min	-260,127	-458,962	-3,531E-15	7,762E-15
26	0,00000	SLS	Combination		-183,709	-361,028	5,068E-14	4,927E-14
26	0,23812	SLS	Combination		-188,198	-323,979	5,068E-14	4,927E-14
26	0,47625	SLS	Combination		-192,687	-285,912	5,068E-14	4,927E-14

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
27	0,00000	USL1	Combination		-1353,819	-29,260	-6,410E-14	-5,668E-14
27	0,50047	USL1	Combination		-1277,642	41,812	-6,312E-14	-5,668E-14
27	1,00094	USL1	Combination		-1202,363	111,646	-6,217E-14	-5,668E-14
27	0,00000	ULS2	Combination		-940,111	101,536	1,264E-14	-3,926E-15
27	0,50047	ULS2	Combination		-863,933	109,572	1,362E-14	-3,926E-15
27	1,00094	ULS2	Combination		-788,655	117,315	1,457E-14	-3,926E-15
27	0,00000	ENVELOPE_ ULS	Combination	Max	-940,111	101,536	1,264E-14	-3,926E-15
27	0,50047	ENVELOPE_ ULS	Combination	Max	-863,933	109,572	1,362E-14	-3,926E-15
27	1,00094	ENVELOPE_ ULS	Combination	Max	-788,655	117,315	1,457E-14	-3,926E-15
27	0,00000	ENVELOPE_ ULS	Combination	Min	-1353,819	-29,260	-6,410E-14	-5,668E-14
27	0,50047	ENVELOPE_ ULS	Combination	Min	-1277,642	41,812	-6,312E-14	-5,668E-14
27	1,00094	ENVELOPE_ ULS	Combination	Min	-1202,363	111,646	-6,217E-14	-5,668E-14
27	0,00000	SLS	Combination		-1002,829	-21,674	-4,748E-14	-4,199E-14
27	0,50047	SLS	Combination		-946,401	30,972	-4,675E-14	-4,199E-14
27	1,00094	SLS	Combination		-890,639	82,701	-4,605E-14	-4,199E-14
28	0,00000	USL1	Combination		-1298,805	32,011	-1,292E-13	-4,687E-14
28	0,50102	USL1	Combination		-1227,776	115,515	-1,264E-13	-4,687E-14
28	1,00204	USL1	Combination		-1158,095	196,684	-1,238E-13	-4,687E-14
28	0,00000	ULS2	Combination		-937,520	196,591	2,428E-14	-3,704E-15
28	0,50102	ULS2	Combination		-866,492	219,186	2,705E-14	-3,704E-15
28	1,00204	ULS2	Combination		-796,810	241,003	2,972E-14	-3,704E-15
28	0,00000	ENVELOPE_ ULS	Combination	Max	-937,520	196,591	2,428E-14	-3,704E-15
28	0,50102	ENVELOPE_ ULS	Combination	Max	-866,492	219,186	2,705E-14	-3,704E-15
28	1,00204	ENVELOPE_ ULS	Combination	Max	-796,810	241,003	2,972E-14	-3,704E-15
28	0,00000	ENVELOPE_ ULS	Combination	Min	-1298,805	32,011	-1,292E-13	-4,687E-14
28	0,50102	ENVELOPE_ ULS	Combination	Min	-1227,776	115,515	-1,264E-13	-4,687E-14
28	1,00204	ENVELOPE_ ULS	Combination	Min	-1158,095	196,684	-1,238E-13	-4,687E-14
28	0,00000	SLS	Combination		-962,078	23,712	-9,570E-14	-3,472E-14
28	0,50102	SLS	Combination		-909,464	85,566	-9,365E-14	-3,472E-14
28	1,00204	SLS	Combination		-857,848	145,692	-9,167E-14	-3,472E-14
29	0,00000	USL1	Combination		-1308,126	101,209	3,486E-14	-1,056E-14
29	0,50160	USL1	Combination		-1245,744	193,540	3,910E-14	-1,056E-14
29	1,00321	USL1	Combination		-1184,848	282,570	4,319E-14	-1,056E-14
29	0,00000	ULS2	Combination		-1020,947	282,976	3,486E-14	-3,363E-15
29	0,50160	ULS2	Combination		-958,565	317,646	3,910E-14	-3,363E-15
29	1,00321	ULS2	Combination		-897,668	350,979	4,319E-14	-3,363E-15
29	0,00000	ENVELOPE_ ULS	Combination	Max	-1020,947	282,976	3,486E-14	-3,363E-15
29	0,50160	ENVELOPE_ ULS	Combination	Max	-958,565	317,646	3,910E-14	-3,363E-15
29	1,00321	ENVELOPE_ ULS	Combination	Max	-897,668	350,979	4,319E-14	-3,363E-15
29	0,00000	ENVELOPE_ ULS	Combination	Min	-1308,126	101,209	3,486E-14	-1,056E-14
29	0,50160	ENVELOPE_ ULS	Combination	Min	-1245,744	193,540	3,910E-14	-1,056E-14
29	1,00321	ENVELOPE_ ULS	Combination	Min	-1184,848	282,570	4,319E-14	-1,056E-14
29	0,00000	SLS	Combination		-968,982	74,970	2,582E-14	-7,820E-15
29	0,50160	SLS	Combination		-922,774	143,363	2,897E-14	-7,820E-15

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
29	1,00321	SLS	Combination		-877,665	209,311	3,199E-14	-7,820E-15
30	0,00000	USL1	Combination		171,157	-41,839	1,473E-13	-4,847E-14
30	0,38282	USL1	Combination		171,157	-9,823	1,461E-13	-4,847E-14
30	0,76564	USL1	Combination		171,157	22,193	1,449E-13	-4,847E-14
30	0,00000	ULS2	Combination		344,095	-35,297	-6,191E-15	-5,040E-16
30	0,38282	ULS2	Combination		344,095	-45,039	-7,384E-15	-5,040E-16
30	0,76564	ULS2	Combination		344,095	-54,781	-8,577E-15	-5,040E-16
30	0,00000	ENVELOPE_ ULS	Combination	Max	344,095	-35,297	1,473E-13	-5,040E-16
30	0,38282	ENVELOPE_ ULS	Combination	Max	344,095	-9,823	1,461E-13	-5,040E-16
30	0,76564	ENVELOPE_ ULS	Combination	Max	344,095	22,193	1,449E-13	-5,040E-16
30	0,00000	ENVELOPE_ ULS	Combination	Min	171,157	-41,839	-6,191E-15	-4,847E-14
30	0,38282	ENVELOPE_ ULS	Combination	Min	171,157	-45,039	-7,384E-15	-4,847E-14
30	0,76564	ENVELOPE_ ULS	Combination	Min	171,157	-54,781	-8,577E-15	-4,847E-14
30	0,00000	SLS	Combination		126,783	-30,992	1,091E-13	-3,590E-14
30	0,38282	SLS	Combination		126,783	-7,276	1,082E-13	-3,590E-14
30	0,76564	SLS	Combination		126,783	16,439	1,073E-13	-3,590E-14
31	0,00000	USL1	Combination		171,157	22,193	-8,532E-14	-4,607E-14
31	0,38282	USL1	Combination		171,157	54,209	-8,651E-14	-4,607E-14
31	0,76564	USL1	Combination		171,157	86,225	-8,770E-14	-4,607E-14
31	0,00000	ULS2	Combination		344,095	-54,781	-8,577E-15	-5,040E-16
31	0,38282	ULS2	Combination		344,095	-64,523	-9,770E-15	-5,040E-16
31	0,76564	ULS2	Combination		344,095	-74,265	-1,096E-14	-5,040E-16
31	0,00000	ENVELOPE_ ULS	Combination	Max	344,095	22,193	-8,577E-15	-5,040E-16
31	0,38282	ENVELOPE_ ULS	Combination	Max	344,095	54,209	-9,770E-15	-5,040E-16
31	0,76564	ENVELOPE_ ULS	Combination	Max	344,095	86,225	-1,096E-14	-5,040E-16
31	0,00000	ENVELOPE_ ULS	Combination	Min	171,157	-54,781	-8,532E-14	-4,607E-14
31	0,38282	ENVELOPE_ ULS	Combination	Min	171,157	-64,523	-8,651E-14	-4,607E-14
31	0,76564	ENVELOPE_ ULS	Combination	Min	171,157	-74,265	-8,770E-14	-4,607E-14
31	0,00000	SLS	Combination		126,783	16,439	-6,320E-14	-3,412E-14
31	0,38282	SLS	Combination		126,783	40,155	-6,408E-14	-3,412E-14
31	0,76564	SLS	Combination		126,783	63,870	-6,496E-14	-3,412E-14
32	0,00000	USL1	Combination		-293,404	171,157	1,902E-15	3,809E-14
32	0,47625	USL1	Combination		-281,285	283,558	9,472E-15	3,809E-14
32	0,95249	USL1	Combination		-269,165	390,461	1,670E-14	3,809E-14
32	0,00000	ULS2	Combination		-219,511	344,095	4,027E-14	3,319E-15
32	0,47625	ULS2	Combination		-207,391	405,913	4,784E-14	3,319E-15
32	0,95249	ULS2	Combination		-195,271	464,966	5,507E-14	3,319E-15
32	0,00000	ENVELOPE_ ULS	Combination	Max	-219,511	344,095	4,027E-14	3,809E-14
32	0,47625	ENVELOPE_ ULS	Combination	Max	-207,391	405,913	4,784E-14	3,809E-14
32	0,95249	ENVELOPE_ ULS	Combination	Max	-195,271	464,966	5,507E-14	3,809E-14
32	0,00000	ENVELOPE_ ULS	Combination	Min	-293,404	171,157	1,902E-15	3,319E-15
32	0,47625	ENVELOPE_ ULS	Combination	Min	-281,285	283,558	9,472E-15	3,319E-15
32	0,95249	ENVELOPE_ ULS	Combination	Min	-269,165	390,461	1,670E-14	3,319E-15
32	0,00000	SLS	Combination		-217,337	126,783	1,409E-15	2,822E-14

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
32	0,47625	SLS	Combination		-208,359	210,043	7,016E-15	2,822E-14
32	0,95249	SLS	Combination		-199,382	289,230	1,237E-14	2,822E-14
34	0,00000	USL1	Combination		-1427,134	-260,510	-2,202E-14	1,259E-13
34	0,47625	USL1	Combination		-1402,895	-170,097	-1,580E-14	1,259E-13
34	0,95249	USL1	Combination		-1378,656	-85,182	-9,920E-15	1,259E-13
34	0,00000	ULS2	Combination		-1291,313	-181,489	-2,202E-14	-1,230E-15
34	0,47625	ULS2	Combination		-1267,074	-130,714	-1,580E-14	-1,230E-15
34	0,95249	ULS2	Combination		-1242,835	-82,671	-9,920E-15	-1,230E-15
34	0,00000	ENVELOPE_ ULS	Combination	Max	-1291,313	-181,489	-2,202E-14	1,259E-13
34	0,47625	ENVELOPE_ ULS	Combination	Max	-1267,074	-130,714	-1,580E-14	1,259E-13
34	0,95249	ENVELOPE_ ULS	Combination	Max	-1242,835	-82,671	-9,920E-15	1,259E-13
34	0,00000	ENVELOPE_ ULS	Combination	Min	-1427,134	-260,510	-2,202E-14	-1,230E-15
34	0,47625	ENVELOPE_ ULS	Combination	Min	-1402,895	-170,097	-1,580E-14	-1,230E-15
34	0,95249	ENVELOPE_ ULS	Combination	Min	-1378,656	-85,182	-9,920E-15	-1,230E-15
34	0,00000	SLS	Combination		-1057,137	-192,970	-1,631E-14	9,324E-14
34	0,47625	SLS	Combination		-1039,182	-125,998	-1,171E-14	9,324E-14
34	0,95249	SLS	Combination		-1021,227	-63,098	-7,348E-15	9,324E-14
35	0,00000	USL1	Combination		-1378,656	-70,434	2,213E-15	1,283E-13
35	0,47625	USL1	Combination		-1354,417	8,984	7,760E-15	1,283E-13
35	0,95249	USL1	Combination		-1330,178	82,905	1,297E-14	1,283E-13
35	0,00000	ULS2	Combination		-1242,835	-61,921	-7,379E-15	-1,230E-15
35	0,47625	ULS2	Combination		-1218,596	-16,626	-1,832E-15	-1,230E-15
35	0,95249	ULS2	Combination		-1194,357	25,904	3,376E-15	-1,230E-15
35	0,00000	ENVELOPE_ ULS	Combination	Max	-1242,835	-61,921	2,213E-15	1,283E-13
35	0,47625	ENVELOPE_ ULS	Combination	Max	-1218,596	8,984	7,760E-15	1,283E-13
35	0,95249	ENVELOPE_ ULS	Combination	Max	-1194,357	82,905	1,297E-14	1,283E-13
35	0,00000	ENVELOPE_ ULS	Combination	Min	-1378,656	-70,434	-7,379E-15	-1,230E-15
35	0,47625	ENVELOPE_ ULS	Combination	Min	-1354,417	-16,626	-1,832E-15	-1,230E-15
35	0,95249	ENVELOPE_ ULS	Combination	Min	-1330,178	25,904	3,376E-15	-1,230E-15
35	0,00000	SLS	Combination		-1021,227	-52,173	1,639E-15	9,501E-14
35	0,47625	SLS	Combination		-1003,272	6,655	5,748E-15	9,501E-14
35	0,95249	SLS	Combination		-985,317	61,411	9,606E-15	9,501E-14
36	0,00000	USL1	Combination		-1330,178	96,796	6,335E-14	1,259E-13
36	0,47625	USL1	Combination		-1305,939	165,220	6,822E-14	1,259E-13
36	0,95249	USL1	Combination		-1281,699	228,147	7,275E-14	1,259E-13
36	0,00000	ULS2	Combination		-1194,357	45,664	5,796E-15	-1,230E-15
36	0,47625	ULS2	Combination		-1170,117	85,429	1,067E-14	-1,230E-15
36	0,95249	ULS2	Combination		-1145,878	122,430	1,520E-14	-1,230E-15
36	0,00000	ENVELOPE_ ULS	Combination	Max	-1194,357	96,796	6,335E-14	1,259E-13
36	0,47625	ENVELOPE_ ULS	Combination	Max	-1170,117	165,220	6,822E-14	1,259E-13
36	0,95249	ENVELOPE_ ULS	Combination	Max	-1145,878	228,147	7,275E-14	1,259E-13
36	0,00000	ENVELOPE_ ULS	Combination	Min	-1330,178	45,664	5,796E-15	-1,230E-15
36	0,47625	ENVELOPE_ ULS	Combination	Min	-1305,939	85,429	1,067E-14	-1,230E-15
36	0,95249	ENVELOPE_ ULS	Combination	Min	-1281,699	122,430	1,520E-14	-1,230E-15

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
36	0,00000	SLS	Combination		-985,317	71,701	4,693E-14	9,324E-14
36	0,47625	SLS	Combination		-967,362	122,386	5,053E-14	9,324E-14
36	0,95249	SLS	Combination		-949,407	168,998	5,389E-14	9,324E-14
37	0,00000	USL1	Combination		-269,165	390,461	5,507E-14	3,929E-14
37	0,23812	USL1	Combination		-263,105	441,852	5,856E-14	3,929E-14
37	0,47625	USL1	Combination		-257,046	491,868	6,197E-14	3,929E-14
37	0,00000	ULS2	Combination		-195,271	464,966	5,507E-14	3,319E-15
37	0,23812	ULS2	Combination		-189,212	493,456	5,856E-14	3,319E-15
37	0,47625	ULS2	Combination		-183,152	521,255	6,197E-14	3,319E-15
37	0,00000	ENVELOPE_ ULS	Combination	Max	-195,271	464,966	5,507E-14	3,929E-14
37	0,23812	ENVELOPE_ ULS	Combination	Max	-189,212	493,456	5,856E-14	3,929E-14
37	0,47625	ENVELOPE_ ULS	Combination	Max	-183,152	521,255	6,197E-14	3,929E-14
37	0,00000	ENVELOPE_ ULS	Combination	Min	-269,165	390,461	5,507E-14	3,319E-15
37	0,23812	ENVELOPE_ ULS	Combination	Min	-263,105	441,852	5,856E-14	3,319E-15
37	0,47625	ENVELOPE_ ULS	Combination	Min	-257,046	491,868	6,197E-14	3,319E-15
37	0,00000	SLS	Combination		-199,382	289,230	4,080E-14	2,910E-14
37	0,23812	SLS	Combination		-194,893	327,297	4,338E-14	2,910E-14
37	0,47625	SLS	Combination		-190,404	364,346	4,590E-14	2,910E-14
38	0,00000	USL1	Combination		-1451,374	-371,025	1,224E-13	1,187E-13
38	0,23812	USL1	Combination		-1439,254	-322,383	1,257E-13	1,187E-13
38	0,47625	USL1	Combination		-1427,134	-275,116	1,290E-13	1,187E-13
38	0,00000	ULS2	Combination		-1315,552	-255,343	-3,107E-14	-1,230E-15
38	0,23812	ULS2	Combination		-1303,433	-228,236	-2,775E-14	-1,230E-15
38	0,47625	ULS2	Combination		-1291,313	-201,819	-2,451E-14	-1,230E-15
38	0,00000	ENVELOPE_ ULS	Combination	Max	-1315,552	-255,343	1,224E-13	1,187E-13
38	0,23812	ENVELOPE_ ULS	Combination	Max	-1303,433	-228,236	1,257E-13	1,187E-13
38	0,47625	ENVELOPE_ ULS	Combination	Max	-1291,313	-201,819	1,290E-13	1,187E-13
38	0,00000	ENVELOPE_ ULS	Combination	Min	-1451,374	-371,025	-3,107E-14	-1,230E-15
38	0,23812	ENVELOPE_ ULS	Combination	Min	-1439,254	-322,383	-2,775E-14	-1,230E-15
38	0,47625	ENVELOPE_ ULS	Combination	Min	-1427,134	-275,116	-2,451E-14	-1,230E-15
38	0,00000	SLS	Combination		-1075,092	-274,833	9,067E-14	8,791E-14
38	0,23812	SLS	Combination		-1066,114	-238,802	9,313E-14	8,791E-14
38	0,47625	SLS	Combination		-1057,137	-203,789	9,553E-14	8,791E-14
39	0,00000	USL1	Combination		-1482,048	323,551	4,336E-14	-1,407E-14
39	1,04715	USL1	Combination		-1463,868	304,067	4,097E-14	-1,407E-14
39	2,09431	USL1	Combination		-1445,689	284,583	3,859E-14	-1,407E-14
39	0,00000	ULS2	Combination		-1376,705	337,142	4,336E-14	-3,274E-15
39	1,04715	ULS2	Combination		-1358,526	317,658	4,097E-14	-3,274E-15
39	2,09431	ULS2	Combination		-1340,346	298,174	3,859E-14	-3,274E-15
39	0,00000	ENVELOPE_ ULS	Combination	Max	-1376,705	337,142	4,336E-14	-3,274E-15
39	1,04715	ENVELOPE_ ULS	Combination	Max	-1358,526	317,658	4,097E-14	-3,274E-15
39	2,09431	ENVELOPE_ ULS	Combination	Max	-1340,346	298,174	3,859E-14	-3,274E-15
39	0,00000	ENVELOPE_ ULS	Combination	Min	-1482,048	323,551	4,336E-14	-1,407E-14
39	1,04715	ENVELOPE_ ULS	Combination	Min	-1463,868	304,067	4,097E-14	-1,407E-14

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
39	2,09431	ENVELOPE_ ULS	Combination	Min	-1445,689	284,583	3,859E-14	-1,407E-14
39	0,00000	SLS	Combination		-1097,813	239,667	3,212E-14	-1,042E-14
39	1,04715	SLS	Combination		-1084,347	225,235	3,035E-14	-1,042E-14
39	2,09431	SLS	Combination		-1070,881	210,802	2,858E-14	-1,042E-14
40	0,00000	USL1	Combination		-1483,741	315,631	6,586E-14	2,689E-14
40	1,03322	USL1	Combination		-1465,562	296,635	6,354E-14	2,689E-14
40	2,06644	USL1	Combination		-1447,382	277,639	6,121E-14	2,689E-14
40	0,00000	ULS2	Combination		-1377,283	331,087	4,428E-14	-1,289E-15
40	1,03322	ULS2	Combination		-1359,103	312,091	4,196E-14	-1,289E-15
40	2,06644	ULS2	Combination		-1340,924	293,094	3,963E-14	-1,289E-15
40	0,00000	ENVELOPE_ ULS	Combination	Max	-1377,283	331,087	6,586E-14	2,689E-14
40	1,03322	ENVELOPE_ ULS	Combination	Max	-1359,103	312,091	6,354E-14	2,689E-14
40	2,06644	ENVELOPE_ ULS	Combination	Max	-1340,924	293,094	6,121E-14	2,689E-14
40	0,00000	ENVELOPE_ ULS	Combination	Min	-1483,741	315,631	4,428E-14	-1,289E-15
40	1,03322	ENVELOPE_ ULS	Combination	Min	-1465,562	296,635	4,196E-14	-1,289E-15
40	2,06644	ENVELOPE_ ULS	Combination	Min	-1447,382	277,639	3,963E-14	-1,289E-15
40	0,00000	SLS	Combination		-1099,068	233,801	4,879E-14	1,992E-14
40	1,03322	SLS	Combination		-1085,601	219,730	4,707E-14	1,992E-14
40	2,06644	SLS	Combination		-1072,135	205,658	4,534E-14	1,992E-14

Table: Element Forces - Frames, Part 2 of 2

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
1	0,00000	USL1		-5,127E-14	-958,4662	1-1	0,00000
1	0,23812	USL1		-6,502E-14	-1028,4631	1-1	0,23812
1	0,47625	USL1		-7,878E-14	-1109,8791	1-1	0,47625
1	0,00000	ULS2		-3,309E-15	-1174,9517	1-1	0,00000
1	0,23812	ULS2		-3,358E-15	-1225,0785	1-1	0,23812
1	0,47625	ULS2		-3,406E-15	-1281,5778	1-1	0,47625
1	0,00000	ENVELOPE_ ULS	Max	-3,309E-15	-958,4662	1-1	0,00000
1	0,23812	ENVELOPE_ ULS	Max	-3,358E-15	-1028,4631	1-1	0,23812
1	0,47625	ENVELOPE_ ULS	Max	-3,406E-15	-1109,8791	1-1	0,47625
1	0,00000	ENVELOPE_ ULS	Min	-5,127E-14	-1174,9517	1-1	0,00000
1	0,23812	ENVELOPE_ ULS	Min	-6,502E-14	-1225,0785	1-1	0,23812
1	0,47625	ENVELOPE_ ULS	Min	-7,878E-14	-1281,5778	1-1	0,47625
1	0,00000	SLS		-3,798E-14	-709,9749	1-1	0,00000
1	0,23812	SLS		-4,817E-14	-761,8245	1-1	0,23812
1	0,47625	SLS		-5,835E-14	-822,1327	1-1	0,47625
2	0,00000	USL1		-9,313E-14	-972,3486	2-1	0,00000
2	0,57862	USL1		-1,376E-13	-594,3170	2-1	0,57862
2	1,15723	USL1		-1,822E-13	-310,6424	2-1	1,15723
2	0,00000	ULS2		2,797E-15	-1127,3222	2-1	0,00000
2	0,57862	ULS2		2,679E-15	-755,4414	2-1	0,57862
2	1,15723	ULS2		2,561E-15	-462,2791	2-1	1,15723

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
2	0,00000	ENVELOPE_ ULS	Max	2,797E-15	-972,3486	2-1	0,00000
2	0,57862	ENVELOPE_ ULS	Max	2,679E-15	-594,3170	2-1	0,57862
2	1,15723	ENVELOPE_ ULS	Max	2,561E-15	-310,6424	2-1	1,15723
2	0,00000	ENVELOPE_ ULS	Min	-9,313E-14	-1127,3222	2-1	0,00000
2	0,57862	ENVELOPE_ ULS	Min	-1,376E-13	-755,4414	2-1	0,57862
2	1,15723	ENVELOPE_ ULS	Min	-1,822E-13	-462,2791	2-1	1,15723
2	0,00000	SLS		-6,898E-14	-720,2583	2-1	0,00000
2	0,57862	SLS		-1,020E-13	-440,2348	2-1	0,57862
2	1,15723	SLS		-1,349E-13	-230,1055	2-1	1,15723
3	0,00000	USL1		-2,277E-13	-310,6424	3-1	0,00000
3	0,51232	USL1		-2,081E-13	-133,2631	3-1	0,51232
3	1,02464	USL1		-1,885E-13	-20,2704	3-1	1,02464
3	0,00000	ULS2		2,561E-15	-462,2791	3-1	0,00000
3	0,51232	ULS2		2,457E-15	-264,7559	3-1	0,51232
3	1,02464	ULS2		2,352E-15	-121,7864	3-1	1,02464
3	0,00000	ENVELOPE_ ULS	Max	2,561E-15	-310,6424	3-1	0,00000
3	0,51232	ENVELOPE_ ULS	Max	2,457E-15	-133,2631	3-1	0,51232
3	1,02464	ENVELOPE_ ULS	Max	2,352E-15	-20,2704	3-1	1,02464
3	0,00000	ENVELOPE_ ULS	Min	-2,277E-13	-462,2791	3-1	0,00000
3	0,51232	ENVELOPE_ ULS	Min	-2,081E-13	-264,7559	3-1	0,51232
3	1,02464	ENVELOPE_ ULS	Min	-1,885E-13	-121,7864	3-1	1,02464
3	0,00000	SLS		-1,686E-13	-230,1055	3-1	0,00000
3	0,51232	SLS		-1,541E-13	-98,7134	3-1	0,51232
3	1,02464	SLS		-1,397E-13	-15,0151	3-1	1,02464
4	0,00000	USL1		-2,663E-13	-20,2704	4-1	0,00000
4	0,49473	USL1		-2,284E-13	50,8616	4-1	0,49473
4	0,98945	USL1		-1,906E-13	71,1101	4-1	0,98945
4	0,00000	ULS2		2,300E-15	-121,7864	4-1	0,00000
4	0,49473	ULS2		2,199E-15	-17,3888	4-1	0,49473
4	0,98945	ULS2		2,098E-15	43,2459	4-1	0,98945
4	0,00000	ENVELOPE_ ULS	Max	2,300E-15	-20,2704	4-1	0,00000
4	0,49473	ENVELOPE_ ULS	Max	2,199E-15	50,8616	4-1	0,49473
4	0,98945	ENVELOPE_ ULS	Max	2,098E-15	71,1101	4-1	0,98945
4	0,00000	ENVELOPE_ ULS	Min	-2,663E-13	-121,7864	4-1	0,00000
4	0,49473	ENVELOPE_ ULS	Min	-2,284E-13	-17,3888	4-1	0,49473
4	0,98945	ENVELOPE_ ULS	Min	-1,906E-13	43,2459	4-1	0,98945
4	0,00000	SLS		-1,972E-13	-15,0151	4-1	0,00000
4	0,49473	SLS		-1,692E-13	37,6753	4-1	0,49473
4	0,98945	SLS		-1,412E-13	52,6742	4-1	0,98945
5	0,00000	USL1		-2,284E-13	71,1101	5-1	0,00000
5	0,49402	USL1		-2,664E-13	111,9645	5-1	0,49402
5	0,98804	USL1		-3,044E-13	108,7298	5-1	0,98804
5	0,00000	ULS2		1,825E-15	43,2459	5-1	0,00000
5	0,49402	ULS2		1,724E-15	113,1152	5-1	0,49402

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
5	0,98804	ULS2		1,623E-15	144,2660	5-1	0,98804
5	0,00000	ENVELOPE_ ULS	Max	1,825E-15	71,1101	5-1	0,00000
5	0,49402	ENVELOPE_ ULS	Max	1,724E-15	113,1152	5-1	0,49402
5	0,98804	ENVELOPE_ ULS	Max	1,623E-15	144,2660	5-1	0,98804
5	0,00000	ENVELOPE_ ULS	Min	-2,284E-13	43,2459	5-1	0,00000
5	0,49402	ENVELOPE_ ULS	Min	-2,664E-13	111,9645	5-1	0,49402
5	0,98804	ENVELOPE_ ULS	Min	-3,044E-13	108,7298	5-1	0,98804
5	0,00000	SLS		-1,692E-13	52,6742	5-1	0,00000
5	0,49402	SLS		-1,973E-13	82,9366	5-1	0,49402
5	0,98804	SLS		-2,255E-13	80,5406	5-1	0,98804
6	0,00000	USL1		-2,673E-13	108,7298	6-1	0,00000
6	0,49382	USL1		-1,916E-13	131,0999	6-1	0,49382
6	0,98763	USL1		-1,159E-13	115,1744	6-1	0,98763
6	0,00000	ULS2		1,261E-15	144,2660	6-1	0,00000
6	0,49382	ULS2		1,161E-15	185,8507	6-1	0,49382
6	0,98763	ULS2		1,060E-15	193,2716	6-1	0,98763
6	0,00000	ENVELOPE_ ULS	Max	1,261E-15	144,2660	6-1	0,00000
6	0,49382	ENVELOPE_ ULS	Max	1,161E-15	185,8507	6-1	0,49382
6	0,98763	ENVELOPE_ ULS	Max	1,060E-15	193,2716	6-1	0,98763
6	0,00000	ENVELOPE_ ULS	Min	-2,673E-13	108,7298	6-1	0,00000
6	0,49382	ENVELOPE_ ULS	Min	-1,916E-13	131,0999	6-1	0,49382
6	0,98763	ENVELOPE_ ULS	Min	-1,159E-13	115,1744	6-1	0,98763
6	0,00000	SLS		-1,980E-13	80,5406	6-1	0,00000
6	0,49382	SLS		-1,420E-13	97,1110	6-1	0,49382
6	0,98763	SLS		-8,589E-14	85,3144	6-1	0,98763
7	0,00000	USL1		-1,528E-13	115,1744	7-1	0,00000
7	0,52308	USL1		-7,267E-14	131,5078	7-1	0,52308
7	1,04617	USL1		7,506E-15	110,7830	7-1	1,04617
7	0,00000	ULS2		6,340E-16	193,2716	7-1	0,00000
7	0,52308	ULS2		5,273E-16	215,7378	7-1	0,52308
7	1,04617	ULS2		4,205E-16	205,0429	7-1	1,04617
7	0,00000	ENVELOPE_ ULS	Max	6,340E-16	193,2716	7-1	0,00000
7	0,52308	ENVELOPE_ ULS	Max	5,273E-16	215,7378	7-1	0,52308
7	1,04617	ENVELOPE_ ULS	Max	7,506E-15	205,0429	7-1	1,04617
7	0,00000	ENVELOPE_ ULS	Min	-1,528E-13	115,1744	7-1	0,00000
7	0,52308	ENVELOPE_ ULS	Min	-7,267E-14	131,5078	7-1	0,52308
7	1,04617	ENVELOPE_ ULS	Min	4,205E-16	110,7830	7-1	1,04617
7	0,00000	SLS		-1,132E-13	85,3144	7-1	0,00000
7	0,52308	SLS		-5,383E-14	97,4131	7-1	0,52308
7	1,04617	SLS		5,560E-15	82,0615	7-1	1,04617
8	0,00000	USL1		-5,149E-17	110,7830	8-1	0,00000
8	0,54165	USL1		4,140E-14	131,4814	8-1	0,54165
8	1,08329	USL1		8,286E-14	112,4174	8-1	1,08329
8	0,00000	ULS2		-5,149E-17	205,0429	8-1	0,00000

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
8	0,54165	ULS2		-1,620E-16	215,1460	8-1	0,54165
8	1,08329	ULS2		-2,726E-16	189,6651	8-1	1,08329
8	0,00000	ENVELOPE_ ULS	Max	-5,149E-17	205,0429	8-1	0,00000
8	0,54165	ENVELOPE_ ULS	Max	4,140E-14	215,1460	8-1	0,54165
8	1,08329	ENVELOPE_ ULS	Max	8,286E-14	189,6651	8-1	1,08329
8	0,00000	ENVELOPE_ ULS	Min	-5,149E-17	110,7830	8-1	0,00000
8	0,54165	ENVELOPE_ ULS	Min	-1,620E-16	131,4814	8-1	0,54165
8	1,08329	ENVELOPE_ ULS	Min	-2,726E-16	112,4174	8-1	1,08329
8	0,00000	SLS		-3,814E-17	82,0615	8-1	0,00000
8	0,54165	SLS		3,067E-14	97,3936	8-1	0,54165
8	1,08329	SLS		6,138E-14	83,2721	8-1	1,08329
9	0,00000	USL1		1,144E-13	112,4174	9-1	0,00000
9	0,49252	USL1		7,649E-14	126,9412	9-1	0,49252
9	0,98504	USL1		3,859E-14	103,3814	9-1	0,98504
9	0,00000	ULS2		-7,233E-16	189,6651	9-1	0,00000
9	0,49252	ULS2		-8,238E-16	180,5561	9-1	0,49252
9	0,98504	ULS2		-9,243E-16	137,4733	9-1	0,98504
9	0,00000	ENVELOPE_ ULS	Max	1,144E-13	189,6651	9-1	0,00000
9	0,49252	ENVELOPE_ ULS	Max	7,649E-14	180,5561	9-1	0,49252
9	0,98504	ENVELOPE_ ULS	Max	3,859E-14	137,4733	9-1	0,98504
9	0,00000	ENVELOPE_ ULS	Min	-7,233E-16	112,4174	9-1	0,00000
9	0,49252	ENVELOPE_ ULS	Min	-8,238E-16	126,9412	9-1	0,49252
9	0,98504	ENVELOPE_ ULS	Min	-9,243E-16	103,3814	9-1	0,98504
9	0,00000	SLS		8,473E-14	83,2721	9-1	0,00000
9	0,49252	SLS		5,666E-14	94,0305	9-1	0,49252
9	0,98504	SLS		2,859E-14	76,5788	9-1	0,98504
10	0,00000	USL1		3,705E-14	103,3814	10-1	0,00000
10	0,49197	USL1		3,695E-14	105,5014	10-1	0,49197
10	0,98394	USL1		3,685E-14	63,9698	10-1	0,98394
10	0,00000	ULS2		-1,317E-15	137,4733	10-1	0,00000
10	0,49197	ULS2		-1,417E-15	105,0743	10-1	0,49197
10	0,98394	ULS2		-1,517E-15	34,3497	10-1	0,98394
10	0,00000	ENVELOPE_ ULS	Max	3,705E-14	137,4733	10-1	0,00000
10	0,49197	ENVELOPE_ ULS	Max	3,695E-14	105,5014	10-1	0,49197
10	0,98394	ENVELOPE_ ULS	Max	3,685E-14	63,9698	10-1	0,98394
10	0,00000	ENVELOPE_ ULS	Min	-1,317E-15	103,3814	10-1	0,00000
10	0,49197	ENVELOPE_ ULS	Min	-1,417E-15	105,0743	10-1	0,49197
10	0,98394	ENVELOPE_ ULS	Min	-1,517E-15	34,3497	10-1	0,98394
10	0,00000	SLS		2,745E-14	76,5788	10-1	0,00000
10	0,49197	SLS		2,737E-14	78,1492	10-1	0,49197
10	0,98394	SLS		2,730E-14	47,3850	10-1	0,98394
11	0,00000	USL1		1,133E-13	63,9698	11-1	0,00000
11	0,49208	USL1		1,509E-13	42,5918	11-1	0,49208
11	0,98416	USL1		1,886E-13	-29,0363	11-1	0,98416

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
11	0,00000	ULS2		-1,829E-15	34,3497	11-1	0,00000
11	0,49208	ULS2		-1,929E-15	-27,2425	11-1	0,49208
11	0,98416	ULS2		-2,030E-15	-132,0404	11-1	0,98416
11	0,00000	ENVELOPE_ ULS	Max	1,133E-13	63,9698	11-1	0,00000
11	0,49208	ENVELOPE_ ULS	Max	1,509E-13	42,5918	11-1	0,49208
11	0,98416	ENVELOPE_ ULS	Max	1,886E-13	-29,0363	11-1	0,98416
11	0,00000	ENVELOPE_ ULS	Min	-1,829E-15	34,3497	11-1	0,00000
11	0,49208	ENVELOPE_ ULS	Min	-1,929E-15	-27,2425	11-1	0,49208
11	0,98416	ENVELOPE_ ULS	Min	-2,030E-15	-132,0404	11-1	0,98416
11	0,00000	SLS		8,391E-14	47,3850	11-1	0,00000
11	0,49208	SLS		1,118E-13	31,5495	11-1	0,49208
11	0,98416	SLS		1,397E-13	-21,5084	11-1	0,98416
12	0,00000	USL1		3,628E-14	-29,0363	12-1	0,00000
12	0,50938	USL1		7,527E-14	-143,4706	12-1	0,50938
12	1,01876	USL1		1,143E-13	-321,5549	12-1	1,01876
12	0,00000	ULS2		-2,089E-15	-132,0404	12-1	0,00000
12	0,50938	ULS2		-2,193E-15	-276,0641	12-1	0,50938
12	1,01876	ULS2		-2,297E-15	-474,0176	12-1	1,01876
12	0,00000	ENVELOPE_ ULS	Max	3,628E-14	-29,0363	12-1	0,00000
12	0,50938	ENVELOPE_ ULS	Max	7,527E-14	-143,4706	12-1	0,50938
12	1,01876	ENVELOPE_ ULS	Max	1,143E-13	-321,5549	12-1	1,01876
12	0,00000	ENVELOPE_ ULS	Min	-2,089E-15	-132,0404	12-1	0,00000
12	0,50938	ENVELOPE_ ULS	Min	-2,193E-15	-276,0641	12-1	0,50938
12	1,01876	ENVELOPE_ ULS	Min	-2,297E-15	-474,0176	12-1	1,01876
12	0,00000	SLS		2,687E-14	-21,5084	12-1	0,00000
12	0,50938	SLS		5,575E-14	-106,2745	12-1	0,50938
12	1,01876	SLS		8,463E-14	-238,1888	12-1	1,01876
13	0,00000	USL1		1,128E-13	-321,5549	13-1	0,00000
13	0,56894	USL1		1,564E-13	-601,4376	13-1	0,56894
13	1,13787	USL1		1,999E-13	-972,5465	13-1	1,13787
13	0,00000	ULS2		-2,297E-15	-474,0176	13-1	0,00000
13	0,56894	ULS2		-2,413E-15	-763,2047	13-1	0,56894
13	1,13787	ULS2		-2,529E-15	-1128,4986	13-1	1,13787
13	0,00000	ENVELOPE_ ULS	Max	1,128E-13	-321,5549	13-1	0,00000
13	0,56894	ENVELOPE_ ULS	Max	1,564E-13	-601,4376	13-1	0,56894
13	1,13787	ENVELOPE_ ULS	Max	1,999E-13	-972,5465	13-1	1,13787
13	0,00000	ENVELOPE_ ULS	Min	-2,297E-15	-474,0176	13-1	0,00000
13	0,56894	ENVELOPE_ ULS	Min	-2,413E-15	-763,2047	13-1	0,56894
13	1,13787	ENVELOPE_ ULS	Min	-2,529E-15	-1128,4986	13-1	1,13787
13	0,00000	SLS		8,356E-14	-238,1888	13-1	0,00000
13	0,56894	SLS		1,158E-13	-445,5093	13-1	0,56894
13	1,13787	SLS		1,481E-13	-720,4048	13-1	1,13787
14	0,00000	USL1		3,564E-14	-972,5465	14-1	0,00000
14	0,47625	USL1		3,555E-14	-876,9882	14-1	0,47625

