Post Tension of Nevada
Blanchet House
Portland, Oregon

Calculations for

Band @ Line 1.1 from A to H
Band @ Line 3 from A to G
Band @ Line 5 from A to D
Band @ Line 5 from D to H
Band @ Line 6 from A to D

Unif @ Line B.5 from 1 to 6
Unif @ Line E from 1 to 4

Prepared For:

Barney Stoll
Post Tension of Nevada
1179 Center Point Dr.
Henderson, NV, 89074
702-565-7866

Prepared By:

INNOVA

1432 South Jones Blvd
Las Vegas, NV. 89146
(702) 220-6640

REGISTERED PROFESSIONAL ENGINEER
OREGON
CARLOS ALBERTO BANCHIK
EXPIRES: 12/31/11

AUG 1 5 2011

ITI Project No.: 111-086

REV.	DATE	BY:	CHK:	COMMENTS
0	08/15/11	IS/AB	CAB	Issue for Approval

ADAPT CORPORATION
1733 Woodside Road, Suite 220, Redwood City, CA 94061 USA
Tel: (650) 306 2400, Fax: (650) 364 4678
E-mail: support@adaptsoft.com, Web site: www.adaptsoft.com

ADAPT-FELT Standard 4.07
ADAPT POST-TENSIONING STRESS LOSS & ELONGATION PROGRAM
LICENSED TO:

This program calculates the long-term and immediate stress losses in a post-tensioned tendon. It outputs the elongations at the stressing ends and the final stress profile along the tendon.

DATE: Aug 15, 2011 TIME: 10:26:50

P R O J E C T T I T L E :
BLANCHET HOUSE

S P E C I F I C T I T L E :
Band @ Line 1.1 from A to H

L O N G - T E R M L O S S C A L C U L A T I O N S :

INPUT PARAMETERS :

Post-tensioning system	UNBONDED	
Type of strand	LOW LAX	
Ultimate strength of strand	270.00	ksi
Modulus of elasticity of strand	28500.00	ksi
Estimate of initial average compression	188.00	psi
Concrete strength at 28 days	5000.00	psi
Average weight of concrete	NORMAL	
Estimated age of concrete at stressing	3	days
Modulus of elasticity of concrete at stressing	3122.00	ksi
Modulus of elasticity of concrete at 28 days	4033.00	ksi
Estimate of average relative humidity	72.	%
Volume to surface ratio of member	4.00	in

CALCULATED VALUES :

Elastic shortening	.858	ksi
Shrinkage	4.227	ksi
Creep	2.126	ksi
Relaxation	4.005	ksi
Total long-term stress losses	11.216	ksi

F R I C T I O N & E L O N G A T I O N C A L C U L A T I O N S :

INPUT PARAMETERS :

Coefficient of angular friction (meu).....	.07000	/radian
Coefficient of wobble friction (K).....	.00140	rad/ft
Ultimate strength of strand	270.00	ksi
Ratio of jacking stress to strand's ultimate strength	.80	
Anchor set	.13	inch
Cross-sectional area of strand	.153	inch^2
Total Number of Strands per Tendon.....	1	
STRESSING	AT LEFT END	

LEGEND :

P ..... = Tendon profile type defined as: 1=reversed parabola;
2=partial/regular parabola; 3=harped; 4=general

X1/L etc = horizontal distances to control points in geometry of the
tendon divided by span length

Stresses tabulated are after anchor set but before long-term losses.

TENDON ID, GEOMETRY AND STRESS PROFILE (Blanchet Band at line 1_1 from)

	LENGTH		< TENDON HEIGHT in.>			Horizontal ratios			<- STRESS (ksi) -->		
SPAN	ft	P	start	center	right	X1/L	X2/L	X3/L	start	center	right
-1----2-----3----4------5------6-------7----8----9--------10------11------12-											
1	15.50	1	4.00	3.75	7.00	.10	.50	.10	193.95	196.42	200.40
2	14.00	1	7.00	5.25	7.00	.10	.50	.10	200.40	203.79	203.14
3	14.00	1	7.00	5.25	7.00	.10	.50	.10	203.14	199.96	197.03
4	14.00	1	7.00	5.25	7.00	.10	.50	.10	197.03	193.94	191.11
5	14.00	1	7.00	5.25	7.00	.10	.50	.10	191.11	188.11	185.36
6	14.00	1	7.00	5.25	7.00	.10	.50	.10	185.36	182.45	179.79
7	13.50	1	7.00	3.50	4.00	.10	.50	.10	179.79	176.03	174.07