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
14	0,95249	USL1		3,545E-14	-812,7078	14-1	0,95249
14	0,00000	ULS2		-2,726E-15	-1128,4986	14-1	0,00000
14	0,47625	ULS2		-2,823E-15	-1077,1174	14-1	0,47625
14	0,95249	ULS2		-2,920E-15	-1044,0161	14-1	0,95249
14	0,00000	ENVELOPE_ ULS	Max	3,564E-14	-972,5465	14-1	0,00000
14	0,47625	ENVELOPE_ ULS	Max	3,555E-14	-876,9882	14-1	0,47625
14	0,95249	ENVELOPE_ ULS	Max	3,545E-14	-812,7078	14-1	0,95249
14	0,00000	ENVELOPE_ ULS	Min	-2,726E-15	-1128,4986	14-1	0,00000
14	0,47625	ENVELOPE_ ULS	Min	-2,823E-15	-1077,1174	14-1	0,47625
14	0,95249	ENVELOPE_ ULS	Min	-2,920E-15	-1044,0161	14-1	0,95249
14	0,00000	SLS		2,640E-14	-720,4048	14-1	0,00000
14	0,47625	SLS		2,633E-14	-649,6209	14-1	0,47625
14	0,95249	SLS		2,626E-14	-602,0058	14-1	0,95249
15	0,00000	USL1		9,300E-14	-812,7078	15-1	0,00000
15	0,47625	USL1		1,981E-14	-788,3413	15-1	0,47625
15	0,95249	USL1		-5,338E-14	-800,4885	15-1	0,95249
15	0,00000	ULS2		-2,920E-15	-1044,0161	15-1	0,00000
15	0,47625	ULS2		-3,018E-15	-1039,1870	15-1	0,47625
15	0,95249	ULS2		-3,115E-15	-1055,2709	15-1	0,95249
15	0,00000	ENVELOPE_ ULS	Max	9,300E-14	-812,7078	15-1	0,00000
15	0,47625	ENVELOPE_ ULS	Max	1,981E-14	-788,3413	15-1	0,47625
15	0,95249	ENVELOPE_ ULS	Max	-3,115E-15	-800,4885	15-1	0,95249
15	0,00000	ENVELOPE_ ULS	Min	-2,920E-15	-1044,0161	15-1	0,00000
15	0,47625	ENVELOPE_ ULS	Min	-3,018E-15	-1039,1870	15-1	0,47625
15	0,95249	ENVELOPE_ ULS	Min	-5,338E-14	-1055,2709	15-1	0,95249
15	0,00000	SLS		6,889E-14	-602,0058	15-1	0,00000
15	0,47625	SLS		1,468E-14	-583,9565	15-1	0,47625
15	0,95249	SLS		-3,954E-14	-592,9544	15-1	0,95249
16	0,00000	USL1		-1,750E-14	-800,4885	16-1	0,00000
16	0,47625	USL1		-3,587E-14	-858,6025	16-1	0,47625
16	0,95249	USL1		-5,424E-14	-958,4662	16-1	0,95249
16	0,00000	ULS2		-3,115E-15	-1055,2709	16-1	0,00000
16	0,47625	ULS2		-3,212E-15	-1103,3458	16-1	0,47625
16	0,95249	ULS2		-3,309E-15	-1174,9517	16-1	0,95249
16	0,00000	ENVELOPE_ ULS	Max	-3,115E-15	-800,4885	16-1	0,00000
16	0,47625	ENVELOPE_ ULS	Max	-3,212E-15	-858,6025	16-1	0,47625
16	0,95249	ENVELOPE_ ULS	Max	-3,309E-15	-958,4662	16-1	0,95249
16	0,00000	ENVELOPE_ ULS	Min	-1,750E-14	-1055,2709	16-1	0,00000
16	0,47625	ENVELOPE_ ULS	Min	-3,587E-14	-1103,3458	16-1	0,47625
16	0,95249	ENVELOPE_ ULS	Min	-5,424E-14	-1174,9517	16-1	0,95249
16	0,00000	SLS		-1,297E-14	-592,9544	16-1	0,00000
16	0,47625	SLS		-2,657E-14	-636,0019	16-1	0,47625
16	0,95249	SLS		-4,018E-14	-709,9749	16-1	0,95249
18	0,00000	USL1		-8,183E-15	-355,9781	18-1	0,00000

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
18	0,47625	USL1		-2,934E-14	-197,3941	18-1	0,47625
18	0,95249	USL1		-5,050E-14	-91,0315	18-1	0,95249
18	0,00000	ULS2		-8,183E-15	-430,0533	18-1	0,00000
18	0,47625	ULS2		-6,501E-15	-225,4268	18-1	0,47625
18	0,95249	ULS2		-4,819E-15	-49,5825	18-1	0,95249
18	0,00000	ENVELOPE_ ULS	Max	-8,183E-15	-355,9781	18-1	0,00000
18	0,47625	ENVELOPE_ ULS	Max	-6,501E-15	-197,3941	18-1	0,47625
18	0,95249	ENVELOPE_ ULS	Max	-4,819E-15	-49,5825	18-1	0,95249
18	0,00000	ENVELOPE_ ULS	Min	-8,183E-15	-430,0533	18-1	0,00000
18	0,47625	ENVELOPE_ ULS	Min	-2,934E-14	-225,4268	18-1	0,47625
18	0,95249	ENVELOPE_ ULS	Min	-5,050E-14	-91,0315	18-1	0,95249
18	0,00000	SLS		-6,061E-15	-263,6875	18-1	0,00000
18	0,47625	SLS		-2,174E-14	-146,2178	18-1	0,47625
18	0,95249	SLS		-3,741E-14	-67,4307	18-1	0,95249
19	0,00000	USL1		-8,098E-14	-91,0315	19-1	0,00000
19	0,38282	USL1		-9,049E-14	-66,9577	19-1	0,38282
19	0,76564	USL1		-9,954E-14	-55,1403	19-1	0,76564
19	0,00000	ULS2		-1,383E-14	-49,5825	19-1	0,00000
19	0,38282	ULS2		-1,600E-14	-78,2861	19-1	0,38282
19	0,76564	ULS2		-1,770E-14	-103,2602	19-1	0,76564
19	0,00000	ENVELOPE_ ULS	Max	-1,383E-14	-49,5825	19-1	0,00000
19	0,38282	ENVELOPE_ ULS	Max	-1,600E-14	-66,9577	19-1	0,38282
19	0,76564	ENVELOPE_ ULS	Max	-1,770E-14	-55,1403	19-1	0,76564
19	0,00000	ENVELOPE_ ULS	Min	-8,098E-14	-91,0315	19-1	0,00000
19	0,38282	ENVELOPE_ ULS	Min	-9,049E-14	-78,2861	19-1	0,38282
19	0,76564	ENVELOPE_ ULS	Min	-9,954E-14	-103,2602	19-1	0,76564
19	0,00000	SLS		-5,999E-14	-67,4307	19-1	0,00000
19	0,38282	SLS		-6,703E-14	-49,5983	19-1	0,38282
19	0,76564	SLS		-7,373E-14	-40,8447	19-1	0,76564
20	0,00000	USL1		-9,444E-14	-55,1403	20-1	0,00000
20	0,36365	USL1		-9,564E-14	-55,2657	20-1	0,36365
20	0,72730	USL1		-9,643E-14	-66,4507	20-1	0,72730
20	0,00000	ULS2		-1,770E-14	-103,2602	20-1	0,00000
20	0,36365	ULS2		-1,890E-14	-123,5297	20-1	0,36365
20	0,72730	ULS2		-1,969E-14	-140,4339	20-1	0,72730
20	0,00000	ENVELOPE_ ULS	Max	-1,770E-14	-55,1403	20-1	0,00000
20	0,36365	ENVELOPE_ ULS	Max	-1,890E-14	-55,2657	20-1	0,36365
20	0,72730	ENVELOPE_ ULS	Max	-1,969E-14	-66,4507	20-1	0,72730
20	0,00000	ENVELOPE_ ULS	Min	-9,444E-14	-103,2602	20-1	0,00000
20	0,36365	ENVELOPE_ ULS	Min	-9,564E-14	-123,5297	20-1	0,36365
20	0,72730	ENVELOPE_ ULS	Min	-9,643E-14	-140,4339	20-1	0,72730
20	0,00000	SLS		-6,996E-14	-40,8447	20-1	0,00000
20	0,36365	SLS		-7,085E-14	-40,9376	20-1	0,36365
20	0,72730	SLS		-7,143E-14	-49,2227	20-1	0,72730

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
21	0,00000	USL1		-2,655E-13	0,8136	21-1	0,00000
21	0,50061	USL1		-2,628E-13	136,5750	21-1	0,50061
21	1,00122	USL1		-2,621E-13	227,7276	21-1	1,00122
21	0,00000	ULS2		-1,607E-14	-114,9505	21-1	0,00000
21	0,50061	ULS2		5,820E-15	64,6692	21-1	0,50061
21	1,00122	ULS2		2,572E-14	227,9980	21-1	1,00122
21	0,00000	ENVELOPE_ ULS	Max	-1,607E-14	0,8136	21-1	0,00000
21	0,50061	ENVELOPE_ ULS	Max	5,820E-15	136,5750	21-1	0,50061
21	1,00122	ENVELOPE_ ULS	Max	2,572E-14	227,9980	21-1	1,00122
21	0,00000	ENVELOPE_ ULS	Min	-2,655E-13	-114,9505	21-1	0,00000
21	0,50061	ENVELOPE_ ULS	Min	-2,628E-13	64,6692	21-1	0,50061
21	1,00122	ENVELOPE_ ULS	Min	-2,621E-13	227,7276	21-1	1,00122
21	0,00000	SLS		-1,966E-13	0,6027	21-1	0,00000
21	0,50061	SLS		-1,947E-13	101,1667	21-1	0,50061
21	1,00122	SLS		-1,941E-13	168,6871	21-1	1,00122
22	0,00000	USL1		-2,423E-13	227,7276	22-1	0,00000
22	0,49901	USL1		-2,092E-13	304,5991	22-1	0,49901
22	0,99802	USL1		-1,776E-13	340,3092	22-1	0,99802
22	0,00000	ULS2		2,632E-14	227,9980	22-1	0,00000
22	0,49901	ULS2		4,020E-14	342,1432	22-1	0,49901
22	0,99802	ULS2		5,269E-14	445,0122	22-1	0,99802
22	0,00000	ENVELOPE_ ULS	Max	2,632E-14	227,9980	22-1	0,00000
22	0,49901	ENVELOPE_ ULS	Max	4,020E-14	342,1432	22-1	0,49901
22	0,99802	ENVELOPE_ ULS	Max	5,269E-14	445,0122	22-1	0,99802
22	0,00000	ENVELOPE_ ULS	Min	-2,423E-13	227,7276	22-1	0,00000
22	0,49901	ENVELOPE_ ULS	Min	-2,092E-13	304,5991	22-1	0,49901
22	0,99802	ENVELOPE_ ULS	Min	-1,776E-13	340,3092	22-1	0,99802
22	0,00000	SLS		-1,795E-13	168,6871	22-1	0,00000
22	0,49901	SLS		-1,550E-13	225,6290	22-1	0,49901
22	0,99802	SLS		-1,316E-13	252,0809	22-1	0,99802
23	0,00000	USL1		-2,151E-13	340,3092	23-1	0,00000
23	0,49922	USL1		-2,276E-13	377,0211	23-1	0,49922
23	0,99844	USL1		-2,405E-13	378,3652	23-1	0,99844
23	0,00000	ULS2		5,346E-14	445,0122	23-1	0,00000
23	0,49922	ULS2		6,019E-14	500,7852	23-1	0,49922
23	0,99844	ULS2		6,640E-14	552,3453	23-1	0,99844
23	0,00000	ENVELOPE_ ULS	Max	5,346E-14	445,0122	23-1	0,00000
23	0,49922	ENVELOPE_ ULS	Max	6,019E-14	500,7852	23-1	0,49922
23	0,99844	ENVELOPE_ ULS	Max	6,640E-14	552,3453	23-1	0,99844
23	0,00000	ENVELOPE_ ULS	Min	-2,151E-13	340,3092	23-1	0,00000
23	0,49922	ENVELOPE_ ULS	Min	-2,276E-13	377,0211	23-1	0,49922
23	0,99844	ENVELOPE_ ULS	Min	-2,405E-13	378,3652	23-1	0,99844
23	0,00000	SLS		-1,594E-13	252,0809	23-1	0,00000
23	0,49922	SLS		-1,686E-13	279,2749	23-1	0,49922

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
23	0,99844	SLS		-1,781E-13	280,2705	23-1	0,99844
24	0,00000	USL1		-2,014E-13	378,3652	24-1	0,00000
24	0,52170	USL1		-8,011E-14	392,7816	24-1	0,52170
24	1,04339	USL1		4,163E-14	376,5682	24-1	1,04339
24	0,00000	ULS2		6,723E-14	552,3453	24-1	0,00000
24	0,52170	ULS2		6,837E-14	562,5063	24-1	0,52170
24	1,04339	ULS2		7,001E-14	576,7592	24-1	1,04339
24	0,00000	ENVELOPE_ ULS	Max	6,723E-14	552,3453	24-1	0,00000
24	0,52170	ENVELOPE_ ULS	Max	6,837E-14	562,5063	24-1	0,52170
24	1,04339	ENVELOPE_ ULS	Max	7,001E-14	576,7592	24-1	1,04339
24	0,00000	ENVELOPE_ ULS	Min	-2,014E-13	378,3652	24-1	0,00000
24	0,52170	ENVELOPE_ ULS	Min	-8,011E-14	392,7816	24-1	0,52170
24	1,04339	ENVELOPE_ ULS	Min	4,163E-14	376,5682	24-1	1,04339
24	0,00000	SLS		-1,492E-13	280,2705	24-1	0,00000
24	0,52170	SLS		-5,934E-14	290,9494	24-1	0,52170
24	1,04339	SLS		3,083E-14	278,9394	24-1	1,04339
25	0,00000	USL1		-5,873E-15	376,5682	25-1	0,00000
25	0,50307	USL1		3,098E-14	390,5706	25-1	0,50307
25	1,00615	USL1		6,831E-14	376,2442	25-1	1,00615
25	0,00000	ULS2		7,087E-14	576,7592	25-1	0,00000
25	0,50307	ULS2		6,911E-14	563,2735	25-1	0,50307
25	1,00615	ULS2		6,784E-14	553,7459	25-1	1,00615
25	0,00000	ENVELOPE_ ULS	Max	7,087E-14	576,7592	25-1	0,00000
25	0,50307	ENVELOPE_ ULS	Max	6,911E-14	563,2735	25-1	0,50307
25	1,00615	ENVELOPE_ ULS	Max	6,831E-14	553,7459	25-1	1,00615
25	0,00000	ENVELOPE_ ULS	Min	-5,873E-15	376,5682	25-1	0,00000
25	0,50307	ENVELOPE_ ULS	Min	3,098E-14	390,5706	25-1	0,50307
25	1,00615	ENVELOPE_ ULS	Min	6,784E-14	376,2442	25-1	1,00615
25	0,00000	SLS		-4,351E-15	278,9394	25-1	0,00000
25	0,50307	SLS		2,295E-14	289,3116	25-1	0,50307
25	1,00615	SLS		5,060E-14	278,6994	25-1	1,00615
26	0,00000	USL1		3,810E-14	-564,1656	26-1	0,00000
26	0,23812	USL1		2,181E-14	-454,0350	26-1	0,23812
26	0,47625	USL1		5,517E-15	-355,9781	26-1	0,47625
26	0,00000	ULS2		-9,864E-15	-662,1455	26-1	0,00000
26	0,23812	ULS2		-9,023E-15	-542,7485	26-1	0,23812
26	0,47625	ULS2		-8,183E-15	-430,0533	26-1	0,47625
26	0,00000	ENVELOPE_ ULS	Max	3,810E-14	-564,1656	26-1	0,00000
26	0,23812	ENVELOPE_ ULS	Max	2,181E-14	-454,0350	26-1	0,23812
26	0,47625	ENVELOPE_ ULS	Max	5,517E-15	-355,9781	26-1	0,47625
26	0,00000	ENVELOPE_ ULS	Min	-9,864E-15	-662,1455	26-1	0,00000
26	0,23812	ENVELOPE_ ULS	Min	-9,023E-15	-542,7485	26-1	0,23812
26	0,47625	ENVELOPE_ ULS	Min	-8,183E-15	-430,0533	26-1	0,47625
26	0,00000	SLS		2,822E-14	-417,9004	26-1	0,00000

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
26	0,23812	SLS		1,615E-14	-336,3223	26-1	0,23812
26	0,47625	SLS		4,086E-15	-263,6875	26-1	0,47625
27	0,00000	USL1		1,454E-13	376,2442	27-1	0,00000
27	0,50047	USL1		1,772E-13	373,0517	27-1	0,50047
27	1,00094	USL1		2,086E-13	334,5996	27-1	1,00094
27	0,00000	ULS2		6,868E-14	553,7459	27-1	0,00000
27	0,50047	ULS2		6,210E-14	500,9071	27-1	0,50047
27	1,00094	ULS2		5,505E-14	444,1199	27-1	1,00094
27	0,00000	ENVELOPE_ ULS	Max	1,454E-13	553,7459	27-1	0,00000
27	0,50047	ENVELOPE_ ULS	Max	1,772E-13	500,9071	27-1	0,50047
27	1,00094	ENVELOPE_ ULS	Max	2,086E-13	444,1199	27-1	1,00094
27	0,00000	ENVELOPE_ ULS	Min	6,868E-14	376,2442	27-1	0,00000
27	0,50047	ENVELOPE_ ULS	Min	6,210E-14	373,0517	27-1	0,50047
27	1,00094	ENVELOPE_ ULS	Min	5,505E-14	334,5996	27-1	1,00094
27	0,00000	SLS		1,077E-13	278,6994	27-1	0,00000
27	0,50047	SLS		1,313E-13	276,3346	27-1	0,50047
27	1,00094	SLS		1,545E-13	247,8516	27-1	1,00094
28	0,00000	USL1		2,093E-13	334,5996	28-1	0,00000
28	0,50102	USL1		2,734E-13	297,5453	28-1	0,50102
28	1,00204	USL1		3,360E-13	219,2387	28-1	1,00204
28	0,00000	ULS2		5,585E-14	444,1199	28-1	0,00000
28	0,50102	ULS2		4,299E-14	339,9309	28-1	0,50102
28	1,00204	ULS2		2,876E-14	224,6161	28-1	1,00204
28	0,00000	ENVELOPE_ ULS	Max	2,093E-13	444,1199	28-1	0,00000
28	0,50102	ENVELOPE_ ULS	Max	2,734E-13	339,9309	28-1	0,50102
28	1,00204	ENVELOPE_ ULS	Max	3,360E-13	224,6161	28-1	1,00204
28	0,00000	ENVELOPE_ ULS	Min	5,585E-14	334,5996	28-1	0,00000
28	0,50102	ENVELOPE_ ULS	Min	4,299E-14	297,5453	28-1	0,50102
28	1,00204	ENVELOPE_ ULS	Min	2,876E-14	219,2387	28-1	1,00204
28	0,00000	SLS		1,551E-13	247,8516	28-1	0,00000
28	0,50102	SLS		2,025E-13	220,4039	28-1	0,50102
28	1,00204	SLS		2,489E-13	162,3990	28-1	1,00204
29	0,00000	USL1		2,597E-13	219,2387	29-1	0,00000
29	0,50160	USL1		2,412E-13	145,1770	29-1	0,50160
29	1,00321	USL1		2,205E-13	25,6298	29-1	1,00321
29	0,00000	ULS2		2,950E-14	224,6161	29-1	0,00000
29	0,50160	ULS2		1,095E-14	73,9230	29-1	0,50160
29	1,00321	ULS2		-9,699E-15	-93,8254	29-1	1,00321
29	0,00000	ENVELOPE_ ULS	Max	2,597E-13	224,6161	29-1	0,00000
29	0,50160	ENVELOPE_ ULS	Max	2,412E-13	145,1770	29-1	0,50160
29	1,00321	ENVELOPE_ ULS	Max	2,205E-13	25,6298	29-1	1,00321
29	0,00000	ENVELOPE_ ULS	Min	2,950E-14	219,2387	29-1	0,00000
29	0,50160	ENVELOPE_ ULS	Min	1,095E-14	73,9230	29-1	0,50160
29	1,00321	ENVELOPE_ ULS	Min	-9,699E-15	-93,8254	29-1	1,00321

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
29	0,00000	SLS		1,924E-13	162,3990	29-1	0,00000
29	0,50160	SLS		1,786E-13	107,5385	29-1	0,50160
29	1,00321	SLS		1,633E-13	18,9850	29-1	1,00321
30	0,00000	USL1		8,014E-14	-57,3457	30-1	0,00000
30	0,38282	USL1		2,399E-14	-47,4571	30-1	0,38282
30	0,76564	USL1		-3,171E-14	-49,8248	30-1	0,76564
30	0,00000	ULS2		-1,578E-14	-132,6107	30-1	0,00000
30	0,38282	ULS2		-1,318E-14	-117,2336	30-1	0,38282
30	0,76564	ULS2		-1,013E-14	-98,1270	30-1	0,76564
30	0,00000	ENVELOPE_ ULS	Max	8,014E-14	-57,3457	30-1	0,00000
30	0,38282	ENVELOPE_ ULS	Max	2,399E-14	-47,4571	30-1	0,38282
30	0,76564	ENVELOPE_ ULS	Max	-1,013E-14	-49,8248	30-1	0,76564
30	0,00000	ENVELOPE_ ULS	Min	-1,578E-14	-132,6107	30-1	0,00000
30	0,38282	ENVELOPE_ ULS	Min	-1,318E-14	-117,2336	30-1	0,38282
30	0,76564	ENVELOPE_ ULS	Min	-3,171E-14	-98,1270	30-1	0,76564
30	0,00000	SLS		5,936E-14	-42,4783	30-1	0,00000
30	0,38282	SLS		1,777E-14	-35,1534	30-1	0,38282
30	0,76564	SLS		-2,349E-14	-36,9073	30-1	0,76564
31	0,00000	USL1		2,824E-14	-49,8248	31-1	0,00000
31	0,38282	USL1		6,113E-14	-64,4489	31-1	0,38282
31	0,76564	USL1		9,448E-14	-91,3294	31-1	0,76564
31	0,00000	ULS2		-1,013E-14	-98,1270	31-1	0,00000
31	0,38282	ULS2		-6,617E-15	-75,2910	31-1	0,38282
31	0,76564	ULS2		-2,648E-15	-48,7255	31-1	0,76564
31	0,00000	ENVELOPE_ ULS	Max	2,824E-14	-49,8248	31-1	0,00000
31	0,38282	ENVELOPE_ ULS	Max	6,113E-14	-64,4489	31-1	0,38282
31	0,76564	ENVELOPE_ ULS	Max	9,448E-14	-48,7255	31-1	0,76564
31	0,00000	ENVELOPE_ ULS	Min	-1,013E-14	-98,1270	31-1	0,00000
31	0,38282	ENVELOPE_ ULS	Min	-6,617E-15	-75,2910	31-1	0,38282
31	0,76564	ENVELOPE_ ULS	Min	-2,648E-15	-91,3294	31-1	0,76564
31	0,00000	SLS		2,092E-14	-36,9073	31-1	0,00000
31	0,38282	SLS		4,528E-14	-47,7400	31-1	0,38282
31	0,76564	SLS		6,998E-14	-67,6514	31-1	0,76564
32	0,00000	USL1		7,128E-14	-91,3294	32-1	0,00000
32	0,47625	USL1		6,855E-14	-199,8256	32-1	0,47625
32	0,95249	USL1		6,231E-14	-360,5431	32-1	0,95249
32	0,00000	ULS2		-5,463E-15	-48,7255	32-1	0,00000
32	0,47625	ULS2		-2,646E-14	-227,4293	32-1	0,47625
32	0,95249	ULS2		-5,098E-14	-434,9154	32-1	0,95249
32	0,00000	ENVELOPE_ ULS	Max	7,128E-14	-48,7255	32-1	0,00000
32	0,47625	ENVELOPE_ ULS	Max	6,855E-14	-199,8256	32-1	0,47625
32	0,95249	ENVELOPE_ ULS	Max	6,231E-14	-360,5431	32-1	0,95249
32	0,00000	ENVELOPE_ ULS	Min	-5,463E-15	-91,3294	32-1	0,00000
32	0,47625	ENVELOPE_ ULS	Min	-2,646E-14	-227,4293	32-1	0,47625

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
32	0,95249	ENVELOPE_ ULS	Min	-5,098E-14	-434,9154	32-1	0,95249
32	0,00000	SLS		5,280E-14	-67,6514	32-1	0,00000
32	0,47625	SLS		5,078E-14	-148,0189	32-1	0,47625
32	0,95249	SLS		4,615E-14	-267,0690	32-1	0,95249
34	0,00000	USL1		4,972E-14	-971,0545	34-1	0,00000
34	0,47625	USL1		5,871E-14	-868,7352	34-1	0,47625
34	0,95249	USL1		6,482E-14	-808,1655	34-1	0,95249
34	0,00000	ULS2		-1,421E-13	-1187,6033	34-1	0,00000
34	0,47625	ULS2		-1,331E-13	-1113,3690	34-1	0,47625
34	0,95249	ULS2		-1,270E-13	-1062,6657	34-1	0,95249
34	0,00000	ENVELOPE_ ULS	Max	4,972E-14	-971,0545	34-1	0,00000
34	0,47625	ENVELOPE_ ULS	Max	5,871E-14	-868,7352	34-1	0,47625
34	0,95249	ENVELOPE_ ULS	Max	6,482E-14	-808,1655	34-1	0,95249
34	0,00000	ENVELOPE_ ULS	Min	-1,421E-13	-1187,6033	34-1	0,00000
34	0,47625	ENVELOPE_ ULS	Min	-1,331E-13	-1113,3690	34-1	0,47625
34	0,95249	ENVELOPE_ ULS	Min	-1,270E-13	-1062,6657	34-1	0,95249
34	0,00000	SLS		3,683E-14	-719,2996	34-1	0,00000
34	0,47625	SLS		4,349E-14	-643,5076	34-1	0,47625
34	0,95249	SLS		4,802E-14	-598,6411	34-1	0,95249
35	0,00000	USL1		-2,151E-14	-808,1655	35-1	0,00000
35	0,47625	USL1		-2,390E-14	-793,7510	35-1	0,47625
35	0,95249	USL1		-2,885E-14	-815,8501	35-1	0,95249
35	0,00000	ULS2		-1,270E-13	-1062,6657	35-1	0,00000
35	0,47625	ULS2		-1,248E-13	-1044,0716	35-1	0,47625
35	0,95249	ULS2		-1,252E-13	-1046,3906	35-1	0,95249
35	0,00000	ENVELOPE_ ULS	Max	-2,151E-14	-808,1655	35-1	0,00000
35	0,47625	ENVELOPE_ ULS	Max	-2,390E-14	-793,7510	35-1	0,47625
35	0,95249	ENVELOPE_ ULS	Max	-2,885E-14	-815,8501	35-1	0,95249
35	0,00000	ENVELOPE_ ULS	Min	-1,270E-13	-1062,6657	35-1	0,00000
35	0,47625	ENVELOPE_ ULS	Min	-1,248E-13	-1044,0716	35-1	0,47625
35	0,95249	ENVELOPE_ ULS	Min	-1,252E-13	-1046,3906	35-1	0,95249
35	0,00000	SLS		-1,593E-14	-598,6411	35-1	0,00000
35	0,47625	SLS		-1,770E-14	-587,9637	35-1	0,47625
35	0,95249	SLS		-2,137E-14	-604,3334	35-1	0,95249
36	0,00000	USL1		-4,849E-14	-815,8501	36-1	0,00000
36	0,47625	USL1		-7,983E-14	-878,4605	36-1	0,47625
36	0,95249	USL1		-1,134E-13	-972,3486	36-1	0,95249
36	0,00000	ULS2		-1,252E-13	-1046,3906	36-1	0,00000
36	0,47625	ULS2		-1,292E-13	-1077,7165	36-1	0,47625
36	0,95249	ULS2		-1,353E-13	-1127,3222	36-1	0,95249
36	0,00000	ENVELOPE_ ULS	Max	-4,849E-14	-815,8501	36-1	0,00000
36	0,47625	ENVELOPE_ ULS	Max	-7,983E-14	-878,4605	36-1	0,47625
36	0,95249	ENVELOPE_ ULS	Max	-1,134E-13	-972,3486	36-1	0,95249
36	0,00000	ENVELOPE_ ULS	Min	-1,252E-13	-1046,3906	36-1	0,00000

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
36	0,47625	ENVELOPE_ ULS	Min	-1,292E-13	-1077,7165	36-1	0,47625
36	0,95249	ENVELOPE_ ULS	Min	-1,353E-13	-1127,3222	36-1	0,95249
36	0,00000	SLS		-3,592E-14	-604,3334	36-1	0,00000
36	0,47625	SLS		-5,913E-14	-650,7115	36-1	0,47625
36	0,95249	SLS		-8,401E-14	-720,2583	36-1	0,95249
37	0,00000	USL1		-3,016E-15	-360,5431	37-1	0,00000
37	0,23812	USL1		-1,655E-14	-459,6669	37-1	0,23812
37	0,47625	USL1		-3,090E-14	-570,8642	37-1	0,47625
37	0,00000	ULS2		-5,098E-14	-434,9154	37-1	0,00000
37	0,23812	ULS2		-6,451E-14	-549,0403	37-1	0,23812
37	0,47625	ULS2		-7,886E-14	-669,8671	37-1	0,47625
37	0,00000	ENVELOPE_ ULS	Max	-3,016E-15	-360,5431	37-1	0,00000
37	0,23812	ENVELOPE_ ULS	Max	-1,655E-14	-459,6669	37-1	0,23812
37	0,47625	ENVELOPE_ ULS	Max	-3,090E-14	-570,8642	37-1	0,47625
37	0,00000	ENVELOPE_ ULS	Min	-5,098E-14	-434,9154	37-1	0,00000
37	0,23812	ENVELOPE_ ULS	Min	-6,451E-14	-549,0403	37-1	0,23812
37	0,47625	ENVELOPE_ ULS	Min	-7,886E-14	-669,8671	37-1	0,47625
37	0,00000	SLS		-2,234E-15	-267,0690	37-1	0,00000
37	0,23812	SLS		-1,226E-14	-340,4940	37-1	0,23812
37	0,47625	SLS		-2,289E-14	-422,8624	37-1	0,47625
38	0,00000	USL1		7,486E-14	-1124,6973	38-1	0,00000
38	0,23812	USL1		4,532E-14	-1042,1664	38-1	0,23812
38	0,47625	USL1		1,499E-14	-971,0545	38-1	0,47625
38	0,00000	ULS2		-1,554E-13	-1296,3545	38-1	0,00000
38	0,23812	ULS2		-1,484E-13	-1238,7925	38-1	0,23812
38	0,47625	ULS2		-1,421E-13	-1187,6033	38-1	0,47625
38	0,00000	ENVELOPE_ ULS	Max	7,486E-14	-1124,6973	38-1	0,00000
38	0,23812	ENVELOPE_ ULS	Max	4,532E-14	-1042,1664	38-1	0,23812
38	0,47625	ENVELOPE_ ULS	Max	1,499E-14	-971,0545	38-1	0,47625
38	0,00000	ENVELOPE_ ULS	Min	-1,554E-13	-1296,3545	38-1	0,00000
38	0,23812	ENVELOPE_ ULS	Min	-1,484E-13	-1238,7925	38-1	0,23812
38	0,47625	ENVELOPE_ ULS	Min	-1,421E-13	-1187,6033	38-1	0,47625
38	0,00000	SLS		5,546E-14	-833,1091	38-1	0,00000
38	0,23812	SLS		3,357E-14	-771,9751	38-1	0,23812
38	0,47625	SLS		1,111E-14	-719,2996	38-1	0,47625
39	0,00000	USL1		1,402E-13	82,9754	39-1	0,00000
39	1,04715	USL1		9,606E-14	-245,6303	39-1	1,04715
39	2,09431	USL1		5,440E-14	-553,8332	39-1	2,09431
39	0,00000	ULS2		5,923E-15	38,7853	39-1	0,00000
39	1,04715	ULS2		-3,823E-14	-304,0525	39-1	1,04715
39	2,09431	ULS2		-7,989E-14	-626,4874	39-1	2,09431
39	0,00000	ENVELOPE_ ULS	Max	1,402E-13	82,9754	39-1	0,00000
39	1,04715	ENVELOPE_ ULS	Max	9,606E-14	-245,6303	39-1	1,04715
39	2,09431	ENVELOPE_ ULS	Max	5,440E-14	-553,8332	39-1	2,09431

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
39	0,00000	ENVELOPE_ ULS	Min	5,923E-15	38,7853	39-1	0,00000
39	1,04715	ENVELOPE_ ULS	Min	-3,823E-14	-304,0525	39-1	1,04715
39	2,09431	ENVELOPE_ ULS	Min	-7,989E-14	-626,4874	39-1	2,09431
39	0,00000	SLS		1,039E-13	61,4633	39-1	0,00000
39	1,04715	SLS		7,116E-14	-181,9484	39-1	1,04715
39	2,09431	SLS		4,030E-14	-410,2468	39-1	2,09431
40	0,00000	USL1		1,806E-13	67,2643	40-1	0,00000
40	1,03322	USL1		1,138E-13	-249,0383	40-1	1,03322
40	2,06644	USL1		4,931E-14	-545,7135	40-1	2,06644
40	0,00000	ULS2		1,519E-16	25,4834	40-1	0,00000
40	1,03322	ULS2		-4,440E-14	-306,7881	40-1	1,03322
40	2,06644	ULS2		-8,655E-14	-619,4323	40-1	2,06644
40	0,00000	ENVELOPE_ ULS	Max	1,806E-13	67,2643	40-1	0,00000
40	1,03322	ENVELOPE_ ULS	Max	1,138E-13	-249,0383	40-1	1,03322
40	2,06644	ENVELOPE_ ULS	Max	4,931E-14	-545,7135	40-1	2,06644
40	0,00000	ENVELOPE_ ULS	Min	1,519E-16	25,4834	40-1	0,00000
40	1,03322	ENVELOPE_ ULS	Min	-4,440E-14	-306,7881	40-1	1,03322
40	2,06644	ENVELOPE_ ULS	Min	-8,655E-14	-619,4323	40-1	2,06644
40	0,00000	SLS		1,338E-13	49,8254	40-1	0,00000
40	1,03322	SLS		8,426E-14	-184,4728	40-1	1,03322
40	2,06644	SLS		3,653E-14	-404,2322	40-1	2,06644

Table: Element Joint Forces - Frames, Part 1 of 2

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
1	28	USL1	Combination		-270,433	5,776E-14	-1425,077	-5,127E-14
1	35	USL1	Combination		366,343	-5,776E-14	1449,316	9,933E-14
1	28	ULS2	Combination		-197,357	2,041E-16	-1289,673	-3,309E-15
1	35	ULS2	Combination		250,881	-2,041E-16	1313,912	3,406E-15
1	28	ENVELOPE_ ULS	Combination	Max	-197,357	5,776E-14	-1289,673	-3,309E-15
1	35	ENVELOPE_ ULS	Combination	Max	366,343	-2,041E-16	1449,316	9,933E-14
1	28	ENVELOPE_ ULS	Combination	Min	-270,433	2,041E-16	-1425,077	-5,127E-14
1	35	ENVELOPE_ ULS	Combination	Min	250,881	-5,776E-14	1313,912	3,406E-15
1	28	SLS	Combination		-200,321	4,278E-14	-1055,613	-3,798E-14
1	35	SLS	Combination		271,365	-4,278E-14	1073,568	7,358E-14
2	11	USL1	Combination		240,155	3,857E-14	1281,699	1,471E-15
2	12	USL1	Combination		-359,224	-3,857E-14	-939,527	-4,420E-14
2	11	ULS2	Combination		139,803	2,041E-16	1145,878	-2,726E-15
2	12	ULS2	Combination		-220,650	-2,041E-16	-841,928	2,559E-15
2	11	ENVELOPE_ ULS	Combination	Max	240,155	3,857E-14	1281,699	1,471E-15
2	12	ENVELOPE_ ULS	Combination	Max	-220,650	-2,041E-16	-841,928	2,559E-15
2	11	ENVELOPE_ ULS	Combination	Min	139,803	2,041E-16	1145,878	-2,726E-15

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
2	12	ENVELOPE_	Combination	Min	-359,224	-3,857E-14	-939,527	-4,420E-14
		ULS						
2	11	SLS	Combination		177,892	2,857E-14	949,407	1,089E-15
2	12	SLS	Combination		-266,092	-2,857E-14	-695,946	-3,274E-14
3	12	USL1	Combination		359,224	-3,817E-14	939,527	8,257E-14
3	13	USL1	Combination		-448,475	3,817E-14	-673,312	-8,991E-14
3	12	ULS2	Combination		220,650	2,041E-16	841,928	-2,559E-15
3	13	ULS2	Combination		-282,759	-2,041E-16	-602,856	2,411E-15
3	12	ENVELOPE_	Combination	Max	359,224	2,041E-16	939,527	8,257E-14
		ULS						
3	13	ENVELOPE_	Combination	Max	-282,759	3,817E-14	-602,856	2,411E-15
		ULS						
3	12	ENVELOPE_	Combination	Min	220,650	-3,817E-14	841,928	-2,559E-15
		ULS						
3	13	ENVELOPE_	Combination	Min	-448,475	-2,041E-16	-673,312	-8,991E-14
		ULS						
3	12	SLS	Combination		266,092	-2,827E-14	695,946	6,117E-14
3	13	SLS	Combination		-332,204	2,827E-14	-498,750	-6,660E-14
4	13	USL1	Combination		448,475	5,176E-14	673,312	1,247E-13
4	14	USL1	Combination		-519,539	-5,176E-14	-459,880	-1,296E-13
4	13	ULS2	Combination		282,759	2,041E-16	602,856	-2,411E-15
4	14	ULS2	Combination		-334,453	-2,041E-16	-410,718	2,275E-15
4	13	ENVELOPE_	Combination	Max	448,475	5,176E-14	673,312	1,247E-13
		ULS						
4	14	ENVELOPE_	Combination	Max	-334,453	-2,041E-16	-410,718	2,275E-15
		ULS						
4	13	ENVELOPE_	Combination	Min	282,759	2,041E-16	602,856	-2,411E-15
		ULS						
4	14	ENVELOPE_	Combination	Min	-519,539	-5,176E-14	-459,880	-1,296E-13
		ULS						
4	13	SLS	Combination		332,204	3,834E-14	498,750	9,236E-14
4	14	SLS	Combination		-384,843	-3,834E-14	-340,652	-9,601E-14
5	14	USL1	Combination		519,539	6,255E-14	459,880	1,418E-13
5	15	USL1	Combination		-575,246	-6,255E-14	-285,225	-1,483E-13
5	14	ULS2	Combination		334,453	2,041E-16	410,718	-2,275E-15
5	15	ULS2	Combination		-379,004	-2,041E-16	-254,724	2,172E-15
5	14	ENVELOPE_	Combination	Max	519,539	6,255E-14	459,880	1,418E-13
		ULS						
5	15	ENVELOPE_	Combination	Max	-379,004	-2,041E-16	-254,724	2,172E-15
		ULS						
5	14	ENVELOPE_	Combination	Min	334,453	2,041E-16	410,718	-2,275E-15
		ULS						
5	15	ENVELOPE_	Combination	Min	-575,246	-6,255E-14	-285,225	-1,483E-13
		ULS						
5	14	SLS	Combination		384,843	4,634E-14	340,652	1,050E-13
5	15	SLS	Combination		-426,108	-4,634E-14	-211,278	-1,099E-13
6	15	USL1	Combination		575,246	-1,185E-13	285,225	1,311E-13
6	16	USL1	Combination		-620,108	1,185E-13	-136,655	-8,842E-14
6	15	ULS2	Combination		379,004	2,041E-16	254,724	-2,172E-15
6	16	ULS2	Combination		-418,469	-2,041E-16	-121,993	2,107E-15
6	15	ENVELOPE_	Combination	Max	575,246	2,041E-16	285,225	1,311E-13
		ULS						
6	16	ENVELOPE_	Combination	Max	-418,469	1,185E-13	-121,993	2,107E-15
		ULS						
6	15	ENVELOPE_	Combination	Min	379,004	-1,185E-13	254,724	-2,172E-15
		ULS						
6	16	ENVELOPE_	Combination	Min	-620,108	-2,041E-16	-136,655	-8,842E-14
		ULS						
6	15	SLS	Combination		426,108	-8,778E-14	211,278	9,715E-14
6	16	SLS	Combination		-459,339	8,778E-14	-101,226	-6,550E-14
7	16	USL1	Combination		620,108	-1,101E-13	136,655	9,370E-14
7	17	USL1	Combination		-660,675	1,101E-13	1,378	-7,900E-14

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
7	16	ULS2	Combination		418,469	2,041E-16	121,993	-2,107E-15
7	17	ULS2	Combination		-457,379	-2,041E-16	1,233	2,083E-15
7	16	ENVELOPE_ ULS	Combination	Max	620,108	2,041E-16	136,655	9,370E-14
7	17	ENVELOPE_ ULS	Combination	Max	-457,379	1,101E-13	1,378	2,083E-15
7	16	ENVELOPE_ ULS	Combination	Min	418,469	-1,101E-13	121,993	-2,107E-15
7	17	ENVELOPE_ ULS	Combination	Min	-660,675	-2,041E-16	1,233	-7,900E-14
7	16	SLS	Combination		459,339	-8,156E-14	101,226	6,941E-14
7	17	SLS	Combination		-489,389	8,156E-14	1,021	-5,852E-14
8	17	USL1	Combination		660,675	-6,335E-14	-1,378	9,163E-14
8	18	USL1	Combination		-618,607	6,335E-14	144,303	-1,087E-13
8	17	ULS2	Combination		457,379	2,041E-16	-1,233	-2,083E-15
8	18	ULS2	Combination		-417,089	-2,041E-16	128,832	2,109E-15
8	17	ENVELOPE_ ULS	Combination	Max	660,675	2,041E-16	-1,233	9,163E-14
8	18	ENVELOPE_ ULS	Combination	Max	-417,089	6,335E-14	144,303	2,109E-15
8	17	ENVELOPE_ ULS	Combination	Min	457,379	-6,335E-14	-1,378	-2,083E-15
8	18	ENVELOPE_ ULS	Combination	Min	-618,607	-2,041E-16	128,832	-1,087E-13
8	17	SLS	Combination		489,389	-4,692E-14	-1,021	6,787E-14
8	18	SLS	Combination		-458,227	4,692E-14	106,891	-8,048E-14
9	18	USL1	Combination		618,607	6,016E-14	-144,303	1,012E-13
9	19	USL1	Combination		-573,742	-6,016E-14	292,442	-8,925E-14
9	18	ULS2	Combination		417,089	2,041E-16	-128,832	-2,109E-15
9	19	ULS2	Combination		-377,726	-2,041E-16	261,215	2,175E-15
9	18	ENVELOPE_ ULS	Combination	Max	618,607	6,016E-14	-128,832	1,012E-13
9	19	ENVELOPE_ ULS	Combination	Max	-377,726	-2,041E-16	292,442	2,175E-15
9	18	ENVELOPE_ ULS	Combination	Min	417,089	2,041E-16	-144,303	-2,109E-15
9	19	ENVELOPE_ ULS	Combination	Min	-573,742	-6,016E-14	261,215	-8,925E-14
9	18	SLS	Combination		458,227	4,456E-14	-106,891	7,499E-14
9	19	SLS	Combination		-424,994	-4,456E-14	216,624	-6,611E-14
10	19	USL1	Combination		573,742	-2,977E-14	-292,442	1,155E-13
10	20	USL1	Combination		-518,137	2,977E-14	466,294	-9,304E-14
10	19	ULS2	Combination		377,726	2,041E-16	-261,215	-2,175E-15
10	20	ULS2	Combination		-333,361	-2,041E-16	416,562	2,279E-15
10	19	ENVELOPE_ ULS	Combination	Max	573,742	2,041E-16	-261,215	1,155E-13
10	20	ENVELOPE_ ULS	Combination	Max	-333,361	2,977E-14	466,294	2,279E-15
10	19	ENVELOPE_ ULS	Combination	Min	377,726	-2,977E-14	-292,442	-2,175E-15
10	20	ENVELOPE_ ULS	Combination	Min	-518,137	-2,041E-16	416,562	-9,304E-14
10	19	SLS	Combination		424,994	-2,205E-14	-216,624	8,554E-14
10	20	SLS	Combination		-383,805	2,205E-14	345,403	-6,892E-14
11	20	USL1	Combination		518,137	-3,337E-14	-466,294	7,026E-14
11	21	USL1	Combination		-447,369	3,337E-14	678,506	-5,934E-14
11	20	ULS2	Combination		333,361	2,041E-16	-416,562	-2,279E-15
11	21	ULS2	Combination		-281,943	-2,041E-16	607,671	2,415E-15
11	20	ENVELOPE_ ULS	Combination	Max	518,137	2,041E-16	-416,562	7,026E-14
11	21	ENVELOPE_ ULS	Combination	Max	-281,943	3,337E-14	678,506	2,415E-15

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
11	20	ENVELOPE_ ULS	Combination	Min	333,361	-3,337E-14	-466,294	-2,279E-15
11	21	ENVELOPE_ ULS	Combination	Min	-447,369	-2,041E-16	607,671	-5,934E-14
11	20	SLS	Combination		383,805	-2,472E-14	-345,403	5,205E-14
11	21	SLS	Combination		-331,384	2,472E-14	502,597	-4,395E-14
12	21	USL1	Combination		447,369	-9,572E-14	-678,506	7,912E-14
12	22	USL1	Combination		-358,629	9,572E-14	943,194	-5,020E-14
12	21	ULS2	Combination		281,943	2,041E-16	-607,671	-2,415E-15
12	22	ULS2	Combination		-220,191	-2,041E-16	845,373	2,562E-15
12	21	ENVELOPE_ ULS	Combination	Max	447,369	2,041E-16	-607,671	7,912E-14
12	22	ENVELOPE_ ULS	Combination	Max	-220,191	9,572E-14	943,194	2,562E-15
12	21	ENVELOPE_ ULS	Combination	Min	281,943	-9,572E-14	-678,506	-2,415E-15
12	22	ENVELOPE_ ULS	Combination	Min	-358,629	-2,041E-16	845,373	-5,020E-14
12	21	SLS	Combination		331,384	-7,090E-14	-502,597	5,861E-14
12	22	SLS	Combination		-265,651	7,090E-14	698,663	-3,718E-14
13	22	USL1	Combination		358,629	-1,245E-13	-943,194	5,020E-14
13	31	USL1	Combination		-241,552	1,245E-13	1279,642	-1,561E-13
13	22	ULS2	Combination		220,191	2,041E-16	-845,373	-2,562E-15
13	31	ULS2	Combination		-140,696	-2,041E-16	1144,237	2,726E-15
13	22	ENVELOPE_ ULS	Combination	Max	358,629	2,041E-16	-845,373	5,020E-14
13	31	ENVELOPE_ ULS	Combination	Max	-140,696	1,245E-13	1279,642	2,726E-15
13	22	ENVELOPE_ ULS	Combination	Min	220,191	-1,245E-13	-943,194	-2,562E-15
13	31	ENVELOPE_ ULS	Combination	Min	-241,552	-2,041E-16	1144,237	-1,561E-13
13	22	SLS	Combination		265,651	-9,222E-14	-698,663	3,718E-14
13	31	SLS	Combination		-178,927	9,222E-14	947,883	-1,157E-13
14	31	USL1	Combination		231,654	2,041E-16	-1279,642	4,284E-14
14	30	USL1	Combination		-100,303	-2,041E-16	1328,120	-5,463E-14
14	31	ULS2	Combination		126,158	2,041E-16	-1144,237	-2,726E-15
14	30	ULS2	Combination		-49,392	-2,041E-16	1192,716	2,920E-15
14	31	ENVELOPE_ ULS	Combination	Max	231,654	2,041E-16	-1144,237	4,284E-14
14	30	ENVELOPE_ ULS	Combination	Max	-49,392	-2,041E-16	1328,120	2,920E-15
14	31	ENVELOPE_ ULS	Combination	Min	126,158	2,041E-16	-1279,642	-2,726E-15
14	30	ENVELOPE_ ULS	Combination	Min	-100,303	-2,041E-16	1192,716	-5,463E-14
14	31	SLS	Combination		171,596	1,512E-16	-947,883	3,173E-14
14	30	SLS	Combination		-74,299	-1,512E-16	983,793	-4,047E-14
15	30	USL1	Combination		87,666	1,633E-13	-1328,120	8,341E-14
15	29	USL1	Combination		65,673	-1,633E-13	1376,599	4,148E-14
15	30	ULS2	Combination		31,175	2,041E-16	-1192,716	-2,920E-15
15	29	ULS2	Combination		56,650	-2,041E-16	1241,194	3,115E-15
15	30	ENVELOPE_ ULS	Combination	Max	87,666	1,633E-13	-1192,716	8,341E-14
15	29	ENVELOPE_ ULS	Combination	Max	65,673	-2,041E-16	1376,599	4,148E-14
15	30	ENVELOPE_ ULS	Combination	Min	31,175	2,041E-16	-1328,120	-2,920E-15
15	29	ENVELOPE_ ULS	Combination	Min	56,650	-1,633E-13	1241,194	3,115E-15
15	30	SLS	Combination		64,938	1,209E-13	-983,793	6,179E-14
15	29	SLS	Combination		48,647	-1,209E-13	1019,703	3,073E-14

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
16	29	USL1	Combination		-80,026	3,857E-14	-1376,599	-1,750E-14
16	28	USL1	Combination		255,353	-3,857E-14	1425,077	6,086E-14
16	29	ULS2	Combination		-77,152	2,041E-16	-1241,194	-3,115E-15
16	28	ULS2	Combination		175,970	-2,041E-16	1289,673	3,309E-15
16	29	ENVELOPE_ ULS	Combination	Max	-77,152	3,857E-14	-1241,194	-3,115E-15
16	28	ENVELOPE_ ULS	Combination	Max	255,353	-2,041E-16	1425,077	6,086E-14
16	29	ENVELOPE_ ULS	Combination	Min	-80,026	2,041E-16	-1376,599	-1,750E-14
16	28	ENVELOPE_ ULS	Combination	Min	175,970	-3,857E-14	1289,673	3,309E-15
16	29	SLS	Combination		-59,278	2,857E-14	-1019,703	-1,297E-14
16	28	SLS	Combination		189,151	-2,857E-14	1055,613	4,508E-14
18	27	USL1	Combination		385,981	4,923E-14	-260,127	-1,298E-14
18	32	USL1	Combination		-166,677	-4,923E-14	284,366	5,278E-14
18	27	ULS2	Combination		458,962	-3,531E-15	-187,162	-8,183E-15
18	32	ULS2	Combination		-338,090	3,531E-15	211,401	4,819E-15
18	27	ENVELOPE_ ULS	Combination	Max	458,962	4,923E-14	-187,162	-8,183E-15
18	32	ENVELOPE_ ULS	Combination	Max	-166,677	3,531E-15	284,366	5,278E-14
18	27	ENVELOPE_ ULS	Combination	Min	385,981	-3,531E-15	-260,127	-1,298E-14
18	32	ENVELOPE_ ULS	Combination	Min	-338,090	-4,923E-14	211,401	4,819E-15
18	27	SLS	Combination		285,912	3,646E-14	-192,687	-9,614E-15
18	32	SLS	Combination		-123,464	-3,646E-14	210,642	3,910E-14
19	32	USL1	Combination		166,677	4,954E-14	-78,893	-4,798E-14
19	33	USL1	Combination		-166,677	-3,932E-14	14,861	4,798E-14
19	32	ULS2	Combination		338,090	-3,531E-15	79,850	-4,819E-15
19	33	ULS2	Combination		-338,090	3,531E-15	-60,366	4,819E-15
19	32	ENVELOPE_ ULS	Combination	Max	338,090	4,954E-14	79,850	-4,819E-15
19	33	ENVELOPE_ ULS	Combination	Max	-166,677	3,531E-15	14,861	4,798E-14
19	32	ENVELOPE_ ULS	Combination	Min	166,677	-3,531E-15	-78,893	-4,798E-14
19	33	ENVELOPE_ ULS	Combination	Min	-338,090	-3,932E-14	-60,366	4,819E-15
19	32	SLS	Combination		123,464	3,670E-14	-58,439	-3,554E-14
19	33	SLS	Combination		-123,464	-2,912E-14	11,008	3,554E-14
20	33	USL1	Combination		166,677	2,411E-14	-14,861	-5,278E-14
20	9	USL1	Combination		-166,677	-1,439E-14	-45,964	5,278E-14
20	33	ULS2	Combination		338,090	-3,531E-15	60,366	-4,819E-15
20	9	ULS2	Combination		-338,090	3,531E-15	-41,858	4,819E-15
20	33	ENVELOPE_ ULS	Combination	Max	338,090	2,411E-14	60,366	-4,819E-15
20	9	ENVELOPE_ ULS	Combination	Max	-166,677	3,531E-15	-41,858	5,278E-14
20	33	ENVELOPE_ ULS	Combination	Min	166,677	-3,531E-15	-14,861	-5,278E-14
20	9	ENVELOPE_ ULS	Combination	Min	-338,090	-1,439E-14	-45,964	4,819E-15
20	33	SLS	Combination		123,464	1,786E-14	-11,008	-3,910E-14
20	9	SLS	Combination		-123,464	-1,066E-14	-34,047	3,910E-14
21	9	USL1	Combination		-687,054	-2,533E-14	-1005,848	-1,504E-13
21	8	USL1	Combination		897,674	3,918E-14	951,920	1,206E-13
21	9	ULS2	Combination		-428,041	2,041E-16	-862,215	-3,698E-15
21	8	ULS2	Combination		564,896	-2,041E-16	894,064	3,831E-15
21	9	ENVELOPE_ ULS	Combination	Max	-428,041	2,041E-16	-862,215	-3,698E-15

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
21	8	ENVELOPE_ ULS	Combination	Max	897,674	3,918E-14	951,920	1,206E-13
21	9	ENVELOPE_ ULS	Combination	Min	-687,054	-2,533E-14	-1005,848	-1,504E-13
21	8	ENVELOPE_ ULS	Combination	Min	564,896	-2,041E-16	894,064	3,831E-15
21	9	SLS	Combination		-508,929	-1,876E-14	-745,073	-1,114E-13
21	8	SLS	Combination		664,943	2,902E-14	705,126	8,932E-14
22	8	USL1	Combination		-897,674	-3,320E-15	-751,856	-1,288E-13
22	7	USL1	Combination		1101,750	1,799E-14	680,278	1,160E-13
22	8	ULS2	Combination		-564,896	2,041E-16	-609,200	-3,831E-15
22	7	ULS2	Combination		708,386	-2,041E-16	640,948	3,934E-15
22	8	ENVELOPE_ ULS	Combination	Max	-564,896	2,041E-16	-609,200	-3,831E-15
22	7	ENVELOPE_ ULS	Combination	Max	1101,750	1,799E-14	680,278	1,160E-13
22	8	ENVELOPE_ ULS	Combination	Min	-897,674	-3,320E-15	-751,856	-1,288E-13
22	7	ENVELOPE_ ULS	Combination	Min	708,386	-2,041E-16	640,948	3,934E-15
22	8	SLS	Combination		-664,943	-2,459E-15	-556,930	-9,542E-14
22	7	SLS	Combination		816,111	1,332E-14	503,910	8,595E-14
23	7	USL1	Combination		-1101,750	-2,936E-14	-481,980	-9,106E-14
23	6	USL1	Combination		1289,787	4,465E-14	395,340	1,022E-13
23	7	ULS2	Combination		-708,386	2,041E-16	-358,439	-3,934E-15
23	6	ULS2	Combination		856,924	-2,041E-16	390,199	3,999E-15
23	7	ENVELOPE_ ULS	Combination	Max	-708,386	2,041E-16	-358,439	-3,934E-15
23	6	ENVELOPE_ ULS	Combination	Max	1289,787	4,465E-14	395,340	1,022E-13
23	7	ENVELOPE_ ULS	Combination	Min	-1101,750	-2,936E-14	-481,980	-9,106E-14
23	6	ENVELOPE_ ULS	Combination	Min	856,924	-2,041E-16	390,199	3,999E-15
23	7	SLS	Combination		-816,111	-2,175E-14	-357,022	-6,745E-14
23	6	SLS	Combination		955,398	3,307E-14	292,845	7,572E-14
24	6	USL1	Combination		-1289,787	-2,267E-13	-198,192	-1,083E-13
24	5	USL1	Combination		1463,494	2,430E-13	99,061	8,360E-14
24	6	ULS2	Combination		-856,924	2,041E-16	-109,302	-3,999E-15
24	5	ULS2	Combination		1016,164	-2,041E-16	142,493	4,022E-15
24	6	ENVELOPE_ ULS	Combination	Max	-856,924	2,041E-16	-109,302	-3,999E-15
24	5	ENVELOPE_ ULS	Combination	Max	1463,494	2,430E-13	142,493	8,360E-14
24	6	ENVELOPE_ ULS	Combination	Min	-1289,787	-2,267E-13	-198,192	-1,083E-13
24	5	ENVELOPE_ ULS	Combination	Min	1016,164	-2,041E-16	99,061	4,022E-15
24	6	SLS	Combination		-955,398	-1,679E-13	-146,809	-8,023E-14
24	5	SLS	Combination		1084,070	1,800E-13	73,378	6,193E-14
25	5	USL1	Combination		-1463,494	-1,454E-13	97,786	-8,232E-14
25	4	USL1	Combination		1296,486	1,611E-13	-193,432	9,197E-14
25	5	ULS2	Combination		-1016,164	2,041E-16	137,967	-4,022E-15
25	4	ULS2	Combination		862,608	-2,041E-16	-105,961	4,000E-15
25	5	ENVELOPE_ ULS	Combination	Max	-1016,164	2,041E-16	137,967	-4,022E-15
25	4	ENVELOPE_ ULS	Combination	Max	1296,486	1,611E-13	-105,961	9,197E-14
25	5	ENVELOPE_ ULS	Combination	Min	-1463,494	-1,454E-13	97,786	-8,232E-14
25	4	ENVELOPE_ ULS	Combination	Min	862,608	-2,041E-16	-193,432	4,000E-15

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
25	5	SLS	Combination		-1084,070	-1,077E-13	72,434	-6,098E-14
25	4	SLS	Combination		960,360	1,193E-13	-143,283	6,812E-14
26	35	USL1	Combination		487,388	7,321E-14	-248,007	3,810E-14
26	27	USL1	Combination		-385,981	-7,321E-14	260,127	-1,410E-15
26	35	ULS2	Combination		515,250	-3,531E-15	-175,042	-9,864E-15
26	27	ULS2	Combination		-458,962	3,531E-15	187,162	8,183E-15
26	35	ENVELOPE_ ULS	Combination	Max	515,250	7,321E-14	-175,042	3,810E-14
26	27	ENVELOPE_ ULS	Combination	Max	-385,981	3,531E-15	260,127	8,183E-15
26	35	ENVELOPE_ ULS	Combination	Min	487,388	-3,531E-15	-248,007	-9,864E-15
26	27	ENVELOPE_ ULS	Combination	Min	-458,962	-7,321E-14	187,162	-1,410E-15
26	35	SLS	Combination		361,028	5,423E-14	-183,709	2,822E-14
26	27	SLS	Combination		-285,912	-5,423E-14	192,687	-1,044E-15
27	4	USL1	Combination		-1296,486	-2,327E-14	390,907	-7,859E-14
27	3	USL1	Combination		1108,874	3,859E-14	-478,059	9,306E-14
27	4	ULS2	Combination		-862,608	2,041E-16	387,331	-4,000E-15
27	3	ULS2	Combination		713,698	-2,041E-16	-355,491	3,937E-15
27	4	ENVELOPE_ ULS	Combination	Max	-862,608	2,041E-16	390,907	-4,000E-15
27	3	ENVELOPE_ ULS	Combination	Max	1108,874	3,859E-14	-355,491	9,306E-14
27	4	ENVELOPE_ ULS	Combination	Min	-1296,486	-2,327E-14	387,331	-7,859E-14
27	3	ENVELOPE_ ULS	Combination	Min	713,698	-2,041E-16	-478,059	3,937E-15
27	4	SLS	Combination		-960,360	-1,724E-14	289,561	-5,821E-14
27	3	SLS	Combination		821,388	2,859E-14	-354,118	6,893E-14
28	3	USL1	Combination		-1108,874	-9,189E-14	676,992	-1,206E-13
28	2	USL1	Combination		904,688	1,066E-13	-749,272	1,591E-13
28	3	ULS2	Combination		-713,698	2,041E-16	638,927	-3,937E-15
28	2	ULS2	Combination		569,629	-2,041E-16	-607,052	3,835E-15
28	3	ENVELOPE_ ULS	Combination	Max	-713,698	2,041E-16	676,992	-3,937E-15
28	2	ENVELOPE_ ULS	Combination	Max	904,688	1,066E-13	-607,052	1,591E-13
28	3	ENVELOPE_ ULS	Combination	Min	-1108,874	-9,189E-14	638,927	-1,206E-13
28	2	ENVELOPE_ ULS	Combination	Min	569,629	-2,041E-16	-749,272	3,835E-15
28	3	SLS	Combination		-821,388	-6,806E-14	501,476	-8,930E-14
28	2	SLS	Combination		670,139	7,897E-14	-555,017	1,179E-13
29	2	USL1	Combination		-904,688	2,402E-14	950,251	-1,608E-13
29	1	USL1	Combination		691,736	-1,013E-14	-1002,602	1,687E-13
29	2	ULS2	Combination		-569,629	2,041E-16	893,269	-3,835E-15
29	1	ULS2	Combination		432,503	-2,041E-16	-861,357	3,698E-15
29	2	ENVELOPE_ ULS	Combination	Max	-569,629	2,402E-14	950,251	-3,835E-15
29	1	ENVELOPE_ ULS	Combination	Max	691,736	-2,041E-16	-861,357	1,687E-13
29	2	ENVELOPE_ ULS	Combination	Min	-904,688	2,041E-16	893,269	-1,608E-13
29	1	ENVELOPE_ ULS	Combination	Min	432,503	-1,013E-14	-1002,602	3,698E-15
29	2	SLS	Combination		-670,139	1,779E-14	703,890	-1,191E-13
29	1	SLS	Combination		512,397	-7,507E-15	-742,668	1,250E-13
30	1	USL1	Combination		171,157	1,184E-13	-41,839	-4,607E-14
30	34	USL1	Combination		-171,157	-1,081E-13	-22,193	4,607E-14
30	1	ULS2	Combination		344,095	-1,869E-15	-35,297	-5,040E-16
30	34	ULS2	Combination		-344,095	1,869E-15	54,781	5,040E-16

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
30	1	ENVELOPE_ ULS	Combination	Max	344,095	1,184E-13	-35,297	-5,040E-16
30	34	ENVELOPE_ ULS	Combination	Max	-171,157	1,869E-15	54,781	4,607E-14
30	1	ENVELOPE_ ULS	Combination	Min	171,157	-1,869E-15	-41,839	-4,607E-14
30	34	ENVELOPE_ ULS	Combination	Min	-344,095	-1,081E-13	-22,193	5,040E-16
30	1	SLS	Combination		126,783	8,767E-14	-30,992	-3,412E-14
30	34	SLS	Combination		-126,783	-8,009E-14	-16,439	3,412E-14
31	34	USL1	Combination		171,157	-8,069E-14	22,193	-4,697E-14
31	10	USL1	Combination		-171,157	9,092E-14	-86,225	4,507E-14
31	34	ULS2	Combination		344,095	-1,869E-15	-54,781	-5,040E-16
31	10	ULS2	Combination		-344,095	1,869E-15	74,265	5,040E-16
31	34	ENVELOPE_ ULS	Combination	Max	344,095	-1,869E-15	22,193	-5,040E-16
31	10	ENVELOPE_ ULS	Combination	Max	-171,157	9,092E-14	74,265	4,507E-14
31	34	ENVELOPE_ ULS	Combination	Min	171,157	-8,069E-14	-54,781	-4,697E-14
31	10	ENVELOPE_ ULS	Combination	Min	-344,095	1,869E-15	-86,225	5,040E-16
31	34	SLS	Combination		126,783	-5,977E-14	16,439	-3,479E-14
31	10	SLS	Combination		-126,783	6,734E-14	-63,870	3,339E-14
32	10	USL1	Combination		171,157	2,184E-14	293,404	-6,974E-14
32	23	USL1	Combination		-390,461	-9,787E-15	-269,165	5,290E-14
32	10	ULS2	Combination		344,095	-1,869E-15	219,511	-5,040E-16
32	23	ULS2	Combination		-464,966	1,869E-15	-195,271	2,284E-15
32	10	ENVELOPE_ ULS	Combination	Max	344,095	2,184E-14	293,404	-5,040E-16
32	23	ENVELOPE_ ULS	Combination	Max	-390,461	1,869E-15	-195,271	5,290E-14
32	10	ENVELOPE_ ULS	Combination	Min	171,157	-1,869E-15	219,511	-6,974E-14
32	23	ENVELOPE_ ULS	Combination	Min	-464,966	-9,787E-15	-269,165	2,284E-15
32	10	SLS	Combination		126,783	1,618E-14	217,337	-5,166E-14
32	23	SLS	Combination		-289,230	-7,250E-15	-199,382	3,918E-14
34	24	USL1	Combination		-260,510	-1,315E-14	1427,134	-1,745E-13
34	25	USL1	Combination		85,182	2,252E-14	-1378,656	1,408E-13
34	24	ULS2	Combination		-181,489	2,041E-16	1291,313	-3,309E-15
34	25	ULS2	Combination		82,671	-2,041E-16	-1242,835	3,115E-15
34	24	ENVELOPE_ ULS	Combination	Max	-181,489	2,041E-16	1427,134	-3,309E-15
34	25	ENVELOPE_ ULS	Combination	Max	85,182	2,252E-14	-1242,835	1,408E-13
34	24	ENVELOPE_ ULS	Combination	Min	-260,510	-1,315E-14	1291,313	-1,745E-13
34	25	ENVELOPE_ ULS	Combination	Min	82,671	-2,041E-16	-1378,656	3,115E-15
34	24	SLS	Combination		-192,970	-9,742E-15	1057,137	-1,293E-13
34	25	SLS	Combination		63,098	1,668E-14	-1021,227	1,043E-13
35	25	USL1	Combination		-70,434	3,558E-14	1378,656	-8,831E-14
35	26	USL1	Combination		-82,905	-2,755E-14	-1330,178	6,418E-14
35	25	ULS2	Combination		-61,921	2,041E-16	1242,835	-3,115E-15
35	26	ULS2	Combination		-25,904	-2,041E-16	-1194,357	2,920E-15
35	25	ENVELOPE_ ULS	Combination	Max	-61,921	3,558E-14	1378,656	-3,115E-15
35	26	ENVELOPE_ ULS	Combination	Max	-25,904	-2,041E-16	-1194,357	6,418E-14
35	25	ENVELOPE_ ULS	Combination	Min	-70,434	2,041E-16	1242,835	-8,831E-14

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
35	26	ENVELOPE_	Combination	Min	-82,905	-2,755E-14	-1330,178	2,920E-15
		ULS						
35	25	SLS	Combination		-52,173	2,635E-14	1021,227	-6,542E-14
35	26	SLS	Combination		-61,411	-2,041E-14	-985,317	4,754E-14
36	26	USL1	Combination		96,796	5,652E-14	1330,178	-4,089E-14
36	11	USL1	Combination		-228,147	-4,984E-14	-1281,699	-2,873E-14
36	26	ULS2	Combination		45,664	2,041E-16	1194,357	-2,920E-15
36	11	ULS2	Combination		-122,430	-2,041E-16	-1145,878	2,726E-15
36	26	ENVELOPE_	Combination	Max	96,796	5,652E-14	1330,178	-2,920E-15
		ULS						
36	11	ENVELOPE_	Combination	Max	-122,430	-2,041E-16	-1145,878	2,726E-15
		ULS						
36	26	ENVELOPE_	Combination	Min	45,664	2,041E-16	1194,357	-4,089E-14
		ULS						
36	11	ENVELOPE_	Combination	Min	-228,147	-4,984E-14	-1281,699	-2,873E-14
		ULS						
36	26	SLS	Combination		71,701	4,187E-14	985,317	-3,029E-14
36	11	SLS	Combination		-168,998	-3,692E-14	-949,407	-2,128E-14
37	23	USL1	Combination		390,461	-2,718E-14	269,165	-3,916E-14
37	36	USL1	Combination		-491,868	3,271E-14	-257,046	7,331E-14
37	23	ULS2	Combination		464,966	-1,869E-15	195,271	-2,284E-15
37	36	ULS2	Combination		-521,255	1,869E-15	-183,152	3,174E-15
37	23	ENVELOPE_	Combination	Max	464,966	-1,869E-15	269,165	-2,284E-15
		ULS						
37	36	ENVELOPE_	Combination	Max	-491,868	3,271E-14	-183,152	7,331E-14
		ULS						
37	23	ENVELOPE_	Combination	Min	390,461	-2,718E-14	195,271	-3,916E-14
		ULS						
37	36	ENVELOPE_	Combination	Min	-521,255	1,869E-15	-257,046	3,174E-15
		ULS						
37	23	SLS	Combination		289,230	-2,014E-14	199,382	-2,901E-14
37	36	SLS	Combination		-364,346	2,423E-14	-190,404	5,430E-14
38	36	USL1	Combination		-371,025	1,168E-13	1451,374	-2,671E-13
38	24	USL1	Combination		275,116	-1,116E-13	-1427,134	1,812E-13
38	36	ULS2	Combination		-255,343	2,041E-16	1315,552	-3,406E-15
38	24	ULS2	Combination		201,819	-2,041E-16	-1291,313	3,309E-15
38	36	ENVELOPE_	Combination	Max	-255,343	1,168E-13	1451,374	-3,406E-15
		ULS						
38	24	ENVELOPE_	Combination	Max	275,116	-2,041E-16	-1291,313	1,812E-13
		ULS						
38	36	ENVELOPE_	Combination	Min	-371,025	2,041E-16	1315,552	-2,671E-13
		ULS						
38	24	ENVELOPE_	Combination	Min	201,819	-1,116E-13	-1427,134	3,309E-15
		ULS						
38	36	SLS	Combination		-274,833	8,648E-14	1075,092	-1,979E-13
38	24	SLS	Combination		203,789	-8,264E-14	-1057,137	1,343E-13
39	1	USL1	Combination		-862,893	2,066E-14	1247,624	-1,135E-13
39	36	USL1	Combination		862,893	-2,066E-14	-1194,328	7,937E-14
39	1	ULS2	Combination		-776,598	2,073E-15	1185,697	-3,194E-15
39	36	ULS2	Combination		776,598	-2,073E-15	-1132,401	2,328E-16
39	1	ENVELOPE_	Combination	Max	-776,598	2,066E-14	1247,624	-3,194E-15
		ULS						
39	36	ENVELOPE_	Combination	Max	862,893	-2,073E-15	-1132,401	7,937E-14
		ULS						
39	1	ENVELOPE_	Combination	Min	-862,893	2,073E-15	1185,697	-1,135E-13
		ULS						
39	36	ENVELOPE_	Combination	Min	776,598	-2,066E-14	-1194,328	2,328E-16
		ULS						
39	1	SLS	Combination		-639,180	1,530E-14	924,166	-8,408E-14
39	36	SLS	Combination		639,180	-1,530E-14	-884,688	5,879E-14
40	9	USL1	Combination		853,730	-2,112E-14	1253,896	1,008E-13
40	35	USL1	Combination		-853,730	2,112E-14	-1201,309	-5,349E-14

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
40	9	ULS2	Combination		766,131	-3,735E-15	1191,457	-1,121E-15
40	35	ULS2	Combination		-766,131	3,735E-15	-1138,870	6,458E-15
40	9	ENVELOPE_ ULS	Combination	Max	853,730	-3,735E-15	1253,896	1,008E-13
40	35	ENVELOPE_ ULS	Combination	Max	-766,131	2,112E-14	-1138,870	6,458E-15
40	9	ENVELOPE_ ULS	Combination	Min	766,131	-2,112E-14	1191,457	-1,121E-15
40	35	ENVELOPE_ ULS	Combination	Min	-853,730	3,735E-15	-1201,309	-5,349E-14
40	9	SLS	Combination		632,393	-1,565E-14	928,812	7,466E-14
40	35	SLS	Combination		-632,393	1,565E-14	-889,859	-3,963E-14