99.00 ft (total length of tendon)

SUMMARY :

Average initial stress (after release).....	191.71	ksi
Long term stress losses	11.22	ksi
Final average stress	180.49	ksi
Final average force in tendon	27.62	k
Anchor set influence from left pull (204.97ksi; .759) ..	25.49	ft
Elongation at left pull before anchor set	8.12	inch
Elongation at left pull after anchor set	7.99	inch
Total elongation after anchor set	7.99	inch
Ratio of total elongation to tendon length after anchor set	.080720	inch/ft
Jacking force	33.05	k

CRITICAL STRESS RATIOS :

At stressing .800; At anchorage .718; Max along tendon .759

ADAPT CORPORATION
1733 Woodside Road, Suite 220, Redwood City, CA 94061 USA
Tel: (650) 306 2400, Fax: (650) 364 4678
E-mail: support@adaptsoft.com, Web site: www.adaptsoft.com

ADAPT-FELT Standard 4.07
ADAPT POST-TENSIONING STRESS LOSS & ELONGATION PROGRAM
LICENSED TO:

This program calculates the long-term and immediate stress losses in a post-tensioned tendon. It outputs the elongations at the stressing ends and the final stress profile along the tendon.

DATE: Aug 15, 2011 TIME: 10:27:20

P R O J E C T T I T L E :
BLANCHET HOUSE

S P E C I F I C T I T L E :
Band @ Line 3 from A to G

L O N G - T E R M L O S S C A L C U L A T I O N S :

INPUT PARAMETERS :

Post-tensioning system	UNBONDED	
Type of strand	LOW LAX	
Ultimate strength of strand	270.00	ksi
Modulus of elasticity of strand	28500.00	ksi
Estimate of initial average compression	188.00	psi
Concrete strength at 28 days	5000.00	psi
Average weight of concrete	NORMAL	
Estimated age of concrete at stressing	3	days
Modulus of elasticity of concrete at stressing	3122.00	ksi
Modulus of elasticity of concrete at 28 days	4033.00	ksi
Estimate of average relative humidity	72.	%
Volume to surface ratio of member	4.00	in

CALCULATED VALUES :

Elastic shortening	.858	ksi
Shrinkage	4.227	ksi
Creep	2.126	ksi
Relaxation	4.240	ksi
Total long-term stress losses	11.451	ksi

F R I C T I O N & E L O N G A T I O N C A L C U L A T I O N S :

INPUT PARAMETERS :

Coefficient of angular friction (meu).....	.07000	/radian
Coefficient of wobble friction (K).....	.00140	rad/ft
Ultimate strength of strand	270.00	ksi
Ratio of jacking stress to strand's ultimate strength	.80	
Anchor set	.13	inch
Cross-sectional area of strand	.153	inch^2
Total Number of Strands per Tendon.....	1	
STRESSING	AT LEFT END	

LEGEND :

P ..... = Tendon profile type defined as: 1=reversed parabola; 2=partial/regular parabola; 3=harped; 4=general

X1/L etc = horizontal distances to control points in geometry of the tendon divided by span length

Stresses tabulated are after anchor set but before long-term losses.

TENDON ID, GEOMETRY AND STRESS PROFILE (Blanchet Band at line 3 from A)

	LENGTH		< TENDON HEIGHT in.>			Horizontal ratios			<- STRESS (ksi) -->		
SPAN	ft	P	start	center	right	X1/L	X2/L	X3/L	start	center	right
-1----2-----3----4------5------6-------7----8----9--------10------11------12-											
1	30.42	1	4.00	1.50	7.00	.10	.50	.10	195.50	200.78	204.84
2	28.00	1	7.00	2.50	7.00	.10	.50	.10	204.84	199.30	194.20
3	27.50	1	7.00	2.50	4.00	.10	.50	.10	194.20	189.01	184.98

85.92 ft (total length of tendon)

SUMMARY :

Average initial stress (after release).....	196.62	ksi
Long term stress losses	11.45	ksi
Final average stress	185.17	ksi
Final average force in tendon	28.33	k
Anchor set influence from left pull (205.75ksi; .762) ..	28.81	ft
Elongation at left pull before anchor set	7.24	inch
Elongation at left pull after anchor set	7.11	inch
Total elongation after anchor set	7.11	inch
Ratio of total elongation to tendon length after anchor set	.082789	inch/ft
Jacking force	33.05	k

CRITICAL STRESS RATIOS :

At stressing .800; At anchorage .724; Max along tendon .762

ADAPT CORPORATION
1733 Woodside Road, Suite 220, Redwood City, CA 94061 USA
Tel: (650) 306 2400, Fax: (650) 364 4678
E-mail: support@adaptsoft.com, Web site: www.adaptsoft.com

ADAPT-FELT Standard 4.07
ADAPT POST-TENSIONING STRESS LOSS & ELONGATION PROGRAM
LICENSED TO:

This program calculates the long-term and immediate stress losses in a post-tensioned tendon. It outputs the elongations at the stressing ends and the final stress profile along the tendon.

DATE: Aug 15, 2011 TIME: 10:27:44

P R O J E C T T I T L E :
BLANCHET HOUSE

S P E C I F I C T I T L E :
Band @ Line 5 from A to D

L O N G - T E R M L O S S C A L C U L A T I O N S :

INPUT PARAMETERS :

Post-tensioning system	UNBONDED	
Type of strand	LOW LAX	
Ultimate strength of strand	270.00	ksi
Modulus of elasticity of strand	28500.00	ksi
Estimate of initial average compression	188.00	psi
Concrete strength at 28 days	5000.00	psi
Average weight of concrete	NORMAL	
Estimated age of concrete at stressing	3	days
Modulus of elasticity of concrete at stressing	3122.00	ksi
Modulus of elasticity of concrete at 28 days	4033.00	ksi
Estimate of average relative humidity	72.	%
Volume to surface ratio of member	4.00	in

CALCULATED VALUES :

Elastic shortening	.858	ksi
Shrinkage	4.227	ksi
Creep	2.126	ksi
Relaxation	4.712	ksi
Total long-term stress losses	11.922	ksi

F R I C T I O N & E L O N G A T I O N C A L C U L A T I O N S :

INPUT PARAMETERS :

Coefficient of angular friction (meu).....	.07000	/radian
Coefficient of wobble friction (K).....	.00140	rad/ft
Ultimate strength of strand	270.00	ksi
Ratio of jacking stress to strand's ultimate strength	.80	
Anchor set	.13	inch
Cross-sectional area of strand	.153	inch^2
Total Number of Strands per Tendon.....	1	
STRESSING	AT RIGHT END	

LEGEND :

P ..... = Tendon profile type defined as: 1=reversed parabola;
2=partial/regular parabola; 3=harped; 4=general

X1/L etc = horizontal distances to control points in geometry of the
tendon divided by span length

Stresses tabulated are after anchor set but before long-term losses.

TENDON ID, GEOMETRY AND STRESS PROFILE (Blanchet Band at line 5 from A)

SPAN	LENGTH ft	P	< TENDON HEIGHT in.> start	center	right	Horizontal ratios X1/L	X2/L	X3/L	<- STRESS (ksi) --> start	center	right
CAN	18.61	1	4.00		7.00			.00	199.22		205.46
1	27.50	1	7.00	1.50	4.00	.10	.50	.10	205.46	200.02	195.09

46.11 ft (total length of tendon)

SUMMARY :

Average initial stress (after release).....	200.91	ksi
Long term stress losses	11.92	ksi
Final average stress	188.99	ksi
Final average force in tendon	28.91	k
Anchor set influence from right pull (205.54ksi; .761) ..	27.36	ft
Elongation at right pull before anchor set	4.03	inch
Elongation at right pull after anchor set	3.90	inch
Total elongation after anchor set	3.90	inch
Ratio of total elongation to tendon length after anchor set	.084593	inch/ft
Jacking force	33.05	k

CRITICAL STRESS RATIOS :

At stressing .800; At anchorage .738; Max along tendon .761

ADAPT CORPORATION
1733 Woodside Road, Suite 220, Redwood City, CA 94061 USA
Tel: (650) 306 2400, Fax: (650) 364 4678
E-mail: support@adaptsoft.com, Web site: www.adaptsoft.com

ADAPT-FELT Standard 4.07
ADAPT POST-TENSIONING STRESS LOSS & ELONGATION PROGRAM
LICENSED TO:

This program calculates the long-term and immediate stress losses in a post-tensioned tendon. It outputs the elongations at the stressing ends and the final stress profile along the tendon.