Table: Element Joint Forces - Frames, Part 2 of 2

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem
1	28	USL1		-958,4662	1,622E-13	1-1
1	35	USL1		1109,8791	-1,622E-13	1-1
1	28	ULS2		-1174,9517	-8,504E-16	1-1
1	35	ULS2		1281,5778	8,504E-16	1-1
1	28	ENVELOPE_ ULS	Max	-958,4662	1,622E-13	1-1
1	35	ENVELOPE_ ULS	Max	1281,5778	8,504E-16	1-1
1	28	ENVELOPE_ ULS	Min	-1174,9517	-8,504E-16	1-1
1	35	ENVELOPE_ ULS	Min	1109,8791	-1,622E-13	1-1
1	28	SLS		-709,9749	1,202E-13	1-1
1	35	SLS		822,1327	-1,202E-13	1-1
2	11	USL1		-972,3486	-1,139E-13	2-1
2	12	USL1		310,6424	1,764E-13	2-1
2	11	ULS2		-1127,3222	1,230E-15	2-1
2	12	ULS2		462,2791	-1,063E-15	2-1
2	11	ENVELOPE_ ULS	Max	-972,3486	1,230E-15	2-1
2	12	ENVELOPE_ ULS	Max	462,2791	1,764E-13	2-1
2	11	ENVELOPE_ ULS	Min	-1127,3222	-1,139E-13	2-1
2	12	ENVELOPE_ ULS	Min	310,6424	-1,063E-15	2-1
2	11	SLS		-720,2583	-8,435E-14	2-1
2	12	SLS		230,1055	1,307E-13	2-1
3	12	USL1		-310,6424	-2,381E-13	3-1
3	13	USL1		20,2704	2,053E-13	3-1
3	12	ULS2		-462,2791	1,063E-15	3-1
3	13	ULS2		121,7864	-9,152E-16	3-1
3	12	ENVELOPE_ ULS	Max	-310,6424	1,063E-15	3-1
3	13	ENVELOPE_ ULS	Max	121,7864	2,053E-13	3-1
3	12	ENVELOPE_ ULS	Min	-462,2791	-2,381E-13	3-1
3	13	ENVELOPE_ ULS	Min	20,2704	-9,152E-16	3-1
3	12	SLS		-230,1055	-1,764E-13	3-1
3	13	SLS		15,0151	1,521E-13	3-1
4	13	USL1		-20,2704	-1,843E-13	4-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2	M3	FrameElem
				KN-m	KN-m	
4	14	USL1		-71,1101	1,995E-13	4-1
4	13	ULS2		-121,7864	9,152E-16	4-1
4	14	ULS2		-43,2459	-7,659E-16	4-1
4	13	ENVELOPE_ ULS	Max	-20,2704	9,152E-16	4-1
4	14	ENVELOPE_ ULS	Max	-43,2459	1,995E-13	4-1
4	13	ENVELOPE_ ULS	Min	-121,7864	-1,843E-13	4-1
4	14	ENVELOPE_ ULS	Min	-71,1101	-7,659E-16	4-1
4	13	SLS		-15,0151	-1,365E-13	4-1
4	14	SLS		-52,6742	1,478E-13	4-1
5	14	USL1		71,1101	-2,229E-13	5-1
5	15	USL1		-108,7298	2,656E-13	5-1
5	14	ULS2		43,2459	7,659E-16	5-1
5	15	ULS2		-144,2660	-5,928E-16	5-1
5	14	ENVELOPE_ ULS	Max	71,1101	7,659E-16	5-1
5	15	ENVELOPE_ ULS	Max	-108,7298	2,656E-13	5-1
5	14	ENVELOPE_ ULS	Min	43,2459	-2,229E-13	5-1
5	15	ENVELOPE_ ULS	Min	-144,2660	-5,928E-16	5-1
5	14	SLS		52,6742	-1,651E-13	5-1
5	15	SLS		-80,5406	1,967E-13	5-1
6	15	USL1		108,7298	-2,098E-13	6-1
6	16	USL1		-115,1744	7,394E-14	6-1
6	15	ULS2		144,2660	5,928E-16	6-1
6	16	ULS2		-193,2716	-4,020E-16	6-1
6	15	ENVELOPE_ ULS	Max	144,2660	5,928E-16	6-1
6	16	ENVELOPE_ ULS	Max	-115,1744	7,394E-14	6-1
6	15	ENVELOPE_ ULS	Min	108,7298	-2,098E-13	6-1
6	16	ENVELOPE_ ULS	Min	-193,2716	-4,020E-16	6-1
6	15	SLS		80,5406	-1,554E-13	6-1
6	16	SLS		-85,3144	5,477E-14	6-1
7	16	USL1		115,1744	-1,466E-13	7-1
7	17	USL1		-110,7830	-4,216E-14	7-1
7	16	ULS2		193,2716	4,020E-16	7-1
7	17	ULS2		-205,0429	-1,898E-16	7-1
7	16	ENVELOPE_ ULS	Max	193,2716	4,020E-16	7-1
7	17	ENVELOPE_ ULS	Max	-110,7830	-1,898E-16	7-1
7	16	ENVELOPE_ ULS	Min	115,1744	-1,466E-13	7-1
7	17	ENVELOPE_ ULS	Min	-205,0429	-4,216E-14	7-1
7	16	SLS		85,3144	-1,086E-13	7-1
7	17	SLS		-82,0615	-3,123E-14	7-1
8	17	USL1		110,7830	-2,844E-14	8-1
8	18	USL1		-112,4174	-1,007E-13	8-1
8	17	ULS2		205,0429	1,898E-16	8-1
8	18	ULS2		-189,6651	2,976E-17	8-1
8	17	ENVELOPE_ ULS	Max	205,0429	1,898E-16	8-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem
8	18	ENVELOPE_ ULS	Max	-112,4174	2,976E-17	8-1
8	17	ENVELOPE_ ULS	Min	110,7830	-2,844E-14	8-1
8	18	ENVELOPE_ ULS	Min	-189,6651	-1,007E-13	8-1
8	17	SLS		82,0615	-2,106E-14	8-1
8	18	SLS		-83,2721	-7,458E-14	8-1
9	18	USL1		112,4174	5,992E-14	9-1
9	19	USL1		-103,3814	-7,052E-14	9-1
9	18	ULS2		189,6651	-2,976E-17	9-1
9	19	ULS2		-137,4733	2,195E-16	9-1
9	18	ENVELOPE_ ULS	Max	189,6651	5,992E-14	9-1
9	19	ENVELOPE_ ULS	Max	-103,3814	2,195E-16	9-1
9	18	ENVELOPE_ ULS	Min	112,4174	-2,976E-17	9-1
9	19	ENVELOPE_ ULS	Min	-137,4733	-7,052E-14	9-1
9	18	SLS		83,2721	4,439E-14	9-1
9	19	SLS		-76,5788	-5,224E-14	9-1
10	19	USL1		103,3814	1,177E-14	10-1
10	20	USL1		-63,9698	3,988E-15	10-1
10	19	ULS2		137,4733	-2,195E-16	10-1
10	20	ULS2		-34,3497	3,912E-16	10-1
10	19	ENVELOPE_ ULS	Max	137,4733	1,177E-14	10-1
10	20	ENVELOPE_ ULS	Max	-34,3497	3,988E-15	10-1
10	19	ENVELOPE_ ULS	Min	103,3814	-2,195E-16	10-1
10	20	ENVELOPE_ ULS	Min	-63,9698	3,912E-16	10-1
10	19	SLS		76,5788	8,719E-15	10-1
10	20	SLS		-47,3850	2,954E-15	10-1
11	20	USL1		63,9698	2,779E-14	11-1
11	21	USL1		29,0363	2,812E-14	11-1
11	20	ULS2		34,3497	-3,912E-16	11-1
11	21	ULS2		132,0404	5,392E-16	11-1
11	20	ENVELOPE_ ULS	Max	63,9698	2,779E-14	11-1
11	21	ENVELOPE_ ULS	Max	132,0404	2,812E-14	11-1
11	20	ENVELOPE_ ULS	Min	34,3497	-3,912E-16	11-1
11	21	ENVELOPE_ ULS	Min	29,0363	5,392E-16	11-1
11	20	SLS		47,3850	2,058E-14	11-1
11	21	SLS		21,5084	2,083E-14	11-1
12	21	USL1		-29,0363	8,454E-15	12-1
12	22	USL1		321,5549	-7,605E-14	12-1
12	21	ULS2		-132,0404	-5,392E-16	12-1
12	22	ULS2		474,0176	6,862E-16	12-1
12	21	ENVELOPE_ ULS	Max	-29,0363	8,454E-15	12-1
12	22	ENVELOPE_ ULS	Max	474,0176	6,862E-16	12-1
12	21	ENVELOPE_ ULS	Min	-132,0404	-5,392E-16	12-1
12	22	ENVELOPE_ ULS	Min	321,5549	-7,605E-14	12-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2	M3	FrameElem
				KN-m	KN-m	
12	21	SLS		-21,5084	6,262E-15	12-1
12	22	SLS		238,1888	-5,634E-14	12-1
13	22	USL1		-321,5549	7,365E-14	13-1
13	31	USL1		972,5465	-1,718E-13	13-1
13	22	ULS2		-474,0176	-6,862E-16	13-1
13	31	ULS2		1128,4986	8,504E-16	13-1
13	22	ENVELOPE_ ULS	Max	-321,5549	7,365E-14	13-1
13	31	ENVELOPE_ ULS	Max	1128,4986	8,504E-16	13-1
13	22	ENVELOPE_ ULS	Min	-474,0176	-6,862E-16	13-1
13	31	ENVELOPE_ ULS	Min	972,5465	-1,718E-13	13-1
13	22	SLS		-238,1888	5,456E-14	13-1
13	31	SLS		720,4048	-1,273E-13	13-1
14	31	USL1		-972,5465	1,670E-13	14-1
14	30	USL1		812,7078	-1,670E-13	14-1
14	31	ULS2		-1128,4986	-8,504E-16	14-1
14	30	ULS2		1044,0161	8,504E-16	14-1
14	31	ENVELOPE_ ULS	Max	-972,5465	1,670E-13	14-1
14	30	ENVELOPE_ ULS	Max	1044,0161	8,504E-16	14-1
14	31	ENVELOPE_ ULS	Min	-1128,4986	-8,504E-16	14-1
14	30	ENVELOPE_ ULS	Min	812,7078	-1,670E-13	14-1
14	31	SLS		-720,4048	1,237E-13	14-1
14	30	SLS		602,0058	-1,237E-13	14-1
15	30	USL1		-812,7078	1,670E-13	15-1
15	29	USL1		800,4885	-1,670E-13	15-1
15	30	ULS2		-1044,0161	-8,504E-16	15-1
15	29	ULS2		1055,2709	8,504E-16	15-1
15	30	ENVELOPE_ ULS	Max	-812,7078	1,670E-13	15-1
15	29	ENVELOPE_ ULS	Max	1055,2709	8,504E-16	15-1
15	30	ENVELOPE_ ULS	Min	-1044,0161	-8,504E-16	15-1
15	29	ENVELOPE_ ULS	Min	800,4885	-1,670E-13	15-1
15	30	SLS		-602,0058	1,237E-13	15-1
15	29	SLS		592,9544	-1,237E-13	15-1
16	29	USL1		-800,4885	1,646E-13	16-1
16	28	USL1		958,4662	-1,646E-13	16-1
16	29	ULS2		-1055,2709	-8,504E-16	16-1
16	28	ULS2		1174,9517	8,504E-16	16-1
16	29	ENVELOPE_ ULS	Max	-800,4885	1,646E-13	16-1
16	28	ENVELOPE_ ULS	Max	1174,9517	8,504E-16	16-1
16	29	ENVELOPE_ ULS	Min	-1055,2709	-8,504E-16	16-1
16	28	ENVELOPE_ ULS	Min	958,4662	-1,646E-13	16-1
16	29	SLS		-592,9544	1,219E-13	16-1
16	28	SLS		709,9749	-1,219E-13	16-1
18	27	USL1		-355,9781	6,592E-14	18-1
18	32	USL1		91,0315	-6,592E-14	18-1
18	27	ULS2		-430,0533	7,762E-15	18-1
18	32	ULS2		49,5825	-7,762E-15	18-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2	M3	FrameElem
				KN-m	KN-m	
18	27	ENVELOPE_ ULS	Max	-355,9781	6,592E-14	18-1
18	32	ENVELOPE_ ULS	Max	91,0315	-7,762E-15	18-1
18	27	ENVELOPE_ ULS	Min	-430,0533	7,762E-15	18-1
18	32	ENVELOPE_ ULS	Min	49,5825	-6,592E-14	18-1
18	27	SLS		-263,6875	4,883E-14	18-1
18	32	SLS		67,4307	-4,883E-14	18-1
19	32	USL1		-91,0315	7,306E-14	19-1
19	33	USL1		55,1403	-9,074E-14	19-1
19	32	ULS2		-49,5825	7,762E-15	19-1
19	33	ULS2		103,2602	-5,059E-15	19-1
19	32	ENVELOPE_ ULS	Max	-49,5825	7,306E-14	19-1
19	33	ENVELOPE_ ULS	Max	103,2602	-5,059E-15	19-1
19	32	ENVELOPE_ ULS	Min	-91,0315	7,762E-15	19-1
19	33	ENVELOPE_ ULS	Min	55,1403	-9,074E-14	19-1
19	32	SLS		-67,4307	5,412E-14	19-1
19	33	SLS		40,8447	-6,721E-14	19-1
20	33	USL1		-55,1403	9,500E-14	20-1
20	9	USL1		66,4507	-1,146E-13	20-1
20	33	ULS2		-103,2602	5,059E-15	20-1
20	9	ULS2		140,4339	-2,491E-15	20-1
20	33	ENVELOPE_ ULS	Max	-55,1403	9,500E-14	20-1
20	9	ENVELOPE_ ULS	Max	140,4339	-2,491E-15	20-1
20	33	ENVELOPE_ ULS	Min	-103,2602	5,059E-15	20-1
20	9	ENVELOPE_ ULS	Min	66,4507	-1,146E-13	20-1
20	33	SLS		-40,8447	7,037E-14	20-1
20	9	SLS		49,2227	-8,490E-14	20-1
21	9	USL1		0,8136	2,678E-13	21-1
21	8	USL1		-227,7276	-2,349E-13	21-1
21	9	ULS2		-114,9505	-5,457E-16	21-1
21	8	ULS2		-227,9980	3,908E-16	21-1
21	9	ENVELOPE_ ULS	Max	0,8136	2,678E-13	21-1
21	8	ENVELOPE_ ULS	Max	-227,7276	3,908E-16	21-1
21	9	ENVELOPE_ ULS	Min	-114,9505	-5,457E-16	21-1
21	8	ENVELOPE_ ULS	Min	-227,9980	-2,349E-13	21-1
21	9	SLS		0,6027	1,983E-13	21-1
21	8	SLS		-168,6871	-1,740E-13	21-1
22	8	USL1		227,7276	2,183E-13	22-1
22	7	USL1		-340,3092	-1,990E-13	22-1
22	8	ULS2		227,9980	-3,908E-16	22-1
22	7	ULS2		-445,0122	2,151E-16	22-1
22	8	ENVELOPE_ ULS	Max	227,9980	2,183E-13	22-1
22	7	ENVELOPE_ ULS	Max	-340,3092	2,151E-16	22-1
22	8	ENVELOPE_ ULS	Min	227,7276	-3,908E-16	22-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem
22	7	ENVELOPE_ ULS	Min	-445,0122	-1,990E-13	22-1
22	8	SLS		168,6871	1,617E-13	22-1
22	7	SLS		-252,0809	-1,474E-13	22-1
23	7	USL1		340,3092	2,597E-13	23-1
23	6	USL1		-378,3652	-2,386E-13	23-1
23	7	ULS2		445,0122	-2,151E-16	23-1
23	6	ULS2		-552,3453	2,183E-17	23-1
23	7	ENVELOPE_ ULS	Max	445,0122	2,597E-13	23-1
23	6	ENVELOPE_ ULS	Max	-378,3652	2,183E-17	23-1
23	7	ENVELOPE_ ULS	Min	340,3092	-2,151E-16	23-1
23	6	ENVELOPE_ ULS	Min	-552,3453	-2,386E-13	23-1
23	7	SLS		252,0809	1,923E-13	23-1
23	6	SLS		-280,2705	-1,767E-13	23-1
24	6	USL1		378,3652	2,391E-13	24-1
24	5	USL1		-376,5682	-6,832E-14	24-1
24	6	ULS2		552,3453	-2,183E-17	24-1
24	5	ULS2		-576,7592	-1,898E-16	24-1
24	6	ENVELOPE_ ULS	Max	552,3453	2,391E-13	24-1
24	5	ENVELOPE_ ULS	Max	-376,5682	-1,898E-16	24-1
24	6	ENVELOPE_ ULS	Min	378,3652	-2,183E-17	24-1
24	5	ENVELOPE_ ULS	Min	-576,7592	-6,832E-14	24-1
24	6	SLS		280,2705	1,771E-13	24-1
24	5	SLS		-278,9394	-5,061E-14	24-1
25	5	USL1		376,5682	1,020E-13	25-1
25	4	USL1		-376,2442	2,730E-14	25-1
25	5	ULS2		576,7592	1,898E-16	25-1
25	4	ULS2		-553,7459	-3,940E-16	25-1
25	5	ENVELOPE_ ULS	Max	576,7592	1,020E-13	25-1
25	4	ENVELOPE_ ULS	Max	-376,2442	2,730E-14	25-1
25	5	ENVELOPE_ ULS	Min	376,5682	1,898E-16	25-1
25	4	ENVELOPE_ ULS	Min	-553,7459	-3,940E-16	25-1
25	5	SLS		278,9394	7,555E-14	25-1
25	4	SLS		-278,6994	2,022E-14	25-1
26	35	USL1		-564,1656	6,652E-14	26-1
26	27	USL1		355,9781	-6,652E-14	26-1
26	35	ULS2		-662,1455	7,762E-15	26-1
26	27	ULS2		430,0533	-7,762E-15	26-1
26	35	ENVELOPE_ ULS	Max	-564,1656	6,652E-14	26-1
26	27	ENVELOPE_ ULS	Max	430,0533	-7,762E-15	26-1
26	35	ENVELOPE_ ULS	Min	-662,1455	7,762E-15	26-1
26	27	ENVELOPE_ ULS	Min	355,9781	-6,652E-14	26-1
26	35	SLS		-417,9004	4,927E-14	26-1
26	27	SLS		263,6875	-4,927E-14	26-1
27	4	USL1		376,2442	-9,045E-14	27-1
27	3	USL1		-334,5996	2,940E-14	27-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2	M3	FrameElem
				KN-m	KN-m	
27	4	ULS2		553,7459	3,940E-16	27-1
27	3	ULS2		-444,1199	-5,883E-16	27-1
27	4	ENVELOPE_ ULS	Max	553,7459	3,940E-16	27-1
27	3	ENVELOPE_ ULS	Max	-334,5996	2,940E-14	27-1
27	4	ENVELOPE_ ULS	Min	376,2442	-9,045E-14	27-1
27	3	ENVELOPE_ ULS	Min	-444,1199	-5,883E-16	27-1
27	4	SLS		278,6994	-6,700E-14	27-1
27	3	SLS		-247,8516	2,178E-14	27-1
28	3	USL1		334,5996	-1,021E-13	28-1
28	2	USL1		-219,2387	1,861E-13	28-1
28	3	ULS2		444,1199	5,883E-16	28-1
28	2	ULS2		-224,6161	-7,654E-16	28-1
28	3	ENVELOPE_ ULS	Max	444,1199	5,883E-16	28-1
28	2	ENVELOPE_ ULS	Max	-219,2387	1,861E-13	28-1
28	3	ENVELOPE_ ULS	Min	334,5996	-1,021E-13	28-1
28	2	ENVELOPE_ ULS	Min	-224,6161	-7,654E-16	28-1
28	3	SLS		247,8516	-7,563E-14	28-1
28	2	SLS		-162,3990	1,379E-13	28-1
29	2	USL1		219,2387	-1,877E-13	29-1
29	1	USL1		-25,6298	1,594E-13	29-1
29	2	ULS2		224,6161	7,654E-16	29-1
29	1	ULS2		93,8254	-9,176E-16	29-1
29	2	ENVELOPE_ ULS	Max	224,6161	7,654E-16	29-1
29	1	ENVELOPE_ ULS	Max	93,8254	1,594E-13	29-1
29	2	ENVELOPE_ ULS	Min	219,2387	-1,877E-13	29-1
29	1	ENVELOPE_ ULS	Min	-25,6298	-9,176E-16	29-1
29	2	SLS		162,3990	-1,391E-13	29-1
29	1	SLS		-18,9850	1,181E-13	29-1
30	1	USL1		-57,3457	-5,806E-14	30-1
30	34	USL1		49,8248	4,810E-14	30-1
30	1	ULS2		-132,6107	-4,579E-16	30-1
30	34	ULS2		98,1270	1,888E-15	30-1
30	1	ENVELOPE_ ULS	Max	-57,3457	-4,579E-16	30-1
30	34	ENVELOPE_ ULS	Max	98,1270	4,810E-14	30-1
30	1	ENVELOPE_ ULS	Min	-132,6107	-5,806E-14	30-1
30	34	ENVELOPE_ ULS	Min	49,8248	1,888E-15	30-1
30	1	SLS		-42,4783	-4,301E-14	30-1
30	34	SLS		36,9073	3,563E-14	30-1
31	34	USL1		-49,8248	-2,952E-14	31-1
31	10	USL1		91,3294	5,673E-14	31-1
31	34	ULS2		-98,1270	-1,888E-15	31-1
31	10	ULS2		48,7255	3,319E-15	31-1
31	34	ENVELOPE_ ULS	Max	-49,8248	-1,888E-15	31-1
31	10	ENVELOPE_ ULS	Max	91,3294	5,673E-14	31-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2	M3	FrameElem
				KN-m	KN-m	
31	34	ENVELOPE_ ULS	Min	-98,1270	-2,952E-14	31-1
31	10	ENVELOPE_ ULS	Min	48,7255	3,319E-15	31-1
31	34	SLS		-36,9073	-2,187E-14	31-1
31	10	SLS		67,6514	4,202E-14	31-1
32	10	USL1		-91,3294	-3,809E-14	32-1
32	23	USL1		360,5431	3,809E-14	32-1
32	10	ULS2		-48,7255	-3,319E-15	32-1
32	23	ULS2		434,9154	3,319E-15	32-1
32	10	ENVELOPE_ ULS	Max	-48,7255	-3,319E-15	32-1
32	23	ENVELOPE_ ULS	Max	434,9154	3,809E-14	32-1
32	10	ENVELOPE_ ULS	Min	-91,3294	-3,809E-14	32-1
32	23	ENVELOPE_ ULS	Min	360,5431	3,319E-15	32-1
32	10	SLS		-67,6514	-2,822E-14	32-1
32	23	SLS		267,0690	2,822E-14	32-1
34	24	USL1		-971,0545	-1,283E-13	34-1
34	25	USL1		808,1655	1,235E-13	34-1
34	24	ULS2		-1187,6033	1,230E-15	34-1
34	25	ULS2		1062,6657	-1,230E-15	34-1
34	24	ENVELOPE_ ULS	Max	-971,0545	1,230E-15	34-1
34	25	ENVELOPE_ ULS	Max	1062,6657	1,235E-13	34-1
34	24	ENVELOPE_ ULS	Min	-1187,6033	-1,283E-13	34-1
34	25	ENVELOPE_ ULS	Min	808,1655	-1,230E-15	34-1
34	24	SLS		-719,2996	-9,501E-14	34-1
34	25	SLS		598,6411	9,146E-14	34-1
35	25	USL1		-808,1655	-1,283E-13	35-1
35	26	USL1		815,8501	1,283E-13	35-1
35	25	ULS2		-1062,6657	1,230E-15	35-1
35	26	ULS2		1046,3906	-1,230E-15	35-1
35	25	ENVELOPE_ ULS	Max	-808,1655	1,230E-15	35-1
35	26	ENVELOPE_ ULS	Max	1046,3906	1,283E-13	35-1
35	25	ENVELOPE_ ULS	Min	-1062,6657	-1,283E-13	35-1
35	26	ENVELOPE_ ULS	Min	815,8501	-1,230E-15	35-1
35	25	SLS		-598,6411	-9,501E-14	35-1
35	26	SLS		604,3334	9,501E-14	35-1
36	26	USL1		-815,8501	-1,259E-13	36-1
36	11	USL1		972,3486	1,259E-13	36-1
36	26	ULS2		-1046,3906	1,230E-15	36-1
36	11	ULS2		1127,3222	-1,230E-15	36-1
36	26	ENVELOPE_ ULS	Max	-815,8501	1,230E-15	36-1
36	11	ENVELOPE_ ULS	Max	1127,3222	1,259E-13	36-1
36	26	ENVELOPE_ ULS	Min	-1046,3906	-1,259E-13	36-1
36	11	ENVELOPE_ ULS	Min	972,3486	-1,230E-15	36-1
36	26	SLS		-604,3334	-9,324E-14	36-1
36	11	SLS		720,2583	9,324E-14	36-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2	M3	FrameElem
				KN-m	KN-m	
37	23	USL1		-360,5431	-3,929E-14	37-1
37	36	USL1		570,8642	3,929E-14	37-1
37	23	ULS2		-434,9154	-3,319E-15	37-1
37	36	ULS2		669,8671	3,319E-15	37-1
37	23	ENVELOPE_ ULS	Max	-360,5431	-3,319E-15	37-1
37	36	ENVELOPE_ ULS	Max	669,8671	3,929E-14	37-1
37	23	ENVELOPE_ ULS	Min	-434,9154	-3,929E-14	37-1
37	36	ENVELOPE_ ULS	Min	570,8642	3,319E-15	37-1
37	23	SLS		-267,0690	-2,910E-14	37-1
37	36	SLS		422,8624	2,910E-14	37-1
38	36	USL1		-1124,6973	-1,187E-13	38-1
38	24	USL1		971,0545	1,187E-13	38-1
38	36	ULS2		-1296,3545	1,230E-15	38-1
38	24	ULS2		1187,6033	-1,230E-15	38-1
38	36	ENVELOPE_ ULS	Max	-1124,6973	1,230E-15	38-1
38	24	ENVELOPE_ ULS	Max	1187,6033	1,187E-13	38-1
38	36	ENVELOPE_ ULS	Min	-1296,3545	-1,187E-13	38-1
38	24	ENVELOPE_ ULS	Min	971,0545	-1,230E-15	38-1
38	36	SLS		-833,1091	-8,791E-14	38-1
38	24	SLS		719,2996	8,791E-14	38-1
39	1	USL1		82,9754	-9,582E-14	39-1
39	36	USL1		553,8332	7,339E-14	39-1
39	1	ULS2		38,7853	1,375E-15	39-1
39	36	ULS2		626,4874	-4,549E-15	39-1
39	1	ENVELOPE_ ULS	Max	82,9754	1,375E-15	39-1
39	36	ENVELOPE_ ULS	Max	626,4874	7,339E-14	39-1
39	1	ENVELOPE_ ULS	Min	38,7853	-9,582E-14	39-1
39	36	ENVELOPE_ ULS	Min	553,8332	-4,549E-15	39-1
39	1	SLS		61,4633	-7,098E-14	39-1
39	36	SLS		410,2468	5,436E-14	39-1
40	9	USL1		-67,2643	-1,465E-13	40-1
40	35	USL1		-545,7135	9,630E-14	40-1
40	9	ULS2		-25,4834	3,036E-15	40-1
40	35	ULS2		-619,4323	-8,613E-15	40-1
40	9	ENVELOPE_ ULS	Max	-25,4834	3,036E-15	40-1
40	35	ENVELOPE_ ULS	Max	-545,7135	9,630E-14	40-1
40	9	ENVELOPE_ ULS	Min	-67,2643	-1,465E-13	40-1
40	35	ENVELOPE_ ULS	Min	-619,4323	-8,613E-15	40-1
40	9	SLS		-49,8254	-1,086E-13	40-1
40	35	SLS		-404,2322	7,134E-14	40-1

Table: Frame Loads - Distributed, Part 1 of 3

Table: Frame Loads - Distributed, Part 1 of 3

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
2	HYDROSTATIC	Local	Force	2	RelDist	0,0000
2	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
2	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
3	HYDROSTATIC	Local	Force	2	RelDist	0,0000
3	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
3	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
4	HYDROSTATIC	Local	Force	2	RelDist	0,0000
4	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
4	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
5	HYDROSTATIC	Local	Force	2	RelDist	0,0000
5	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
5	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
6	HYDROSTATIC	Local	Force	2	RelDist	0,0000
6	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
6	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
7	HYDROSTATIC	Local	Force	2	RelDist	0,0000
7	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
7	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
8	HYDROSTATIC	Local	Force	2	RelDist	0,0000
8	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
8	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
9	HYDROSTATIC	Local	Force	2	RelDist	0,0000
9	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
9	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
10	HYDROSTATIC	Local	Force	2	RelDist	0,0000
10	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
10	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
11	HYDROSTATIC	Local	Force	2	RelDist	0,0000
11	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
11	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
12	HYDROSTATIC	Local	Force	2	RelDist	0,0000
12	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
12	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
13	HYDROSTATIC	Local	Force	2	RelDist	0,0000
13	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
13	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
14	HYDROSTATIC	Local	Force	2	RelDist	0,0000
14	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
15	HYDROSTATIC	Local	Force	2	RelDist	0,0000
15	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
16	HYDROSTATIC	Local	Force	2	RelDist	0,0000
16	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
18	HYDROSTATIC	Local	Force	2	RelDist	0,0000
18	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000

Table: Frame Loads - Distributed, Part 1 of 3

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
19	HYDROSTATIC	Local	Force	2	RelDist	0,0000
20	HYDROSTATIC	Local	Force	2	RelDist	0,0000
21	HYDROSTATIC	Local	Force	2	RelDist	0,0000
21	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
22	HYDROSTATIC	Local	Force	2	RelDist	0,0000
22	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
23	HYDROSTATIC	Local	Force	2	RelDist	0,0000
23	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
24	HYDROSTATIC	Local	Force	2	RelDist	0,0000
24	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
25	HYDROSTATIC	Local	Force	2	RelDist	0,0000
25	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
27	HYDROSTATIC	Local	Force	2	RelDist	0,0000
27	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
28	HYDROSTATIC	Local	Force	2	RelDist	0,0000
28	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
29	HYDROSTATIC	Local	Force	2	RelDist	0,0000
29	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
30	HYDROSTATIC	Local	Force	2	RelDist	0,0000
31	HYDROSTATIC	Local	Force	2	RelDist	0,0000
32	HYDROSTATIC	Local	Force	2	RelDist	0,0000
32	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
34	HYDROSTATIC	Local	Force	2	RelDist	0,0000
34	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
35	HYDROSTATIC	Local	Force	2	RelDist	0,0000
35	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
36	HYDROSTATIC	Local	Force	2	RelDist	0,0000
36	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
1	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
1	HYDROSTATIC	Local	Force	2	RelDist	0,0000
26	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
26	HYDROSTATIC	Local	Force	2	RelDist	0,0000
37	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
37	HYDROSTATIC	Local	Force	2	RelDist	0,0000
38	EARTH_PRESSURE SX	GLOBAL	Force	X	RelDist	0,0000
38	HYDROSTATIC	Local	Force	2	RelDist	0,0000

Table: Frame Loads - Distributed, Part 2 of 3

Table: Frame Loads - Distributed, Part 2 of 3

Frame	LoadPat	RelDistB	AbsDistA m	AbsDistB m	FOverLA KN/m	FOverLB KN/m
2	HYDROSTATIC	1,0000	0,00000	1,15723	-38,20	-31,00
2	EARTH	1,0000	0,00000	1,15723	51,50	51,50

Table: Frame Loads - Distributed, Part 2 of 3

Frame	LoadPat	RelDistB	AbsDistA m	AbsDistB m	FOverLA KN/m	FOverLB KN/m
2	EARTH_PRESSURE SX	1,0000	0,00000	1,15723	55,40	48,10
3	HYDROSTATIC	1,0000	0,00000	1,02464	-31,00	-24,50
3	EARTH	1,0000	0,00000	1,02464	47,40	47,40
3	EARTH_PRESSURE SX	1,0000	0,00000	1,02464	48,10	41,70
4	HYDROSTATIC	1,0000	0,00000	0,98945	-24,50	-18,60
4	EARTH	1,0000	0,00000	0,98945	39,70	39,70
4	EARTH_PRESSURE SX	1,0000	0,00000	0,98945	41,70	35,70
5	HYDROSTATIC	1,0000	0,00000	0,98804	-18,60	-14,00
5	EARTH	1,0000	0,00000	0,98804	32,70	32,70
5	EARTH_PRESSURE SX	1,0000	0,00000	0,98804	35,70	31,10
6	HYDROSTATIC	1,0000	0,00000	0,98763	-14,00	-11,10
6	EARTH	1,0000	0,00000	0,98763	26,90	26,90
6	EARTH_PRESSURE SX	1,0000	0,00000	0,98763	31,10	28,10
7	HYDROSTATIC	1,0000	0,00000	1,04617	-11,10	-10,00
7	EARTH	1,0000	0,00000	1,04617	22,80	22,80
7	EARTH_PRESSURE SX	1,0000	0,00000	1,04617	28,10	27,00
8	HYDROSTATIC	1,0000	0,00000	1,08329	-10,00	-11,10
8	EARTH	1,0000	0,00000	1,08329	22,80	22,80
8	EARTH_PRESSURE DX	1,0000	0,00000	1,08329	-27,00	-28,10
9	HYDROSTATIC	1,0000	0,00000	0,98504	-11,10	-14,00
9	EARTH	1,0000	0,00000	0,98504	26,90	26,90
9	EARTH_PRESSURE DX	1,0000	0,00000	0,98504	-28,10	-31,10
10	HYDROSTATIC	1,0000	0,00000	0,98394	-14,00	-18,60
10	EARTH	1,0000	0,00000	0,98394	32,70	32,70
10	EARTH_PRESSURE DX	1,0000	0,00000	0,98394	-31,10	-35,70
11	HYDROSTATIC	1,0000	0,00000	0,98416	-18,60	-24,50
11	EARTH	1,0000	0,00000	0,98416	39,70	39,70
11	EARTH_PRESSURE DX	1,0000	0,00000	0,98416	-35,70	-41,70
12	HYDROSTATIC	1,0000	0,00000	1,01876	-24,50	-31,00
12	EARTH	1,0000	0,00000	1,01876	47,40	47,40
12	EARTH_PRESSURE DX	1,0000	0,00000	1,01876	-41,70	-48,10
13	HYDROSTATIC	1,0000	0,00000	1,13787	-31,00	-38,20
13	EARTH	1,0000	0,00000	1,13787	51,50	51,50
13	EARTH_PRESSURE DX	1,0000	0,00000	1,13787	-48,10	-55,40
14	HYDROSTATIC	1,0000	0,00000	0,95249	-38,20	-46,70
14	EARTH_PRESSURE DX	1,0000	0,00000	0,95249	-55,40	-64,00
15	HYDROSTATIC	1,0000	0,00000	0,95249	-46,70	-55,20
15	EARTH_PRESSURE DX	1,0000	0,00000	0,95249	-64,00	-72,60
16	HYDROSTATIC	1,0000	0,00000	0,95249	-55,20	-63,80
16	EARTH_PRESSURE DX	1,0000	0,00000	0,95249	-72,60	-81,10
18	HYDROSTATIC	1,0000	0,00000	0,95249	-72,30	-80,80
18	EARTH_PRESSURE DX	1,0000	0,00000	0,95249	-89,70	-98,30
19	HYDROSTATIC	1,0000	0,00000	0,76564	-80,80	-80,80
20	HYDROSTATIC	1,0000	0,00000	0,72730	-80,80	-80,80
21	HYDROSTATIC	1,0000	0,00000	1,00122	-80,80	-86,60

Table: Frame Loads - Distributed, Part 2 of 3

Frame	LoadPat	RelDistB	AbsDistA m	AbsDistB m	FOverLA KN/m	FOverLB KN/m
21	EARTH_PRESSURE DX	1,0000	0,00000	1,00122	-98,30	-104,20
22	HYDROSTATIC	1,0000	0,00000	0,99802	-86,60	-91,20
22	EARTH_PRESSURE DX	1,0000	0,00000	0,99802	-104,20	-108,80
23	HYDROSTATIC	1,0000	0,00000	0,99844	-91,20	-94,00
23	EARTH_PRESSURE DX	1,0000	0,00000	0,99844	-108,80	-111,60
24	HYDROSTATIC	1,0000	0,00000	1,04339	-94,00	-95,00
24	EARTH_PRESSURE DX	1,0000	0,00000	1,04339	-111,60	-114,50
25	HYDROSTATIC	1,0000	0,00000	1,00615	-95,00	-94,00
25	EARTH_PRESSURE SX	1,0000	0,00000	1,00615	114,50	111,60
27	HYDROSTATIC	1,0000	0,00000	1,00094	-94,00	-91,20
27	EARTH_PRESSURE SX	1,0000	0,00000	1,00094	111,60	108,80
28	HYDROSTATIC	1,0000	0,00000	1,00204	-91,20	-86,60
28	EARTH_PRESSURE SX	1,0000	0,00000	1,00204	108,80	104,20
29	HYDROSTATIC	1,0000	0,00000	1,00321	-86,60	-80,80
29	EARTH_PRESSURE SX	1,0000	0,00000	1,00321	104,20	98,30
30	HYDROSTATIC	1,0000	0,00000	0,76564	-80,80	-80,80
31	HYDROSTATIC	1,0000	0,00000	0,76564	-80,80	-80,80
32	HYDROSTATIC	1,0000	0,00000	0,95249	-80,80	-72,30
32	EARTH_PRESSURE SX	1,0000	0,00000	0,95249	98,30	89,70
34	HYDROSTATIC	1,0000	0,00000	0,95249	-63,80	-55,20
34	EARTH_PRESSURE SX	1,0000	0,00000	0,95249	81,10	72,60
35	HYDROSTATIC	1,0000	0,00000	0,95249	-55,20	-46,70
35	EARTH_PRESSURE SX	1,0000	0,00000	0,95249	72,60	64,00
36	HYDROSTATIC	1,0000	0,00000	0,95249	-46,70	-38,20
36	EARTH_PRESSURE SX	1,0000	0,00000	0,95249	64,00	55,40
1	EARTH_PRESSURE DX	1,0000	0,00000	0,47625	-81,10	-85,40
1	HYDROSTATIC	1,0000	0,00000	0,47625	-63,80	-68,05
26	EARTH_PRESSURE DX	1,0000	0,00000	0,47625	-85,40	-89,70
26	HYDROSTATIC	1,0000	0,00000	0,47625	-68,05	-72,30
37	EARTH_PRESSURE SX	1,0000	0,00000	0,47625	89,70	85,40
37	HYDROSTATIC	1,0000	0,00000	0,47625	-72,30	-68,05
38	EARTH_PRESSURE SX	1,0000	0,00000	0,47625	85,40	81,10
38	HYDROSTATIC	1,0000	0,00000	0,47625	-68,05	-63,80

Table: Frame Loads - Distributed, Part 3 of 3

Table: Frame Loads - Distributed, Part 3 of 3

Frame	LoadPat	GUID
2	HYDROSTATIC	
2	EARTH	
2	EARTH_PRESSURE SX	
3	HYDROSTATIC	
3	EARTH	

Table: Frame Loads - Distributed, Part 3 of 3

Frame	LoadPat	GUID
3	EARTH_PRESSURE SX	
4	HYDROSTATIC	
4	EARTH	
4	EARTH_PRESSURE SX	
5	HYDROSTATIC	
5	EARTH	
5	EARTH_PRESSURE SX	
6	HYDROSTATIC	
6	EARTH	
6	EARTH_PRESSURE SX	
7	HYDROSTATIC	
7	EARTH	
7	EARTH_PRESSURE SX	
8	HYDROSTATIC	
8	EARTH	
8	EARTH_PRESSURE DX	
9	HYDROSTATIC	
9	EARTH	
9	EARTH_PRESSURE DX	
10	HYDROSTATIC	
10	EARTH	
10	EARTH_PRESSURE DX	
11	HYDROSTATIC	
11	EARTH	
11	EARTH_PRESSURE DX	
12	HYDROSTATIC	
12	EARTH	
12	EARTH_PRESSURE DX	
13	HYDROSTATIC	
13	EARTH	
13	EARTH_PRESSURE DX	
14	HYDROSTATIC	
14	EARTH_PRESSURE DX	
15	HYDROSTATIC	
15	EARTH_PRESSURE DX	
16	HYDROSTATIC	
16	EARTH_PRESSURE DX	
18	HYDROSTATIC	
18	EARTH_PRESSURE DX	
19	HYDROSTATIC	
20	HYDROSTATIC	
21	HYDROSTATIC	
21	EARTH_PRESSURE DX	
22	HYDROSTATIC	
22	EARTH_PRESSURE DX	

Table: Frame Loads - Distributed, Part 3 of 3

Frame	LoadPat	GUID
23	HYDROSTATIC	
23	EARTH_PRESSURE DX	
24	HYDROSTATIC	
24	EARTH_PRESSURE DX	
25	HYDROSTATIC	
25	EARTH_PRESSURE SX	
27	HYDROSTATIC	
27	EARTH_PRESSURE SX	
28	HYDROSTATIC	
28	EARTH_PRESSURE SX	
29	HYDROSTATIC	
29	EARTH_PRESSURE SX	
30	HYDROSTATIC	
31	HYDROSTATIC	
32	HYDROSTATIC	
32	EARTH_PRESSURE SX	
34	HYDROSTATIC	
34	EARTH_PRESSURE SX	
35	HYDROSTATIC	
35	EARTH_PRESSURE SX	
36	HYDROSTATIC	
36	EARTH_PRESSURE SX	
1	EARTH_PRESSURE DX	
1	HYDROSTATIC	
26	EARTH_PRESSURE DX	
26	HYDROSTATIC	
37	EARTH_PRESSURE SX	
37	HYDROSTATIC	
38	EARTH_PRESSURE SX	
38	HYDROSTATIC	

Table: Joint Spring Assignments 1 - Uncoupled

Table: Joint Spring Assignments 1 - Uncoupled

Joint	CoordSys	U1	U2	U3	R1	R2	R3
		KN/m	KN/m	KN/m	KN-m/rad	KN-m/rad	KN-m/rad
1	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
2	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
3	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
4	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
5	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
6	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
7	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
8	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
9	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
10	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000

Table: Joint Spring Assignments 1 - Uncoupled

Joint	CoordSys	U1	U2	U3	R1	R2	R3
		KN/m	KN/m	KN/m	KN-m/rad	KN-m/rad	KN-m/rad
11	Local	13187,00	0,00	0,00	0,0000	0,0000	0,0000
24	Local	13187,00	0,00	0,00	0,0000	0,0000	0,0000
25	Local	13187,00	0,00	0,00	0,0000	0,0000	0,0000
26	Local	13187,00	0,00	0,00	0,0000	0,0000	0,0000
28	Local	13187,00	0,00	0,00	0,0000	0,0000	0,0000
29	Local	13187,00	0,00	0,00	0,0000	0,0000	0,0000
30	Local	13187,00	0,00	0,00	0,0000	0,0000	0,0000
31	Local	13187,00	0,00	0,00	0,0000	0,0000	0,0000
32	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000

Table: Load Pattern Definitions**Table: Load Pattern Definitions**

LoadPat	DesignType	SelfWtMult	AutoLoad	GUID	Notes
DEAD	DEAD	1,000000			
EARTH	DEAD	0,000000			
EARTH_PRESSURE DX	DEAD	0,000000			
EARTH_PRESSURE SX	DEAD	0,000000			
HYDROSTATIC	DEAD	0,000000			

Table: Combination Definitions, Part 1 of 3

Table: Combination Definitions, Part 1 of 3

ComboName	ComboType	AutoDesign	CaseType	CaseName	ScaleFactor	SteelDesign
USL1	Linear Add	No	Linear Static	EARTH	1,000000	None
USL1			Linear Static	EARTH_PRESSURE DX	1,000000	
USL1			Linear Static	HYDROSTATIC	1,000000	
USL1			Linear Static	DEAD	1,000000	
USL1			Linear Static	INERTIA	1,000000	
USL1			Linear Static	DINAMIC EARTH PRESSURE	1,000000	
ULS2	Linear Add	No	Linear Static	DEAD	1,000000	None
ULS2			Linear Static	EARTH	1,000000	
ULS2			Linear Static	EARTH_PRESSURE DX	1,000000	
ULS2			Linear Static	DINAMIC EARTH PRESSURE	1,000000	
USL2	Envelope	No	Linear Static	INERTIA	1,000000	None
ENVELOPE_ULS			Response Combo	ULS2	1,000000	
ENVELOPE_ULS			Response Combo	USL1	1,000000	

Table: Combination Definitions, Part 2 of 3

Table: Combination Definitions, Part 2 of 3

ComboName	CaseName	ConcDesign	AlumDesign	ColdDesign
USL1	EARTH	None	None	None
USL1	EARTH_PRESSURE DX			
USL1	HYDROSTATIC			
USL1	DEAD			
USL1	INERTIA			
USL1	DINAMIC EARTH PRESSURE			
ULS2	DEAD	None	None	None
ULS2	EARTH			
ULS2	EARTH_PRESSURE DX			
ULS2	DINAMIC EARTH PRESSURE			
USL2	INERTIA			
ENVELOPE_ULS	ULS2	None	None	None
ENVELOPE_ULS	USL1			

Table: Combination Definitions, Part 3 of 3

Table: Combination Definitions, Part 3 of 3

ComboName	CaseName	GUID	Notes
USL1	EARTH		
USL1	EARTH_PRESSURE DX		
USL1	HYDROSTATIC		
USL1	DEAD		
USL1	INERTIA		
USL1	DINAMIC EARTH PRESSURE		

Table: Combination Definitions, Part 3 of 3

ComboName	CaseName	GUID	Notes
ULS2	DEAD		
ULS2	EARTH		
ULS2	EARTH_PRESSURE DX		
ULS2	DINAMIC EARTH PRESSURE		
ULS2	INERTIA		
ENVELOPE_ULS	ULS2		
ENVELOPE_ULS	USL1		

Table: Element Forces - Frames, Part 1 of 2

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
1	0,00000	USL1	Combination		-1010,097	213,576	2,845E-14	1,172E-13
1	0,23812	USL1	Combination		-1019,074	254,304	2,845E-14	1,172E-13
1	0,47625	USL1	Combination		-1028,052	296,050	2,845E-14	1,172E-13
1	0,00000	ULS2	Combination		-909,683	150,785	3,168E-17	-3,166E-17
1	0,23812	ULS2	Combination		-918,661	176,068	3,168E-17	-3,166E-17
1	0,47625	ULS2	Combination		-927,638	201,863	3,168E-17	-3,166E-17
1	0,00000	ENVELOPE_ ULS	Combination	Max	-909,683	213,576	2,845E-14	1,172E-13
1	0,23812	ENVELOPE_ ULS	Combination	Max	-918,661	254,304	2,845E-14	1,172E-13
1	0,47625	ENVELOPE_ ULS	Combination	Max	-927,638	296,050	2,845E-14	1,172E-13
1	0,00000	ENVELOPE_ ULS	Combination	Min	-1010,097	150,785	3,168E-17	-3,166E-17
1	0,23812	ENVELOPE_ ULS	Combination	Min	-1019,074	176,068	3,168E-17	-3,166E-17
1	0,47625	ENVELOPE_ ULS	Combination	Min	-1028,052	201,863	3,168E-17	-3,166E-17
2	0,00000	USL1	Combination		-1374,630	-32,403	5,688E-14	5,431E-14
2	0,57862	USL1	Combination		-1295,028	68,260	5,688E-14	5,431E-14
2	1,15723	USL1	Combination		-1215,426	166,841	5,688E-14	5,431E-14
2	0,00000	ULS2	Combination		-1245,253	-19,660	3,168E-17	-2,536E-15
2	0,57862	ULS2	Combination		-1165,651	59,942	3,168E-17	-2,536E-15
2	1,15723	ULS2	Combination		-1086,049	139,544	3,168E-17	-2,536E-15
2	0,00000	ENVELOPE_ ULS	Combination	Max	-1245,253	-19,660	5,688E-14	5,431E-14
2	0,57862	ENVELOPE_ ULS	Combination	Max	-1165,651	68,260	5,688E-14	5,431E-14
2	1,15723	ENVELOPE_ ULS	Combination	Max	-1086,049	166,841	5,688E-14	5,431E-14
2	0,00000	ENVELOPE_ ULS	Combination	Min	-1374,630	-32,403	3,168E-17	-2,536E-15
2	0,57862	ENVELOPE_ ULS	Combination	Min	-1295,028	59,942	3,168E-17	-2,536E-15
2	1,15723	ENVELOPE_ ULS	Combination	Min	-1215,426	139,544	3,168E-17	-2,536E-15
3	0,00000	USL1	Combination		-1195,273	146,688	3,168E-17	6,497E-14
3	0,51232	USL1	Combination		-1132,662	224,348	3,168E-17	6,497E-14
3	1,02464	USL1	Combination		-1070,051	300,344	3,168E-17	6,497E-14
3	0,00000	ULS2	Combination		-1065,897	119,391	3,168E-17	-2,536E-15
3	0,51232	ULS2	Combination		-1003,286	182,002	3,168E-17	-2,536E-15
3	1,02464	ULS2	Combination		-940,675	244,613	3,168E-17	-2,536E-15
3	0,00000	ENVELOPE_ ULS	Combination	Max	-1065,897	146,688	3,168E-17	6,497E-14
3	0,51232	ENVELOPE_ ULS	Combination	Max	-1003,286	224,348	3,168E-17	6,497E-14

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
3	1,02464	ENVELOPE_ ULS	Combination	Max	-940,675	300,344	3,168E-17	6,497E-14
3	0,00000	ENVELOPE_ ULS	Combination	Min	-1195,273	119,391	3,168E-17	-2,536E-15
3	0,51232	ENVELOPE_ ULS	Combination	Min	-1132,662	182,002	3,168E-17	-2,536E-15
3	1,02464	ENVELOPE_ ULS	Combination	Min	-1070,051	244,613	3,168E-17	-2,536E-15
4	0,00000	USL1	Combination		-1061,973	230,235	3,168E-17	2,756E-14
4	0,49473	USL1	Combination		-1014,089	294,268	3,168E-17	2,756E-14
4	0,98945	USL1	Combination		-966,206	356,842	3,168E-17	2,756E-14
4	0,00000	ULS2	Combination		-930,106	180,684	3,168E-17	-2,637E-15
4	0,49473	ULS2	Combination		-882,222	233,326	3,168E-17	-2,637E-15
4	0,98945	ULS2	Combination		-834,339	285,968	3,168E-17	-2,637E-15
4	0,00000	ENVELOPE_ ULS	Combination	Max	-930,106	230,235	3,168E-17	2,756E-14
4	0,49473	ENVELOPE_ ULS	Combination	Max	-882,222	294,268	3,168E-17	2,756E-14
4	0,98945	ENVELOPE_ ULS	Combination	Max	-834,339	356,842	3,168E-17	2,756E-14
4	0,00000	ENVELOPE_ ULS	Combination	Min	-1061,973	180,684	3,168E-17	-2,637E-15
4	0,49473	ENVELOPE_ ULS	Combination	Min	-1014,089	233,326	3,168E-17	-2,637E-15
4	0,98945	ENVELOPE_ ULS	Combination	Min	-966,206	285,968	3,168E-17	-2,637E-15
5	0,00000	USL1	Combination		-993,255	143,943	5,688E-14	-1,277E-14
5	0,49402	USL1	Combination		-963,606	202,152	5,688E-14	-1,277E-14
5	0,98804	USL1	Combination		-933,957	259,224	5,688E-14	-1,277E-14
5	0,00000	ULS2	Combination		-849,970	100,569	3,168E-17	-3,001E-15
5	0,49402	ULS2	Combination		-820,321	150,156	3,168E-17	-3,001E-15
5	0,98804	ULS2	Combination		-790,672	199,744	3,168E-17	-3,001E-15
5	0,00000	ENVELOPE_ ULS	Combination	Max	-849,970	143,943	5,688E-14	-3,001E-15
5	0,49402	ENVELOPE_ ULS	Combination	Max	-820,321	202,152	5,688E-14	-3,001E-15
5	0,98804	ENVELOPE_ ULS	Combination	Max	-790,672	259,224	5,688E-14	-3,001E-15
5	0,00000	ENVELOPE_ ULS	Combination	Min	-993,255	100,569	3,168E-17	-1,277E-14
5	0,49402	ENVELOPE_ ULS	Combination	Min	-963,606	150,156	3,168E-17	-1,277E-14
5	0,98804	ENVELOPE_ ULS	Combination	Min	-933,957	199,744	3,168E-17	-1,277E-14
6	0,00000	USL1	Combination		-940,532	49,099	-5,681E-14	-4,412E-14
6	0,49382	USL1	Combination		-924,681	102,189	-5,681E-14	-4,412E-14
6	0,98763	USL1	Combination		-908,829	154,562	-5,681E-14	-4,412E-14
6	0,00000	ULS2	Combination		-787,980	20,882	3,168E-17	-3,263E-15
6	0,49382	ULS2	Combination		-772,128	67,416	3,168E-17	-3,263E-15
6	0,98763	ULS2	Combination		-756,277	113,950	3,168E-17	-3,263E-15
6	0,00000	ENVELOPE_ ULS	Combination	Max	-787,980	49,099	3,168E-17	-3,263E-15
6	0,49382	ENVELOPE_ ULS	Combination	Max	-772,128	102,189	3,168E-17	-3,263E-15
6	0,98763	ENVELOPE_ ULS	Combination	Max	-756,277	154,562	3,168E-17	-3,263E-15
6	0,00000	ENVELOPE_ ULS	Combination	Min	-940,532	20,882	-5,681E-14	-4,412E-14
6	0,49382	ENVELOPE_ ULS	Combination	Min	-924,681	67,416	-5,681E-14	-4,412E-14
6	0,98763	ENVELOPE_ ULS	Combination	Min	-908,829	113,950	-5,681E-14	-4,412E-14
7	0,00000	USL1	Combination		-892,479	-47,710	-5,681E-14	-6,556E-14

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
7	0,52308	USL1	Combination		-887,400	3,308	-5,681E-14	-6,556E-14
7	1,04617	USL1	Combination		-882,320	54,038	-5,681E-14	-6,556E-14
7	0,00000	ULS2	Combination		-734,762	-54,559	3,168E-17	-3,389E-15
7	0,52308	ULS2	Combination		-729,683	-9,203	3,168E-17	-3,389E-15
7	1,04617	ULS2	Combination		-724,603	36,152	3,168E-17	-3,389E-15
7	0,00000	ENVELOPE_ ULS	Combination	Max	-734,762	-47,710	3,168E-17	-3,389E-15
7	0,52308	ENVELOPE_ ULS	Combination	Max	-729,683	3,308	3,168E-17	-3,389E-15
7	1,04617	ENVELOPE_ ULS	Combination	Max	-724,603	54,038	3,168E-17	-3,389E-15
7	0,00000	ENVELOPE_ ULS	Combination	Min	-892,479	-54,559	-5,681E-14	-6,556E-14
7	0,52308	ENVELOPE_ ULS	Combination	Min	-887,400	-9,203	-5,681E-14	-6,556E-14
7	1,04617	ENVELOPE_ ULS	Combination	Min	-882,320	36,152	-5,681E-14	-6,556E-14
8	0,00000	USL1	Combination		-843,533	-142,657	-1,137E-13	-7,796E-14
8	0,54165	USL1	Combination		-821,391	-86,947	-1,137E-13	-7,796E-14
8	1,08329	USL1	Combination		-798,954	-30,905	-1,137E-13	-7,796E-14
8	0,00000	ULS2	Combination		-685,837	-124,585	3,168E-17	-3,358E-15
8	0,54165	ULS2	Combination		-663,696	-74,440	3,168E-17	-3,358E-15
8	1,08329	ULS2	Combination		-641,258	-24,261	3,168E-17	-3,358E-15
8	0,00000	ENVELOPE_ ULS	Combination	Max	-685,837	-124,585	3,168E-17	-3,358E-15
8	0,54165	ENVELOPE_ ULS	Combination	Max	-663,696	-74,440	3,168E-17	-3,358E-15
8	1,08329	ENVELOPE_ ULS	Combination	Max	-641,258	-24,261	3,168E-17	-3,358E-15
8	0,00000	ENVELOPE_ ULS	Combination	Min	-843,533	-142,657	-1,137E-13	-7,796E-14
8	0,54165	ENVELOPE_ ULS	Combination	Min	-821,391	-86,947	-1,137E-13	-7,796E-14
8	1,08329	ENVELOPE_ ULS	Combination	Min	-798,954	-30,905	-1,137E-13	-7,796E-14
9	0,00000	USL1	Combination		-745,947	-195,494	5,688E-14	-5,468E-14
9	0,49252	USL1	Combination		-737,538	-134,798	5,688E-14	-5,468E-14
9	0,98504	USL1	Combination		-728,432	-73,145	5,688E-14	-5,468E-14
9	0,00000	ULS2	Combination		-593,522	-154,523	3,168E-17	-3,170E-15
9	0,49252	ULS2	Combination		-585,113	-99,651	3,168E-17	-3,170E-15
9	0,98504	ULS2	Combination		-576,006	-44,537	3,168E-17	-3,170E-15
9	0,00000	ENVELOPE_ ULS	Combination	Max	-593,522	-154,523	5,688E-14	-3,170E-15
9	0,49252	ENVELOPE_ ULS	Combination	Max	-585,113	-99,651	5,688E-14	-3,170E-15
9	0,98504	ENVELOPE_ ULS	Combination	Max	-576,006	-44,537	5,688E-14	-3,170E-15
9	0,00000	ENVELOPE_ ULS	Combination	Min	-745,947	-195,494	3,168E-17	-5,468E-14
9	0,49252	ENVELOPE_ ULS	Combination	Min	-737,538	-134,798	3,168E-17	-5,468E-14
9	0,98504	ENVELOPE_ ULS	Combination	Min	-728,432	-73,145	3,168E-17	-5,468E-14
10	0,00000	USL1	Combination		-672,856	-208,488	3,168E-17	-6,503E-14
10	0,49197	USL1	Combination		-679,072	-137,493	3,168E-17	-6,503E-14
10	0,98394	USL1	Combination		-684,322	-64,779	3,168E-17	-6,503E-14
10	0,00000	ULS2	Combination		-529,734	-148,754	3,168E-17	-2,855E-15
10	0,49197	ULS2	Combination		-535,950	-85,213	3,168E-17	-2,855E-15
10	0,98394	ULS2	Combination		-541,200	-21,084	3,168E-17	-2,855E-15
10	0,00000	ENVELOPE_ ULS	Combination	Max	-529,734	-148,754	3,168E-17	-2,855E-15

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
10	0,49197	ENVELOPE_	Combination	Max	-535,950	-85,213	3,168E-17	-2,855E-15
		ULS						
10	0,98394	ENVELOPE_	Combination	Max	-541,200	-21,084	3,168E-17	-2,855E-15
		ULS						
10	0,00000	ENVELOPE_	Combination	Min	-672,856	-208,488	3,168E-17	-6,503E-14
		ULS						
10	0,49197	ENVELOPE_	Combination	Min	-679,072	-137,493	3,168E-17	-6,503E-14
		ULS						
10	0,98394	ENVELOPE_	Combination	Min	-684,322	-64,779	3,168E-17	-6,503E-14
		ULS						
11	0,00000	USL1	Combination		-637,541	-177,739	-5,681E-14	-3,443E-14
11	0,49208	USL1	Combination		-663,183	-95,339	-5,681E-14	-3,443E-14
11	0,98416	USL1	Combination		-687,737	-10,489	-5,681E-14	-3,443E-14
11	0,00000	ULS2	Combination		-505,690	-106,969	3,168E-17	-2,453E-15
11	0,49208	ULS2	Combination		-531,332	-34,447	3,168E-17	-2,453E-15
11	0,98416	ULS2	Combination		-555,886	39,072	3,168E-17	-2,453E-15
11	0,00000	ENVELOPE_	Combination	Max	-505,690	-106,969	3,168E-17	-2,453E-15
		ULS						
11	0,49208	ENVELOPE_	Combination	Max	-531,332	-34,447	3,168E-17	-2,453E-15
		ULS						
11	0,98416	ENVELOPE_	Combination	Max	-555,886	39,072	3,168E-17	-2,453E-15
		ULS						
11	0,00000	ENVELOPE_	Combination	Min	-637,541	-177,739	-5,681E-14	-3,443E-14
		ULS						
11	0,49208	ENVELOPE_	Combination	Min	-663,183	-95,339	-5,681E-14	-3,443E-14
		ULS						
11	0,98416	ENVELOPE_	Combination	Min	-687,737	-10,489	-5,681E-14	-3,443E-14
		ULS						
12	0,00000	USL1	Combination		-666,487	-20,076	3,168E-17	-2,353E-15
12	0,50938	USL1	Combination		-704,498	79,724	3,168E-17	-2,353E-15
12	1,01876	USL1	Combination		-741,357	182,332	3,168E-17	-2,353E-15
12	0,00000	ULS2	Combination		-536,903	35,142	3,168E-17	-2,353E-15
12	0,50938	ULS2	Combination		-574,914	121,634	3,168E-17	-2,353E-15
12	1,01876	ULS2	Combination		-611,773	209,280	3,168E-17	-2,353E-15
12	0,00000	ENVELOPE_	Combination	Max	-536,903	35,142	3,168E-17	-2,353E-15
		ULS						
12	0,50938	ENVELOPE_	Combination	Max	-574,914	121,634	3,168E-17	-2,353E-15
		ULS						
12	1,01876	ENVELOPE_	Combination	Max	-611,773	209,280	3,168E-17	-2,353E-15
		ULS						
12	0,00000	ENVELOPE_	Combination	Min	-666,487	-20,076	3,168E-17	-2,353E-15
		ULS						
12	0,50938	ENVELOPE_	Combination	Min	-704,498	79,724	3,168E-17	-2,353E-15
		ULS						
12	1,01876	ENVELOPE_	Combination	Min	-741,357	182,332	3,168E-17	-2,353E-15
		ULS						
13	0,00000	USL1	Combination		-721,205	202,484	-5,681E-14	1,186E-14
13	0,56894	USL1	Combination		-769,735	329,156	-5,681E-14	1,186E-14
13	1,13787	USL1	Combination		-816,797	459,343	-5,681E-14	1,186E-14
13	0,00000	ULS2	Combination		-591,621	229,432	3,168E-17	-2,353E-15
13	0,56894	ULS2	Combination		-640,151	337,442	3,168E-17	-2,353E-15
13	1,13787	ULS2	Combination		-687,213	446,921	3,168E-17	-2,353E-15
13	0,00000	ENVELOPE_	Combination	Max	-591,621	229,432	3,168E-17	1,186E-14
		ULS						
13	0,56894	ENVELOPE_	Combination	Max	-640,151	337,442	3,168E-17	1,186E-14
		ULS						
13	1,13787	ENVELOPE_	Combination	Max	-687,213	459,343	3,168E-17	1,186E-14
		ULS						
13	0,00000	ENVELOPE_	Combination	Min	-721,205	202,484	-5,681E-14	-2,353E-15
		ULS						
13	0,56894	ENVELOPE_	Combination	Min	-769,735	329,156	-5,681E-14	-2,353E-15
		ULS						

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
13	1,13787	ENVELOPE_ ULS	Combination	Min	-816,797	446,921	-5,681E-14	-2,353E-15
14	0,00000	USL1	Combination		-902,367	-224,258	3,168E-17	1,243E-13
14	0,47625	USL1	Combination		-920,322	-166,215	3,168E-17	1,243E-13
14	0,95249	USL1	Combination		-938,277	-104,101	3,168E-17	1,243E-13
14	0,00000	ULS2	Combination		-801,953	-141,412	3,168E-17	-3,166E-17
14	0,47625	ULS2	Combination		-819,908	-102,574	3,168E-17	-3,166E-17
14	0,95249	ULS2	Combination		-837,863	-61,688	3,168E-17	-3,166E-17
14	0,00000	ENVELOPE_ ULS	Combination	Max	-801,953	-141,412	3,168E-17	1,243E-13
14	0,47625	ENVELOPE_ ULS	Combination	Max	-819,908	-102,574	3,168E-17	1,243E-13
14	0,95249	ENVELOPE_ ULS	Combination	Max	-837,863	-61,688	3,168E-17	1,243E-13
14	0,00000	ENVELOPE_ ULS	Combination	Min	-902,367	-224,258	3,168E-17	-3,166E-17
14	0,47625	ENVELOPE_ ULS	Combination	Min	-920,322	-166,215	3,168E-17	-3,166E-17
14	0,95249	ENVELOPE_ ULS	Combination	Min	-938,277	-104,101	3,168E-17	-3,166E-17
15	0,00000	USL1	Combination		-938,277	-94,601	1,137E-13	1,261E-13
15	0,47625	USL1	Combination		-956,232	-28,414	1,137E-13	1,261E-13
15	0,95249	USL1	Combination		-974,187	41,844	1,137E-13	1,261E-13
15	0,00000	ULS2	Combination		-837,863	-52,188	3,168E-17	-3,166E-17
15	0,47625	ULS2	Combination		-855,818	-9,255	3,168E-17	-3,166E-17
15	0,95249	ULS2	Combination		-873,773	35,727	3,168E-17	-3,166E-17
15	0,00000	ENVELOPE_ ULS	Combination	Max	-837,863	-52,188	1,137E-13	1,261E-13
15	0,47625	ENVELOPE_ ULS	Combination	Max	-855,818	-9,255	1,137E-13	1,261E-13
15	0,95249	ENVELOPE_ ULS	Combination	Max	-873,773	41,844	1,137E-13	1,261E-13
15	0,00000	ENVELOPE_ ULS	Combination	Min	-938,277	-94,601	3,168E-17	-3,166E-17
15	0,47625	ENVELOPE_ ULS	Combination	Min	-956,232	-28,414	3,168E-17	-3,166E-17
15	0,95249	ENVELOPE_ ULS	Combination	Min	-974,187	35,727	3,168E-17	-3,166E-17
16	0,00000	USL1	Combination		-974,187	51,344	2,845E-14	1,208E-13
16	0,47625	USL1	Combination		-992,142	125,674	2,845E-14	1,208E-13
16	0,95249	USL1	Combination		-1010,097	204,076	2,845E-14	1,208E-13
16	0,00000	ULS2	Combination		-873,773	45,227	3,168E-17	-3,166E-17
16	0,47625	ULS2	Combination		-891,728	92,244	3,168E-17	-3,166E-17
16	0,95249	ULS2	Combination		-909,683	141,285	3,168E-17	-3,166E-17
16	0,00000	ENVELOPE_ ULS	Combination	Max	-873,773	51,344	2,845E-14	1,208E-13
16	0,47625	ENVELOPE_ ULS	Combination	Max	-891,728	125,674	2,845E-14	1,208E-13
16	0,95249	ENVELOPE_ ULS	Combination	Max	-909,683	204,076	2,845E-14	1,208E-13
16	0,00000	ENVELOPE_ ULS	Combination	Min	-974,187	45,227	3,168E-17	-3,166E-17
16	0,47625	ENVELOPE_ ULS	Combination	Min	-992,142	92,244	3,168E-17	-3,166E-17
16	0,95249	ENVELOPE_ ULS	Combination	Min	-1010,097	141,285	3,168E-17	-3,166E-17
18	0,00000	USL1	Combination		-389,584	-61,578	5,487E-14	4,389E-14
18	0,47625	USL1	Combination		-398,561	29,040	5,487E-14	4,389E-14
18	0,95249	USL1	Combination		-407,539	123,729	5,487E-14	4,389E-14
18	0,00000	ULS2	Combination		-332,693	-122,401	-1,976E-15	1,703E-15
18	0,47625	ULS2	Combination		-341,671	-67,228	-1,976E-15	1,703E-15
18	0,95249	ULS2	Combination		-350,648	-10,007	-1,976E-15	1,703E-15

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
18	0,00000	ENVELOPE_ ULS	Combination	Max	-332,693	-61,578	5,487E-14	4,389E-14
18	0,47625	ENVELOPE_ ULS	Combination	Max	-341,671	29,040	5,487E-14	4,389E-14
18	0,95249	ENVELOPE_ ULS	Combination	Max	-350,648	123,729	5,487E-14	4,389E-14
18	0,00000	ENVELOPE_ ULS	Combination	Min	-389,584	-122,401	-1,976E-15	1,703E-15
18	0,47625	ENVELOPE_ ULS	Combination	Min	-398,561	-67,228	-1,976E-15	1,703E-15
18	0,95249	ENVELOPE_ ULS	Combination	Min	-407,539	-10,007	-1,976E-15	1,703E-15
19	0,00000	USL1	Combination		-133,229	-215,175	-1,358E-14	-2,698E-14
19	0,38282	USL1	Combination		-133,229	-191,460	-1,446E-14	-2,698E-14
19	0,76564	USL1	Combination		-133,229	-167,744	-1,535E-14	-2,698E-14
19	0,00000	ULS2	Combination		0,507	-94,733	-1,358E-14	1,440E-15
19	0,38282	ULS2	Combination		0,507	-101,949	-1,446E-14	1,440E-15
19	0,76564	ULS2	Combination		0,507	-109,166	-1,535E-14	1,440E-15
19	0,00000	ENVELOPE_ ULS	Combination	Max	0,507	-94,733	-1,358E-14	1,440E-15
19	0,38282	ENVELOPE_ ULS	Combination	Max	0,507	-101,949	-1,446E-14	1,440E-15
19	0,76564	ENVELOPE_ ULS	Combination	Max	0,507	-109,166	-1,535E-14	1,440E-15
19	0,00000	ENVELOPE_ ULS	Combination	Min	-133,229	-215,175	-1,358E-14	-2,698E-14
19	0,38282	ENVELOPE_ ULS	Combination	Min	-133,229	-191,460	-1,446E-14	-2,698E-14
19	0,76564	ENVELOPE_ ULS	Combination	Min	-133,229	-167,744	-1,535E-14	-2,698E-14
20	0,00000	USL1	Combination		-142,729	-167,744	-4,377E-14	-3,231E-14
20	0,36365	USL1	Combination		-142,729	-145,217	-4,461E-14	-3,231E-14
20	0,72730	USL1	Combination		-142,729	-122,689	-4,545E-14	-3,231E-14
20	0,00000	ULS2	Combination		-8,993	-109,166	-1,535E-14	1,440E-15
20	0,36365	ULS2	Combination		-8,993	-116,021	-1,618E-14	1,440E-15
20	0,72730	ULS2	Combination		-8,993	-122,876	-1,702E-14	1,440E-15
20	0,00000	ENVELOPE_ ULS	Combination	Max	-8,993	-109,166	-1,535E-14	1,440E-15
20	0,36365	ENVELOPE_ ULS	Combination	Max	-8,993	-116,021	-1,618E-14	1,440E-15
20	0,72730	ENVELOPE_ ULS	Combination	Max	-8,993	-122,689	-1,702E-14	1,440E-15
20	0,00000	ENVELOPE_ ULS	Combination	Min	-142,729	-167,744	-4,377E-14	-3,231E-14
20	0,36365	ENVELOPE_ ULS	Combination	Min	-142,729	-145,217	-4,461E-14	-3,231E-14
20	0,72730	ENVELOPE_ ULS	Combination	Min	-142,729	-122,876	-4,545E-14	-3,231E-14
21	0,00000	USL1	Combination		-878,099	-77,253	-4,397E-14	4,680E-14
21	0,50061	USL1	Combination		-932,770	-4,620	-4,012E-14	4,680E-14
21	1,00122	USL1	Combination		-988,562	70,428	-3,615E-14	4,680E-14
21	0,00000	ULS2	Combination		-656,622	-127,247	-1,555E-14	2,395E-15
21	0,50061	ULS2	Combination		-711,294	-95,790	-1,170E-14	2,395E-15
21	1,00122	ULS2	Combination		-767,085	-63,369	-7,729E-15	2,395E-15
21	0,00000	ENVELOPE_ ULS	Combination	Max	-656,622	-77,253	-1,555E-14	4,680E-14
21	0,50061	ENVELOPE_ ULS	Combination	Max	-711,294	-4,620	-1,170E-14	4,680E-14
21	1,00122	ENVELOPE_ ULS	Combination	Max	-767,085	70,428	-7,729E-15	4,680E-14
21	0,00000	ENVELOPE_ ULS	Combination	Min	-878,099	-127,247	-4,397E-14	2,395E-15

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
21	0,50061	ENVELOPE_ ULS	Combination	Min	-932,770	-95,790	-4,012E-14	2,395E-15
21	1,00122	ENVELOPE_ ULS	Combination	Min	-988,562	-63,369	-3,615E-14	2,395E-15
22	0,00000	USL1	Combination		-906,832	44,839	5,773E-14	2,048E-14
22	0,49901	USL1	Combination		-968,461	111,133	6,049E-14	2,048E-14
22	0,99802	USL1	Combination		-1031,079	179,156	6,331E-14	2,048E-14
22	0,00000	ULS2	Combination		-633,238	6,981	8,866E-16	2,715E-15
22	0,49901	ULS2	Combination		-694,866	29,487	3,643E-15	2,715E-15
22	0,99802	ULS2	Combination		-757,484	52,574	6,470E-15	2,715E-15
22	0,00000	ENVELOPE_ ULS	Combination	Max	-633,238	44,839	5,773E-14	2,048E-14
22	0,49901	ENVELOPE_ ULS	Combination	Max	-694,866	111,133	6,049E-14	2,048E-14
22	0,99802	ENVELOPE_ ULS	Combination	Max	-757,484	179,156	6,331E-14	2,048E-14
22	0,00000	ENVELOPE_ ULS	Combination	Min	-906,832	6,981	8,866E-16	2,715E-15
22	0,49901	ENVELOPE_ ULS	Combination	Min	-968,461	29,487	3,643E-15	2,715E-15
22	0,99802	ENVELOPE_ ULS	Combination	Min	-1031,079	52,574	6,470E-15	2,715E-15
23	0,00000	USL1	Combination		-1002,913	120,706	1,382E-14	-7,689E-15
23	0,49922	USL1	Combination		-1069,856	176,516	1,503E-14	-7,689E-15
23	0,99844	USL1	Combination		-1137,462	233,246	1,628E-14	-7,689E-15
23	0,00000	ULS2	Combination		-689,335	112,557	1,382E-14	2,969E-15
23	0,49922	ULS2	Combination		-756,278	122,489	1,503E-14	2,969E-15
23	0,99844	ULS2	Combination		-823,884	132,642	1,628E-14	2,969E-15
23	0,00000	ENVELOPE_ ULS	Combination	Max	-689,335	120,706	1,382E-14	2,969E-15
23	0,49922	ENVELOPE_ ULS	Combination	Max	-756,278	176,516	1,503E-14	2,969E-15
23	0,99844	ENVELOPE_ ULS	Combination	Max	-823,884	233,246	1,628E-14	2,969E-15
23	0,00000	ENVELOPE_ ULS	Combination	Min	-1002,913	112,557	1,382E-14	-7,689E-15
23	0,49922	ENVELOPE_ ULS	Combination	Min	-1069,856	122,489	1,503E-14	-7,689E-15
23	0,99844	ENVELOPE_ ULS	Combination	Min	-1137,462	132,642	1,628E-14	-7,689E-15
24	0,00000	USL1	Combination		-1153,451	144,437	-1,492E-13	-4,665E-14
24	0,52170	USL1	Combination		-1225,486	189,117	-1,497E-13	-4,665E-14
24	1,04339	USL1	Combination		-1298,273	234,139	-1,503E-13	-4,665E-14
24	0,00000	ULS2	Combination		-818,956	174,011	2,134E-14	3,090E-15
24	0,52170	ULS2	Combination		-890,991	169,521	2,079E-14	3,090E-15
24	1,04339	ULS2	Combination		-963,778	165,113	2,025E-14	3,090E-15
24	0,00000	ENVELOPE_ ULS	Combination	Max	-818,956	174,011	2,134E-14	3,090E-15
24	0,52170	ENVELOPE_ ULS	Combination	Max	-890,991	189,117	2,079E-14	3,090E-15
24	1,04339	ENVELOPE_ ULS	Combination	Max	-963,778	234,139	2,025E-14	3,090E-15
24	0,00000	ENVELOPE_ ULS	Combination	Min	-1153,451	144,437	-1,492E-13	-4,665E-14
24	0,52170	ENVELOPE_ ULS	Combination	Min	-1225,486	169,521	-1,497E-13	-4,665E-14
24	1,04339	ENVELOPE_ ULS	Combination	Min	-1298,273	165,113	-1,503E-13	-4,665E-14
25	0,00000	USL1	Combination		-1343,474	100,608	-3,652E-14	-6,266E-14
25	0,50307	USL1	Combination		-1342,231	136,485	-3,797E-14	-6,266E-14
25	1,00615	USL1	Combination		-1340,989	172,111	-3,941E-14	-6,266E-14
25	0,00000	ULS2	Combination		-1008,432	165,675	2,032E-14	3,064E-15

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
25	0,50307	ULS2	Combination		-1007,190	153,886	1,888E-14	3,064E-15
25	1,00615	ULS2	Combination		-1005,947	142,098	1,743E-14	3,064E-15
25	0,00000	ENVELOPE_ ULS	Combination	Max	-1008,432	165,675	2,032E-14	3,064E-15
25	0,50307	ENVELOPE_ ULS	Combination	Max	-1007,190	153,886	1,888E-14	3,064E-15
25	1,00615	ENVELOPE_ ULS	Combination	Max	-1005,947	172,111	1,743E-14	3,064E-15
25	0,00000	ENVELOPE_ ULS	Combination	Min	-1343,474	100,608	-3,652E-14	-6,266E-14
25	0,50307	ENVELOPE_ ULS	Combination	Min	-1342,231	136,485	-3,797E-14	-6,266E-14
25	1,00615	ENVELOPE_ ULS	Combination	Min	-1340,989	142,098	-3,941E-14	-6,266E-14
26	0,00000	USL1	Combination		-380,606	-157,624	4,776E-14	4,434E-14
26	0,23812	USL1	Combination		-385,095	-114,860	4,776E-14	4,434E-14
26	0,47625	USL1	Combination		-389,584	-71,078	4,776E-14	4,434E-14
26	0,00000	ULS2	Combination		-323,716	-185,026	-1,976E-15	1,703E-15
26	0,23812	ULS2	Combination		-328,204	-158,720	-1,976E-15	1,703E-15
26	0,47625	ULS2	Combination		-332,693	-131,901	-1,976E-15	1,703E-15
26	0,00000	ENVELOPE_ ULS	Combination	Max	-323,716	-157,624	4,776E-14	4,434E-14
26	0,23812	ENVELOPE_ ULS	Combination	Max	-328,204	-114,860	4,776E-14	4,434E-14
26	0,47625	ENVELOPE_ ULS	Combination	Max	-332,693	-71,078	4,776E-14	4,434E-14
26	0,00000	ENVELOPE_ ULS	Combination	Min	-380,606	-185,026	-1,976E-15	1,703E-15
26	0,23812	ENVELOPE_ ULS	Combination	Min	-385,095	-158,720	-1,976E-15	1,703E-15
26	0,47625	ENVELOPE_ ULS	Combination	Min	-389,584	-131,901	-1,976E-15	1,703E-15
27	0,00000	USL1	Combination		-1400,270	21,155	-4,205E-14	-4,329E-14
27	0,50047	USL1	Combination		-1396,623	56,635	-4,343E-14	-4,329E-14
27	1,00094	USL1	Combination		-1392,975	91,413	-4,480E-14	-4,329E-14
27	0,00000	ULS2	Combination		-1085,516	120,510	1,479E-14	2,896E-15
27	0,50047	ULS2	Combination		-1081,868	109,296	1,342E-14	2,896E-15
27	1,00094	ULS2	Combination		-1078,221	98,081	1,204E-14	2,896E-15
27	0,00000	ENVELOPE_ ULS	Combination	Max	-1085,516	120,510	1,479E-14	2,896E-15
27	0,50047	ENVELOPE_ ULS	Combination	Max	-1081,868	109,296	1,342E-14	2,896E-15
27	1,00094	ENVELOPE_ ULS	Combination	Max	-1078,221	98,081	1,204E-14	2,896E-15
27	0,00000	ENVELOPE_ ULS	Combination	Min	-1400,270	21,155	-4,205E-14	-4,329E-14
27	0,50047	ENVELOPE_ ULS	Combination	Min	-1396,623	56,635	-4,343E-14	-4,329E-14
27	1,00094	ENVELOPE_ ULS	Combination	Min	-1392,975	91,413	-4,480E-14	-4,329E-14
28	0,00000	USL1	Combination		-1456,660	-88,628	-1,091E-13	-2,583E-14
28	0,50102	USL1	Combination		-1450,759	-53,735	-1,103E-13	-2,583E-14
28	1,00204	USL1	Combination		-1444,857	-19,996	-1,116E-13	-2,583E-14
28	0,00000	ULS2	Combination		-1181,429	37,416	4,614E-15	2,596E-15
28	0,50102	ULS2	Combination		-1175,527	27,191	3,362E-15	2,596E-15
28	1,00204	ULS2	Combination		-1169,626	16,966	2,109E-15	2,596E-15
28	0,00000	ENVELOPE_ ULS	Combination	Max	-1181,429	37,416	4,614E-15	2,596E-15
28	0,50102	ENVELOPE_ ULS	Combination	Max	-1175,527	27,191	3,362E-15	2,596E-15
28	1,00204	ENVELOPE_ ULS	Combination	Max	-1169,626	16,966	2,109E-15	2,596E-15

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
28	0,00000	ENVELOPE_	Combination	Min	-1456,660	-88,628	-1,091E-13	-2,583E-14
		ULS						
28	0,50102	ENVELOPE_	Combination	Min	-1450,759	-53,735	-1,103E-13	-2,583E-14
		ULS						
28	1,00204	ENVELOPE_	Combination	Min	-1444,857	-19,996	-1,116E-13	-2,583E-14
		ULS						
29	0,00000	USL1	Combination		-1500,450	-232,491	-1,126E-14	-3,154E-15
29	0,50160	USL1	Combination		-1492,544	-198,565	-1,233E-14	-3,154E-15
29	1,00321	USL1	Combination		-1484,638	-166,094	-1,341E-14	-3,154E-15
29	0,00000	ULS2	Combination		-1281,169	-92,188	-1,126E-14	2,175E-15
29	0,50160	ULS2	Combination		-1273,262	-100,974	-1,233E-14	2,175E-15
29	1,00321	ULS2	Combination		-1265,356	-109,760	-1,341E-14	2,175E-15
29	0,00000	ENVELOPE_	Combination	Max	-1281,169	-92,188	-1,126E-14	2,175E-15
		ULS						
29	0,50160	ENVELOPE_	Combination	Max	-1273,262	-100,974	-1,233E-14	2,175E-15
		ULS						
29	1,00321	ENVELOPE_	Combination	Max	-1265,356	-109,760	-1,341E-14	2,175E-15
		ULS						
29	0,00000	ENVELOPE_	Combination	Min	-1500,450	-232,491	-1,126E-14	-3,154E-15
		ULS						
29	0,50160	ENVELOPE_	Combination	Min	-1492,544	-198,565	-1,233E-14	-3,154E-15
		ULS						
29	1,00321	ENVELOPE_	Combination	Min	-1484,638	-166,094	-1,341E-14	-3,154E-15
		ULS						
30	0,00000	USL1	Combination		-173,637	34,615	5,126E-15	-3,162E-14
30	0,38282	USL1	Combination		-173,637	58,330	4,242E-15	-3,162E-14
30	0,76564	USL1	Combination		-173,637	82,046	3,359E-15	-3,162E-14
30	0,00000	ULS2	Combination		-39,012	36,930	5,126E-15	3,593E-16
30	0,38282	ULS2	Combination		-39,012	29,714	4,242E-15	3,593E-16
30	0,76564	ULS2	Combination		-39,012	22,498	3,359E-15	3,593E-16
30	0,00000	ENVELOPE_	Combination	Max	-39,012	36,930	5,126E-15	3,593E-16
		ULS						
30	0,38282	ENVELOPE_	Combination	Max	-39,012	58,330	4,242E-15	3,593E-16
		ULS						
30	0,76564	ENVELOPE_	Combination	Max	-39,012	82,046	3,359E-15	3,593E-16
		ULS						
30	0,00000	ENVELOPE_	Combination	Min	-173,637	34,615	5,126E-15	-3,162E-14
		ULS						
30	0,38282	ENVELOPE_	Combination	Min	-173,637	29,714	4,242E-15	-3,162E-14
		ULS						
30	0,76564	ENVELOPE_	Combination	Min	-173,637	22,498	3,359E-15	-3,162E-14
		ULS						
31	0,00000	USL1	Combination		-183,137	82,046	3,359E-15	-3,162E-14
31	0,38282	USL1	Combination		-183,137	105,761	2,475E-15	-3,162E-14
31	0,76564	USL1	Combination		-183,137	129,477	1,591E-15	-3,162E-14
31	0,00000	ULS2	Combination		-48,512	22,498	3,359E-15	3,593E-16
31	0,38282	ULS2	Combination		-48,512	15,281	2,475E-15	3,593E-16
31	0,76564	ULS2	Combination		-48,512	8,065	1,591E-15	3,593E-16
31	0,00000	ENVELOPE_	Combination	Max	-48,512	82,046	3,359E-15	3,593E-16
		ULS						
31	0,38282	ENVELOPE_	Combination	Max	-48,512	105,761	2,475E-15	3,593E-16
		ULS						
31	0,76564	ENVELOPE_	Combination	Max	-48,512	129,477	1,591E-15	3,593E-16
		ULS						
31	0,00000	ENVELOPE_	Combination	Min	-183,137	22,498	3,359E-15	-3,162E-14
		ULS						
31	0,38282	ENVELOPE_	Combination	Min	-183,137	15,281	2,475E-15	-3,162E-14
		ULS						
31	0,76564	ENVELOPE_	Combination	Min	-183,137	8,065	1,591E-15	-3,162E-14
		ULS						
32	0,00000	USL1	Combination		-233,203	-192,637	-6,501E-15	2,499E-14
32	0,47625	USL1	Combination		-224,225	-155,168	-6,501E-15	2,499E-14
32	0,95249	USL1	Combination		-215,248	-119,723	-6,501E-15	2,499E-14

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
32	0,00000	ULS2	Combination		-176,127	-58,012	-6,501E-15	1,179E-16
32	0,47625	ULS2	Combination		-167,150	-58,012	-6,501E-15	1,179E-16
32	0,95249	ULS2	Combination		-158,172	-58,012	-6,501E-15	1,179E-16
32	0,00000	ENVELOPE_ ULS	Combination	Max	-176,127	-58,012	-6,501E-15	2,499E-14
32	0,47625	ENVELOPE_ ULS	Combination	Max	-167,150	-58,012	-6,501E-15	2,499E-14
32	0,95249	ENVELOPE_ ULS	Combination	Max	-158,172	-58,012	-6,501E-15	2,499E-14
32	0,00000	ENVELOPE_ ULS	Combination	Min	-233,203	-192,637	-6,501E-15	1,179E-16
32	0,47625	ENVELOPE_ ULS	Combination	Min	-224,225	-155,168	-6,501E-15	1,179E-16
32	0,95249	ENVELOPE_ ULS	Combination	Min	-215,248	-119,723	-6,501E-15	1,179E-16
34	0,00000	USL1	Combination		-1102,652	-597,419	-3,700E-14	9,030E-14
34	0,47625	USL1	Combination		-1084,698	-568,058	-3,700E-14	9,030E-14
34	0,95249	USL1	Combination		-1066,743	-540,745	-3,700E-14	9,030E-14
34	0,00000	ULS2	Combination		-1002,158	-534,505	-6,543E-14	-2,913E-16
34	0,47625	ULS2	Combination		-984,203	-534,505	-6,543E-14	-2,913E-16
34	0,95249	ULS2	Combination		-966,248	-534,505	-6,543E-14	-2,913E-16
34	0,00000	ENVELOPE_ ULS	Combination	Max	-1002,158	-534,505	-3,700E-14	9,030E-14
34	0,47625	ENVELOPE_ ULS	Combination	Max	-984,203	-534,505	-3,700E-14	9,030E-14
34	0,95249	ENVELOPE_ ULS	Combination	Max	-966,248	-534,505	-3,700E-14	9,030E-14
34	0,00000	ENVELOPE_ ULS	Combination	Min	-1102,652	-597,419	-6,543E-14	-2,913E-16
34	0,47625	ENVELOPE_ ULS	Combination	Min	-1084,698	-568,058	-6,543E-14	-2,913E-16
34	0,95249	ENVELOPE_ ULS	Combination	Min	-1066,743	-540,745	-6,543E-14	-2,913E-16
35	0,00000	USL1	Combination		-1066,743	-41,905	1,701E-14	9,563E-14
35	0,47625	USL1	Combination		-1048,788	-16,628	1,701E-14	9,563E-14
35	0,95249	USL1	Combination		-1030,833	6,625	1,701E-14	9,563E-14
35	0,00000	ULS2	Combination		-966,248	-35,421	-4,306E-15	-2,913E-16
35	0,47625	ULS2	Combination		-948,293	-35,421	-4,306E-15	-2,913E-16
35	0,95249	ULS2	Combination		-930,339	-35,421	-4,306E-15	-2,913E-16
35	0,00000	ENVELOPE_ ULS	Combination	Max	-966,248	-35,421	1,701E-14	9,563E-14
35	0,47625	ENVELOPE_ ULS	Combination	Max	-948,293	-16,628	1,701E-14	9,563E-14
35	0,95249	ENVELOPE_ ULS	Combination	Max	-930,339	6,625	1,701E-14	9,563E-14
35	0,00000	ENVELOPE_ ULS	Combination	Min	-1066,743	-41,905	-4,306E-15	-2,913E-16
35	0,47625	ENVELOPE_ ULS	Combination	Min	-1048,788	-35,421	-4,306E-15	-2,913E-16
35	0,95249	ENVELOPE_ ULS	Combination	Min	-1030,833	-35,421	-4,306E-15	-2,913E-16
36	0,00000	USL1	Combination		-1030,833	479,253	1,247E-13	9,208E-14
36	0,47625	USL1	Combination		-1012,878	500,481	1,247E-13	9,208E-14
36	0,95249	USL1	Combination		-994,923	519,686	1,247E-13	9,208E-14
36	0,00000	ULS2	Combination		-930,339	437,394	5,360E-14	-2,913E-16
36	0,47625	ULS2	Combination		-912,384	437,394	5,360E-14	-2,913E-16
36	0,95249	ULS2	Combination		-894,429	437,394	5,360E-14	-2,913E-16
36	0,00000	ENVELOPE_ ULS	Combination	Max	-930,339	479,253	1,247E-13	9,208E-14
36	0,47625	ENVELOPE_ ULS	Combination	Max	-912,384	500,481	1,247E-13	9,208E-14
36	0,95249	ENVELOPE_ ULS	Combination	Max	-894,429	519,686	1,247E-13	9,208E-14