DATE: Aug 15, 2011 TIME: 10:28:07

P R O J E C T T I T L E :
BLANCHET HOUSE

S P E C I F I C T I T L E :
Band @ Line 5 from D to H

L O N G - T E R M L O S S C A L C U L A T I O N S :

INPUT PARAMETERS :

Post-tensioning system	UNBONDED	
Type of strand	LOW LAX	
Ultimate strength of strand	270.00	ksi
Modulus of elasticity of strand	28500.00	ksi
Estimate of initial average compression	188.00	psi
Concrete strength at 28 days	5000.00	psi
Average weight of concrete	NORMAL	
Estimated age of concrete at stressing	3	days
Modulus of elasticity of concrete at stressing	3122.00	ksi
Modulus of elasticity of concrete at 28 days	4033.00	ksi
Estimate of average relative humidity	72.	%
Volume to surface ratio of member	4.50	in

CALCULATED VALUES :

Elastic shortening	.858	ksi
Shrinkage	4.060	ksi
Creep	2.126	ksi
Relaxation	4.482	ksi
Total long-term stress losses	11.526	ksi

F R I C T I O N & E L O N G A T I O N C A L C U L A T I O N S :

INPUT PARAMETERS :

Coefficient of angular friction (meu).....	.07000	/radian
Coefficient of wobble friction (K).....	.00140	rad/ft
Ultimate strength of strand	270.00	ksi
Ratio of jacking stress to strand's ultimate strength	.80	
Anchor set	.13	inch
Cross-sectional area of strand	.153	inch^2
Total Number of Strands per Tendon.....	1	
STRESSING	AT LEFT END	

LEGEND :

P ..... = Tendon profile type defined as: 1=reversed parabola;
2=partial/regular parabola; 3=harped; 4=general

X1/L etc = horizontal distances to control points in geometry of the
tendon divided by span length

Stresses tabulated are after anchor set but before long-term losses.

TENDON ID, GEOMETRY AND STRESS PROFILE (Blanchet Band at line 5 from D)

	LENGTH		< TENDON HEIGHT in.>			Horizontal ratios			<- STRESS (ksi) -->		
SPAN	ft	P	start	center	right	X1/L	X2/L	X3/L	start	center	right
-1----2-----3----4------5------6-------7----8----9--------10------11------12-											
1	26.00	1	4.50	1.50	8.00	.10	.50	.10	194.40	199.33	205.12
2	29.60	1	8.00	1.50	4.50	.10	.50	.10	205.12	198.92	194.04

55.60 ft (total length of tendon)

SUMMARY :

Average initial stress (after release).....	199.30	ksi
Long term stress losses	11.53	ksi
Final average stress	187.78	ksi
Final average force in tendon	28.73	k
Anchor set influence from left pull (205.20ksi; .760) ..	26.12	ft
Elongation at left pull before anchor set	4.79	inch
Elongation at left pull after anchor set	4.67	inch
Total elongation after anchor set	4.67	inch
Ratio of total elongation to tendon length after anchor set	.083918	inch/ft
Jacking force	33.05	k

CRITICAL STRESS RATIOS :

At stressing .800; At anchorage .720; Max along tendon .760

ADAPT CORPORATION
1733 Woodside Road, Suite 220, Redwood City, CA 94061 USA
Tel: (650) 306 2400, Fax: (650) 364 4678
E-mail: support@adaptsoft.com, Web site: www.adaptsoft.com

ADAPT-FELT Standard 4.07
ADAPT POST-TENSIONING STRESS LOSS & ELONGATION PROGRAM
LICENSED TO:

This program calculates the long-term and immediate stress losses in a post-tensioned tendon. It outputs the elongations at the stressing ends and the final stress profile along the tendon.

DATE: Aug 15, 2011 TIME: 10:28:25

P R O J E C T T I T L E :
BLANCHET HOUSE

S P E C I F I C T I T L E :
Band @ Line 6 from A to D

L O N G - T E R M L O S S C A L C U L A T I O N S :

INPUT PARAMETERS :

Post-tensioning system	UNBONDED	
Type of strand	LOW LAX	
Ultimate strength of strand	270.00	ksi
Modulus of elasticity of strand	28500.00	ksi
Estimate of initial average compression	209.00	psi
Concrete strength at 28 days	5000.00	psi
Average weight of concrete	NORMAL	
Estimated age of concrete at stressing	3	days
Modulus of elasticity of concrete at stressing	3122.00	ksi
Modulus of elasticity of concrete at 28 days	4033.00	ksi
Estimate of average relative humidity	72.	%
Volume to surface ratio of member	4.00	in

CALCULATED VALUES :

Elastic shortening	.954	ksi
Shrinkage	4.227	ksi
Creep	2.363	ksi
Relaxation	4.698	ksi
Total long-term stress losses	12.242	ksi

F R I C T I O N & E L O N G A T I O N C A L C U L A T I O N S :

INPUT PARAMETERS :

Coefficient of angular friction (meu).....	.07000	/radian
Coefficient of wobble friction (K).....	.00140	rad/ft
Ultimate strength of strand	270.00	ksi
Ratio of jacking stress to strand's ultimate strength	.80	
Anchor set	.13	inch
Cross-sectional area of strand	.153	inch^2
Total Number of Strands per Tendon.....	1	
STRESSING	AT RIGHT END	

LEGEND :

P ..... = Tendon profile type defined as: 1=reversed parabola;
2=partial/regular parabola; 3=harped; 4=general

X1/L etc = horizontal distances to control points in geometry of the
tendon divided by span length

Stresses tabulated are after anchor set but before long-term losses.

TENDON ID, GEOMETRY AND STRESS PROFILE (Blanchet Band at line 6 from A)

	LENGTH		< TENDON HEIGHT in.>			Horizontal ratios			<- STRESS (ksi) -->		
SPAN	ft	P	start	center	right	X1/L	X2/L	X3/L	start	center	right
-1----2-----3----4------5------6-------7----8----9--------10------11------12-											
1	19.15	1	4.00	4.00	7.00	.10	.50	.10	199.68	202.42	205.19
2	8.58	1	7.00	7.00	7.00	.10	.50	.10	205.19	203.94	202.49
3	18.39	1	7.00	4.00	4.00	.10	.50	.10	202.49	198.47	195.70

46.12 ft (total length of tendon)

SUMMARY :

Average initial stress (after release).....	201.30	ksi
Long term stress losses	12.24	ksi
Final average stress	189.06	ksi
Final average force in tendon	28.93	k
Anchor set influence from right pull (205.85ksi; .762) ..	28.22	ft
Elongation at right pull before anchor set	4.03	inch
Elongation at right pull after anchor set	3.91	inch
Total elongation after anchor set	3.91	inch
Ratio of total elongation to tendon length after anchor set	.084758	inch/ft
Jacking force	33.05	k

CRITICAL STRESS RATIOS :

At stressing .800; At anchorage .740; Max along tendon .762

ADAPT CORPORATION
1733 Woodside Road, Suite 220, Redwood City, CA 94061 USA
Tel: (650) 306 2400, Fax: (650) 364 4678
E-mail: support@adaptsoft.com, Web site: www.adaptsoft.com

ADAPT-FELT Standard 4.07
ADAPT POST-TENSIONING STRESS LOSS & ELONGATION PROGRAM
LICENSED TO:

This program calculates the long-term and immediate stress losses in a post-tensioned tendon. It outputs the elongations at the stressing ends and the final stress profile along the tendon.

DATE: Aug 15, 2011 TIME: 10:28:44

P R O J E C T T I T L E :
BLANCHET HOUSE

S P E C I F I C T I T L E :
Unif @ Line B5 from 1 to 6

L O N G - T E R M L O S S C A L C U L A T I O N S :

INPUT PARAMETERS :

Post-tensioning system	UNBONDED	
Type of strand	LOW LAX	
Ultimate strength of strand	270.00	ksi
Modulus of elasticity of strand	28500.00	ksi
Estimate of initial average compression	313.00	psi
Concrete strength at 28 days	5000.00	psi
Average weight of concrete	NORMAL	
Estimated age of concrete at stressing	3	days
Modulus of elasticity of concrete at stressing	3122.00	ksi
Modulus of elasticity of concrete at 28 days	4033.00	ksi
Estimate of average relative humidity	72.	%
Volume to surface ratio of member	4.00	in