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
36	0,00000	ENVELOPE_	Combination	Min	-1030,833	437,394	5,360E-14	-2,913E-16
		ULS						
36	0,47625	ENVELOPE_	Combination	Min	-1012,878	437,394	5,360E-14	-2,913E-16
		ULS						
36	0,95249	ENVELOPE_	Combination	Min	-994,923	437,394	5,360E-14	-2,913E-16
		ULS						
37	0,00000	USL1	Combination		-215,248	-129,223	-6,451E-14	2,588E-14
37	0,23812	USL1	Combination		-210,759	-112,260	-6,451E-14	2,588E-14
37	0,47625	USL1	Combination		-206,270	-95,803	-6,451E-14	2,588E-14
37	0,00000	ULS2	Combination		-158,172	-67,512	-7,664E-15	1,179E-16
37	0,23812	ULS2	Combination		-153,684	-67,512	-7,664E-15	1,179E-16
37	0,47625	ULS2	Combination		-149,195	-67,512	-7,664E-15	1,179E-16
37	0,00000	ENVELOPE_	Combination	Max	-158,172	-67,512	-7,664E-15	2,588E-14
		ULS						
37	0,23812	ENVELOPE_	Combination	Max	-153,684	-67,512	-7,664E-15	2,588E-14
		ULS						
37	0,47625	ENVELOPE_	Combination	Max	-149,195	-67,512	-7,664E-15	2,588E-14
		ULS						
37	0,00000	ENVELOPE_	Combination	Min	-215,248	-129,223	-6,451E-14	1,179E-16
		ULS						
37	0,23812	ENVELOPE_	Combination	Min	-210,759	-112,260	-6,451E-14	1,179E-16
		ULS						
37	0,47625	ENVELOPE_	Combination	Min	-206,270	-95,803	-6,451E-14	1,179E-16
		ULS						
38	0,00000	USL1	Combination		-1120,607	-1155,864	-2,437E-13	9,208E-14
38	0,23812	USL1	Combination		-1111,630	-1139,913	-2,437E-13	9,208E-14
38	0,47625	USL1	Combination		-1102,652	-1124,468	-2,437E-13	9,208E-14
38	0,00000	ULS2	Combination		-1020,113	-1061,514	-1,300E-13	-2,913E-16
38	0,23812	ULS2	Combination		-1011,136	-1061,514	-1,300E-13	-2,913E-16
38	0,47625	ULS2	Combination		-1002,158	-1061,514	-1,300E-13	-2,913E-16
38	0,00000	ENVELOPE_	Combination	Max	-1020,113	-1061,514	-1,300E-13	9,208E-14
		ULS						
38	0,23812	ENVELOPE_	Combination	Max	-1011,136	-1061,514	-1,300E-13	9,208E-14
		ULS						
38	0,47625	ENVELOPE_	Combination	Max	-1002,158	-1061,514	-1,300E-13	9,208E-14
		ULS						
38	0,00000	ENVELOPE_	Combination	Min	-1120,607	-1155,864	-2,437E-13	-2,913E-16
		ULS						
38	0,23812	ENVELOPE_	Combination	Min	-1111,630	-1139,913	-2,437E-13	-2,913E-16
		ULS						
38	0,47625	ENVELOPE_	Combination	Min	-1102,652	-1124,468	-2,437E-13	-2,913E-16
		ULS						
39	0,00000	USL1	Combination		-1418,828	-19,299	5,801E-15	-7,722E-15
39	1,04715	USL1	Combination		-1405,361	-33,732	4,034E-15	-7,722E-15
39	2,09431	USL1	Combination		-1391,895	-48,165	2,266E-15	-7,722E-15
39	0,00000	ULS2	Combination		-1340,907	-5,980	-1,304E-15	1,160E-15
39	1,04715	ULS2	Combination		-1327,441	-20,412	-3,072E-15	1,160E-15
39	2,09431	ULS2	Combination		-1313,975	-34,845	-4,839E-15	1,160E-15
39	0,00000	ENVELOPE_	Combination	Max	-1340,907	-5,980	5,801E-15	1,160E-15
		ULS						
39	1,04715	ENVELOPE_	Combination	Max	-1327,441	-20,412	4,034E-15	1,160E-15
		ULS						
39	2,09431	ENVELOPE_	Combination	Max	-1313,975	-34,845	2,266E-15	1,160E-15
		ULS						
39	0,00000	ENVELOPE_	Combination	Min	-1418,828	-19,299	-1,304E-15	-7,722E-15
		ULS						
39	1,04715	ENVELOPE_	Combination	Min	-1405,361	-33,732	-3,072E-15	-7,722E-15
		ULS						
39	2,09431	ENVELOPE_	Combination	Min	-1391,895	-48,165	-4,839E-15	-7,722E-15
		ULS						
40	0,00000	USL1	Combination		-809,207	175,663	3,421E-14	2,342E-14
40	1,03322	USL1	Combination		-795,741	161,592	3,248E-14	2,342E-14
40	2,06644	USL1	Combination		-782,275	147,521	3,076E-14	2,342E-14

Table: Element Forces - Frames, Part 1 of 2

Frame	Station m	OutputCase	CaseType	StepType	P KN	V2 KN	V3 KN	T KN-m
40	0,00000	ULS2	Combination		-730,865	190,394	2,532E-14	2,105E-15
40	1,03322	ULS2	Combination		-717,399	176,323	2,360E-14	2,105E-15
40	2,06644	ULS2	Combination		-703,932	162,252	2,188E-14	2,105E-15
40	0,00000	ENVELOPE_ ULS	Combination	Max	-730,865	190,394	3,421E-14	2,342E-14
40	1,03322	ENVELOPE_ ULS	Combination	Max	-717,399	176,323	3,248E-14	2,342E-14
40	2,06644	ENVELOPE_ ULS	Combination	Max	-703,932	162,252	3,076E-14	2,342E-14
40	0,00000	ENVELOPE_ ULS	Combination	Min	-809,207	175,663	2,532E-14	2,105E-15
40	1,03322	ENVELOPE_ ULS	Combination	Min	-795,741	161,592	2,360E-14	2,105E-15
40	2,06644	ENVELOPE_ ULS	Combination	Min	-782,275	147,521	2,188E-14	2,105E-15

Table: Element Forces - Frames, Part 2 of 2

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
1	0,00000	USL1		-4,653E-14	-157,2444	1-1	0,00000
1	0,23812	USL1		-5,331E-14	-212,9307	1-1	0,23812
1	0,47625	USL1		-6,008E-14	-278,4365	1-1	0,47625
1	0,00000	ULS2		3,205E-15	-337,5025	1-1	0,00000
1	0,23812	ULS2		3,197E-15	-376,4081	1-1	0,23812
1	0,47625	ULS2		3,190E-15	-421,3950	1-1	0,47625
1	0,00000	ENVELOPE_ ULS	Max	3,205E-15	-157,2444	1-1	0,00000
1	0,23812	ENVELOPE_ ULS	Max	3,197E-15	-212,9307	1-1	0,23812
1	0,47625	ENVELOPE_ ULS	Max	3,190E-15	-278,4365	1-1	0,47625
1	0,00000	ENVELOPE_ ULS	Min	-4,653E-14	-337,5025	1-1	0,00000
1	0,23812	ENVELOPE_ ULS	Min	-5,331E-14	-376,4081	1-1	0,23812
1	0,47625	ENVELOPE_ ULS	Min	-6,008E-14	-421,3950	1-1	0,47625
2	0,00000	USL1		-7,318E-14	683,6028	2-1	0,00000
2	0,57862	USL1		-1,061E-13	673,1288	2-1	0,57862
2	1,15723	USL1		-1,390E-13	605,0118	2-1	1,15723
2	0,00000	ULS2		-2,124E-15	548,9630	2-1	0,00000
2	0,57862	ULS2		-2,143E-15	537,3091	2-1	0,57862
2	1,15723	ULS2		-2,161E-15	479,5963	2-1	1,15723
2	0,00000	ENVELOPE_ ULS	Max	-2,124E-15	683,6028	2-1	0,00000
2	0,57862	ENVELOPE_ ULS	Max	-2,143E-15	673,1288	2-1	0,57862
2	1,15723	ENVELOPE_ ULS	Max	-2,161E-15	605,0118	2-1	1,15723
2	0,00000	ENVELOPE_ ULS	Min	-7,318E-14	548,9630	2-1	0,00000
2	0,57862	ENVELOPE_ ULS	Min	-1,061E-13	537,3091	2-1	0,57862
2	1,15723	ENVELOPE_ ULS	Min	-1,390E-13	479,5963	2-1	1,15723
3	0,00000	USL1		-1,443E-13	605,0118	3-1	0,00000
3	0,51232	USL1		-1,443E-13	509,8960	3-1	0,51232
3	1,02464	USL1		-1,443E-13	375,4197	3-1	1,02464
3	0,00000	ULS2		-2,161E-15	479,5963	3-1	0,00000

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
3	0,51232	ULS2		-2,177E-15	402,3913	3-1	0,51232
3	1,02464	ULS2		-2,193E-15	293,1094	3-1	1,02464
3	0,00000	ENVELOPE_ ULS	Max	-2,161E-15	605,0118	3-1	0,00000
3	0,51232	ENVELOPE_ ULS	Max	-2,177E-15	509,8960	3-1	0,51232
3	1,02464	ENVELOPE_ ULS	Max	-2,193E-15	375,4197	3-1	1,02464
3	0,00000	ENVELOPE_ ULS	Min	-1,443E-13	479,5963	3-1	0,00000
3	0,51232	ENVELOPE_ ULS	Min	-1,443E-13	402,3913	3-1	0,51232
3	1,02464	ENVELOPE_ ULS	Min	-1,443E-13	293,1094	3-1	1,02464
4	0,00000	USL1		-2,010E-13	375,4197	4-1	0,00000
4	0,49473	USL1		-2,010E-13	245,6168	4-1	0,49473
4	0,98945	USL1		-2,011E-13	84,4960	4-1	0,98945
4	0,00000	ULS2		-2,071E-15	293,1094	4-1	0,00000
4	0,49473	ULS2		-2,087E-15	190,6985	4-1	0,49473
4	0,98945	ULS2		-2,102E-15	62,2441	4-1	0,98945
4	0,00000	ENVELOPE_ ULS	Max	-2,071E-15	375,4197	4-1	0,00000
4	0,49473	ENVELOPE_ ULS	Max	-2,087E-15	245,6168	4-1	0,49473
4	0,98945	ENVELOPE_ ULS	Max	-2,102E-15	84,4960	4-1	0,98945
4	0,00000	ENVELOPE_ ULS	Min	-2,010E-13	293,1094	4-1	0,00000
4	0,49473	ENVELOPE_ ULS	Min	-2,010E-13	190,6985	4-1	0,49473
4	0,98945	ENVELOPE_ ULS	Min	-2,011E-13	62,2441	4-1	0,98945
5	0,00000	USL1		-1,721E-13	84,4960	5-1	0,00000
5	0,49402	USL1		-2,002E-13	-1,0394	5-1	0,49402
5	0,98804	USL1		-2,283E-13	-115,0502	5-1	0,98804
5	0,00000	ULS2		-1,539E-15	62,2441	5-1	0,00000
5	0,49402	ULS2		-1,555E-15	0,3128	5-1	0,49402
5	0,98804	ULS2		-1,570E-15	-86,1159	5-1	0,98804
5	0,00000	ENVELOPE_ ULS	Max	-1,539E-15	84,4960	5-1	0,00000
5	0,49402	ENVELOPE_ ULS	Max	-1,555E-15	0,3128	5-1	0,49402
5	0,98804	ENVELOPE_ ULS	Max	-1,570E-15	-86,1159	5-1	0,98804
5	0,00000	ENVELOPE_ ULS	Min	-1,721E-13	62,2441	5-1	0,00000
5	0,49402	ENVELOPE_ ULS	Min	-2,002E-13	-1,0394	5-1	0,49402
5	0,98804	ENVELOPE_ ULS	Min	-2,283E-13	-115,0502	5-1	0,98804
6	0,00000	USL1		-1,714E-13	-115,0502	6-1	0,00000
6	0,49382	USL1		-1,434E-13	-152,4338	6-1	0,49382
6	0,98763	USL1		-1,153E-13	-215,8570	6-1	0,98763
6	0,00000	ULS2		-9,083E-16	-86,1159	6-1	0,00000
6	0,49382	ULS2		-9,239E-16	-107,9172	6-1	0,49382
6	0,98763	ULS2		-9,396E-16	-152,6977	6-1	0,98763
6	0,00000	ENVELOPE_ ULS	Max	-9,083E-16	-86,1159	6-1	0,00000
6	0,49382	ENVELOPE_ ULS	Max	-9,239E-16	-107,9172	6-1	0,49382
6	0,98763	ENVELOPE_ ULS	Max	-9,396E-16	-152,6977	6-1	0,98763

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
6	0,00000	ENVELOPE_ ULS	Min	-1,714E-13	-115,0502	6-1	0,00000
6	0,49382	ENVELOPE_ ULS	Min	-1,434E-13	-152,4338	6-1	0,49382
6	0,98763	ENVELOPE_ ULS	Min	-1,153E-13	-215,8570	6-1	0,98763
7	0,00000	USL1		-8,548E-14	-215,8570	7-1	0,00000
7	0,52308	USL1		-5,576E-14	-204,2564	7-1	0,52308
7	1,04617	USL1		-2,605E-14	-219,2672	7-1	1,04617
7	0,00000	ULS2		-2,157E-16	-152,6977	7-1	0,00000
7	0,52308	ULS2		-2,323E-16	-136,0211	7-1	0,52308
7	1,04617	ULS2		-2,489E-16	-143,0694	7-1	1,04617
7	0,00000	ENVELOPE_ ULS	Max	-2,157E-16	-152,6977	7-1	0,00000
7	0,52308	ENVELOPE_ ULS	Max	-2,323E-16	-136,0211	7-1	0,52308
7	1,04617	ENVELOPE_ ULS	Max	-2,489E-16	-143,0694	7-1	1,04617
7	0,00000	ENVELOPE_ ULS	Min	-8,548E-14	-215,8570	7-1	0,00000
7	0,52308	ENVELOPE_ ULS	Min	-5,576E-14	-204,2564	7-1	0,52308
7	1,04617	ENVELOPE_ ULS	Min	-2,605E-14	-219,2672	7-1	1,04617
8	0,00000	USL1		-2,790E-14	-219,2672	8-1	0,00000
8	0,54165	USL1		3,366E-14	-157,0702	8-1	0,54165
8	1,08329	USL1		9,522E-14	-125,1382	8-1	1,08329
8	0,00000	ULS2		5,202E-16	-143,0694	8-1	0,00000
8	0,54165	ULS2		5,031E-16	-89,1672	8-1	0,54165
8	1,08329	ULS2		4,859E-16	-62,4350	8-1	1,08329
8	0,00000	ENVELOPE_ ULS	Max	5,202E-16	-143,0694	8-1	0,00000
8	0,54165	ENVELOPE_ ULS	Max	3,366E-14	-89,1672	8-1	0,54165
8	1,08329	ENVELOPE_ ULS	Max	9,522E-14	-62,4350	8-1	1,08329
8	0,00000	ENVELOPE_ ULS	Min	-2,790E-14	-219,2672	8-1	0,00000
8	0,54165	ENVELOPE_ ULS	Min	5,031E-16	-157,0702	8-1	0,54165
8	1,08329	ENVELOPE_ ULS	Min	4,859E-16	-125,1382	8-1	1,08329
9	0,00000	USL1		1,149E-13	-125,1382	9-1	0,00000
9	0,49252	USL1		8,688E-14	-43,7609	9-1	0,49252
9	0,98504	USL1		5,887E-14	7,4868	9-1	0,98504
9	0,00000	ULS2		1,209E-15	-62,4350	9-1	0,00000
9	0,49252	ULS2		1,193E-15	0,1681	9-1	0,49252
9	0,98504	ULS2		1,177E-15	35,6859	9-1	0,98504
9	0,00000	ENVELOPE_ ULS	Max	1,149E-13	-62,4350	9-1	0,00000
9	0,49252	ENVELOPE_ ULS	Max	8,688E-14	0,1681	9-1	0,49252
9	0,98504	ENVELOPE_ ULS	Max	5,887E-14	35,6859	9-1	0,98504
9	0,00000	ENVELOPE_ ULS	Min	1,209E-15	-125,1382	9-1	0,00000
9	0,49252	ENVELOPE_ ULS	Min	1,193E-15	-43,7609	9-1	0,49252
9	0,98504	ENVELOPE_ ULS	Min	1,177E-15	7,4868	9-1	0,98504
10	0,00000	USL1		5,866E-14	7,4868	10-1	0,00000
10	0,49197	USL1		5,864E-14	92,6630	10-1	0,49197
10	0,98394	USL1		5,862E-14	142,4891	10-1	0,98394

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
10	0,00000	ULS2		1,812E-15	35,6859	10-1	0,00000
10	0,49197	ULS2		1,796E-15	93,2621	10-1	0,49197
10	0,98394	ULS2		1,781E-15	119,4334	10-1	0,98394
10	0,00000	ENVELOPE_ ULS	Max	5,866E-14	35,6859	10-1	0,00000
10	0,49197	ENVELOPE_ ULS	Max	5,864E-14	93,2621	10-1	0,49197
10	0,98394	ENVELOPE_ ULS	Max	5,862E-14	142,4891	10-1	0,98394
10	0,00000	ENVELOPE_ ULS	Min	1,812E-15	7,4868	10-1	0,00000
10	0,49197	ENVELOPE_ ULS	Min	1,796E-15	92,6630	10-1	0,49197
10	0,98394	ENVELOPE_ ULS	Min	1,781E-15	119,4334	10-1	0,98394
11	0,00000	USL1		8,757E-14	142,4891	11-1	0,00000
11	0,49208	USL1		1,155E-13	209,7774	11-1	0,49208
11	0,98416	USL1		1,435E-13	235,9157	11-1	0,98416
11	0,00000	ULS2		2,303E-15	119,4334	11-1	0,00000
11	0,49208	ULS2		2,288E-15	154,2684	11-1	0,49208
11	0,98416	ULS2		2,272E-15	153,1715	11-1	0,98416
11	0,00000	ENVELOPE_ ULS	Max	8,757E-14	142,4891	11-1	0,00000
11	0,49208	ENVELOPE_ ULS	Max	1,155E-13	209,7774	11-1	0,49208
11	0,98416	ENVELOPE_ ULS	Max	1,435E-13	235,9157	11-1	0,98416
11	0,00000	ENVELOPE_ ULS	Min	2,303E-15	119,4334	11-1	0,00000
11	0,49208	ENVELOPE_ ULS	Min	2,288E-15	154,2684	11-1	0,49208
11	0,98416	ENVELOPE_ ULS	Min	2,272E-15	153,1715	11-1	0,98416
12	0,00000	USL1		3,080E-14	235,9157	12-1	0,00000
12	0,50938	USL1		3,078E-14	220,8433	12-1	0,50938
12	1,01876	USL1		3,077E-14	154,2193	12-1	1,01876
12	0,00000	ULS2		2,376E-15	153,1715	12-1	0,00000
12	0,50938	ULS2		2,360E-15	113,2909	12-1	0,50938
12	1,01876	ULS2		2,344E-15	29,0590	12-1	1,01876
12	0,00000	ENVELOPE_ ULS	Max	3,080E-14	235,9157	12-1	0,00000
12	0,50938	ENVELOPE_ ULS	Max	3,078E-14	220,8433	12-1	0,50938
12	1,01876	ENVELOPE_ ULS	Max	3,077E-14	154,2193	12-1	1,01876
12	0,00000	ENVELOPE_ ULS	Min	2,376E-15	153,1715	12-1	0,00000
12	0,50938	ENVELOPE_ ULS	Min	2,360E-15	113,2909	12-1	0,50938
12	1,01876	ENVELOPE_ ULS	Min	2,344E-15	29,0590	12-1	1,01876
13	0,00000	USL1		8,761E-14	154,2193	13-1	0,00000
13	0,56894	USL1		1,199E-13	3,1514	13-1	0,56894
13	1,13787	USL1		1,523E-13	-220,9847	13-1	1,13787
13	0,00000	ULS2		2,344E-15	29,0590	13-1	0,00000
13	0,56894	ULS2		2,326E-15	-132,1290	13-1	0,56894
13	1,13787	ULS2		2,308E-15	-355,1856	13-1	1,13787
13	0,00000	ENVELOPE_ ULS	Max	8,761E-14	154,2193	13-1	0,00000
13	0,56894	ENVELOPE_ ULS	Max	1,199E-13	3,1514	13-1	0,56894
13	1,13787	ENVELOPE_ ULS	Max	1,523E-13	-220,9847	13-1	1,13787

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
13	0,00000	ENVELOPE_ ULS	Min	2,344E-15	29,0590	13-1	0,00000
13	0,56894	ENVELOPE_ ULS	Min	2,326E-15	-132,1290	13-1	0,56894
13	1,13787	ENVELOPE_ ULS	Min	2,308E-15	-355,1856	13-1	1,13787
14	0,00000	USL1		6,014E-14	-220,9847	14-1	0,00000
14	0,47625	USL1		6,012E-14	-127,8425	14-1	0,47625
14	0,95249	USL1		6,011E-14	-63,3125	14-1	0,95249
14	0,00000	ULS2		3,296E-15	-355,1856	14-1	0,00000
14	0,47625	ULS2		3,280E-15	-297,0055	14-1	0,47625
14	0,95249	ULS2		3,265E-15	-257,8095	14-1	0,95249
14	0,00000	ENVELOPE_ ULS	Max	6,014E-14	-220,9847	14-1	0,00000
14	0,47625	ENVELOPE_ ULS	Max	6,012E-14	-127,8425	14-1	0,47625
14	0,95249	ENVELOPE_ ULS	Max	6,011E-14	-63,3125	14-1	0,95249
14	0,00000	ENVELOPE_ ULS	Min	3,296E-15	-355,1856	14-1	0,00000
14	0,47625	ENVELOPE_ ULS	Min	3,280E-15	-297,0055	14-1	0,47625
14	0,95249	ENVELOPE_ ULS	Min	3,265E-15	-257,8095	14-1	0,95249
15	0,00000	USL1		7,432E-14	-63,3125	15-1	0,00000
15	0,47625	USL1		2,016E-14	-33,8582	15-1	0,47625
15	0,95249	USL1		-3,400E-14	-36,8944	15-1	0,95249
15	0,00000	ULS2		3,265E-15	-257,8095	15-1	0,00000
15	0,47625	ULS2		3,250E-15	-243,0972	15-1	0,47625
15	0,95249	ULS2		3,235E-15	-249,3195	15-1	0,95249
15	0,00000	ENVELOPE_ ULS	Max	7,432E-14	-63,3125	15-1	0,00000
15	0,47625	ENVELOPE_ ULS	Max	2,016E-14	-33,8582	15-1	0,47625
15	0,95249	ENVELOPE_ ULS	Max	3,235E-15	-36,8944	15-1	0,95249
15	0,00000	ENVELOPE_ ULS	Min	3,265E-15	-257,8095	15-1	0,00000
15	0,47625	ENVELOPE_ ULS	Min	3,250E-15	-243,0972	15-1	0,47625
15	0,95249	ENVELOPE_ ULS	Min	-3,400E-14	-249,3195	15-1	0,95249
16	0,00000	USL1		3,235E-15	-36,8944	16-1	0,00000
16	0,47625	USL1		-1,032E-14	-78,8849	16-1	0,47625
16	0,95249	USL1		-2,387E-14	-157,2444	16-1	0,95249
16	0,00000	ULS2		3,235E-15	-249,3195	16-1	0,00000
16	0,47625	ULS2		3,220E-15	-281,9741	16-1	0,47625
16	0,95249	ULS2		3,205E-15	-337,5025	16-1	0,95249
16	0,00000	ENVELOPE_ ULS	Max	3,235E-15	-36,8944	16-1	0,00000
16	0,47625	ENVELOPE_ ULS	Max	3,220E-15	-78,8849	16-1	0,47625
16	0,95249	ENVELOPE_ ULS	Max	3,205E-15	-157,2444	16-1	0,95249
16	0,00000	ENVELOPE_ ULS	Min	3,235E-15	-249,3195	16-1	0,00000
16	0,47625	ENVELOPE_ ULS	Min	-1,032E-14	-281,9741	16-1	0,47625
16	0,95249	ENVELOPE_ ULS	Min	-2,387E-14	-337,5025	16-1	0,95249
18	0,00000	USL1		6,663E-15	-56,1021	18-1	0,00000
18	0,47625	USL1		-1,947E-14	-48,1923	18-1	0,47625
18	0,95249	USL1		-4,560E-14	-84,4085	18-1	0,95249

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
18	0,00000	ULS2		-4,424E-16	-116,5198	18-1	0,00000
18	0,47625	ULS2		4,988E-16	-71,2835	18-1	0,47625
18	0,95249	ULS2		1,440E-15	-52,8109	18-1	0,95249
18	0,00000	ENVELOPE_ ULS	Max	6,663E-15	-56,1021	18-1	0,00000
18	0,47625	ENVELOPE_ ULS	Max	4,988E-16	-48,1923	18-1	0,47625
18	0,95249	ENVELOPE_ ULS	Max	1,440E-15	-52,8109	18-1	0,95249
18	0,00000	ENVELOPE_ ULS	Min	-4,424E-16	-116,5198	18-1	0,00000
18	0,47625	ENVELOPE_ ULS	Min	-1,947E-14	-71,2835	18-1	0,47625
18	0,95249	ENVELOPE_ ULS	Min	-4,560E-14	-84,4085	18-1	0,95249
19	0,00000	USL1		-6,501E-14	-84,4085	19-1	0,00000
19	0,38282	USL1		-5,965E-14	-6,5744	19-1	0,38282
19	0,76564	USL1		-5,394E-14	62,1809	19-1	0,76564
19	0,00000	ULS2		-8,170E-15	-52,8109	19-1	0,00000
19	0,38282	ULS2		-2,803E-15	-15,1639	19-1	0,38282
19	0,76564	ULS2		2,902E-15	25,2456	19-1	0,76564
19	0,00000	ENVELOPE_ ULS	Max	-8,170E-15	-52,8109	19-1	0,00000
19	0,38282	ENVELOPE_ ULS	Max	-2,803E-15	-6,5744	19-1	0,38282
19	0,76564	ENVELOPE_ ULS	Max	2,902E-15	62,1809	19-1	0,76564
19	0,00000	ENVELOPE_ ULS	Min	-6,501E-14	-84,4085	19-1	0,00000
19	0,38282	ENVELOPE_ ULS	Min	-5,965E-14	-15,1639	19-1	0,38282
19	0,76564	ENVELOPE_ ULS	Min	-5,394E-14	25,2456	19-1	0,76564
20	0,00000	USL1		-7,526E-14	62,1809	20-1	0,00000
20	0,36365	USL1		-5,919E-14	119,0849	20-1	0,36365
20	0,72730	USL1		-4,282E-14	167,7967	20-1	0,72730
20	0,00000	ULS2		2,902E-15	25,2456	20-1	0,00000
20	0,36365	ULS2		8,635E-15	66,1900	20-1	0,36365
20	0,72730	ULS2		1,467E-14	109,6273	20-1	0,72730
20	0,00000	ENVELOPE_ ULS	Max	2,902E-15	62,1809	20-1	0,00000
20	0,36365	ENVELOPE_ ULS	Max	8,635E-15	119,0849	20-1	0,36365
20	0,72730	ENVELOPE_ ULS	Max	1,467E-14	167,7967	20-1	0,72730
20	0,00000	ENVELOPE_ ULS	Min	-7,526E-14	25,2456	20-1	0,00000
20	0,36365	ENVELOPE_ ULS	Min	-5,919E-14	66,1900	20-1	0,36365
20	0,72730	ENVELOPE_ ULS	Min	-4,282E-14	109,6273	20-1	0,72730
21	0,00000	USL1		-1,670E-13	334,0030	21-1	0,00000
21	0,50061	USL1		-1,459E-13	354,5970	21-1	0,50061
21	1,00122	USL1		-1,268E-13	338,2257	21-1	1,00122
21	0,00000	ULS2		3,200E-14	244,6611	21-1	0,00000
21	0,50061	ULS2		3,883E-14	300,5287	21-1	0,50061
21	1,00122	ULS2		4,369E-14	340,4072	21-1	1,00122
21	0,00000	ENVELOPE_ ULS	Max	3,200E-14	334,0030	21-1	0,00000
21	0,50061	ENVELOPE_ ULS	Max	3,883E-14	354,5970	21-1	0,50061
21	1,00122	ENVELOPE_ ULS	Max	4,369E-14	340,4072	21-1	1,00122

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
21	0,00000	ENVELOPE_ ULS	Min	-1,670E-13	244,6611	21-1	0,00000
21	0,50061	ENVELOPE_ ULS	Min	-1,459E-13	300,5287	21-1	0,50061
21	1,00122	ENVELOPE_ ULS	Min	-1,268E-13	338,2257	21-1	1,00122
22	0,00000	USL1		-1,273E-13	338,2257	22-1	0,00000
22	0,49901	USL1		-1,568E-13	299,3819	22-1	0,49901
22	0,99802	USL1		-1,877E-13	227,0252	22-1	0,99802
22	0,00000	ULS2		4,323E-14	340,4072	22-1	0,00000
22	0,49901	ULS2		4,211E-14	331,3324	22-1	0,49901
22	0,99802	ULS2		3,959E-14	310,8818	22-1	0,99802
22	0,00000	ENVELOPE_ ULS	Max	4,323E-14	340,4072	22-1	0,00000
22	0,49901	ENVELOPE_ ULS	Max	4,211E-14	331,3324	22-1	0,49901
22	0,99802	ENVELOPE_ ULS	Max	3,959E-14	310,8818	22-1	0,99802
22	0,00000	ENVELOPE_ ULS	Min	-1,273E-13	338,2257	22-1	0,00000
22	0,49901	ENVELOPE_ ULS	Min	-1,568E-13	299,3819	22-1	0,49901
22	0,99802	ENVELOPE_ ULS	Min	-1,877E-13	227,0252	22-1	0,99802
23	0,00000	USL1		-1,884E-13	227,0252	23-1	0,00000
23	0,49922	USL1		-1,956E-13	152,8741	23-1	0,49922
23	0,99844	USL1		-2,034E-13	50,6319	23-1	0,99844
23	0,00000	ULS2		3,899E-14	310,8818	23-1	0,00000
23	0,49922	ULS2		3,179E-14	252,2214	23-1	0,49922
23	0,99844	ULS2		2,398E-14	188,5475	23-1	0,99844
23	0,00000	ENVELOPE_ ULS	Max	3,899E-14	310,8818	23-1	0,00000
23	0,49922	ENVELOPE_ ULS	Max	3,179E-14	252,2214	23-1	0,49922
23	0,99844	ENVELOPE_ ULS	Max	2,398E-14	188,5475	23-1	0,99844
23	0,00000	ENVELOPE_ ULS	Min	-1,884E-13	227,0252	23-1	0,00000
23	0,49922	ENVELOPE_ ULS	Min	-1,956E-13	152,8741	23-1	0,49922
23	0,99844	ENVELOPE_ ULS	Min	-2,034E-13	50,6319	23-1	0,99844
24	0,00000	USL1		-2,040E-13	50,6319	24-1	0,00000
24	0,52170	USL1		-1,261E-13	-36,3601	24-1	0,52170
24	1,04339	USL1		-4,781E-14	-146,7508	24-1	1,04339
24	0,00000	ULS2		2,333E-14	188,5475	24-1	0,00000
24	0,52170	ULS2		1,234E-14	98,9414	24-1	0,52170
24	1,04339	ULS2		1,635E-15	11,6563	24-1	1,04339
24	0,00000	ENVELOPE_ ULS	Max	2,333E-14	188,5475	24-1	0,00000
24	0,52170	ENVELOPE_ ULS	Max	1,234E-14	98,9414	24-1	0,52170
24	1,04339	ENVELOPE_ ULS	Max	1,635E-15	11,6563	24-1	1,04339
24	0,00000	ENVELOPE_ ULS	Min	-2,040E-13	50,6319	24-1	0,00000
24	0,52170	ENVELOPE_ ULS	Min	-1,261E-13	-36,3601	24-1	0,52170
24	1,04339	ENVELOPE_ ULS	Min	-4,781E-14	-146,7508	24-1	1,04339
25	0,00000	USL1		-5,587E-14	-146,7508	25-1	0,00000
25	0,50307	USL1		-3,713E-14	-206,3988	25-1	0,50307
25	1,00615	USL1		-1,767E-14	-284,0326	25-1	1,00615

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
25	0,00000	ULS2		9,741E-16	11,6563	25-1	0,00000
25	0,50307	ULS2		-8,886E-15	-68,7251	25-1	0,50307
25	1,00615	ULS2		-1,802E-14	-143,1760	25-1	1,00615
25	0,00000	ENVELOPE_ ULS	Max	9,741E-16	11,6563	25-1	0,00000
25	0,50307	ENVELOPE_ ULS	Max	-8,886E-15	-68,7251	25-1	0,50307
25	1,00615	ENVELOPE_ ULS	Max	-1,767E-14	-143,1760	25-1	1,00615
25	0,00000	ENVELOPE_ ULS	Min	-5,587E-14	-146,7508	25-1	0,00000
25	0,50307	ENVELOPE_ ULS	Min	-3,713E-14	-206,3988	25-1	0,50307
25	1,00615	ENVELOPE_ ULS	Min	-1,802E-14	-284,0326	25-1	1,00615
26	0,00000	USL1		3,414E-14	-110,7230	26-1	0,00000
26	0,23812	USL1		2,277E-14	-78,2604	26-1	0,23812
26	0,47625	USL1		1,140E-14	-56,1021	26-1	0,47625
26	0,00000	ULS2		-1,384E-15	-192,0687	26-1	0,00000
26	0,23812	ULS2		-9,130E-16	-151,1316	26-1	0,23812
26	0,47625	ULS2		-4,424E-16	-116,5198	26-1	0,47625
26	0,00000	ENVELOPE_ ULS	Max	3,414E-14	-110,7230	26-1	0,00000
26	0,23812	ENVELOPE_ ULS	Max	2,277E-14	-78,2604	26-1	0,23812
26	0,47625	ENVELOPE_ ULS	Max	1,140E-14	-56,1021	26-1	0,47625
26	0,00000	ENVELOPE_ ULS	Min	-1,384E-15	-192,0687	26-1	0,00000
26	0,23812	ENVELOPE_ ULS	Min	-9,130E-16	-151,1316	26-1	0,23812
26	0,47625	ENVELOPE_ ULS	Min	-4,424E-16	-116,5198	26-1	0,47625
27	0,00000	USL1		6,662E-14	-284,0326	27-1	0,00000
27	0,50047	USL1		8,801E-14	-303,5275	27-1	0,50047
27	1,00094	USL1		1,101E-13	-340,6036	27-1	1,00094
27	0,00000	ULS2		-1,865E-14	-143,1760	27-1	0,00000
27	0,50047	ULS2		-2,570E-14	-200,6815	27-1	0,50047
27	1,00094	ULS2		-3,207E-14	-252,5745	27-1	1,00094
27	0,00000	ENVELOPE_ ULS	Max	6,662E-14	-143,1760	27-1	0,00000
27	0,50047	ENVELOPE_ ULS	Max	8,801E-14	-200,6815	27-1	0,50047
27	1,00094	ENVELOPE_ ULS	Max	1,101E-13	-252,5745	27-1	1,00094
27	0,00000	ENVELOPE_ ULS	Min	-1,865E-14	-284,0326	27-1	0,00000
27	0,50047	ENVELOPE_ ULS	Min	-2,570E-14	-303,5275	27-1	0,50047
27	1,00094	ENVELOPE_ ULS	Min	-3,207E-14	-340,6036	27-1	1,00094
28	0,00000	USL1		5,261E-14	-340,6036	28-1	0,00000
28	0,50102	USL1		1,076E-13	-304,9882	28-1	0,50102
28	1,00204	USL1		1,632E-13	-286,5659	28-1	1,00204
28	0,00000	ULS2		-3,265E-14	-252,5745	28-1	0,00000
28	0,50102	ULS2		-3,465E-14	-268,7593	28-1	0,50102
28	1,00204	ULS2		-3,602E-14	-279,8212	28-1	1,00204
28	0,00000	ENVELOPE_ ULS	Max	5,261E-14	-252,5745	28-1	0,00000
28	0,50102	ENVELOPE_ ULS	Max	1,076E-13	-268,7593	28-1	0,50102
28	1,00204	ENVELOPE_ ULS	Max	1,632E-13	-279,8212	28-1	1,00204

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
28	0,00000	ENVELOPE_ ULS	Min	-3,265E-14	-340,6036	28-1	0,00000
28	0,50102	ENVELOPE_ ULS	Min	-3,465E-14	-304,9882	28-1	0,50102
28	1,00204	ENVELOPE_ ULS	Min	-3,602E-14	-286,5659	28-1	1,00204
29	0,00000	USL1		1,340E-13	-286,5659	29-1	0,00000
29	0,50160	USL1		1,399E-13	-178,5170	29-1	0,50160
29	1,00321	USL1		1,464E-13	-87,1206	29-1	1,00321
29	0,00000	ULS2		-3,652E-14	-279,8212	29-1	0,00000
29	0,50160	ULS2		-3,060E-14	-231,3759	29-1	0,50160
29	1,00321	ULS2		-2,415E-14	-178,5235	29-1	1,00321
29	0,00000	ENVELOPE_ ULS	Max	1,340E-13	-279,8212	29-1	0,00000
29	0,50160	ENVELOPE_ ULS	Max	1,399E-13	-178,5170	29-1	0,50160
29	1,00321	ENVELOPE_ ULS	Max	1,464E-13	-87,1206	29-1	1,00321
29	0,00000	ENVELOPE_ ULS	Min	-3,652E-14	-286,5659	29-1	0,00000
29	0,50160	ENVELOPE_ ULS	Min	-3,060E-14	-231,3759	29-1	0,50160
29	1,00321	ENVELOPE_ ULS	Min	-2,415E-14	-178,5235	29-1	1,00321
30	0,00000	USL1		3,595E-14	-4,3214	30-1	0,00000
30	0,38282	USL1		3,416E-14	-22,1120	30-1	0,38282
30	0,76564	USL1		3,270E-14	-48,9814	30-1	0,76564
30	0,00000	ULS2		-6,680E-15	-63,0584	30-1	0,00000
30	0,38282	ULS2		-8,474E-15	-75,8148	30-1	0,38282
30	0,76564	ULS2		-9,929E-15	-85,8087	30-1	0,76564
30	0,00000	ENVELOPE_ ULS	Max	3,595E-14	-4,3214	30-1	0,00000
30	0,38282	ENVELOPE_ ULS	Max	3,416E-14	-22,1120	30-1	0,38282
30	0,76564	ENVELOPE_ ULS	Max	3,270E-14	-48,9814	30-1	0,76564
30	0,00000	ENVELOPE_ ULS	Min	-6,680E-15	-63,0584	30-1	0,00000
30	0,38282	ENVELOPE_ ULS	Min	-8,474E-15	-75,8148	30-1	0,38282
30	0,76564	ENVELOPE_ ULS	Min	-9,929E-15	-85,8087	30-1	0,76564
31	0,00000	USL1		3,270E-14	-48,9814	31-1	0,00000
31	0,38282	USL1		3,159E-14	-84,9295	31-1	0,38282
31	0,76564	USL1		3,081E-14	-129,9565	31-1	0,76564
31	0,00000	ULS2		-9,929E-15	-85,8087	31-1	0,00000
31	0,38282	ULS2		-1,105E-14	-93,0399	31-1	0,38282
31	0,76564	ULS2		-1,182E-14	-97,5087	31-1	0,76564
31	0,00000	ENVELOPE_ ULS	Max	3,270E-14	-48,9814	31-1	0,00000
31	0,38282	ENVELOPE_ ULS	Max	3,159E-14	-84,9295	31-1	0,38282
31	0,76564	ENVELOPE_ ULS	Max	3,081E-14	-97,5087	31-1	0,76564
31	0,00000	ENVELOPE_ ULS	Min	-9,929E-15	-85,8087	31-1	0,00000
31	0,38282	ENVELOPE_ ULS	Min	-1,105E-14	-93,0399	31-1	0,38282
31	0,76564	ENVELOPE_ ULS	Min	-1,182E-14	-129,9565	31-1	0,76564
32	0,00000	USL1		3,033E-14	-129,9565	32-1	0,00000
32	0,47625	USL1		3,343E-14	-47,2165	32-1	0,47625
32	0,95249	USL1		3,652E-14	18,1612	32-1	0,95249

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
32	0,00000	ULS2		-1,230E-14	-97,5087	32-1	0,00000
32	0,47625	ULS2		-9,205E-15	-69,8806	32-1	0,47625
32	0,95249	ULS2		-6,109E-15	-42,2526	32-1	0,95249
32	0,00000	ENVELOPE_ ULS	Max	3,033E-14	-97,5087	32-1	0,00000
32	0,47625	ENVELOPE_ ULS	Max	3,343E-14	-47,2165	32-1	0,47625
32	0,95249	ENVELOPE_ ULS	Max	3,652E-14	18,1612	32-1	0,95249
32	0,00000	ENVELOPE_ ULS	Min	-1,230E-14	-129,9565	32-1	0,00000
32	0,47625	ENVELOPE_ ULS	Min	-9,205E-15	-69,8806	32-1	0,47625
32	0,95249	ENVELOPE_ ULS	Min	-6,109E-15	-42,2526	32-1	0,95249
34	0,00000	USL1		1,836E-13	602,4307	34-1	0,00000
34	0,47625	USL1		2,012E-13	879,8763	34-1	0,47625
34	0,95249	USL1		2,188E-13	1143,8267	34-1	0,95249
34	0,00000	ULS2		4,856E-14	422,7268	34-1	0,00000
34	0,47625	ULS2		7,972E-14	677,2828	34-1	0,47625
34	0,95249	ULS2		1,109E-13	931,8389	34-1	0,95249
34	0,00000	ENVELOPE_ ULS	Max	1,836E-13	602,4307	34-1	0,00000
34	0,47625	ENVELOPE_ ULS	Max	2,012E-13	879,8763	34-1	0,47625
34	0,95249	ENVELOPE_ ULS	Max	2,188E-13	1143,8267	34-1	0,95249
34	0,00000	ENVELOPE_ ULS	Min	4,856E-14	422,7268	34-1	0,00000
34	0,47625	ENVELOPE_ ULS	Min	7,972E-14	677,2828	34-1	0,47625
34	0,95249	ENVELOPE_ ULS	Min	1,109E-13	931,8389	34-1	0,95249
35	0,00000	USL1		2,246E-13	1143,8267	35-1	0,00000
35	0,47625	USL1		2,165E-13	1157,6844	35-1	0,47625
35	0,95249	USL1		2,084E-13	1159,9862	35-1	0,95249
35	0,00000	ULS2		1,109E-13	931,8389	35-1	0,00000
35	0,47625	ULS2		1,129E-13	948,7080	35-1	0,47625
35	0,95249	ULS2		1,150E-13	965,5772	35-1	0,95249
35	0,00000	ENVELOPE_ ULS	Max	2,246E-13	1143,8267	35-1	0,00000
35	0,47625	ENVELOPE_ ULS	Max	2,165E-13	1157,6844	35-1	0,47625
35	0,95249	ENVELOPE_ ULS	Max	2,084E-13	1159,9862	35-1	0,95249
35	0,00000	ENVELOPE_ ULS	Min	1,109E-13	931,8389	35-1	0,00000
35	0,47625	ENVELOPE_ ULS	Min	1,129E-13	948,7080	35-1	0,47625
35	0,95249	ENVELOPE_ ULS	Min	1,150E-13	965,5772	35-1	0,95249
36	0,00000	USL1		1,860E-13	1159,9862	36-1	0,00000
36	0,47625	USL1		1,267E-13	926,6086	36-1	0,47625
36	0,95249	USL1		6,731E-14	683,6028	36-1	0,95249
36	0,00000	ULS2		1,150E-13	965,5772	36-1	0,00000
36	0,47625	ULS2		8,946E-14	757,2701	36-1	0,47625
36	0,95249	ULS2		6,393E-14	548,9630	36-1	0,95249
36	0,00000	ENVELOPE_ ULS	Max	1,860E-13	1159,9862	36-1	0,00000
36	0,47625	ENVELOPE_ ULS	Max	1,267E-13	926,6086	36-1	0,47625
36	0,95249	ENVELOPE_ ULS	Max	6,731E-14	683,6028	36-1	0,95249

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
36	0,00000	ENVELOPE_ ULS	Min	1,150E-13	965,5772	36-1	0,00000
36	0,47625	ENVELOPE_ ULS	Min	8,946E-14	757,2701	36-1	0,47625
36	0,95249	ENVELOPE_ ULS	Min	6,393E-14	548,9630	36-1	0,95249
37	0,00000	USL1		4,363E-14	18,1612	37-1	0,00000
37	0,23812	USL1		5,899E-14	46,9025	37-1	0,23812
37	0,47625	USL1		7,435E-14	71,6648	37-1	0,47625
37	0,00000	ULS2		-6,109E-15	-42,2526	37-1	0,00000
37	0,23812	ULS2		-4,284E-15	-26,1764	37-1	0,23812
37	0,47625	ULS2		-2,458E-15	-10,1002	37-1	0,47625
37	0,00000	ENVELOPE_ ULS	Max	4,363E-14	18,1612	37-1	0,00000
37	0,23812	ENVELOPE_ ULS	Max	5,899E-14	46,9025	37-1	0,23812
37	0,47625	ENVELOPE_ ULS	Max	7,435E-14	71,6648	37-1	0,47625
37	0,00000	ENVELOPE_ ULS	Min	-6,109E-15	-42,2526	37-1	0,00000
37	0,23812	ENVELOPE_ ULS	Min	-4,284E-15	-26,1764	37-1	0,23812
37	0,47625	ENVELOPE_ ULS	Min	-2,458E-15	-10,1002	37-1	0,47625
38	0,00000	USL1		1,288E-13	59,5111	38-1	0,00000
38	0,23812	USL1		1,868E-13	332,8400	38-1	0,23812
38	0,47625	USL1		2,448E-13	602,4307	38-1	0,47625
38	0,00000	ULS2		-1,333E-14	-82,8154	38-1	0,00000
38	0,23812	ULS2		1,762E-14	169,9557	38-1	0,23812
38	0,47625	ULS2		4,856E-14	422,7268	38-1	0,47625
38	0,00000	ENVELOPE_ ULS	Max	1,288E-13	59,5111	38-1	0,00000
38	0,23812	ENVELOPE_ ULS	Max	1,868E-13	332,8400	38-1	0,23812
38	0,47625	ENVELOPE_ ULS	Max	2,448E-13	602,4307	38-1	0,47625
38	0,00000	ENVELOPE_ ULS	Min	-1,333E-14	-82,8154	38-1	0,00000
38	0,23812	ENVELOPE_ ULS	Min	1,762E-14	169,9557	38-1	0,23812
38	0,47625	ENVELOPE_ ULS	Min	4,856E-14	422,7268	38-1	0,47625
39	0,00000	USL1		8,960E-14	-82,7991	39-1	0,00000
39	1,04715	USL1		8,445E-14	-55,0330	39-1	1,04715
39	2,09431	USL1		8,115E-14	-12,1536	39-1	2,09431
39	0,00000	ULS2		-1,698E-14	-115,4652	39-1	0,00000
39	1,04715	ULS2		-1,469E-14	-101,6468	39-1	1,04715
39	2,09431	ULS2		-1,055E-14	-72,7152	39-1	2,09431
39	0,00000	ENVELOPE_ ULS	Max	8,960E-14	-82,7991	39-1	0,00000
39	1,04715	ENVELOPE_ ULS	Max	8,445E-14	-55,0330	39-1	1,04715
39	2,09431	ENVELOPE_ ULS	Max	8,115E-14	-12,1536	39-1	2,09431
39	0,00000	ENVELOPE_ ULS	Min	-1,698E-14	-115,4652	39-1	0,00000
39	1,04715	ENVELOPE_ ULS	Min	-1,469E-14	-101,6468	39-1	1,04715
39	2,09431	ENVELOPE_ ULS	Min	-1,055E-14	-72,7152	39-1	2,09431
40	0,00000	USL1		1,437E-13	166,2063	40-1	0,00000
40	1,03322	USL1		1,093E-13	-8,0230	40-1	1,03322
40	2,06644	USL1		7,660E-14	-167,7135	40-1	2,06644

Table: Element Forces - Frames, Part 2 of 2

Frame	Station m	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem	ElemStation m
40	0,00000	ULS2		1,627E-14	135,0339	40-1	0,00000
40	1,03322	ULS2		-9,005E-15	-54,4156	40-1	1,03322
40	2,06644	ULS2		-3,250E-14	-229,3263	40-1	2,06644
40	0,00000	ENVELOPE_ ULS	Max	1,437E-13	166,2063	40-1	0,00000
40	1,03322	ENVELOPE_ ULS	Max	1,093E-13	-8,0230	40-1	1,03322
40	2,06644	ENVELOPE_ ULS	Max	7,660E-14	-167,7135	40-1	2,06644
40	0,00000	ENVELOPE_ ULS	Min	1,627E-14	135,0339	40-1	0,00000
40	1,03322	ENVELOPE_ ULS	Min	-9,005E-15	-54,4156	40-1	1,03322
40	2,06644	ENVELOPE_ ULS	Min	-3,250E-14	-229,3263	40-1	2,06644

Table: Element Joint Forces - Frames, Part 1 of 2

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
1	28	USL1	Combination		-213,576	2,845E-14	-1010,097	-4,653E-14
1	35	USL1	Combination		296,050	-2,845E-14	1028,052	5,365E-14
1	28	ULS2	Combination		-150,785	3,168E-17	-909,683	3,205E-15
1	35	ULS2	Combination		201,863	-3,168E-17	927,638	-3,190E-15
1	28	ENVELOPE_ ULS	Combination	Max	-150,785	2,845E-14	-909,683	3,205E-15
1	35	ENVELOPE_ ULS	Combination	Max	296,050	-3,168E-17	1028,052	5,365E-14
1	28	ENVELOPE_ ULS	Combination	Min	-213,576	3,168E-17	-1010,097	-4,653E-14
1	35	ENVELOPE_ ULS	Combination	Min	201,863	-2,845E-14	927,638	-3,190E-15
2	11	USL1	Combination		949,097	3,378E-14	994,923	1,706E-14
2	12	USL1	Combination		-977,410	-3,378E-14	-741,462	-4,196E-14
2	11	ULS2	Combination		866,625	3,168E-17	894,429	3,296E-15
2	12	ULS2	Combination		-866,625	-3,168E-17	-669,281	-3,321E-15
2	11	ENVELOPE_ ULS	Combination	Max	949,097	3,378E-14	994,923	1,706E-14
2	12	ENVELOPE_ ULS	Combination	Max	-866,625	-3,168E-17	-669,281	-3,321E-15
2	11	ENVELOPE_ ULS	Combination	Min	866,625	3,168E-17	894,429	3,296E-15
2	12	ENVELOPE_ ULS	Combination	Min	-977,410	-3,378E-14	-741,462	-4,196E-14
3	12	USL1	Combination		948,910	3,911E-14	741,462	4,906E-14
3	13	USL1	Combination		-969,016	-3,911E-14	-544,265	-7,573E-14
3	12	ULS2	Combination		838,125	3,168E-17	669,281	3,321E-15
3	13	ULS2	Combination		-838,125	-3,168E-17	-492,190	-3,344E-15
3	12	ENVELOPE_ ULS	Combination	Max	948,910	3,911E-14	741,462	4,906E-14
3	13	ENVELOPE_ ULS	Combination	Max	-838,125	-3,168E-17	-492,190	-3,344E-15
3	12	ENVELOPE_ ULS	Combination	Min	838,125	3,168E-17	669,281	3,321E-15
3	13	ENVELOPE_ ULS	Combination	Min	-969,016	-3,911E-14	-544,265	-7,573E-14
4	13	USL1	Combination		940,516	-1,418E-14	544,265	1,126E-13
4	14	USL1	Combination		-954,863	1,418E-14	-386,168	-9,929E-14
4	13	ULS2	Combination		809,625	3,168E-17	492,190	3,344E-15
4	14	ULS2	Combination		-809,625	-3,168E-17	-349,866	-3,366E-15

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
4	13	ENVELOPE_ ULS	Combination	Max	940,516	3,168E-17	544,265	1,126E-13
4	14	ENVELOPE_ ULS	Combination	Max	-809,625	1,418E-14	-349,866	-3,366E-15
4	13	ENVELOPE_ ULS	Combination	Min	809,625	-1,418E-14	492,190	3,344E-15
4	14	ENVELOPE_ ULS	Combination	Min	-954,863	-3,168E-17	-386,168	-9,929E-14
5	14	USL1	Combination		926,363	2,757E-14	386,168	1,196E-13
5	15	USL1	Combination		-934,628	-2,757E-14	-256,794	-1,140E-13
5	14	ULS2	Combination		781,125	3,168E-17	349,866	3,366E-15
5	15	ULS2	Combination		-781,125	-3,168E-17	-234,314	-3,382E-15
5	14	ENVELOPE_ ULS	Combination	Max	926,363	2,757E-14	386,168	1,196E-13
5	15	ENVELOPE_ ULS	Combination	Max	-781,125	-3,168E-17	-234,314	-3,382E-15
5	14	ENVELOPE_ ULS	Combination	Min	781,125	3,168E-17	349,866	3,366E-15
5	15	ENVELOPE_ ULS	Combination	Min	-934,628	-2,757E-14	-256,794	-1,140E-13
6	15	USL1	Combination		906,128	-1,745E-15	256,794	8,554E-14
6	16	USL1	Combination		-910,125	1,745E-15	-146,742	-6,756E-14
6	15	ULS2	Combination		752,625	3,168E-17	234,314	3,382E-15
6	16	ULS2	Combination		-752,625	-3,168E-17	-135,995	-3,392E-15
6	15	ENVELOPE_ ULS	Combination	Max	906,128	3,168E-17	256,794	8,554E-14
6	16	ENVELOPE_ ULS	Combination	Max	-752,625	1,745E-15	-135,995	-3,392E-15
6	15	ENVELOPE_ ULS	Combination	Min	752,625	-1,745E-15	234,314	3,382E-15
6	16	ENVELOPE_ ULS	Combination	Min	-910,125	-3,168E-17	-146,742	-6,756E-14
7	16	USL1	Combination		881,625	-4,171E-14	146,742	7,297E-14
7	17	USL1	Combination		-882,853	4,171E-14	-44,495	-6,568E-14
7	16	ULS2	Combination		724,125	3,168E-17	135,995	3,392E-15
7	17	ULS2	Combination		-724,125	-3,168E-17	-44,717	-3,395E-15
7	16	ENVELOPE_ ULS	Combination	Max	881,625	3,168E-17	146,742	7,297E-14
7	17	ENVELOPE_ ULS	Combination	Max	-724,125	4,171E-14	-44,495	-3,395E-15
7	16	ENVELOPE_ ULS	Combination	Min	724,125	-4,171E-14	135,995	3,392E-15
7	17	ENVELOPE_ ULS	Combination	Min	-882,853	-3,168E-17	-44,717	-6,568E-14
8	17	USL1	Combination		854,353	-9,412E-14	44,495	7,661E-14
8	18	USL1	Combination		-797,192	9,412E-14	61,375	-8,111E-14
8	17	ULS2	Combination		695,625	3,168E-17	44,717	3,395E-15
8	18	ULS2	Combination		-639,782	-3,168E-17	49,801	-3,391E-15
8	17	ENVELOPE_ ULS	Combination	Max	854,353	3,168E-17	44,717	7,661E-14
8	18	ENVELOPE_ ULS	Combination	Max	-639,782	9,412E-14	61,375	-3,391E-15
8	17	ENVELOPE_ ULS	Combination	Min	695,625	-9,412E-14	44,495	3,395E-15
8	18	ENVELOPE_ ULS	Combination	Min	-797,192	-3,168E-17	49,801	-8,111E-14
9	18	USL1	Combination		768,692	4,089E-14	-61,375	7,028E-14
9	19	USL1	Combination		-711,818	-4,089E-14	171,108	-7,621E-14
9	18	ULS2	Combination		611,282	3,168E-17	-49,801	3,391E-15
9	19	ULS2	Combination		-558,483	-3,168E-17	147,863	-3,381E-15
9	18	ENVELOPE_ ULS	Combination	Max	768,692	4,089E-14	-49,801	7,028E-14

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
9	19	ENVELOPE_ ULS	Combination	Max	-558,483	-3,168E-17	171,108	-3,381E-15
9	18	ENVELOPE_ ULS	Combination	Min	611,282	3,168E-17	-61,375	3,391E-15
9	19	ENVELOPE_ ULS	Combination	Min	-711,818	-4,089E-14	147,863	-7,621E-14
10	19	USL1	Combination		683,318	-7,962E-15	-171,108	8,143E-14
10	20	USL1	Combination		-618,514	7,962E-15	299,887	-7,131E-14
10	19	ULS2	Combination		529,983	3,168E-17	-147,863	3,381E-15
10	20	ULS2	Combination		-473,505	-3,168E-17	262,934	-3,365E-15
10	19	ENVELOPE_ ULS	Combination	Max	683,318	3,168E-17	-147,863	8,143E-14
10	20	ENVELOPE_ ULS	Combination	Max	-473,505	7,962E-15	299,887	-3,365E-15
10	19	ENVELOPE_ ULS	Combination	Min	529,983	-7,962E-15	-171,108	3,381E-15
10	20	ENVELOPE_ ULS	Combination	Min	-618,514	-3,168E-17	262,934	-7,131E-14
11	20	USL1	Combination		590,014	-6,836E-14	-299,887	5,466E-14
11	21	USL1	Combination		-513,974	6,836E-14	457,081	-6,507E-14
11	20	ULS2	Combination		445,005	3,168E-17	-262,934	3,365E-15
11	21	ULS2	Combination		-383,299	-3,168E-17	404,497	-3,344E-15
11	20	ENVELOPE_ ULS	Combination	Max	590,014	3,168E-17	-262,934	5,466E-14
11	21	ENVELOPE_ ULS	Combination	Max	-383,299	6,836E-14	457,081	-3,344E-15
11	20	ENVELOPE_ ULS	Combination	Min	445,005	-6,836E-14	-299,887	3,365E-15
11	21	ENVELOPE_ ULS	Combination	Min	-513,974	-3,168E-17	404,497	-6,507E-14
12	21	USL1	Combination		485,474	4,473E-15	-457,081	4,376E-14
12	22	USL1	Combination		-395,291	-4,473E-15	653,147	-3,396E-14
12	21	ULS2	Combination		354,799	3,168E-17	-404,497	3,344E-15
12	22	ULS2	Combination		-284,606	-3,168E-17	580,572	-3,321E-15
12	21	ENVELOPE_ ULS	Combination	Max	485,474	4,473E-15	-404,497	4,376E-14
12	22	ENVELOPE_ ULS	Combination	Max	-284,606	-3,168E-17	653,147	-3,321E-15
12	21	ENVELOPE_ ULS	Combination	Min	354,799	3,168E-17	-457,081	3,344E-15
12	22	ENVELOPE_ ULS	Combination	Min	-395,291	-4,473E-15	580,572	-3,396E-14
13	22	USL1	Combination		366,791	-1,119E-13	-653,147	2,597E-14
13	31	USL1	Combination		-252,758	1,119E-13	902,367	-9,078E-14
13	22	ULS2	Combination		256,106	3,168E-17	-580,572	3,321E-15
13	31	ULS2	Combination		-169,912	-3,168E-17	801,953	-3,296E-15
13	22	ENVELOPE_ ULS	Combination	Max	366,791	3,168E-17	-580,572	2,597E-14
13	31	ENVELOPE_ ULS	Combination	Max	-169,912	1,119E-13	902,367	-3,296E-15
13	22	ENVELOPE_ ULS	Combination	Min	256,106	-1,119E-13	-653,147	3,321E-15
13	31	ENVELOPE_ ULS	Combination	Min	-252,758	-3,168E-17	801,953	-9,078E-14
14	31	USL1	Combination		224,258	3,168E-17	-902,367	5,481E-14
14	30	USL1	Combination		-104,101	-3,168E-17	938,277	-1,027E-13
14	31	ULS2	Combination		141,412	3,168E-17	-801,953	3,296E-15
14	30	ULS2	Combination		-61,688	-3,168E-17	837,863	-3,265E-15
14	31	ENVELOPE_ ULS	Combination	Max	224,258	3,168E-17	-801,953	5,481E-14
14	30	ENVELOPE_ ULS	Combination	Max	-61,688	-3,168E-17	938,277	-3,265E-15

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
14	31	ENVELOPE_ ULS	Combination	Min	141,412	3,168E-17	-902,367	3,296E-15
14	30	ENVELOPE_ ULS	Combination	Min	-104,101	-3,168E-17	837,863	-1,027E-13
15	30	USL1	Combination		94,601	1,208E-13	-938,277	7,077E-14
15	29	USL1	Combination		41,844	-1,208E-13	974,187	5,361E-14
15	30	ULS2	Combination		52,188	3,168E-17	-837,863	3,265E-15
15	29	ULS2	Combination		35,727	-3,168E-17	873,773	-3,235E-15
15	30	ENVELOPE_ ULS	Combination	Max	94,601	1,208E-13	-837,863	7,077E-14
15	29	ENVELOPE_ ULS	Combination	Max	41,844	-3,168E-17	974,187	5,361E-14
15	30	ENVELOPE_ ULS	Combination	Min	52,188	3,168E-17	-938,277	3,265E-15
15	29	ENVELOPE_ ULS	Combination	Min	35,727	-1,208E-13	873,773	-3,235E-15
16	29	USL1	Combination		-51,344	2,135E-14	-974,187	1,459E-15
16	28	USL1	Combination		204,076	-2,135E-14	1010,097	2,522E-14
16	29	ULS2	Combination		-45,227	3,168E-17	-873,773	3,235E-15
16	28	ULS2	Combination		141,285	-3,168E-17	909,683	-3,205E-15
16	29	ENVELOPE_ ULS	Combination	Max	-45,227	2,135E-14	-873,773	3,235E-15
16	28	ENVELOPE_ ULS	Combination	Max	204,076	-3,168E-17	1010,097	2,522E-14
16	29	ENVELOPE_ ULS	Combination	Min	-51,344	3,168E-17	-974,187	1,459E-15
16	28	ENVELOPE_ ULS	Combination	Min	141,285	-2,135E-14	909,683	-3,205E-15
18	27	USL1	Combination		61,578	5,131E-14	-389,584	3,999E-15
18	32	USL1	Combination		123,729	-5,131E-14	407,539	4,119E-14
18	27	ULS2	Combination		122,401	-1,976E-15	-332,693	-4,424E-16
18	32	ULS2	Combination		-10,007	1,976E-15	350,648	-1,440E-15
18	27	ENVELOPE_ ULS	Combination	Max	122,401	5,131E-14	-332,693	3,999E-15
18	32	ENVELOPE_ ULS	Combination	Max	123,729	1,976E-15	407,539	4,119E-14
18	27	ENVELOPE_ ULS	Combination	Min	61,578	-1,976E-15	-389,584	-4,424E-16
18	32	ENVELOPE_ ULS	Combination	Min	-10,007	-5,131E-14	350,648	-1,440E-15
19	32	USL1	Combination		-133,229	7,141E-15	-215,175	-2,698E-14
19	33	USL1	Combination		133,229	4,353E-16	167,744	2,698E-14
19	32	ULS2	Combination		0,507	-1,976E-15	-94,733	1,440E-15
19	33	ULS2	Combination		-0,507	1,976E-15	109,166	-1,440E-15
19	32	ENVELOPE_ ULS	Combination	Max	0,507	7,141E-15	-94,733	1,440E-15
19	33	ENVELOPE_ ULS	Combination	Max	133,229	1,976E-15	167,744	2,698E-14
19	32	ENVELOPE_ ULS	Combination	Min	-133,229	-1,976E-15	-215,175	-2,698E-14
19	33	ENVELOPE_ ULS	Combination	Min	-0,507	4,353E-16	109,166	-1,440E-15
20	33	USL1	Combination		-142,729	4,287E-15	-167,744	-3,231E-14
20	9	USL1	Combination		142,729	2,910E-15	122,876	3,231E-14
20	33	ULS2	Combination		-8,993	-1,976E-15	-109,166	1,440E-15
20	9	ULS2	Combination		8,993	1,976E-15	122,876	-1,440E-15
20	33	ENVELOPE_ ULS	Combination	Max	-8,993	4,287E-15	-109,166	1,440E-15
20	9	ENVELOPE_ ULS	Combination	Max	142,729	2,910E-15	122,876	3,231E-14
20	33	ENVELOPE_ ULS	Combination	Min	-142,729	-1,976E-15	-167,744	-3,231E-14

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
20	9	ENVELOPE_	Combination	Min	8,993	1,976E-15	122,689	-1,440E-15
		ULS						
21	9	USL1	Combination		-615,403	-2,154E-14	-631,114	-1,151E-13
21	8	USL1	Combination		795,447	3,181E-14	591,167	8,558E-14
21	9	ULS2	Combination		-414,882	3,168E-17	-524,611	3,145E-15
21	8	ULS2	Combination		540,285	-3,168E-17	548,203	-3,124E-15
21	9	ENVELOPE_	Combination	Max	-414,882	3,168E-17	-524,611	3,145E-15
		ULS						
21	8	ENVELOPE_	Combination	Max	795,447	3,181E-14	591,167	8,558E-14
		ULS						
21	9	ENVELOPE_	Combination	Min	-615,403	-2,154E-14	-631,114	-1,151E-13
		ULS						
21	8	ENVELOPE_	Combination	Min	540,285	-3,168E-17	548,203	-3,124E-15
		ULS						
22	8	USL1	Combination		-804,947	-9,684E-15	-420,018	-7,769E-14
22	7	USL1	Combination		980,068	2,055E-14	366,998	8,925E-14
22	8	ULS2	Combination		-549,785	3,168E-17	-314,285	3,124E-15
22	7	ULS2	Combination		680,027	-3,168E-17	337,802	-3,108E-15
22	8	ENVELOPE_	Combination	Max	-549,785	3,168E-17	-314,285	3,124E-15
		ULS						
22	7	ENVELOPE_	Combination	Max	980,068	2,055E-14	366,998	8,925E-14
		ULS						
22	8	ENVELOPE_	Combination	Min	-804,947	-9,684E-15	-420,018	-7,769E-14
		ULS						
22	7	ENVELOPE_	Combination	Min	680,027	-3,168E-17	337,802	-3,108E-15
		ULS						
23	7	USL1	Combination		-989,568	1,010E-14	-202,881	-6,831E-14
23	6	USL1	Combination		1152,817	1,219E-15	138,703	7,765E-14
23	7	ULS2	Combination		-689,527	3,168E-17	-111,376	3,108E-15
23	6	ULS2	Combination		823,517	-3,168E-17	134,902	-3,098E-15
23	7	ENVELOPE_	Combination	Max	-689,527	1,010E-14	-111,376	3,108E-15
		ULS						
23	6	ENVELOPE_	Combination	Max	1152,817	1,219E-15	138,703	7,765E-14
		ULS						
23	7	ENVELOPE_	Combination	Min	-989,568	3,168E-17	-202,881	-6,831E-14
		ULS						
23	6	ENVELOPE_	Combination	Min	823,517	-3,168E-17	134,902	-3,098E-15
		ULS						
24	6	USL1	Combination		-1162,317	-1,218E-13	18,216	-7,362E-14
24	5	USL1	Combination		1316,030	1,339E-13	-91,647	4,819E-14
24	6	ULS2	Combination		-833,017	3,168E-17	83,970	3,098E-15
24	5	ULS2	Combination		976,014	-3,168E-17	-59,385	-3,094E-15
24	6	ENVELOPE_	Combination	Max	-833,017	3,168E-17	83,970	3,098E-15
		ULS						
24	5	ENVELOPE_	Combination	Max	1316,030	1,339E-13	-59,385	4,819E-14
		ULS						
24	6	ENVELOPE_	Combination	Min	-1162,317	-1,218E-13	18,216	-7,362E-14
		ULS						
24	5	ENVELOPE_	Combination	Min	976,014	-3,168E-17	-91,647	-3,094E-15
		ULS						
25	5	USL1	Combination		-1325,530	-4,210E-14	240,859	-5,707E-14
25	4	USL1	Combination		1315,565	5,374E-14	-311,708	6,473E-14
25	5	ULS2	Combination		-985,514	3,168E-17	270,453	3,094E-15
25	4	ULS2	Combination		985,514	-3,168E-17	-246,745	-3,098E-15
25	5	ENVELOPE_	Combination	Max	-985,514	3,168E-17	270,453	3,094E-15
		ULS						
25	4	ENVELOPE_	Combination	Max	1315,565	5,374E-14	-246,745	6,473E-14
		ULS						
25	5	ENVELOPE_	Combination	Min	-1325,530	-4,210E-14	240,859	-5,707E-14
		ULS						
25	4	ENVELOPE_	Combination	Min	985,514	-3,168E-17	-311,708	-3,098E-15
		ULS						
26	35	USL1	Combination		157,624	4,776E-14	-380,606	3,414E-14

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
26	27	USL1	Combination		-71,078	-4,776E-14	389,584	-6,663E-15
26	35	ULS2	Combination		185,026	-1,976E-15	-323,716	-1,384E-15
26	27	ULS2	Combination		-131,901	1,976E-15	332,693	4,424E-16
26	35	ENVELOPE_ ULS	Combination	Max	185,026	4,776E-14	-323,716	3,414E-14
26	27	ENVELOPE_ ULS	Combination	Max	-71,078	1,976E-15	389,584	4,424E-16
26	35	ENVELOPE_ ULS	Combination	Min	157,624	-1,976E-15	-380,606	-1,384E-15
26	27	ENVELOPE_ ULS	Combination	Min	-131,901	-4,776E-14	332,693	-6,663E-15
27	4	USL1	Combination		-1325,065	2,084E-14	453,217	-6,436E-14
27	3	USL1	Combination		1296,397	-9,485E-15	-517,774	6,335E-14
27	4	ULS2	Combination		-995,014	3,168E-17	450,348	3,098E-15
27	3	ULS2	Combination		995,014	-3,168E-17	-426,763	-3,108E-15
27	4	ENVELOPE_ ULS	Combination	Max	-995,014	2,084E-14	453,217	3,098E-15
27	3	ENVELOPE_ ULS	Combination	Max	1296,397	-3,168E-17	-426,763	6,335E-14
27	4	ENVELOPE_ ULS	Combination	Min	-1325,065	3,168E-17	450,348	-6,436E-14
27	3	ENVELOPE_ ULS	Combination	Min	995,014	-9,485E-15	-517,774	-3,108E-15
28	3	USL1	Combination		-1305,897	-4,154E-14	651,419	-7,484E-14
28	2	USL1	Combination		1261,366	5,245E-14	-704,960	1,115E-13
28	3	ULS2	Combination		-1004,514	3,168E-17	622,997	3,108E-15
28	2	ULS2	Combination		1004,514	-3,168E-17	-599,385	-3,123E-15
28	3	ENVELOPE_ ULS	Combination	Max	-1004,514	3,168E-17	651,419	3,108E-15
28	2	ENVELOPE_ ULS	Combination	Max	1261,366	5,245E-14	-599,385	1,115E-13
28	3	ENVELOPE_ ULS	Combination	Min	-1305,897	-4,154E-14	622,997	-7,484E-14
28	2	ENVELOPE_ ULS	Combination	Min	1004,514	-3,168E-17	-704,960	-3,123E-15
29	2	USL1	Combination		-1270,866	-9,335E-17	830,844	-1,078E-13
29	1	USL1	Combination		1214,698	1,038E-14	-869,623	1,120E-13
29	2	ULS2	Combination		-1014,014	3,168E-17	788,458	3,123E-15
29	1	ULS2	Combination		1014,014	-3,168E-17	-764,819	-3,145E-15
29	2	ENVELOPE_ ULS	Combination	Max	-1014,014	3,168E-17	830,844	3,123E-15
29	1	ENVELOPE_ ULS	Combination	Max	1214,698	1,038E-14	-764,819	1,120E-13
29	2	ENVELOPE_ ULS	Combination	Min	-1270,866	-9,335E-17	788,458	-1,078E-13
29	1	ENVELOPE_ ULS	Combination	Min	1014,014	-3,168E-17	-869,623	-3,145E-15
30	1	USL1	Combination		-173,637	3,281E-14	34,615	-3,162E-14
30	34	USL1	Combination		173,637	-2,524E-14	-82,046	3,162E-14
30	1	ULS2	Combination		-39,012	6,035E-16	36,930	3,593E-16
30	34	ULS2	Combination		39,012	-6,035E-16	-22,498	-3,593E-16
30	1	ENVELOPE_ ULS	Combination	Max	-39,012	3,281E-14	36,930	3,593E-16
30	34	ENVELOPE_ ULS	Combination	Max	173,637	-6,035E-16	-22,498	3,162E-14
30	1	ENVELOPE_ ULS	Combination	Min	-173,637	6,035E-16	34,615	-3,162E-14
30	34	ENVELOPE_ ULS	Combination	Min	39,012	-2,524E-14	-82,046	-3,593E-16
31	34	USL1	Combination		-183,137	-6,133E-14	82,046	-3,228E-14
31	10	USL1	Combination		183,137	6,891E-14	-129,477	3,088E-14
31	34	ULS2	Combination		-48,512	6,035E-16	22,498	3,593E-16

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
31	10	ULS2	Combination		48,512	-6,035E-16	-8,065	-3,593E-16
31	34	ENVELOPE_ ULS	Combination	Max	-48,512	6,035E-16	82,046	3,593E-16
31	10	ENVELOPE_ ULS	Combination	Max	183,137	6,891E-14	-8,065	3,088E-14
31	34	ENVELOPE_ ULS	Combination	Min	-183,137	-6,133E-14	22,498	-3,228E-14
31	10	ENVELOPE_ ULS	Combination	Min	48,512	-6,035E-16	-129,477	-3,593E-16
32	10	USL1	Combination		-192,637	8,266E-16	233,203	-6,804E-14
32	23	USL1	Combination		119,723	8,103E-15	-215,248	2,840E-14
32	10	ULS2	Combination		-58,012	6,035E-16	176,127	3,593E-16
32	23	ULS2	Combination		58,012	-6,035E-16	-158,172	-9,341E-16
32	10	ENVELOPE_ ULS	Combination	Max	-58,012	8,266E-16	233,203	3,593E-16
32	23	ENVELOPE_ ULS	Combination	Max	119,723	8,103E-15	-158,172	2,840E-14
32	10	ENVELOPE_ ULS	Combination	Min	-192,637	6,035E-16	176,127	-6,804E-14
32	23	ENVELOPE_ ULS	Combination	Min	58,012	-6,035E-16	-215,248	-9,341E-16
34	24	USL1	Combination		-597,419	3,840E-15	1102,652	-1,104E-13
34	25	USL1	Combination		540,745	3,100E-15	-1066,743	1,163E-13
34	24	ULS2	Combination		-534,505	3,168E-17	1002,158	3,205E-15
34	25	ULS2	Combination		534,505	-3,168E-17	-966,248	-3,235E-15
34	24	ENVELOPE_ ULS	Combination	Max	-534,505	3,840E-15	1102,652	3,205E-15
34	25	ENVELOPE_ ULS	Combination	Max	540,745	3,100E-15	-966,248	1,163E-13
34	24	ENVELOPE_ ULS	Combination	Min	-597,419	3,168E-17	1002,158	-1,104E-13
34	25	ENVELOPE_ ULS	Combination	Min	534,505	-3,168E-17	-1066,743	-3,235E-15
35	25	USL1	Combination		-41,905	4,023E-14	1066,743	-8,241E-14
35	26	USL1	Combination		-6,625	-3,428E-14	-1030,833	4,354E-14
35	25	ULS2	Combination		-35,421	3,168E-17	966,248	3,235E-15
35	26	ULS2	Combination		35,421	-3,168E-17	-930,339	-3,265E-15
35	25	ENVELOPE_ ULS	Combination	Max	-35,421	4,023E-14	1066,743	3,235E-15
35	26	ENVELOPE_ ULS	Combination	Max	35,421	-3,168E-17	-930,339	4,354E-14
35	25	ENVELOPE_ ULS	Combination	Min	-41,905	3,168E-17	966,248	-8,241E-14
35	26	ENVELOPE_ ULS	Combination	Min	-6,625	-3,428E-14	-1030,833	-3,265E-15
36	26	USL1	Combination		479,253	4,180E-14	1030,833	-4,590E-14
36	11	USL1	Combination		-519,686	-3,685E-14	-994,923	-1,271E-14
36	26	ULS2	Combination		437,394	3,168E-17	930,339	3,265E-15
36	11	ULS2	Combination		-437,394	-3,168E-17	-894,429	-3,296E-15
36	26	ENVELOPE_ ULS	Combination	Max	479,253	4,180E-14	1030,833	3,265E-15
36	11	ENVELOPE_ ULS	Combination	Max	-437,394	-3,168E-17	-894,429	-3,296E-15
36	26	ENVELOPE_ ULS	Combination	Min	437,394	3,168E-17	930,339	-4,590E-14
36	11	ENVELOPE_ ULS	Combination	Min	-519,686	-3,685E-14	-994,923	-1,271E-14
37	23	USL1	Combination		-129,223	-4,645E-14	215,248	-5,005E-14
37	36	USL1	Combination		95,803	5,054E-14	-206,270	4,237E-14
37	23	ULS2	Combination		-67,512	6,035E-16	158,172	9,341E-16
37	36	ULS2	Combination		67,512	-6,035E-16	-149,195	-1,222E-15
37	23	ENVELOPE_ ULS	Combination	Max	-67,512	6,035E-16	215,248	9,341E-16

Table: Element Joint Forces - Frames, Part 1 of 2

Frame	Joint	OutputCase	CaseType	StepType	F1 KN	F2 KN	F3 KN	M1 KN-m
37	36	ENVELOPE_ ULS	Combination	Max	95,803	5,054E-14	-149,195	4,237E-14
37	23	ENVELOPE_ ULS	Combination	Min	-129,223	-4,645E-14	158,172	-5,005E-14
37	36	ENVELOPE_ ULS	Combination	Min	67,512	-6,035E-16	-206,270	-1,222E-15
38	36	USL1	Combination		-1155,864	-1,337E-14	1120,607	-1,233E-13
38	24	USL1	Combination		1124,468	1,722E-14	-1102,652	1,096E-13
38	36	ULS2	Combination		-1061,514	3,168E-17	1020,113	3,190E-15
38	24	ULS2	Combination		1061,514	-3,168E-17	-1002,158	-3,205E-15
38	36	ENVELOPE_ ULS	Combination	Max	-1061,514	3,168E-17	1120,607	3,190E-15
38	24	ENVELOPE_ ULS	Combination	Max	1124,468	1,722E-14	-1002,158	1,096E-13
38	36	ENVELOPE_ ULS	Combination	Min	-1155,864	-1,337E-14	1020,113	-1,233E-13
38	24	ENVELOPE_ ULS	Combination	Min	1061,514	-3,168E-17	-1102,652	-3,205E-15
39	1	USL1	Combination		-1050,562	7,866E-15	953,816	-8,159E-14
39	36	USL1	Combination		1050,562	-7,866E-15	-914,337	5,488E-14
39	1	ULS2	Combination		-984,502	-5,718E-16	910,397	2,785E-15
39	36	ULS2	Combination		984,502	5,718E-16	-870,918	-1,968E-15
39	1	ENVELOPE_ ULS	Combination	Max	-984,502	7,866E-15	953,816	2,785E-15
39	36	ENVELOPE_ ULS	Combination	Max	1050,562	5,718E-16	-870,918	5,488E-14
39	1	ENVELOPE_ ULS	Combination	Min	-1050,562	-5,718E-16	910,397	-8,159E-14
39	36	ENVELOPE_ ULS	Combination	Min	984,502	-7,866E-15	-914,337	-1,968E-15
40	9	USL1	Combination		463,174	-1,311E-14	686,399	6,713E-14
40	35	USL1	Combination		-463,174	1,311E-14	-647,446	-4,561E-14
40	9	ULS2	Combination		396,389	-2,008E-15	642,876	-1,705E-15
40	35	ULS2	Combination		-396,389	2,008E-15	-603,922	4,574E-15
40	9	ENVELOPE_ ULS	Combination	Max	463,174	-2,008E-15	686,399	6,713E-14
40	35	ENVELOPE_ ULS	Combination	Max	-396,389	1,311E-14	-603,922	4,574E-15
40	9	ENVELOPE_ ULS	Combination	Min	396,389	-1,311E-14	642,876	-1,705E-15
40	35	ENVELOPE_ ULS	Combination	Min	-463,174	2,008E-15	-647,446	-4,561E-14