CALCULATED VALUES :

Elastic shortening	1.429	ksi
Shrinkage	4.227	ksi
Creep	3.539	ksi
Relaxation	3.937	ksi
Total long-term stress losses	13.132	ksi

F R I C T I O N & E L O N G A T I O N C A L C U L A T I O N S :

INPUT PARAMETERS :

Coefficient of angular friction (meu).....	.07000	/radian
Coefficient of wobble friction (K).....	.00140	rad/ft
Ultimate strength of strand	270.00	ksi
Ratio of jacking stress to strand's ultimate strength	.80	
Anchor set	.13	inch
Cross-sectional area of strand	.153	inch^2
Total Number of Strands per Tendon.....	1	
STRESSING	AT LEFT END	

LEGEND :

P ..... = Tendon profile type defined as: 1=reversed parabola;
2=partial/regular parabola; 3=harped; 4=general

X1/L etc = horizontal distances to control points in geometry of the tendon divided by span length

Stresses tabulated are after anchor set but before long-term losses.

TENDON ID, GEOMETRY AND STRESS PROFILE (Blanchet Unif at line B5 from)

	LENGTH		< TENDON HEIGHT in.>			Horizontal ratios			<- STRESS (ksi) -->		
SPAN	ft	P	start	center	right	X1/L	X2/L	X3/L	start	center	right
-1----2-----3----4------5------6-------7----8----9--------10------11------12-											
1	24.30	2	4.00	2.50	7.00	.10	.50	.10	195.44	199.04	202.98
2	12.15	2	7.00	6.50	7.00	.10	.50	.10	205.08	203.79	202.17
3	26.29	2	7.00	1.75	7.00	.10	.50	.10	200.85	195.84	191.86
4	29.75	2	7.00	1.50	4.00	.10	.50	.10	189.33	184.39	180.87
CAN	5.92	1	4.00		4.00	.00			179.70		178.22

98.41 ft (total length of tendon)

SUMMARY :

Average initial stress (after release).....	193.27	ksi
Long term stress losses	13.13	ksi
Final average stress	180.14	ksi
Final average force in tendon	27.56	k
Anchor set influence from left pull (205.35ksi; .761) ..	25.93	ft
Elongation at left pull before anchor set	8.13	inch
Elongation at left pull after anchor set	8.01	inch
Total elongation after anchor set	8.01	inch
Ratio of total elongation to tendon length after anchor set	.081377	inch/ft
Jacking force	33.05	k

CRITICAL STRESS RATIOS :

At stressing .800; At anchorage .721; Max along tendon .761

ADAPT CORPORATION
1733 Woodside Road, Suite 220, Redwood City, CA 94061 USA
Tel: (650) 306 2400, Fax: (650) 364 4678
E-mail: support@adaptsoft.com, Web site: www.adaptsoft.com

ADAPT-FELT Standard 4.07
ADAPT POST-TENSIONING STRESS LOSS & ELONGATION PROGRAM
LICENSED TO:

This program calculates the long-term and immediate stress losses in a post-tensioned tendon. It outputs the elongations at the stressing ends and the final stress profile along the tendon.

DATE: Aug 15, 2011 TIME: 10:29:01

P R O J E C T T I T L E :
BLANCHET HOUSE

S P E C I F I C T I T L E :
Unif @ Line E from 1 to 4

L O N G - T E R M L O S S C A L C U L A T I O N S :

INPUT PARAMETERS :

Post-tensioning system	UNBONDED	
Type of strand	LOW LAX	
Ultimate strength of strand	270.00	ksi
Modulus of elasticity of strand	28500.00	ksi
Estimate of initial average compression	313.00	psi
Concrete strength at 28 days	5000.00	psi
Average weight of concrete	NORMAL	
Estimated age of concrete at stressing	3	days
Modulus of elasticity of concrete at stressing	3122.00	ksi
Modulus of elasticity of concrete at 28 days	4033.00	ksi
Estimate of average relative humidity	72.	%
Volume to surface ratio of member	4.00	in

CALCULATED VALUES :

Elastic shortening	1.429	ksi
Shrinkage	4.227	ksi
Creep	3.539	ksi
Relaxation	4.632	ksi
Total long-term stress losses	13.827	ksi