Table: Element Joint Forces - Frames, Part 2 of 2

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem
1	28	USL1		-157,2444	1,172E-13	1-1
1	35	USL1		278,4365	-1,172E-13	1-1
1	28	ULS2		-337,5025	-3,166E-17	1-1
1	35	ULS2		421,3950	3,166E-17	1-1
1	28	ENVELOPE_ ULS	Max	-157,2444	1,172E-13	1-1
1	35	ENVELOPE_ ULS	Max	421,3950	3,166E-17	1-1
1	28	ENVELOPE_ ULS	Min	-337,5025	-3,166E-17	1-1
1	35	ENVELOPE_ ULS	Min	278,4365	-1,172E-13	1-1
2	11	USL1		683,6028	-9,918E-14	2-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2	M3	FrameElem
				KN-m	KN-m	
2	12	USL1		-605,0118	1,259E-13	2-1
2	11	ULS2		548,9630	2,913E-16	2-1
2	12	ULS2		-479,5963	-2,654E-16	2-1
2	11	ENVELOPE_ ULS	Max	683,6028	2,913E-16	2-1
2	12	ENVELOPE_ ULS	Max	-479,5963	1,259E-13	2-1
2	11	ENVELOPE_ ULS	Min	548,9630	-9,918E-14	2-1
2	12	ENVELOPE_ ULS	Min	-605,0118	-2,654E-16	2-1
3	12	USL1		605,0118	-1,556E-13	3-1
3	13	USL1		-375,4197	1,845E-13	3-1
3	12	ULS2		479,5963	2,654E-16	3-1
3	13	ULS2		-293,1094	-2,424E-16	3-1
3	12	ENVELOPE_ ULS	Max	605,0118	2,654E-16	3-1
3	13	ENVELOPE_ ULS	Max	-293,1094	1,845E-13	3-1
3	12	ENVELOPE_ ULS	Min	479,5963	-1,556E-13	3-1
3	13	ENVELOPE_ ULS	Min	-375,4197	-2,424E-16	3-1
4	13	USL1		375,4197	-1,738E-13	4-1
4	14	USL1		-84,4960	1,685E-13	4-1
4	13	ULS2		293,1094	2,424E-16	4-1
4	14	ULS2		-62,2441	-2,192E-16	4-1
4	13	ENVELOPE_ ULS	Max	375,4197	2,424E-16	4-1
4	14	ENVELOPE_ ULS	Max	-62,2441	1,685E-13	4-1
4	13	ENVELOPE_ ULS	Min	293,1094	-1,738E-13	4-1
4	14	ENVELOPE_ ULS	Min	-84,4960	-2,192E-16	4-1
5	14	USL1		84,4960	-1,372E-13	5-1
5	15	USL1		115,0502	1,970E-13	5-1
5	14	ULS2		62,2441	2,192E-16	5-1
5	15	ULS2		86,1159	-1,924E-16	5-1
5	14	ENVELOPE_ ULS	Max	84,4960	2,192E-16	5-1
5	15	ENVELOPE_ ULS	Max	115,0502	1,970E-13	5-1
5	14	ENVELOPE_ ULS	Min	62,2441	-1,372E-13	5-1
5	15	ENVELOPE_ ULS	Min	86,1159	-1,924E-16	5-1
6	15	USL1		-115,0502	-1,255E-13	6-1
6	16	USL1		215,8570	8,333E-14	6-1
6	15	ULS2		-86,1159	1,924E-16	6-1
6	16	ULS2		152,6977	-1,628E-16	6-1
6	15	ENVELOPE_ ULS	Max	-86,1159	1,924E-16	6-1
6	16	ENVELOPE_ ULS	Max	215,8570	8,333E-14	6-1
6	15	ENVELOPE_ ULS	Min	-115,0502	-1,255E-13	6-1
6	16	ENVELOPE_ ULS	Min	152,6977	-1,628E-16	6-1
7	16	USL1		-215,8570	-1,078E-13	7-1
7	17	USL1		219,2672	-2,145E-14	7-1
7	16	ULS2		-152,6977	1,628E-16	7-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2	M3	FrameElem
				KN-m	KN-m	
7	17	ULS2		143,0694	-1,298E-16	7-1
7	16	ENVELOPE_ ULS	Max	-152,6977	1,628E-16	7-1
7	17	ENVELOPE_ ULS	Max	219,2672	-1,298E-16	7-1
7	16	ENVELOPE_ ULS	Min	-215,8570	-1,078E-13	7-1
7	17	ENVELOPE_ ULS	Min	143,0694	-2,145E-14	7-1
8	17	USL1		-219,2672	-2,119E-14	8-1
8	18	USL1		125,1382	-6,316E-14	8-1
8	17	ULS2		-143,0694	1,298E-16	8-1
8	18	ULS2		62,4350	-9,573E-17	8-1
8	17	ENVELOPE_ ULS	Max	-143,0694	1,298E-16	8-1
8	18	ENVELOPE_ ULS	Max	125,1382	-9,573E-17	8-1
8	17	ENVELOPE_ ULS	Min	-219,2672	-2,119E-14	8-1
8	18	ENVELOPE_ ULS	Min	62,4350	-6,316E-14	8-1
9	18	USL1		-125,1382	4,850E-14	9-1
9	19	USL1		-7,4868	-6,046E-14	9-1
9	18	ULS2		-62,4350	9,573E-17	9-1
9	19	ULS2		-35,6859	-6,627E-17	9-1
9	18	ENVELOPE_ ULS	Max	-62,4350	4,850E-14	9-1
9	19	ENVELOPE_ ULS	Max	-7,4868	-6,627E-17	9-1
9	18	ENVELOPE_ ULS	Min	-125,1382	9,573E-17	9-1
9	19	ENVELOPE_ ULS	Min	-35,6859	-6,046E-14	9-1
10	19	USL1		7,4868	-2,154E-15	10-1
10	20	USL1		-142,4891	-2,704E-15	10-1
10	19	ULS2		35,6859	6,627E-17	10-1
10	20	ULS2		-119,4334	-3,963E-17	10-1
10	19	ENVELOPE_ ULS	Max	35,6859	6,627E-17	10-1
10	20	ENVELOPE_ ULS	Max	-119,4334	-3,963E-17	10-1
10	19	ENVELOPE_ ULS	Min	7,4868	-2,154E-15	10-1
10	20	ENVELOPE_ ULS	Min	-142,4891	-2,704E-15	10-1
11	20	USL1		142,4891	3,592E-15	11-1
11	21	USL1		-235,9157	-8,898E-15	11-1
11	20	ULS2		119,4334	3,963E-17	11-1
11	21	ULS2		-153,1715	-1,665E-17	11-1
11	20	ENVELOPE_ ULS	Max	142,4891	3,592E-15	11-1
11	21	ENVELOPE_ ULS	Max	-153,1715	-1,665E-17	11-1
11	20	ENVELOPE_ ULS	Min	119,4334	3,963E-17	11-1
11	21	ENVELOPE_ ULS	Min	-235,9157	-8,898E-15	11-1
12	21	USL1		235,9157	2,400E-14	12-1
12	22	USL1		-154,2193	-6,039E-14	12-1
12	21	ULS2		153,1715	1,665E-17	12-1
12	22	ULS2		-29,0590	6,171E-18	12-1
12	21	ENVELOPE_ ULS	Max	235,9157	2,400E-14	12-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2	M3	FrameElem
				KN-m	KN-m	
12	22	ENVELOPE_ ULS	Max	-29,0590	6,171E-18	12-1
12	21	ENVELOPE_ ULS	Min	153,1715	1,665E-17	12-1
12	22	ENVELOPE_ ULS	Min	-154,2193	-6,039E-14	12-1
13	22	USL1		154,2193	8,348E-14	13-1
13	31	USL1		220,9847	-1,279E-13	13-1
13	22	ULS2		29,0590	-6,171E-18	13-1
13	31	ULS2		355,1856	3,166E-17	13-1
13	22	ENVELOPE_ ULS	Max	154,2193	8,348E-14	13-1
13	31	ENVELOPE_ ULS	Max	355,1856	3,166E-17	13-1
13	22	ENVELOPE_ ULS	Min	29,0590	-6,171E-18	13-1
13	31	ENVELOPE_ ULS	Min	220,9847	-1,279E-13	13-1
14	31	USL1		-220,9847	1,243E-13	14-1
14	30	USL1		63,3125	-1,243E-13	14-1
14	31	ULS2		-355,1856	-3,166E-17	14-1
14	30	ULS2		257,8095	3,166E-17	14-1
14	31	ENVELOPE_ ULS	Max	-220,9847	1,243E-13	14-1
14	30	ENVELOPE_ ULS	Max	257,8095	3,166E-17	14-1
14	31	ENVELOPE_ ULS	Min	-355,1856	-3,166E-17	14-1
14	30	ENVELOPE_ ULS	Min	63,3125	-1,243E-13	14-1
15	30	USL1		-63,3125	1,261E-13	15-1
15	29	USL1		36,8944	-1,261E-13	15-1
15	30	ULS2		-257,8095	-3,166E-17	15-1
15	29	ULS2		249,3195	3,166E-17	15-1
15	30	ENVELOPE_ ULS	Max	-63,3125	1,261E-13	15-1
15	29	ENVELOPE_ ULS	Max	249,3195	3,166E-17	15-1
15	30	ENVELOPE_ ULS	Min	-257,8095	-3,166E-17	15-1
15	29	ENVELOPE_ ULS	Min	36,8944	-1,261E-13	15-1
16	29	USL1		-36,8944	1,208E-13	16-1
16	28	USL1		157,2444	-1,208E-13	16-1
16	29	ULS2		-249,3195	-3,166E-17	16-1
16	28	ULS2		337,5025	3,166E-17	16-1
16	29	ENVELOPE_ ULS	Max	-36,8944	1,208E-13	16-1
16	28	ENVELOPE_ ULS	Max	337,5025	3,166E-17	16-1
16	29	ENVELOPE_ ULS	Min	-249,3195	-3,166E-17	16-1
16	28	ENVELOPE_ ULS	Min	157,2444	-1,208E-13	16-1
18	27	USL1		-56,1021	4,389E-14	18-1
18	32	USL1		84,4085	-4,389E-14	18-1
18	27	ULS2		-116,5198	1,703E-15	18-1
18	32	ULS2		52,8109	-1,703E-15	18-1
18	27	ENVELOPE_ ULS	Max	-56,1021	4,389E-14	18-1
18	32	ENVELOPE_ ULS	Max	84,4085	-1,703E-15	18-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2	M3	FrameElem
				KN-m	KN-m	
18	27	ENVELOPE_ ULS	Min	-116,5198	1,703E-15	18-1
18	32	ENVELOPE_ ULS	Min	52,8109	-4,389E-14	18-1
19	32	USL1		-84,4085	6,162E-14	19-1
19	33	USL1		-62,1809	-6,010E-14	19-1
19	32	ULS2		-52,8109	1,703E-15	19-1
19	33	ULS2		-25,2456	-1,899E-16	19-1
19	32	ENVELOPE_ ULS	Max	-52,8109	6,162E-14	19-1
19	33	ENVELOPE_ ULS	Max	-25,2456	-1,899E-16	19-1
19	32	ENVELOPE_ ULS	Min	-84,4085	1,703E-15	19-1
19	33	ENVELOPE_ ULS	Min	-62,1809	-6,010E-14	19-1
20	33	USL1		62,1809	6,415E-14	20-1
20	9	USL1		-167,7967	-8,358E-14	20-1
20	33	ULS2		25,2456	1,899E-16	20-1
20	9	ULS2		-109,6273	1,248E-15	20-1
20	33	ENVELOPE_ ULS	Max	62,1809	6,415E-14	20-1
20	9	ENVELOPE_ ULS	Max	-109,6273	1,248E-15	20-1
20	33	ENVELOPE_ ULS	Min	25,2456	1,899E-16	20-1
20	9	ENVELOPE_ ULS	Min	-167,7967	-8,358E-14	20-1
21	9	USL1		334,0030	2,023E-13	21-1
21	8	USL1		-338,2257	-1,770E-13	21-1
21	9	ULS2		244,6611	1,563E-17	21-1
21	8	ULS2		-340,4072	-3,968E-17	21-1
21	9	ENVELOPE_ ULS	Max	334,0030	2,023E-13	21-1
21	8	ENVELOPE_ ULS	Max	-338,2257	-3,968E-17	21-1
21	9	ENVELOPE_ ULS	Min	244,6611	1,563E-17	21-1
21	8	ENVELOPE_ ULS	Min	-340,4072	-1,770E-13	21-1
22	8	USL1		338,2257	1,596E-13	22-1
22	7	USL1		-227,0252	-1,769E-13	22-1
22	8	ULS2		340,4072	3,968E-17	22-1
22	7	ULS2		-310,8818	-6,696E-17	22-1
22	8	ENVELOPE_ ULS	Max	340,4072	1,596E-13	22-1
22	7	ENVELOPE_ ULS	Max	-227,0252	-6,696E-17	22-1
22	8	ENVELOPE_ ULS	Min	338,2257	3,968E-17	22-1
22	7	ENVELOPE_ ULS	Min	-310,8818	-1,769E-13	22-1
23	7	USL1		227,0252	1,928E-13	23-1
23	6	USL1		-50,6319	-1,928E-13	23-1
23	7	ULS2		310,8818	6,696E-17	23-1
23	6	ULS2		-188,5475	-9,696E-17	23-1
23	7	ENVELOPE_ ULS	Max	310,8818	1,928E-13	23-1
23	6	ENVELOPE_ ULS	Max	-50,6319	-9,696E-17	23-1
23	7	ENVELOPE_ ULS	Min	227,0252	6,696E-17	23-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2	M3	FrameElem
				KN-m	KN-m	
23	6	ENVELOPE_ ULS	Min	-188,5475	-1,928E-13	23-1
24	6	USL1		50,6319	1,782E-13	24-1
24	5	USL1		146,7508	-2,928E-14	24-1
24	6	ULS2		188,5475	9,696E-17	24-1
24	5	ULS2		-11,6563	-1,298E-16	24-1
24	6	ENVELOPE_ ULS	Max	188,5475	1,782E-13	24-1
24	5	ENVELOPE_ ULS	Max	146,7508	-1,298E-16	24-1
24	6	ENVELOPE_ ULS	Min	50,6319	9,696E-17	24-1
24	5	ENVELOPE_ ULS	Min	-11,6563	-2,928E-14	24-1
25	5	USL1		-146,7508	5,001E-14	25-1
25	4	USL1		284,0326	9,691E-15	25-1
25	5	ULS2		11,6563	1,298E-16	25-1
25	4	ULS2		143,1760	-1,615E-16	25-1
25	5	ENVELOPE_ ULS	Max	11,6563	5,001E-14	25-1
25	4	ENVELOPE_ ULS	Max	284,0326	9,691E-15	25-1
25	5	ENVELOPE_ ULS	Min	-146,7508	1,298E-16	25-1
25	4	ENVELOPE_ ULS	Min	143,1760	-1,615E-16	25-1
26	35	USL1		-110,7230	4,434E-14	26-1
26	27	USL1		56,1021	-4,434E-14	26-1
26	35	ULS2		-192,0687	1,703E-15	26-1
26	27	ULS2		116,5198	-1,703E-15	26-1
26	35	ENVELOPE_ ULS	Max	-110,7230	4,434E-14	26-1
26	27	ENVELOPE_ ULS	Max	116,5198	-1,703E-15	26-1
26	35	ENVELOPE_ ULS	Min	-192,0687	1,703E-15	26-1
26	27	ENVELOPE_ ULS	Min	56,1021	-4,434E-14	26-1
27	4	USL1		-284,0326	-9,156E-14	27-1
27	3	USL1		340,6036	3,624E-14	27-1
27	4	ULS2		-143,1760	1,615E-16	27-1
27	3	ULS2		252,5745	-1,917E-16	27-1
27	4	ENVELOPE_ ULS	Max	-143,1760	1,615E-16	27-1
27	3	ENVELOPE_ ULS	Max	340,6036	3,624E-14	27-1
27	4	ENVELOPE_ ULS	Min	-284,0326	-9,156E-14	27-1
27	3	ENVELOPE_ ULS	Min	252,5745	-1,917E-16	27-1
28	3	USL1		-340,6036	-5,944E-14	28-1
28	2	USL1		286,5659	1,596E-13	28-1
28	3	ULS2		-252,5745	1,917E-16	28-1
28	2	ULS2		279,8212	-2,192E-16	28-1
28	3	ENVELOPE_ ULS	Max	-252,5745	1,917E-16	28-1
28	2	ENVELOPE_ ULS	Max	286,5659	1,596E-13	28-1
28	3	ENVELOPE_ ULS	Min	-340,6036	-5,944E-14	28-1
28	2	ENVELOPE_ ULS	Min	279,8212	-2,192E-16	28-1
29	2	USL1		-286,5659	-1,066E-13	29-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2	M3	FrameElem
				KN-m	KN-m	
29	1	USL1		87,1206	1,274E-13	29-1
29	2	ULS2		-279,8212	2,192E-16	29-1
29	1	ULS2		178,5235	-2,428E-16	29-1
29	2	ENVELOPE_ ULS	Max	-279,8212	2,192E-16	29-1
29	1	ENVELOPE_ ULS	Max	178,5235	1,274E-13	29-1
29	2	ENVELOPE_ ULS	Min	-286,5659	-1,066E-13	29-1
29	1	ENVELOPE_ ULS	Min	87,1206	-2,428E-16	29-1
30	1	USL1		-4,3214	-4,061E-14	30-1
30	34	USL1		48,9814	1,527E-14	30-1
30	1	ULS2		-63,0584	-1,042E-15	30-1
30	34	ULS2		85,8087	5,799E-16	30-1
30	1	ENVELOPE_ ULS	Max	-4,3214	-1,042E-15	30-1
30	34	ENVELOPE_ ULS	Max	85,8087	1,527E-14	30-1
30	1	ENVELOPE_ ULS	Min	-63,0584	-4,061E-14	30-1
30	34	ENVELOPE_ ULS	Min	48,9814	5,799E-16	30-1
31	34	USL1		-48,9814	-3,304E-14	31-1
31	10	USL1		129,9565	6,810E-14	31-1
31	34	ULS2		-85,8087	-5,799E-16	31-1
31	10	ULS2		97,5087	1,179E-16	31-1
31	34	ENVELOPE_ ULS	Max	-48,9814	-5,799E-16	31-1
31	10	ENVELOPE_ ULS	Max	129,9565	6,810E-14	31-1
31	34	ENVELOPE_ ULS	Min	-85,8087	-3,304E-14	31-1
31	10	ENVELOPE_ ULS	Min	97,5087	1,179E-16	31-1
32	10	USL1		-129,9565	-2,499E-14	32-1
32	23	USL1		-18,1612	2,499E-14	32-1
32	10	ULS2		-97,5087	-1,179E-16	32-1
32	23	ULS2		42,2526	1,179E-16	32-1
32	10	ENVELOPE_ ULS	Max	-97,5087	-1,179E-16	32-1
32	23	ENVELOPE_ ULS	Max	42,2526	2,499E-14	32-1
32	10	ENVELOPE_ ULS	Min	-129,9565	-2,499E-14	32-1
32	23	ENVELOPE_ ULS	Min	-18,1612	1,179E-16	32-1
34	24	USL1		602,4307	-9,208E-14	34-1
34	25	USL1		-1143,8267	8,853E-14	34-1
34	24	ULS2		422,7268	2,913E-16	34-1
34	25	ULS2		-931,8389	-2,913E-16	34-1
34	24	ENVELOPE_ ULS	Max	602,4307	2,913E-16	34-1
34	25	ENVELOPE_ ULS	Max	-931,8389	8,853E-14	34-1
34	24	ENVELOPE_ ULS	Min	422,7268	-9,208E-14	34-1
34	25	ENVELOPE_ ULS	Min	-1143,8267	-2,913E-16	34-1
35	25	USL1		1143,8267	-9,563E-14	35-1
35	26	USL1		-1159,9862	9,563E-14	35-1
35	25	ULS2		931,8389	2,913E-16	35-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2	M3	FrameElem
				KN-m	KN-m	
35	26	ULS2		-965,5772	-2,913E-16	35-1
35	25	ENVELOPE_ ULS	Max	1143,8267	2,913E-16	35-1
35	26	ENVELOPE_ ULS	Max	-965,5772	9,563E-14	35-1
35	25	ENVELOPE_ ULS	Min	931,8389	-9,563E-14	35-1
35	26	ENVELOPE_ ULS	Min	-1159,9862	-2,913E-16	35-1
36	26	USL1		1159,9862	-9,208E-14	36-1
36	11	USL1		-683,6028	9,208E-14	36-1
36	26	ULS2		965,5772	2,913E-16	36-1
36	11	ULS2		-548,9630	-2,913E-16	36-1
36	26	ENVELOPE_ ULS	Max	1159,9862	2,913E-16	36-1
36	11	ENVELOPE_ ULS	Max	-548,9630	9,208E-14	36-1
36	26	ENVELOPE_ ULS	Min	965,5772	-9,208E-14	36-1
36	11	ENVELOPE_ ULS	Min	-683,6028	-2,913E-16	36-1
37	23	USL1		18,1612	-2,588E-14	37-1
37	36	USL1		-71,6648	2,588E-14	37-1
37	23	ULS2		-42,2526	-1,179E-16	37-1
37	36	ULS2		10,1002	1,179E-16	37-1
37	23	ENVELOPE_ ULS	Max	18,1612	-1,179E-16	37-1
37	36	ENVELOPE_ ULS	Max	10,1002	2,588E-14	37-1
37	23	ENVELOPE_ ULS	Min	-42,2526	-2,588E-14	37-1
37	36	ENVELOPE_ ULS	Min	-71,6648	1,179E-16	37-1
38	36	USL1		59,5111	-9,208E-14	38-1
38	24	USL1		-602,4307	9,208E-14	38-1
38	36	ULS2		-82,8154	2,913E-16	38-1
38	24	ULS2		-422,7268	-2,913E-16	38-1
38	36	ENVELOPE_ ULS	Max	59,5111	2,913E-16	38-1
38	24	ENVELOPE_ ULS	Max	-422,7268	9,208E-14	38-1
38	36	ENVELOPE_ ULS	Min	-82,8154	-9,208E-14	38-1
38	24	ENVELOPE_ ULS	Min	-602,4307	-2,913E-16	38-1
39	1	USL1		-82,7991	-7,632E-14	39-1
39	36	USL1		12,1536	4,888E-14	39-1
39	1	ULS2		-115,4652	1,285E-15	39-1
39	36	ULS2		72,7152	-4,092E-16	39-1
39	1	ENVELOPE_ ULS	Max	-82,7991	1,285E-15	39-1
39	36	ENVELOPE_ ULS	Max	72,7152	4,888E-14	39-1
39	1	ENVELOPE_ ULS	Min	-115,4652	-7,632E-14	39-1
39	36	ENVELOPE_ ULS	Min	12,1536	-4,092E-16	39-1
40	9	USL1		-166,2063	-1,053E-13	40-1
40	35	USL1		-167,7135	7,998E-14	40-1
40	9	ULS2		-135,0339	-1,263E-15	40-1
40	35	ULS2		-229,3263	-1,735E-15	40-1
40	9	ENVELOPE_ ULS	Max	-135,0339	-1,263E-15	40-1

Table: Element Joint Forces - Frames, Part 2 of 2

Frame	Joint	OutputCase	StepType	M2 KN-m	M3 KN-m	FrameElem
40	35	ENVELOPE_ ULS	Max	-167,7135	7,998E-14	40-1
40	9	ENVELOPE_ ULS	Min	-166,2063	-1,053E-13	40-1
40	35	ENVELOPE_ ULS	Min	-229,3263	-1,735E-15	40-1

Table: Frame Loads - Distributed, Part 1 of 3

Table: Frame Loads - Distributed, Part 1 of 3

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
2	HYDROSTATIC	Local	Force	2	RelDist	0,0000
2	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
3	HYDROSTATIC	Local	Force	2	RelDist	0,0000
3	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
4	HYDROSTATIC	Local	Force	2	RelDist	0,0000
4	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
5	HYDROSTATIC	Local	Force	2	RelDist	0,0000
5	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
6	HYDROSTATIC	Local	Force	2	RelDist	0,0000
6	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
7	HYDROSTATIC	Local	Force	2	RelDist	0,0000
7	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
8	HYDROSTATIC	Local	Force	2	RelDist	0,0000
8	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
8	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
8	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
9	HYDROSTATIC	Local	Force	2	RelDist	0,0000
9	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
9	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
9	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
10	HYDROSTATIC	Local	Force	2	RelDist	0,0000
10	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
10	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
10	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
11	HYDROSTATIC	Local	Force	2	RelDist	0,0000
11	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
11	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
11	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
12	HYDROSTATIC	Local	Force	2	RelDist	0,0000
12	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
12	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
12	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
13	HYDROSTATIC	Local	Force	2	RelDist	0,0000
13	EARTH	GLOBAL	Force	Gravity	RelDist	0,0000
13	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
13	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
14	HYDROSTATIC	Local	Force	2	RelDist	0,0000

Table: Frame Loads - Distributed, Part 1 of 3

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
14	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
14	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
15	HYDROSTATIC	Local	Force	2	RelDist	0,0000
15	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
15	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
16	HYDROSTATIC	Local	Force	2	RelDist	0,0000
16	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
16	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
18	HYDROSTATIC	Local	Force	2	RelDist	0,0000
18	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
18	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
19	HYDROSTATIC	Local	Force	2	RelDist	0,0000
20	HYDROSTATIC	Local	Force	2	RelDist	0,0000
21	HYDROSTATIC	Local	Force	2	RelDist	0,0000
21	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
21	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
22	HYDROSTATIC	Local	Force	2	RelDist	0,0000
22	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
22	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
23	HYDROSTATIC	Local	Force	2	RelDist	0,0000
23	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
23	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
24	HYDROSTATIC	Local	Force	2	RelDist	0,0000
24	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
24	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
25	HYDROSTATIC	Local	Force	2	RelDist	0,0000
27	HYDROSTATIC	Local	Force	2	RelDist	0,0000
28	HYDROSTATIC	Local	Force	2	RelDist	0,0000
29	HYDROSTATIC	Local	Force	2	RelDist	0,0000
30	HYDROSTATIC	Local	Force	2	RelDist	0,0000
31	HYDROSTATIC	Local	Force	2	RelDist	0,0000
32	HYDROSTATIC	Local	Force	2	RelDist	0,0000
34	HYDROSTATIC	Local	Force	2	RelDist	0,0000
35	HYDROSTATIC	Local	Force	2	RelDist	0,0000
36	HYDROSTATIC	Local	Force	2	RelDist	0,0000
1	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
1	HYDROSTATIC	Local	Force	2	RelDist	0,0000
1	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
26	EARTH_PRESSURE DX	GLOBAL	Force	X	RelDist	0,0000
26	HYDROSTATIC	Local	Force	2	RelDist	0,0000
26	DINAMIC EARTH PRESSURE	GLOBAL	Force	X	RelDist	0,0000
37	HYDROSTATIC	Local	Force	2	RelDist	0,0000

Table: Frame Loads - Distributed, Part 1 of 3

Frame	LoadPat	CoordSys	Type	Dir	DistType	RelDistA
38	HYDROSTATIC	Local	Force	2	RelDist	0,0000

Table: Frame Loads - Distributed, Part 2 of 3

Table: Frame Loads - Distributed, Part 2 of 3

Frame	LoadPat	RelDistB	AbsDistA m	AbsDistB m	FOverLA KN/m	FOverLB KN/m
2	HYDROSTATIC	1,0000	0,00000	1,15723	-38,20	-31,00
2	EARTH	1,0000	0,00000	1,15723	51,50	51,50
3	HYDROSTATIC	1,0000	0,00000	1,02464	-31,00	-24,50
3	EARTH	1,0000	0,00000	1,02464	47,40	47,40
4	HYDROSTATIC	1,0000	0,00000	0,98945	-24,50	-18,60
4	EARTH	1,0000	0,00000	0,98945	39,70	39,70
5	HYDROSTATIC	1,0000	0,00000	0,98804	-18,60	-14,00
5	EARTH	1,0000	0,00000	0,98804	32,70	32,70
6	HYDROSTATIC	1,0000	0,00000	0,98763	-14,00	-11,10
6	EARTH	1,0000	0,00000	0,98763	26,90	26,90
7	HYDROSTATIC	1,0000	0,00000	1,04617	-11,10	-10,00
7	EARTH	1,0000	0,00000	1,04617	22,80	22,80
8	HYDROSTATIC	1,0000	0,00000	1,08329	-10,00	-11,10
8	EARTH	1,0000	0,00000	1,08329	22,80	22,80
8	EARTH_PRESSURE DX	1,0000	0,00000	1,08329	-27,00	-28,10
8	DINAMIC EARTH PRESSURE	1,0000	0,00000	1,08329	-24,00	-24,00
9	HYDROSTATIC	1,0000	0,00000	0,98504	-11,10	-14,00
9	EARTH	1,0000	0,00000	0,98504	26,90	26,90
9	EARTH_PRESSURE DX	1,0000	0,00000	0,98504	-28,10	-31,10
9	DINAMIC EARTH PRESSURE	1,0000	0,00000	0,98504	-24,00	-24,00
10	HYDROSTATIC	1,0000	0,00000	0,98394	-14,00	-18,60
10	EARTH	1,0000	0,00000	0,98394	32,70	32,70
10	EARTH_PRESSURE DX	1,0000	0,00000	0,98394	-31,10	-35,70
10	DINAMIC EARTH PRESSURE	1,0000	0,00000	0,98394	-24,00	-24,00
11	HYDROSTATIC	1,0000	0,00000	0,98416	-18,60	-24,50
11	EARTH	1,0000	0,00000	0,98416	39,70	39,70
11	EARTH_PRESSURE DX	1,0000	0,00000	0,98416	-35,70	-41,70
11	DINAMIC EARTH PRESSURE	1,0000	0,00000	0,98416	-24,00	-24,00
12	HYDROSTATIC	1,0000	0,00000	1,01876	-24,50	-31,00
12	EARTH	1,0000	0,00000	1,01876	47,40	47,40
12	EARTH_PRESSURE DX	1,0000	0,00000	1,01876	-41,70	-48,10
12	DINAMIC EARTH PRESSURE	1,0000	0,00000	1,01876	-24,00	-24,00
13	HYDROSTATIC	1,0000	0,00000	1,13787	-31,00	-38,20
13	EARTH	1,0000	0,00000	1,13787	51,50	51,50
13	EARTH_PRESSURE DX	1,0000	0,00000	1,13787	-48,10	-55,40
13	DINAMIC EARTH PRESSURE	1,0000	0,00000	1,13787	-24,00	-24,00
14	HYDROSTATIC	1,0000	0,00000	0,95249	-38,20	-46,70
14	EARTH_PRESSURE DX	1,0000	0,00000	0,95249	-55,40	-64,00
14	DINAMIC EARTH PRESSURE	1,0000	0,00000	0,95249	-24,00	-24,00

Table: Frame Loads - Distributed, Part 2 of 3

Frame	LoadPat	RelDistB	AbsDistA m	AbsDistB m	FOverLA KN/m	FOverLB KN/m
15	HYDROSTATIC	1,0000	0,00000	0,95249	-46,70	-55,20
15	EARTH_PRESSURE DX	1,0000	0,00000	0,95249	-64,00	-72,60
15	DINAMIC EARTH PRESSURE	1,0000	0,00000	0,95249	-24,00	-24,00
16	HYDROSTATIC	1,0000	0,00000	0,95249	-55,20	-63,80
16	EARTH_PRESSURE DX	1,0000	0,00000	0,95249	-72,60	-81,10
16	DINAMIC EARTH PRESSURE	1,0000	0,00000	0,95249	-24,00	-24,00
18	HYDROSTATIC	1,0000	0,00000	0,95249	-72,30	-80,80
18	EARTH_PRESSURE DX	1,0000	0,00000	0,95249	-89,70	-98,30
18	DINAMIC EARTH PRESSURE	1,0000	0,00000	0,95249	-24,00	-24,00
19	HYDROSTATIC	1,0000	0,00000	0,76564	-80,80	-80,80
20	HYDROSTATIC	1,0000	0,00000	0,72730	-80,80	-80,80
21	HYDROSTATIC	1,0000	0,00000	1,00122	-80,80	-86,60
21	EARTH_PRESSURE DX	1,0000	0,00000	1,00122	-98,30	-104,20
21	DINAMIC EARTH PRESSURE	1,0000	0,00000	1,00122	-24,00	-24,00
22	HYDROSTATIC	1,0000	0,00000	0,99802	-86,60	-91,20
22	EARTH_PRESSURE DX	1,0000	0,00000	0,99802	-104,20	-108,80
22	DINAMIC EARTH PRESSURE	1,0000	0,00000	0,99802	-24,00	-24,00
23	HYDROSTATIC	1,0000	0,00000	0,99844	-91,20	-94,00
23	EARTH_PRESSURE DX	1,0000	0,00000	0,99844	-108,80	-111,60
23	DINAMIC EARTH PRESSURE	1,0000	0,00000	0,99844	-24,00	-24,00
24	HYDROSTATIC	1,0000	0,00000	1,04339	-94,00	-95,00
24	EARTH_PRESSURE DX	1,0000	0,00000	1,04339	-111,60	-114,50
24	DINAMIC EARTH PRESSURE	1,0000	0,00000	1,04339	-24,00	-24,00
25	HYDROSTATIC	1,0000	0,00000	1,00615	-95,00	-94,00
27	HYDROSTATIC	1,0000	0,00000	1,00094	-94,00	-91,20
28	HYDROSTATIC	1,0000	0,00000	1,00204	-91,20	-86,60
29	HYDROSTATIC	1,0000	0,00000	1,00321	-86,60	-80,80
30	HYDROSTATIC	1,0000	0,00000	0,76564	-80,80	-80,80
31	HYDROSTATIC	1,0000	0,00000	0,76564	-80,80	-80,80
32	HYDROSTATIC	1,0000	0,00000	0,95249	-80,80	-72,30
34	HYDROSTATIC	1,0000	0,00000	0,95249	-63,80	-55,20
35	HYDROSTATIC	1,0000	0,00000	0,95249	-55,20	-46,70
36	HYDROSTATIC	1,0000	0,00000	0,95249	-46,70	-38,20
1	EARTH_PRESSURE DX	1,0000	0,00000	0,47625	-81,10	-85,40
1	HYDROSTATIC	1,0000	0,00000	0,47625	-63,80	-68,05
1	DINAMIC EARTH PRESSURE	1,0000	0,00000	0,47625	-24,00	-24,00
26	EARTH_PRESSURE DX	1,0000	0,00000	0,47625	-85,40	-89,70
26	HYDROSTATIC	1,0000	0,00000	0,47625	-68,05	-72,30
26	DINAMIC EARTH PRESSURE	1,0000	0,00000	0,47625	-24,00	-24,00
37	HYDROSTATIC	1,0000	0,00000	0,47625	-72,30	-68,05
38	HYDROSTATIC	1,0000	0,00000	0,47625	-68,05	-63,80

Table: Frame Loads - Distributed, Part 3 of 3

Table: Frame Loads - Distributed, Part 3 of 3

Frame	LoadPat	GUID
2	HYDROSTATIC	
2	EARTH	
3	HYDROSTATIC	
3	EARTH	
4	HYDROSTATIC	
4	EARTH	
5	HYDROSTATIC	
5	EARTH	
6	HYDROSTATIC	
6	EARTH	
7	HYDROSTATIC	
7	EARTH	
8	HYDROSTATIC	
8	EARTH	
8	EARTH_PRESSURE DX	
8	DINAMIC EARTH PRESSURE	
9	HYDROSTATIC	
9	EARTH	
9	EARTH_PRESSURE DX	
9	DINAMIC EARTH PRESSURE	
10	HYDROSTATIC	
10	EARTH	
10	EARTH_PRESSURE DX	
10	DINAMIC EARTH PRESSURE	
11	HYDROSTATIC	
11	EARTH	
11	EARTH_PRESSURE DX	
11	DINAMIC EARTH PRESSURE	
12	HYDROSTATIC	
12	EARTH	
12	EARTH_PRESSURE DX	
12	DINAMIC EARTH PRESSURE	
13	HYDROSTATIC	
13	EARTH	
13	EARTH_PRESSURE DX	
13	DINAMIC EARTH PRESSURE	
14	HYDROSTATIC	
14	EARTH_PRESSURE DX	
14	DINAMIC EARTH PRESSURE	
15	HYDROSTATIC	
15	EARTH_PRESSURE DX	
15	DINAMIC EARTH PRESSURE	
16	HYDROSTATIC	

Table: Frame Loads - Distributed, Part 3 of 3

Frame	LoadPat	GUID
16	EARTH_PRESSURE DX	
16	DINAMIC EARTH PRESSURE	
18	HYDROSTATIC	
18	EARTH_PRESSURE DX	
18	DINAMIC EARTH PRESSURE	
19	HYDROSTATIC	
20	HYDROSTATIC	
21	HYDROSTATIC	
21	EARTH_PRESSURE DX	
21	DINAMIC EARTH PRESSURE	
22	HYDROSTATIC	
22	EARTH_PRESSURE DX	
22	DINAMIC EARTH PRESSURE	
23	HYDROSTATIC	
23	EARTH_PRESSURE DX	
23	DINAMIC EARTH PRESSURE	
24	HYDROSTATIC	
24	EARTH_PRESSURE DX	
24	DINAMIC EARTH PRESSURE	
25	HYDROSTATIC	
27	HYDROSTATIC	
28	HYDROSTATIC	
29	HYDROSTATIC	
30	HYDROSTATIC	
31	HYDROSTATIC	
32	HYDROSTATIC	
34	HYDROSTATIC	
35	HYDROSTATIC	
36	HYDROSTATIC	
1	EARTH_PRESSURE DX	
1	HYDROSTATIC	
1	DINAMIC EARTH PRESSURE	
26	EARTH_PRESSURE DX	
26	HYDROSTATIC	
26	DINAMIC EARTH PRESSURE	
37	HYDROSTATIC	
38	HYDROSTATIC	

Table: Joint Spring Assignments 1 - Uncoupled

Table: Joint Spring Assignments 1 - Uncoupled

Joint	CoordSys	U1	U2	U3	R1	R2	R3
		KN/m	KN/m	KN/m	KN-m/rad	KN-m/rad	KN-m/rad
1	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
2	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000

Table: Joint Spring Assignments 1 - Uncoupled

Joint	CoordSys	U1 KN/m	U2 KN/m	U3 KN/m	R1 KN-m/rad	R2 KN-m/rad	R3 KN-m/rad
3	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
4	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
5	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
6	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
7	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
8	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
9	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
10	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000
11	Local	13187,00	0,00	0,00	0,0000	0,0000	0,0000
24	Local	13187,00	0,00	0,00	0,0000	0,0000	0,0000
25	Local	13187,00	0,00	0,00	0,0000	0,0000	0,0000
26	Local	13187,00	0,00	0,00	0,0000	0,0000	0,0000
32	Local	0,00	0,00	4525,00	0,0000	0,0000	0,0000

Table: Load Pattern Definitions

Table: Load Pattern Definitions

LoadPat	DesignType	SelfWtMult	AutoLoad	GUID	Notes
DEAD	DEAD	1,000000			
EARTH	DEAD	0,000000			
EARTH_PRESSURE DX	DEAD	0,000000			
HYDROSTATIC	DEAD	0,000000			
DINAMIC EARTH PRESSURE	DEAD	0,000000			
INERTIA	DEAD	0,000000			